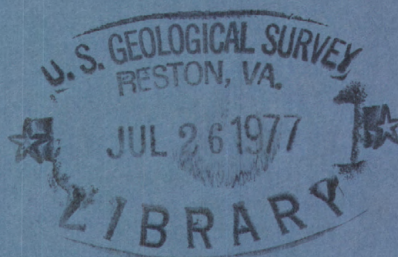


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Water Resources Data for Pennsylvania Water Year 1976

Volume 1. Delaware River Basin



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

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

CALENDAR FOR WATER YEAR 1976

1975

OCTOBER

S	M	T	W	T	F	S
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Water Resources Data for Pennsylvania Water Year 1976

Volume 1. Delaware River Basin



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

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

UNITED STATES DEPARTMENT OF THE INTERIOR

CECIL D. ANDRUS, Secretary

GEOLOGICAL SURVEY

V. E. McKelvey, Director

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District Chief, Water Resources Division
U.S. Geological Survey
P. O. Box 1107
Harrisburg, Pennsylvania 17108

1977

Preface

This report was prepared by personnel of the Pennsylvania district of the Water Resources Division of the U.S. Geological Survey under the supervision of N. H. Beamer, District Chief, and J. T. Callahan, Regional Hydrologist, Northeastern Region. It was done in cooperation with the State of Pennsylvania 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.

Data for Pennsylvania are in three volumes as follows:

- Volume 1. Delaware River Basin
- Volume 2. Susquehanna and Potomac River Basins
- Volume 3. Ohio River and St. Lawrence River Basins

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		11. Contract/Grant No.	
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15. Supplementary Notes Prepared in cooperation with the Commonwealth of Pennsylvania and with other agencies.		14.	
16. Abstracts Water resources data for the 1976 water year for Pennsylvania consist of records of stage, discharge, and water quality of streams; stage, contents, and water quality of lakes and reservoirs; and water levels and water quality of ground water. This report contains discharge records for 84 gaging stations; stage and contents for 10 lakes and reservoirs; water quality for 40 gaging stations, 54 partial-record stations, and water levels for 16 observation wells. Also included are 41 crest-stage partial-record stations and 31 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 Pennsylvania.			
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17b. Identifiers/Open-Ended Terms			
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18. Availability Statement No restriction on distribution. This report may be purchased from the NTIS, U.S. Department of Commerce, Springfield, Virginia 22161		19. Security Class (This Report) UNCLASSIFIED	21. No. of Pages
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GAGING STATIONS, IN DOWNSTREAM ORDER, FOR WHICH RECORDS ARE PUBLISHED

(Letter after station name designates type of data: (d) discharge, (c) chemical, (b) biological, (t) water temperature, (s) sediment)

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WATER RESOURCES DATA FOR PENNSYLVANIA, 1976

INTRODUCTION

Water resources data for the 1976 water year for Pennsylvania consist of records of stage, discharge, and water quality of streams; stage, contents, and water quality of lakes and reservoirs; and water levels and water quality of ground water. This report contains discharge records for 84 gaging stations; stage and contents for 10 lakes and reservoirs; water quality for 40 gaging stations, 54 partial-record stations, and water levels for 16 observation wells. Also included are 41 crest-stage partial-record stations and 31 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 Pennsylvania.

Since 1962, the Pennsylvania Department of Environmental Resources (DER) has collected and analyzed water-quality samples throughout the state as part of the Pennsylvania Water-Quality Network^{1/}. Beginning with the 1976 water year, these water-quality data will be included in the "Water Resources Data for Pennsylvania" to provide users with a more comprehensive collection of water-resources data for the state.

This report contains records of DER samples for 19 gaging stations, 17 water-quality stations, and 22 partial-record stations. All DER analyses are distinguished from USGS analyses by the value 9813 under the column heading "Code for Agency Collecting Sample".

At this time records of Pennsylvania Water-Quality Network samples collected prior to October 1975 are available only through the DER. Historical data provided by the DER will be published in the future as a separate data report. All requests and questions concerning the data should be directed to the Pennsylvania Department of Environmental Resources, Bureau of Water-Quality Management, 14th Floor, Fulton Building, P.O. Box 2063, Harrisburg, Pennsylvania 17120.

Records of discharge or state 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, 1200 South Eads Street, Arlington, Virginia 22202.

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 PA-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 Commonwealth of Pennsylvania have had cooperative agreements for the systematic collection of surface-water records during the periods 1919-21 and 1931 to date, water-quality records from 1944 to date, and ground-water records from 1925 to date. Organizations that supplied data are acknowledged in station descriptions. Organizations that assisted in collecting data through cooperative agreement with the Survey are:

State Department of Environmental Resources, M. K. Goddard, secretary, through the following: Office of Resources Management, C. H. McConnell, deputy secretary; Office of Environmental Protection and Regulation, W. B. Middendorf, deputy secretary; Bureau of Topographic and Geologic Survey, A. A. Socolow, director.

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

Delaware River Basin Commission, J. F. Wright, executive director.

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

City of Easton, J. Schultz, mayor.

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

Delaware Geological Survey, R. R. Jordan, state geologist.

Assistance in the form of funds or services was given by the State Department of Environmental Resources, Bureau of Water-Quality Management in providing records for 58 water-quality stations and by the Corps of Engineers, U.S. Army, in providing records for 45 gaging stations published in this report. Assistance was also furnished by the National Weather Service, NOAA, U.S. Department of Commerce, and the U.S. Environmental Protection Agency.

The following organizations aided in collecting records:

Palmer Water Co.; Pennsylvania Power and Light Co.; Philadelphia Electric Co.; and Philadelphia Suburban Water Co.

^{1/} Commonwealth of Pennsylvania, Department of Environmental Resources, 1975, Pennsylvania Water-Quality Network - Sampling Station Descriptions: Publication No. 33, 62 p.

WATER RESOURCES DATA FOR PENNSYLVANIA, 1976

HYDROLOGIC CONDITIONS

Streamflow during the 1976 water year was above average. At the two representative gaging stations for the Delaware River basin, Bush Kill at Shoemakers, Pa. (01439500) and Schuylkill River at Pottstown, Pa. (01472000), streamflow was 123 percent and 144 percent, respectively, of the 1941-70 median.

Precipitation over the basin varied widely from station to station and from month to month. Below normal precipitation occurred at some stations during December and from February through September, with the basin average below normal for December and from March through May. June through September were particularly variable with Philadelphia and Reading having 47 percent and 131 percent, respectively, of normal precipitation for August.

Bush Kill at Shoemakers was above median for every month except March, April, and May. Streamflow for the year was the nineteenth highest of record, and 115 percent of the average for the period 1908-75.

Schuylkill River at Pottstown was above median for every month except March and May. Monthly means for October and January were the highest for the period of record, surpassing the means of October 1956 and January 1949. Streamflow for October was 500 percent of the median and for January was 307 percent of the median for the period 1941-70. Streamflow for the year was the eighth highest of record, and was 133 percent of the average for the period 1926-75.

Yearly mean streamflow at both stations was less than that of 1972, 1973, and 1975, but greater than that of 1971. Bush Kill yearly mean was less than that of 1974; Schuylkill River yearly mean was greater than that of 1974. Monthly means are compared with monthly medians, monthly maximums, and monthly minimums for the period 1941-70 at the two representative gaging stations in figures 1 and 2.

Ground-water levels of the 1976 water year were generally above their monthly means during the first six months of the year, below during the next three months, and seemed to be recovering during the last quarter to the above average condition they had had at the beginning of the year.

Ground-water levels in October and November of 1975 were above those in 1974. A general decline in the number of water levels that were above those of the previous year started in December and continued through June except during February. Recovery seemed to be occurring during the late summer months of July, August, and September.

Comparison of 1976 water levels in network observation wells with a) 1975 water levels and, b) monthly mean water levels for period of record is shown in figure 3.

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.

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

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

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

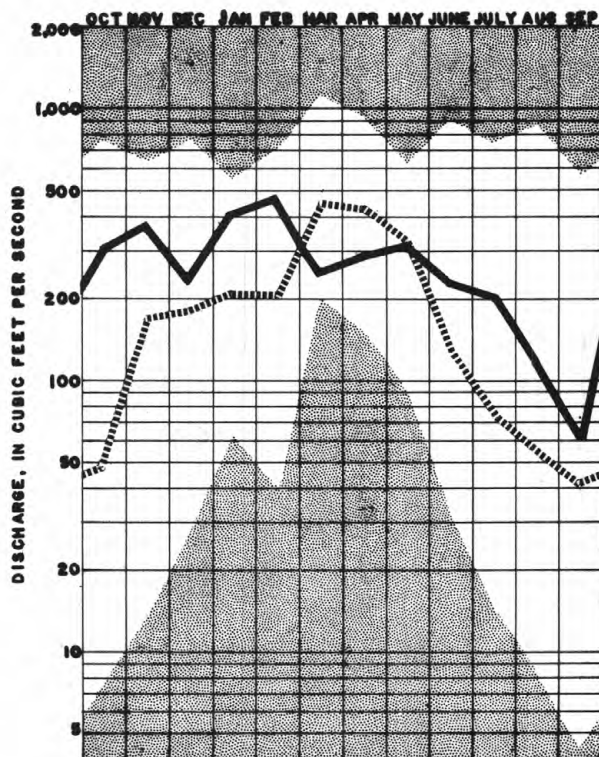
Artesian means confined and is used to describe a well in which the water level stands above the top of the aquifer, tapped by the well. A flowing artesian well is one in which the water level is above the land surface.

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

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

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

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



01439500 BUSH KILL AT SHOEMAKERS, PA.

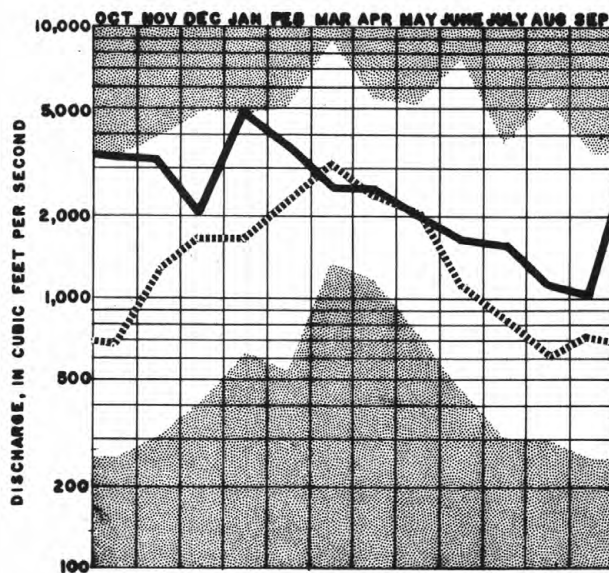
68 year of record, 1908-76

Unshaded area.--Range between highest and lowest monthly means prior to 1976 water year.

Broken line.--Median of monthly mean discharge for period 1941-70.

Solid line.--Monthly mean discharge during 1976 water year.

Figure 1.--Comparison of discharge during 1976 water year with median discharge for period 1941-70.



01472000 SCHUYLKILL RIVER AT POTTSTOWN, PA.

50 years of record, 1926-76

Figure 2.--Comparison of discharge during 1976 water year with median discharge for period 1941-70.

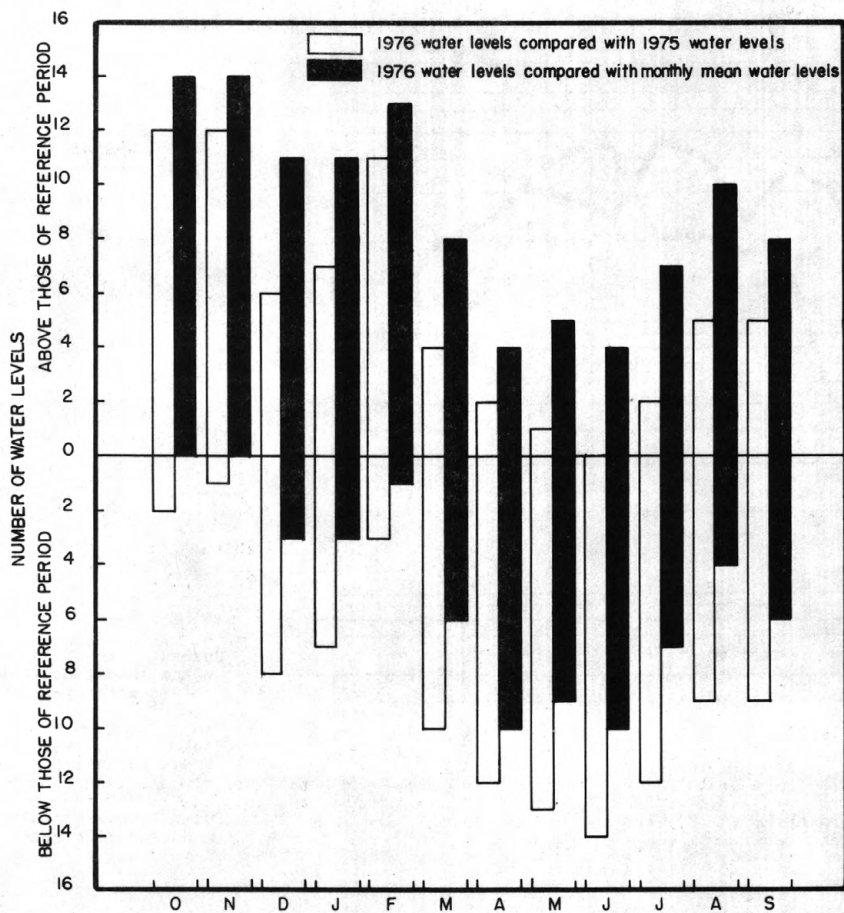


Figure 3.--Comparison of 1976 water levels in network observation wells with
a) 1975 water levels and
b) monthly mean water levels for period of record.

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

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

Chemical oxygen demand (COD) is a measure of the chemically oxidizable material in the water, and furnishes an approximation of the amount of organic and reducing material present. The determined value may correlate with natural water color or with 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 or 448.8 gallons per minute or 0.02832 cubic meters per second.

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

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

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

Dissolved refers to 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.

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

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

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

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

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

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

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

Micrograms per gram ($\mu\text{g/g}$) 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 ($\mu\text{g/L}$, $\mu\text{g/L}$) 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.

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.

Organisms 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 distributions 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.

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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.

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

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

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

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

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

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 substrate 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.

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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 planimeted. All areas shown are those for the stage when the planimeted 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.

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

Kingdom.....Animal
Phylum.....Arthropoda
ClassInsecta
OrderEphemeroptera
FamilyEphemeridae
GenusHexagenia
Species.....Hexagenia limbata

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

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

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

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

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 NUMBERS

Since October 1, 1950, the order of listing hydrologic-station records in Survey reports is in a downstream direction along the main stream. All stations on a tributary entering upstream from a main-stream station are listed before that station. A station on a tributary that enters between two main-stream stations is listed between them. A similar order is followed 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 some 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 the 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 4 below.

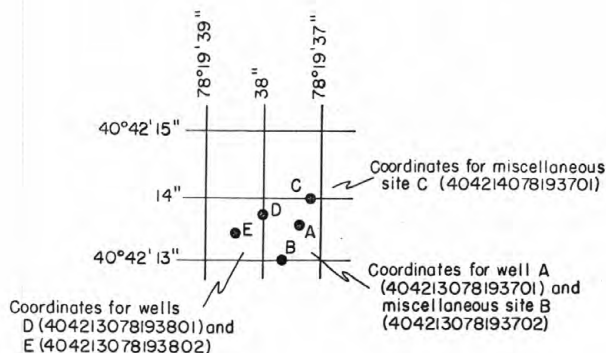


Figure 4.-- System for numbering wells and miscellaneous sites (latitude and longitude)

A local well number is also assigned to the wells and consists of a 2-letter abbreviation of the county in which the well is located and a sequential number assigned at the time the well was scheduled.

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 station 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 textbooks, 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 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".

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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.

Skeleton 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.

WATER RESOURCES DATA FOR PENNSYLVANIA, 1976

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 gives 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.

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 measured 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 section.

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.

WATER RESOURCES DATA FOR PENNSYLVANIA, 1976
EXPLANATION OF GROUND-WATER LEVEL RECORDS

13

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 4.

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 land-surface datum (lsd). Land-surface datum is a datum plane that is approximately at land surface at each well. The altitude of the land-surface datum above mean sea level is given in the well description. Mean sea level is the datum plane on which the national network of precise levels is based. 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 RESOURCES DATA FOR PENNSYLVANIA, 1976

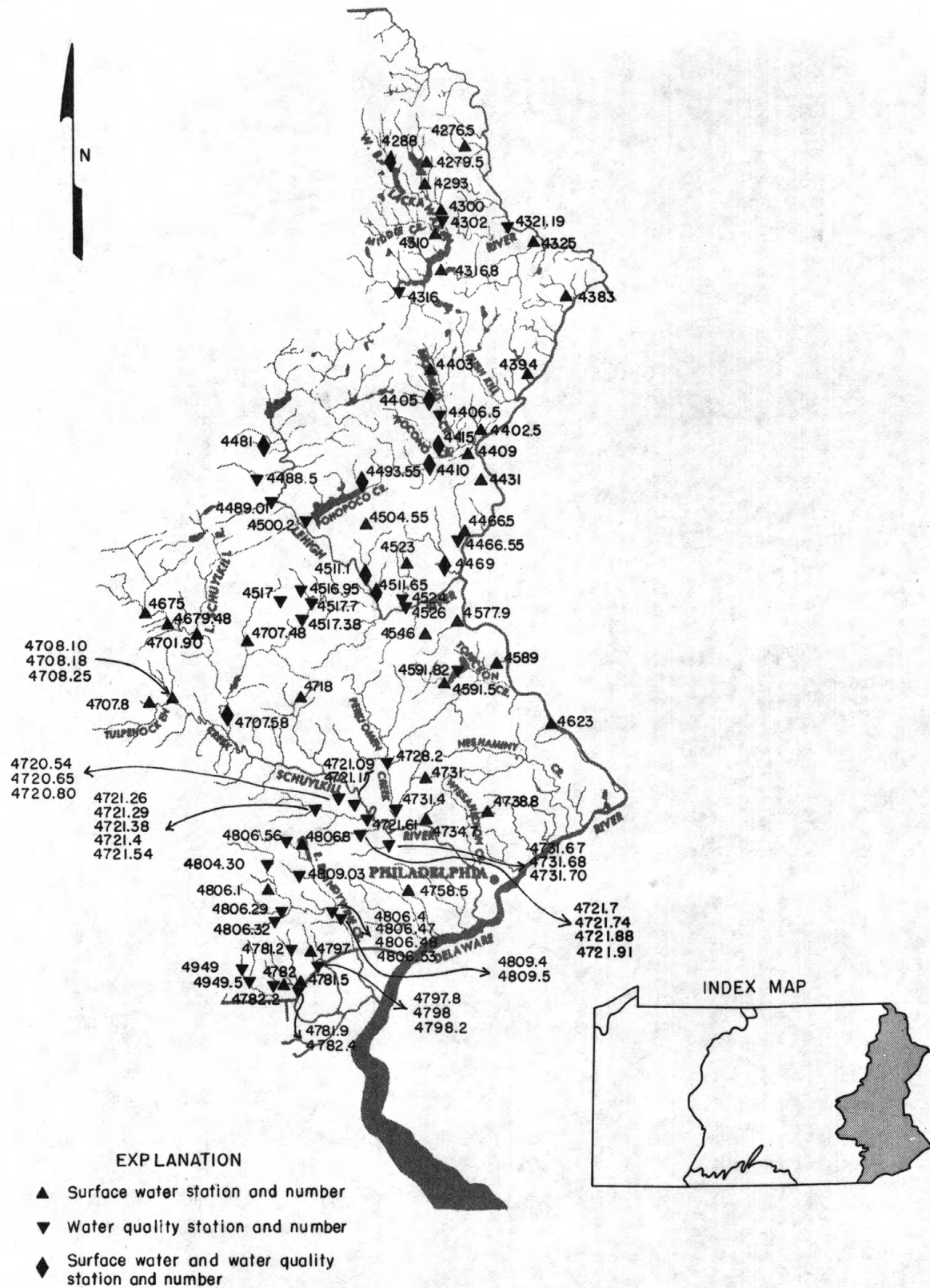
PUBLICATIONS ON TECHNIQUES OF WATER-RESOURCES INVESTIGATIONS

Thirty-four 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, 1200 South Eads Street, Arlington, VA 22202 (authorized agent of the Superintendent of Documents, Government Printing Office). Prices are subject to change.

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. 1976. 65 pages. \$1.60.
- 1 D2. GUIDELINES FOR COLLECTION AND FIELD ANALYSIS OF GROUND-WATER SAMPLES FOR SELECTED UNSTABLE CONSTITUENTS, by W.W. Wood: USGS--TWRI Book 1, Chapter D2. 1976. 24 pages. \$0.85.
- 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. \$1.00.
- 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 DISCHARGE 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. \$0.35.
- 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 G.D. Bennett: USGS--TWRI Book 3, Chapter B2. 1976. 172 pages. \$2.50.
- 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. \$2.50.
- 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. \$0.65.
- 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. 1970. 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. \$2.85.
- 5-A5.* METHODS FOR DETERMINATION OF RADIOACTIVE SUBSTANCES IN WATER AND FLUVIAL SEDIMENTS, by L.L. Thatcher, V.J. Janzer, and K.W. Edwards: USGS--TWRI Book 5, Chapter A5. 1977. 95 pages. \$16.00.
- 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. \$2.30.
- 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.

*Looseleaf format. Available only by subscription. Additional supplements will be issued to subscribers at no extra cost.



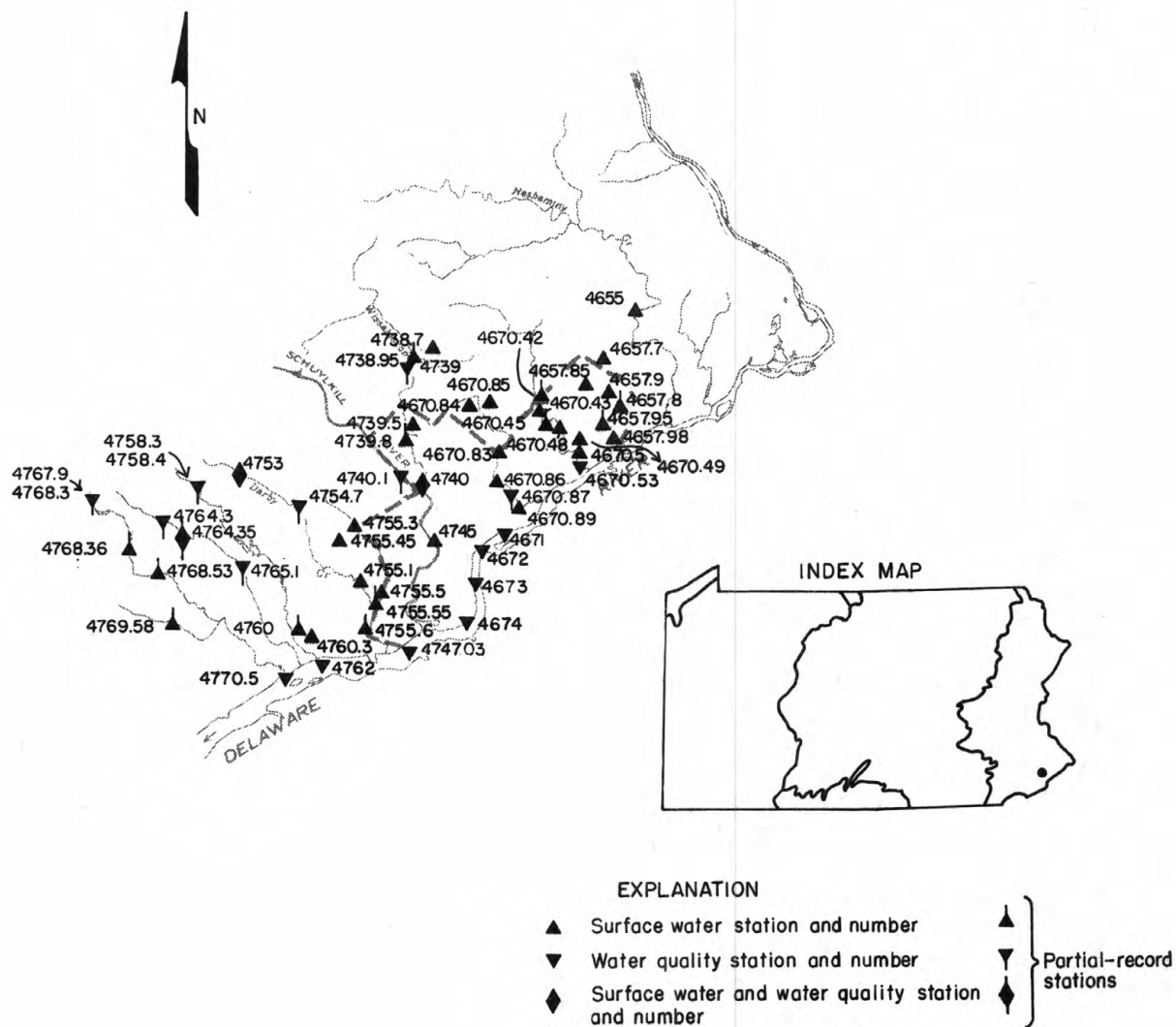
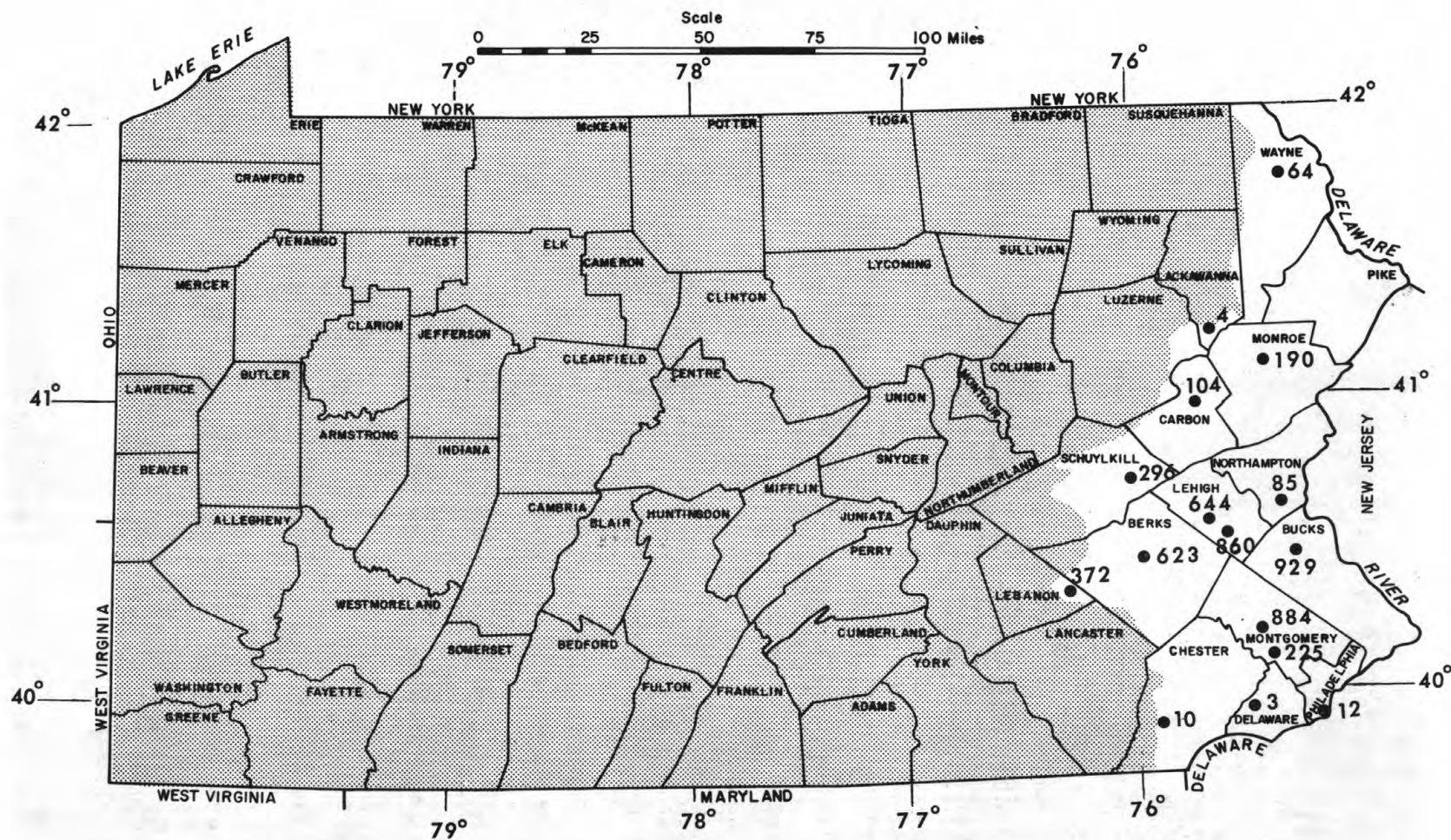


FIGURE 7 — Locations of Philadelphia data collection stations



DELAWARE BAY

19

01412350 DELAWARE BAY AT SHIP JOHN SHOAL LIGHTHOUSE, NJ

LOCATION.--Lat 39°18'19", long 75°22'37", Cumberland County, Hydrologic Unit 02040204, water-quality recorder on lightship in bay opposite Bombay Hook Island, Del., and 3 mi (4.8 km) south southwest of mouth of Cohansey River, N.J.

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

PERIOD OF DAILY RECORD.--

SPECIFIC CONDUCTANCE: April 1969 to current year.
WATER TEMPERATURES: February 1970 to current year.

EXTREMES FOR PERIOD OF DAILY RECORD.--

SPECIFIC CONDUCTANCE: Maximum, 52,800 micromhos Feb. 10, 1970; minimum, 1,500 micromhos Mar. 4, 1971.
WATER TEMPERATURES: Maximum, 30.0°C Aug. 1, 1970; minimum, 0.5°C on many days during January and February 1976.

EXTREMES FOR CURRENT YEAR.--

SPECIFIC CONDUCTANCE: Maximum, 30,200 micromhos July 26, Sept. 26; minimum, 3,260 micromhos Feb. 2.
WATER TEMPERATURES: Maximum, 26.5°C on many days during June to August; minimum, 0.0°C on many days during January and February.

SPECIFIC CONDUCTANCE (MICROMHOS/CM AT 25°C), 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	19300	12000	16200	21500	14900	18500	17200	10300	13600	22800	13900	19300
2	19400	13700	17000	21000	14400	17600	17700	10500	14500	23100	15200	18600
3	20600	12500	17100	21200	14500	17400	17400	10100	13400	20700	14100	17400
4	20300	13700	17000	20300	14300	16900	18400	10700	14200	18100	10300	13900
5	20100	13700	16900	19300	13500	16600	18800	10900	14600	16500	9190	12500
6	22500	14200	17500	21900	14100	17400	17200	10700	14000	18400	11800	15000
7	20500	13400	16700	20300	14700	17000	18800	10500	14100	19200	12400	15600
8	20900	13800	17000	18500	12000	15800	19300	12200	15400	18900	12100	15400
9	21500	14100	17500	17400	12400	15300	22100	11800	17800	19100	11500	15100
10	20000	14600	17500	18600	12500	15600	20900	11800	16000	19100	11600	15100
11	19500	12100	16700	18000	10800	14500	18900	10500	15000	20700	13200	16200
12	18600	12200	15900	19300	12300	15600	21300	12000	15600	21900	11900	17800
13	21300	11400	16300	17300	10800	15100	21600	12100	16800	22600	15500	19600
14	22200	12300	17300	18400	11300	14500	21900	13600	17800	21200	14300	18100
15	22400	14400	18000	17400	9670	14000	21300	14500	18300	19900	13700	16800
16	22000	16200	19400	17400	10900	14600	20500	15900	18800	21000	15300	18200
17	24600	19200	21400	19000	11400	15800	23200	16400	20000	21800	15900	18600
18	22700	18400	20500	18100	12000	15600	21300	16100	18400	21800	15200	18800
19	22700	17200	20200	19300	12500	15800	21200	13400	17200	23200	15600	19700
20	22000	14000	17800	19500	11000	15200	21600	13800	17700	21500	15400	18400
21	18100	10500	---	19400	12700	15200	22800	16000	19100	22200	11000	18300
22	15700	8670	13000	17200	8920	12400	23800	15900	20000	19400	12200	16600
23	15800	8130	13100	16700	10000	13500	22600	15100	19200	17700	10900	14000
24	15400	8700	12400	18800	12100	15600	22200	16900	19500	18100	12100	15400
25	14800	7910	12000	20600	11600	16900	24500	17000	20800	23000	14500	19600
26	15200	8020	12300	18600	12400	15700	25400	18400	21800	22800	16400	19800
27	16400	10300	12900	19400	12000	16100	22400	16800	19800	21200	14200	18000
28	17600	8490	13600	16800	11800	14900	21600	14000	18300	16400	9120	13200
29	18300	10900	14900	18400	11200	15200	22000	14200	19100	13700	6720	9900
30	19200	12900	16100	20500	10800	15500	22700	14800	19400	12000	6120	9340
31	22200	11800	18200	---	---	---	22500	16100	19200	12700	5420	9060
MONTH	24600	7910	16400	21900	8920	15700	25400	10100	17400	23200	5420	16200

DELAWARE BAY

01412350 DELAWARE BAY AT SHIP JOHN SHOAL LIGHTHOUSE, NJ--Continued

SPECIFIC CONDUCTANCE (MICROMHOS/CM AT 25°C), WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

DAY	FEBRUARY			MARCH			APRIL			MAY		
	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	12800	6120	9390	12300	6840	9620	15000	6680	11700	25200	19000	22600
2	10500	3260	6250	12600	8330	10400	13200	8190	10600	24300	18700	21100
3	7940	3700	5870	13600	8580	11100	12800	6820	9770	22400	15200	18800
4	9220	4760	6680	11900	7910	10200	14300	7990	10900	21800	14100	17800
5	11600	4910	7460	11000	6040	9110	14300	6720	10400	19300	14600	---
6	11200	6300	8550	10700	5070	8260	14800	7560	10900	---	---	---
7	12900	6610	9410	11300	5760	8470	15700	9960	12100	---	---	---
8	14500	6180	10700	12700	5140	9010	16900	11700	13700	---	---	---
9	16800	9880	12300	15100	8860	11600	18400	11700	15600	---	---	---
10	15400	9880	---	18000	8860	13600	21200	14400	17400	---	---	---
11	---	---	---	17600	8960	13800	21800	15800	18900	---	---	---
12	---	---	---	18400	12100	15200	21800	14900	18000	---	---	---
13	---	---	---	17300	11800	14500	20900	15200	17900	---	---	---
14	---	---	---	16600	9150	12900	22400	14600	18000	---	---	---
15	---	---	---	17900	10800	14200	20500	15200	17800	---	---	---
16	---	---	---	18200	11900	14600	21000	14600	17300	---	---	---
17	---	---	---	15600	7450	11700	20800	14600	17700	---	---	---
18	18700	12900	---	15600	6480	11400	19600	13700	16600	---	---	---
19	18000	9700	13500	16400	9060	12500	20600	13900	17300	---	---	---
20	14400	8190	11000	15400	9630	12800	21300	14300	18100	---	---	---
21	14700	8100	11400	16800	7880	12100	21200	14600	17700	---	---	---
22	13700	4550	9730	13400	8610	11300	20700	13800	17600	---	---	---
23	10300	4100	6920	14500	7830	11700	20300	15400	17800	---	---	---
24	11800	3940	8380	14300	7990	11700	21500	14800	18400	---	---	---
25	11700	4990	8600	13400	8270	11100	21600	16000	18900	---	---	---
26	12400	6320	9450	14000	8460	11700	21000	14900	18400	23500	15400	---
27	13000	7480	10100	14000	8390	11900	21900	14300	17900	22400	14500	19700
28	12300	6720	9560	13300	8390	11000	22400	14100	18500	23300	15400	19200
29	13200	6770	10100	13800	8670	11500	24800	17100	21000	22800	15200	19800
30	---	---	---	16600	9290	12700	25200	18000	22100	22700	17100	19700
31	---	---	---	16200	10400	13300	---	---	---	23100	15700	19400
MONTH	---	---	---	18400	5070	11800	25200	6680	16300	---	---	---
DAY	JUNE			JULY			AUGUST			SEPTEMBER		
	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	22400	16500	---	23500	17500	20700	28700	23100	26100	28100	22000	25100
2	---	---	---	23300	16500	20100	29400	23200	26300	26700	20700	24100
3	---	---	---	23100	15600	19700	29200	21300	26100	28700	22000	25100
4	---	---	---	24200	16400	20300	29200	21900	25700	28300	20900	24900
5	---	---	---	24200	16000	20800	28300	21900	25200	26000	22500	24200
6	---	---	---	25900	15400	20200	29600	23100	25700	27600	22500	24600
7	21900	15900	---	24200	15700	19600	28900	22400	25200	27700	22400	25200
8	23200	15300	19200	23900	14900	19200	27700	22500	25100	28100	22200	24800
9	24300	15800	20300	25700	15700	19900	27600	19500	23200	28300	22400	25600
10	23600	16100	20400	26000	16400	20700	27100	20700	24500	29200	23600	25900
11	24500	16400	19700	24300	16100	20200	27700	19400	23900	27600	23000	25000
12	25100	16500	20000	23200	15600	19800	26200	19200	---	26700	22200	24800
13	25200	17500	21300	24800	13900	19400	25400	18200	---	26900	20000	24800
14	24000	16100	19600	26000	16100	21500	25200	16400	22500	27100	21300	24500
15	22700	14700	18700	26400	17400	22800	24600	16000	21500	27200	22500	24900
16	22000	14800	18000	26400	16900	22800	24800	15800	21100	27900	23300	25300
17	19700	13800	17300	26000	19100	22900	24900	16100	21200	27600	21000	24700
18	20800	14000	18000	26000	18200	22900	25700	15600	22400	26400	17900	23400
19	20500	15000	18400	26500	17800	22100	27200	20000	24100	26700	19300	23700
20	21200	14900	18100	26000	16500	22100	28900	16800	23200	27200	20400	24400
21	20300	14900	17800	25600	16800	21600	27200	18700	23700	29600	22100	26000
22	21400	13200	17000	26500	18300	22800	28300	22500	25100	29400	24500	26900
23	21200	12900	17000	25700	21400	---	29000	22800	26000	29200	23000	26000
24	19500	12400	16500	26500	19600	23700	29800	23800	26600	29000	21800	25700
25	20100	12900	15800	26700	21500	24300	28500	23900	26300	30200	23500	26800
26	23500	13700	16900	30200	22600	25500	28100	23000	25500	30200	23600	26900
27	22700	13500	18300	29400	22800	25800	27900	21900	25200	28700	22700	26000
28	24200	14700	19300	29000	23600	26200	28300	22400	25200	29400	22600	25900
29	23800	15300	20300	29800	23500	26500	27400	22400	25000	29800	23500	26500
30	25600	15800	21000	29400	23000	26300	29400	22400	25200	29400	23500	26300
31	---	---	---	29600	22400	26300	28300	22400	26000	---	---	---
MONTH	25600	12400	---	30200	13900	22200	29800	15600	24600	30200	17900	25300

DELAWARE BAY

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01412350 DELAWARE BAY AT SHIP JOHN SHOAL LIGHTHOUSE, NJ--Continued

TEMPERATURE (°C) OF WATER, 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	21.0	20.0	20.5	15.5	14.5	15.0	10.0	9.5	10.0	3.0	3.0	3.0
2	21.0	19.5	20.5	15.0	14.5	15.0	9.5	8.5	9.0	3.0	3.0	3.0
3	20.0	18.5	19.0	15.0	14.0	14.5	8.5	8.0	8.5	3.0	3.0	3.0
4	18.5	18.5	18.5	15.0	14.5	15.0	8.0	8.0	8.0	3.0	2.0	3.0
5	18.5	18.0	18.5	15.5	14.5	15.0	8.0	8.0	8.0	2.0	1.5	2.0
6	19.5	18.5	18.5	15.5	14.5	15.0	8.0	8.0	8.0	2.0	1.0	1.5
7	19.0	18.5	18.5	15.5	14.5	15.0	8.0	8.0	8.0	2.0	1.0	1.5
8	18.5	18.0	18.5	15.5	15.0	15.0	8.0	7.0	7.0	2.0	1.0	1.5
9	18.5	18.0	18.5	16.0	15.0	15.0	8.0	7.0	7.5	1.5	0.5	1.0
10	18.0	18.0	18.0	16.0	15.0	15.5	8.0	6.5	7.0	1.0	0.0	0.5
11	18.0	18.0	18.0	16.0	15.0	15.5	7.0	6.5	6.5	1.0	0.0	0.5
12	18.0	17.0	18.0	15.5	15.0	15.0	7.0	6.0	6.5	1.0	0.5	0.5
13	18.0	17.0	17.5	15.5	14.5	15.0	7.0	6.5	7.0	1.5	0.5	1.0
14	18.0	17.0	17.5	15.0	13.5	14.0	8.0	6.5	7.5	1.5	1.0	1.5
15	18.5	18.0	---	14.0	13.0	13.0	8.0	6.5	7.5	1.5	1.0	1.0
16	18.0	18.0	18.0	13.5	12.0	13.0	8.0	8.0	8.0	1.5	1.0	1.5
17	18.0	18.0	18.0	13.5	12.0	12.5	8.0	7.0	8.0	1.5	0.5	1.0
18	18.0	18.0	18.0	13.0	12.0	13.0	8.0	6.0	7.0	0.5	0.0	0.0
19	18.0	17.0	18.0	13.5	12.0	13.0	6.0	5.0	5.5	0.0	0.0	0.0
20	18.0	16.5	17.5	13.0	12.0	13.0	5.0	4.5	5.0	0.0	0.0	0.0
21	18.0	16.5	---	13.0	12.0	13.0	5.0	4.5	4.5	0.0	0.0	0.0
22	18.0	16.5	17.0	13.0	11.5	12.5	4.5	3.5	4.0	0.0	0.0	0.0
23	18.0	16.5	17.0	12.0	11.0	11.5	4.0	3.0	3.5	0.0	0.0	0.0
24	18.0	17.0	17.5	12.0	11.0	11.5	3.0	3.0	3.0	0.0	0.0	0.0
25	18.0	17.0	18.0	11.5	10.5	11.0	3.0	3.0	3.0	0.0	0.0	0.0
26	18.0	18.0	18.0	11.0	10.5	11.0	3.0	3.0	3.0	0.0	0.0	0.0
27	18.0	17.0	17.5	11.0	10.5	11.0	3.0	3.0	3.0	0.0	0.0	0.0
28	18.0	17.0	17.5	10.5	10.0	10.0	3.0	3.0	3.0	0.5	0.0	0.0
29	18.0	17.0	18.0	10.0	9.5	10.0	3.0	3.0	3.0	0.5	0.0	0.5
30	18.0	15.5	17.0	10.0	9.5	10.0	3.0	3.0	3.0	0.5	0.5	0.5
31	16.5	14.5	15.5	---	---	---	3.0	3.0	3.0	1.0	0.5	0.5
MONTH	21.0	14.5	18.0	16.0	9.5	13.5	10.0	3.0	6.0	3.0	0.0	1.0
DAY	FEBRUARY			MARCH			APRIL			MAY		
	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	1.0	0.5	1.0	8.0	6.0	6.5	10.0	9.5	9.5	13.5	13.0	13.0
2	1.0	0.5	1.0	6.5	6.5	6.5	10.0	9.0	9.5	14.5	13.0	13.5
3	3.0	0.0	0.5	6.5	6.5	6.5	10.5	9.0	9.5	14.5	13.5	14.0
4	0.5	0.0	0.5	8.0	6.5	7.0	10.0	9.0	9.5	14.0	13.5	14.0
5	0.5	0.0	0.5	8.0	6.5	7.5	10.0	9.0	9.5	14.5	13.5	14.0
6	0.5	0.0	0.0	8.0	7.0	8.0	11.0	9.0	10.0	---	---	---
7	0.0	0.0	0.0	8.0	6.5	8.0	11.5	9.5	10.5	---	---	---
8	0.0	0.0	0.0	8.0	6.5	8.0	10.5	10.0	10.0	---	---	---
9	0.5	0.0	0.0	8.0	6.5	7.0	10.0	9.0	9.5	---	---	---
10	1.0	0.0	0.5	6.5	6.0	6.5	10.0	8.5	9.5	---	---	---
11	1.0	1.0	---	7.0	6.0	6.5	10.0	9.0	9.5	---	---	---
12	---	---	---	6.5	6.0	6.0	9.5	8.0	9.0	---	---	---
13	---	---	---	7.0	6.0	6.5	9.0	8.5	8.5	---	---	---
14	---	---	---	7.0	6.0	6.5	10.0	8.5	9.0	---	---	---
15	---	---	---	8.0	6.5	6.5	10.0	9.0	9.5	---	---	---
16	---	---	---	6.5	6.5	6.5	11.0	9.5	10.0	---	---	---
17	---	---	---	6.5	5.5	6.0	11.5	10.0	10.5	---	---	---
18	4.0	3.0	---	6.0	5.0	5.5	12.0	11.0	11.5	---	---	---
19	4.5	3.0	4.0	6.0	5.0	5.5	13.0	11.5	12.0	---	---	---
20	5.0	3.0	4.0	6.5	6.0	6.0	13.0	12.0	13.0	---	---	---
21	5.0	3.5	4.5	7.0	6.0	6.5	15.0	13.0	13.5	---	---	---
22	5.5	4.5	5.0	8.0	6.5	7.5	15.0	13.5	14.0	---	---	---
23	5.5	4.0	4.5	8.0	6.5	7.5	15.0	14.0	14.5	---	---	---
24	5.5	4.0	4.5	8.0	7.0	8.0	15.0	14.5	15.0	---	---	---
25	5.5	4.5	5.0	8.5	8.0	8.0	15.0	15.0	15.0	---	---	---
26	6.0	4.5	5.0	10.0	8.0	8.5	15.0	14.0	14.5	18.5	18.0	---
27	6.0	5.0	5.5	9.0	8.0	8.5	14.0	13.0	13.5	19.5	18.0	18.0
28	6.0	5.5	6.0	10.0	8.5	9.0	13.5	13.0	13.0	18.5	18.0	18.0
29	7.0	5.5	6.0	9.5	8.5	9.5	13.0	13.0	13.0	18.5	18.0	18.5
30	---	---	---	10.0	9.0	9.5	14.0	13.0	13.0	19.0	18.0	18.5
31	---	---	---	9.5	9.5	9.5	---	---	---	19.5	18.5	18.5
MONTH	7.0	0.0	---	10.0	5.0	7.5	15.0	8.0	11.5	---	---	---

DELAWARE BAY

01412350 DELAWARE BAY AT SHIP JOHN SHOAL LIGHTHOUSE, NJ--Continued

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

DAY	JUNE			JULY			AUGUST			SEPTEMBER		
	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	19.5	18.5	---	26.5	26.0	26.0	26.0	26.0	26.0	24.5	24.0	24.5
2	---	---	---	26.5	26.0	26.0	26.0	25.0	25.5	24.5	24.0	24.0
3	---	---	---	26.0	26.0	26.0	26.0	25.0	25.5	24.5	23.5	24.0
4	---	---	---	26.0	26.0	26.0	26.5	25.0	25.5	24.0	23.5	23.5
5	---	---	---	26.5	25.5	26.0	26.0	25.0	25.5	24.0	23.5	23.5
6	---	---	---	26.5	25.5	26.0	26.0	25.5	25.5	23.5	23.0	23.5
7	20.5	19.5	---	26.0	25.5	26.0	26.0	25.5	25.5	23.5	23.0	23.0
8	20.5	19.5	20.0	26.0	25.5	26.0	26.0	25.5	25.5	24.0	23.0	23.5
9	22.0	20.0	20.5	26.5	25.5	26.0	25.5	25.0	25.5	24.0	23.0	23.5
10	21.5	20.5	21.0	26.5	26.0	26.0	25.5	24.5	25.0	23.5	23.0	23.5
11	22.0	21.0	21.5	26.0	26.0	26.0	26.0	25.0	25.0	23.0	23.0	23.0
12	23.0	21.5	22.0	26.0	25.0	26.0	26.0	25.0	25.5	23.0	22.0	22.5
13	22.0	21.5	22.0	25.0	24.5	25.0	26.0	25.0	25.5	23.0	22.0	22.5
14	22.0	21.5	22.0	25.0	24.0	24.5	26.0	25.5	26.0	23.5	23.0	23.0
15	23.0	21.5	22.0	25.5	24.0	24.5	26.0	26.0	26.0	23.0	23.0	23.0
16	23.0	22.0	22.5	25.5	24.0	24.5	26.0	25.5	26.0	23.0	23.0	23.0
17	23.5	23.0	23.0	25.0	24.5	24.5	25.5	25.0	25.5	23.5	23.0	23.0
18	24.0	23.0	23.5	25.5	24.0	25.0	25.5	24.5	25.0	23.5	23.0	23.0
19	24.5	23.5	24.0	26.0	24.5	25.0	25.0	24.0	24.5	23.5	23.0	23.0
20	25.0	24.0	24.5	26.0	25.0	25.5	26.0	24.0	24.5	23.5	23.0	23.0
21	25.0	24.5	24.5	26.0	25.0	25.5	26.0	24.5	25.0	23.0	23.0	23.0
22	25.0	24.5	25.0	25.5	25.0	25.5	26.0	24.5	25.0	23.0	22.0	22.5
23	26.0	24.5	25.0	25.5	25.0	25.0	26.5	25.0	25.5	22.0	21.5	21.5
24	26.0	25.0	25.5	26.0	25.0	25.5	26.0	25.0	25.5	21.5	21.5	21.5
25	26.0	25.5	25.5	25.5	25.0	25.0	26.0	25.5	25.5	21.5	21.0	21.0
26	26.0	25.5	26.0	26.0	24.5	25.0	26.0	25.5	26.0	21.0	21.0	21.0
27	26.5	25.5	26.0	25.5	24.5	25.0	26.0	25.5	26.0	21.0	21.0	21.0
28	26.5	25.5	26.0	26.0	25.0	25.5	26.0	25.5	26.0	21.0	20.5	21.0
29	26.5	26.0	26.0	26.0	25.0	25.5	26.5	26.0	26.0	20.5	20.0	20.5
30	26.5	26.0	26.0	26.0	25.5	26.0	26.0	25.0	25.5	20.5	20.0	20.0
31	---	---	---	26.0	25.5	26.0	25.0	24.0	24.5	---	---	---
MONTH	26.5	18.5	---	26.5	24.0	25.5	26.5	24.0	25.5	24.5	20.0	22.5

DELAWARE RIVER BASIN

23

01428500 DELAWARE RIVER ABOVE LACKAWAXEN RIVER NEAR BARRYVILLE, NY

LOCATION.--Lat 41°30'32", long 74°59'13", Sullivan County, Hydrologic Unit 02040104, on left bank 1.6 mi (2.6 km) upstream from Lackawaxen River, and 4.6 mi (7.4 km) northwest of Barryville.

DRAINAGE AREA.--2,023 mi² (5,240 km²).

WATER-DISCHARGE RECORDS

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

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

REMARKS.--Records good except those for winter periods, which are fair. Subsequent to September 1954, entire flow from 371 mi² (961 km²) of drainage area controlled by Pepacton Reservoir (see New York Annual Report), and, subsequent to October 1963, entire flow from 454 mi² (1,176 km²) of drainage area controlled by Cannonsville Reservoir (see New York Annual Report). Part of flow of these reservoirs diverted for New York City municipal supply. Remainder of flow (except for conservation releases and spill) impounded for release during periods of low flow in the lower Delaware River basin, as directed by the Delaware River Master.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 130,000 ft³/s (3,680 m³/s) Aug. 19, 1955, gage height, 26.40 ft (8.047 m) from floodmarks in gage house, from rating curve extended above 55,000 ft³/s (1,560 m³/s) on basis of slope-area measurement at gage height 23.19 ft (7.068 m); minimum, 122 ft³/s (3.46 m³/s) Sept. 5, 1953, gage height, 1.11 ft (0.338 m); minimum daily, 126 ft³/s (3.57 m³/s) Sept. 4, 1953.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 47,400 ft³/s (1,342 m³/s) Jan. 27, gage height, 14.35 ft (4.374 m); maximum gage height, 14.45 ft (4.404 m) Jan. 27 (ice jam); minimum, 580 ft³/s (16.4 m³/s) Sept. 9, gage height, 2.28 ft (0.695 m); minimum daily, 661 ft³/s (18.7 m³/s) Sept. 23.

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	4830	2300	3430	2200	9260	9560	9260	5140	2190	6470	1700	931
2	4020	2140	4240	2000	9730	8460	13500	7330	2130	7160	2050	827
3	3470	2010	3960	1850	9110	7450	10700	7950	1980	5450	1640	784
4	3030	1920	3590	1700	5800	7240	9010	7700	1660	4380	1370	857
5	2610	1870	3250	1600	6000	10000	7560	6780	1420	3820	1160	1160
6	2310	1740	3030	1500	4700	12400	6290	5490	1250	3220	1070	1040
7	2080	1640	2990	1450	4000	11500	5380	5180	1750	2630	1410	910
8	1870	1640	2440	1500	4550	9950	4600	4770	2290	2730	2570	689
9	1690	1730	2610	1600	3200	7780	3980	4160	1720	2530	4010	668
10	1570	1760	2840	1900	3000	6520	3520	3650	1410	2090	5930	1100
11	1610	2310	2950	2050	2900	5420	3100	3240	1180	1710	5930	1520
12	2740	2530	2660	2300	2800	5010	2420	3260	1010	1660	4520	1330
13	2730	6430	2440	2500	2700	4880	2540	3370	484	2040	3570	1050
14	2540	6350	2330	3000	2600	5010	2300	2950	788	1470	3770	1040
15	2540	7170	2330	2800	2500	4360	2130	2620	725	1640	3660	1320
16	2250	6110	2310	2500	2500	3770	1990	2350	711	1570	3400	726
17	2070	5430	2270	2300	7720	3470	2110	2450	743	2660	2950	774
18	10400	4930	2100	2200	15400	3040	2320	2940	888	3700	2410	1040
19	24700	4500	1700	2100	18000	3060	2100	3480	1180	2690	2020	1290
20	25100	4200	1300	2000	20700	3240	1490	5490	1140	2370	1700	1290
21	15800	4480	1300	2100	16200	3930	1690	8190	2290	2090	1460	830
22	11000	7170	1400	2400	17600	6440	1510	8870	2160	1740	1260	698
23	8210	6320	1500	2800	24000	6770	1380	9010	1470	1490	1100	661
24	6370	5520	1600	3500	17300	5440	1230	6490	1860	1330	965	844
25	5270	4930	1750	4400	13300	5450	1160	5800	1950	1220	450	1380
26	4650	4430	2000	7000	11600	5040	2720	4920	1940	1090	757	1440
27	4020	4270	3350	19600	11800	4600	5540	4170	1470	835	1940	1690
28	3510	5140	3200	30200	12500	5840	6010	3550	1600	751	2400	2100
29	3140	4540	2900	25900	11000	6490	6160	3030	1400	744	1670	1440
30	2440	4070	2700	17000	---	5440	5770	2540	1400	2550	1340	1110
31	2560	---	2400	11900	---	4430	---	2370	---	2660	1150	---
TOTAL	171620	121670	73770	167850	272270	194910	130320	149140	45784	74930	72192	32587
MEAN	5536	4056	2573	5415	9344	6258	4344	4811	1526	2546	2329	1086
MAX	25100	8350	4240	30200	24000	12400	13500	8870	2290	7160	5930	2100
MIN	1570	1640	1300	1450	2500	3060	1160	2350	711	744	757	661

CAL YR 1975 TOTAL 1439378 MEAN 4217 MAX 39500 MIN 512
WTR YR 1976 TOTAL 1516148 MEAN 4142 MAX 30200 MIN 661

DELAWARE RIVER BASIN

01428500 DELAWARE RIVER ABOVE LACKAWAXEN RIVER NEAR BARRYVILLE, NY--Continued

WATER-QUALITY RECORDS

PERIOD OF DAILY RECORD.--

WATER TEMPERATURES: October 1967 to current year.

EXTREMES FOR PERIOD OF DAILY RECORD.--

WATER TEMPERATURES: Maximum, 32.0°C Aug. 2, 3 1975; minimum, freezing point on many days during the winter period of the 1968 water year.

TEMPERATURE (DEG. C) OF WATER, 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	15.5	14.5	15.0	7.0	6.5	6.5	6.0	5.5	6.0	0.5	0.5	0.5
2	15.5	14.5	15.0	8.0	6.5	7.5	6.0	4.5	5.5	0.5	0.5	0.5
3	14.0	13.0	13.5	10.0	8.0	9.5	4.5	3.0	3.5	0.5	0.5	0.5
4	14.0	12.5	13.0	12.5	10.0	11.5	3.0	2.0	2.5	0.5	0.5	0.5
5	13.5	13.0	13.0	13.0	9.5	11.5	2.0	2.0	2.0	0.5	0.5	0.5
6	15.0	13.0	14.0	12.0	10.0	11.5	2.0	2.0	2.0	0.5	0.5	0.5
7	15.5	13.5	14.5	14.0	12.0	13.0	2.5	2.0	2.0	0.5	0.5	0.5
8	15.5	13.0	14.0	14.0	12.5	13.0	2.0	2.0	2.0	0.5	0.5	0.5
9	14.0	13.5	13.5	13.5	12.0	13.0	2.0	2.0	2.0	0.5	0.5	0.5
10	13.5	13.0	13.0	---	---	---	2.0	2.0	2.0	0.5	0.5	0.5
11	13.0	12.5	12.5	---	---	---	3.0	2.0	2.5	0.5	0.5	0.5
12	12.5	12.0	12.0	11.0	9.5	10.5	3.0	3.0	3.0	0.5	0.5	0.5
13	13.5	12.0	12.5	9.5	8.5	9.0	3.0	3.0	3.0	---	---	---
14	14.5	13.0	13.5	8.5	7.0	8.0	3.0	3.0	3.0	---	---	---
15	16.0	14.0	15.0	7.0	6.0	6.5	3.5	3.0	3.0	---	---	---
16	16.0	15.0	15.5	6.0	5.5	5.5	4.0	3.5	3.5	---	---	---
17	14.0	13.5	14.0	6.0	5.5	5.5	3.5	2.5	3.0	---	---	---
18	13.0	12.0	12.5	7.0	6.0	6.5	2.5	0.5	2.0	---	---	---
19	12.0	12.0	12.0	8.0	7.0	7.5	0.5	0.5	0.5	---	---	---
20	12.0	12.0	12.0	8.5	8.0	8.5	0.5	0.5	0.5	---	---	---
21	12.0	11.5	12.0	8.5	8.5	8.5	0.5	0.5	0.5	---	---	---
22	12.5	11.5	12.0	8.5	7.0	8.0	0.5	0.5	0.5	---	---	---
23	13.0	12.5	12.5	7.0	6.0	6.5	0.5	0.5	0.5	---	---	---
24	13.0	12.5	12.5	6.0	5.0	5.5	0.5	0.5	0.5	---	---	---
25	13.5	13.0	13.0	5.0	5.0	5.0	0.5	0.5	0.5	---	---	---
26	13.5	13.0	13.5	5.0	5.0	5.0	0.5	0.5	0.5	---	---	---
27	13.0	12.0	12.0	5.0	5.0	5.0	0.5	0.5	0.5	---	---	---
28	12.0	11.5	12.0	5.0	5.0	5.0	0.5	0.5	0.5	---	---	---
29	12.0	12.0	12.0	5.0	5.0	5.0	0.5	0.5	0.5	---	---	---
30	12.0	9.0	11.0	5.5	5.0	5.0	0.5	0.5	0.5	---	---	---
31	9.0	7.0	8.0	---	---	---	0.5	0.5	0.5	---	---	---
MONTH	16.0	7.0	13.0	14.0	5.0	8.0	6.0	0.5	2.0	---	---	---

DELAWARE RIVER BASIN

25

01428500 DELAWARE RIVER ABOVE LACKAWAXEN RIVER NEAR BARRYVILLE, NY--Continued

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

DAY	FEBRUARY			MARCH			APRIL			MAY		
	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1							---	---	---	11.0	10.5	10.5
2							---	---	---	12.5	11.0	11.5
3							---	---	---	12.0	11.5	12.0
4							---	---	---	11.5	10.0	10.0
5							---	---	---	10.5	8.0	9.0
6							---	---	---	13.5	9.5	12.0
7							---	---	---	14.0	13.0	13.5
8							---	---	---	13.5	12.0	13.0
9							---	---	---	13.0	12.0	12.5
10							---	---	---	14.5	12.5	13.5
11							---	---	---	15.0	13.5	14.5
12							---	---	---	14.5	13.5	14.5
13							---	---	---	14.5	12.5	13.5
14							---	---	---	15.0	12.5	14.0
15							---	---	---	18.0	14.5	16.5
16							---	---	---	18.5	17.5	17.5
17							---	---	---	19.5	18.0	18.5
18							---	---	---	18.5	17.0	18.0
19							---	---	---	16.5	13.5	15.0
20							---	---	---	13.5	12.0	12.5
21							---	---	---	13.0	11.5	12.0
22							19.0	17.0	18.0	13.0	12.0	12.5
23							20.0	16.5	18.0	13.0	11.5	12.0
24							16.0	15.0	15.5	13.5	11.5	12.5
25							15.0	12.5	13.5	14.0	13.5	13.5
26							12.5	9.5	11.0	14.0	13.0	13.5
27							8.5	8.0	8.5	16.0	13.5	14.5
28							8.0	7.5	7.5	17.5	15.0	16.0
29							9.0	8.0	8.5	18.5	17.0	17.5
30							11.0	9.0	10.0	18.5	17.5	18.0
31							---	---	---	19.5	17.5	18.5
MONTH							---	---	---	19.5	8.0	14.0

DAY	JUNE			JULY			AUGUST			SEPTEMBER		
	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	19.0	18.0	18.5	26.5	23.5	25.5				---	---	---
2	20.0	18.0	18.5	24.5	22.5	23.5				---	---	---
3	21.5	18.0	19.5	24.5	22.0	23.5				---	---	---
4	22.5	19.0	20.5	24.0	23.5	23.5				---	---	---
5	23.5	19.5	21.5	26.0	23.5	24.5				---	---	---
6	22.0	15.5	20.0	27.0	25.0	26.0				---	---	---
7	22.0	18.0	19.5	27.0	26.0	26.5				---	---	---
8	23.5	20.0	21.5	26.0	24.0	25.5				---	---	---
9	25.5	21.0	21.5	27.0	23.5	25.5				---	---	---
10	27.0	22.0	25.0	28.5	25.0	26.5				---	---	---
11	28.5	25.5	27.0	---	---	---				---	---	---
12	29.5	25.5	27.0	---	---	---				---	---	---
13	25.5	23.5	24.5	---	---	---				---	---	---
14	27.0	23.0	25.0	---	---	---				---	---	---
15	29.0	24.5	26.5	---	---	---				---	---	---
16	30.0	26.5	28.0	---	---	---				---	---	---
17	30.5	27.0	28.5	---	---	---				---	---	---
18	30.0	26.5	28.0	---	---	---				---	---	---
19	29.5	27.0	28.5	---	---	---				---	---	---
20	28.5	27.5	28.0	---	---	---				---	---	---
21	27.5	25.5	27.0	---	---	---				---	---	---
22	27.0	24.5	25.5	---	---	---				---	---	---
23	28.0	26.0	26.5	---	---	---				---	---	---
24	29.5	26.0	28.0	---	---	---				---	---	---
25	30.0	27.0	28.5	---	---	---				---	---	---
26	30.5	27.5	29.0	---	---	---				---	---	---
27	30.0	27.5	28.5	---	---	---				---	---	---
28	30.0	26.5	28.5	---	---	---				---	---	---
29	30.5	26.5	28.5	---	---	---				---	---	---
30	28.5	26.5	27.5	---	---	---				15.0	11.5	13.0
31	---	---	---	---	---	---				13.0	12.0	12.5
MONTH	30.5	15.5	25.0	---	---	---				---	---	---

DELAWARE RIVER BASIN

01429000 WEST BRANCH LACKAWAXEN RIVER AT PROMPTON, PA

LOCATION.--Lat 41°35'14", long 75°19'38", Wayne County, Hydrologic Unit 02040103, on right bank 500 ft (150 m) downstream from Prompton Lake, 1,500 ft (460 m) upstream from bridge on U.S. Highway 6 at Prompton, and 2,000 ft (610 m) upstream from Van Auken Creek.

DRAINAGE AREA.--59.7 mi² (154.6 km²).

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

REVISED RECORDS.--WSP 1432: 1948-49. WDR PA-71: 1970(M).

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

REMARKS.--Records fair. Flow regulated by Prompton Lake 500 ft (150 m) upstream (see p. 310).

AVERAGE DISCHARGE.--32 years, 109 ft³/s (3.09 m³/s), 24.73 in/yr (628 mm/yr), adjusted for storage since January 1961.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 5,860 ft³/s (166 m³/s) Aug. 18, 1955, gage height, 9.24 ft (2.816 m), from rating curve extended above 3,600 ft³/s (102 m³/s); no flow July 26 to Aug. 25, 1960, result of construction work upstream.

EXTREMES OUTSIDE OF PERIOD OF RECORD.--Flood of May 23, 1942, reached a stage of 16.7 ft (5.09 m), from floodmark.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 1,620 ft³/s (45.9 m³/s) Oct. 19, gage height, 4.53 ft (1.381 m); minimum daily, 23 ft³/s (0.65 m³/s) Sept. 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	140	81	119	64	235	242	394	78	64	140	101	36
2	149	76	119	64	235	211	494	136	66	110	64	36
3	126	72	110	66	225	208	340	139	64	87	54	34
4	108	67	101	67	192	208	257	139	56	93	49	34
5	93	64	93	62	171	322	202	122	50	105	42	32
6	81	60	87	60	149	354	171	108	49	80	40	31
7	72	56	87	60	120	280	146	95	83	64	48	29
8	66	56	79	61	110	228	124	87	87	100	91	29
9	61	56	76	61	105	183	110	78	72	84	122	29
10	56	61	89	61	99	163	99	71	61	68	152	30
11	64	78	95	60	95	149	91	64	54	58	157	33
12	89	47	91	60	95	139	85	71	46	140	124	33
13	85	318	85	60	95	146	76	72	41	100	106	31
14	81	340	79	60	97	166	72	66	37	80	85	33
15	79	265	78	60	99	146	67	61	36	71	72	33
16	74	215	79	60	99	134	62	56	33	90	67	31
17	69	183	78	60	415	124	60	74	32	130	58	62
18	516	160	72	60	718	110	55	91	31	100	54	66
19	1210	142	60	60	734	112	52	103	30	80	49	50
20	1090	126	56	62	734	126	44	160	33	69	42	40
21	618	136	55	58	521	149	44	177	55	61	39	36
22	392	202	55	56	740	202	42	171	62	56	37	32
23	272	180	55	56	824	180	41	146	95	52	39	29
24	211	155	55	58	516	157	39	134	186	54	35	26
25	180	136	54	60	383	142	42	117	142	47	30	23
26	166	122	55	60	336	126	95	103	108	42	28	24
27	144	124	62	500	336	115	110	91	85	38	83	66
28	126	149	64	680	331	146	97	81	67	35	87	52
29	112	136	64	575	284	149	87	72	79	45	64	42
30	97	124	64	463	---	139	79	67	83	160	48	33
31	87	---	64	284	---	126	---	64	---	142	37	---
TOTAL	6754	4027	2380	4078	9093	5382	3681	3094	1987	2581	2113	1095
MEAN	218	134	76.8	132	314	174	123	99.8	66.2	83.3	68.2	36.5
MAX	1210	340	119	680	824	354	494	177	186	160	157	66
MIN	56	56	54	56	95	110	39	56	30	35	28	23
MEAN#	214	136	75.0	154	304	163	122	99.0	67.5	83.8	64.5	40.4
CFSM#	3.58	2.28	1.26	2.58	5.09	2.73	2.04	1.66	1.13	1.40	1.08	.68
IN.#	4.13	2.54	1.45	2.97	5.49	3.15	2.28	1.91	1.26	1.61	1.24	.76

CAL YR 1975 TOTAL 55351 MEAN 152 MAX 1710 MIN 31 MEAN# 152 CFSM# 2.54 IN.# 34.49
WTR YR 1976 TOTAL 46265 MEAN 126 MAX 1210 MIN 23 MEAN# 126 CFSM# 2.11 IN.# 28.79

Adjusted for change in contents in Prompton Lake.

DELAWARE RIVER BASIN

27

01429500 DYBERRY CREEK NEAR HONESDALE, PA

LOCATION.--Lat 41°36'26", long 75°16'03", Wayne County, Hydrologic Unit 02040103, on right bank 180 ft (55 m) upstream from unnamed tributary, 1,700 ft (518 m) downstream from General Edgar Jadwin Reservoir, 2.1 mi (3.4 km) north of Honesdale, and 2.6 mi (4.2 km) upstream from mouth.

DRAINAGE AREA.--64.6 mi² (167.3 km²).

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

REVISED RECORDS.--WSP 1382: 1947(M), 1950(M), 1951-53.

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

REMARKS.--Records good. Flow regulated since 1960 by General Edgar Jadwin Reservoir 1,700 ft (518 m) upstream (see p. 310).

AVERAGE DISCHARGE.--33 years, 113 ft³/s (3.20 m³/s), 23.69 in/yr (602 mm/yr), adjusted for storage since October 1959.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 15,500 ft³/s (439 m³/s) July 10, 1952, gage height, 14.6 ft (4.45 m), site and datum then in use, from rating curve extended above 2,500 ft³/s (71 m³/s) on basis of slope-area measurement at gage height 13.78 ft (4,200 m), site and datum then in use; no flow Oct. 2, 3, 1968, result of shutoff at General Edgar Jadwin Reservoir.

EXTREMES OUTSIDE OF PERIOD OF RECORD.--Flood of May 23, 1942, reached a stage of 15.86 ft (4.834 m), site and datum then in use, from floodmarks.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 1,560 ft³/s (44.2 m³/s) Oct. 19, gage height, 5.71 ft (1.740 m); minimum, 15 ft³/s (0.42 m³/s) Sept. 9, 10, gage height, 1.37 ft (0.418 m); minimum daily, 17 ft³/s (0.48 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	86	71	134	91	216	224	520	77	60	181	98	32
2	74	68	125	71	327	186	625	206	67	82	64	26
3	64	65	111	81	306	196	320	158	53	64	47	26
4	57	64	101	75	183	219	219	127	50	94	39	23
5	52	60	92	60	146	370	171	102	48	88	36	23
6	48	55	92	52	129	396	140	87	51	59	35	21
7	44	53	94	68	115	257	122	81	105	69	54	19
8	41	58	80	67	100	188	109	79	64	150	209	19
9	40	57	82	54	96	145	101	67	48	80	765	17
10	43	67	120	52	94	136	90	61	39	59	507	22
11	83	100	105	50	92	134	86	64	35	94	211	30
12	123	101	90	49	91	118	78	89	32	174	122	23
13	79	622	82	60	88	150	73	69	28	80	94	24
14	75	426	84	97	96	178	67	59	26	65	76	22
15	66	249	86	103	86	134	62	54	25	54	65	19
16	60	188	90	79	94	118	59	49	23	114	71	22
17	61	157	78	70	901	111	58	124	26	395	69	116
18	848	140	67	56	1130	109	52	108	25	109	59	131
19	1350	127	56	54	915	107	49	139	22	76	53	73
20	1480	118	53	52	962	140	46	211	90	71	53	50
21	788	230	52	56	454	150	44	143	382	74	47	48
22	311	326	50	52	878	196	43	114	155	71	50	35
23	218	181	49	50	1030	138	42	94	232	64	53	29
24	165	145	47	49	459	116	38	82	232	74	39	23
25	146	131	46	48	323	107	53	72	109	56	38	22
26	140	122	105	90	319	101	185	67	78	47	36	35
27	117	164	201	1130	363	92	145	62	57	43	361	138
28	103	194	123	1420	332	134	96	56	50	44	84	75
29	95	140	91	787	265	111	84	51	84	71	53	50
30	88	125	86	386	---	94	87	51	116	216	3-	34
31	77	---	97	252	---	86	---	53	---	82	34	---
TOTAL	7022	4604	2769	5661	10494	4941	3864	2856	2412	3002	3541	1226
MEAN	227	153	89.3	183	362	159	129	92.1	80.4	96.8	114	40.9
MAX	1430	622	201	1420	1130	396	625	211	382	395	755	138
MIN	40	53	46	48	86	86	38	49	22	43	34	17
MEAN#	227	153	89.3	183	362	159	129	92.1	81.5	95.7	114	40.9
CFSM#	3.51	2.37	1.38	2.83	5.60	2.46	2.00	1.43	1.26	1.48	1.76	.63
IN.#	4.05	2.64	1.59	3.26	6.04	2.84	2.23	1.65	1.41	1.71	2.03	.70

CAL YR 1975 TOTAL 57877 MEAN 159 MAX 1780 MIN 15 MEAN# 159
WTR YR 1976 TOTAL 52392 MEAN 143 MAX 1480 MIN 17 MEAN# 143

CFSM# 2.45 IN.# 33.33
CFSM# 2.22 IN.# 30.17

Adjusted for change in contents in General Edgar Jadwin Reservoir.

DELAWARE RIVER BASIN

01431500 LACKAWAXEN RIVER AT HAWLEY, PA

LOCATION.--Lat 41°28'34", long 75°10'21", Wayne County, Hydrologic Unit 02040103, on left bank at Church Street Bridge in Hawley, 700 ft (213 m) upstream from Wallenpaupack Creek, and 3,000 ft (914 m) downstream from Middle Creek.

DRAINAGE AREA.--290 mi² (751 km²).

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

REVISED RECORDS.--WSP 1951: 1938-41. WSP 1302: 1909-17. WSP 1432: 1942. WSP 1502: 1956.

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

REMARKS.--Records fair. Regulation by Prompton Lake and, at high flow, by General Edgar Jadwin Lake located 14.9 mi (24.0 km) and 13.0 mi (20.9 km) upstream, respectively (see p. 310).

AVERAGE DISCHARGE.--47 years (1908-17, 1938-76), 480 ft³/s (13.6 m³/s), 22.47 in/yr (571 mm/yr), adjusted for storage since October 1959.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 51,900 ft³/s (1,470 m³/s) Aug. 19, 1955, gage height, 24.8 ft (7.56 m) at present site, 20.6 ft (6.28 m) at former site, from floodmark, from rating curve extended above 12,000 ft³/s (340 m³/s) on basis of slope-area measurement at gage height 24.2 ft (7.38 m) at present site, 20.1 ft (6.13 m) at former site; minimum daily, 8 ft³/s (0.23 m³/s) Sept. 8, 1909.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood in March 1936 reached a stage of 19.1 ft (5.82 m) at present site, 13.9 ft (4.24 m) at former site, from floodmarks, discharge, 27,600 ft³/s (782 m³/s).

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 5,940 ft³/s (168 m³/s) Oct. 19, gage height, 8.20 ft (2.499 m); minimum observed, 79 ft³/s (2.24 m³/s) Sept. 10; minimum daily, 81 ft³/s (2.29 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	442	291	458	590	1040	876	1900	293	220	658	370	120
2	400	280	442	463	1180	778	2220	686	259	375	284	112
3	335	267	409	497	967	772	1320	607	232	284	226	104
4	291	251	379	420	855	984	967	536	195	291	201	99
5	267	235	342	400	742	1450	760	439	173	362	170	94
6	244	223	335	350	652	1360	640	375	170	273	157	87
7	220	217	339	360	560	995	541	329	434	213	187	84
8	192	232	302	370	500	796	468	310	329	358	419	83
9	180	235	298	330	480	646	415	277	239	295	1510	81
10	170	244	370	300	430	602	370	249	204	232	1300	87
11	211	358	379	310	415	585	349	239	181	195	911	108
12	400	397	335	350	415	514	318	246	155	559	580	101
13	320	1870	302	330	420	574	295	246	140	375	420	94
14	284	1640	294	450	483	718	277	223	133	273	333	92
15	254	1100	288	420	434	574	256	204	138	226	277	86
16	226	841	291	400	504	499	242	195	142	255	273	90
17	226	688	284	390	3600	458	226	311	138	600	242	281
18	2090	585	257	340	4060	370	216	406	129	354	201	314
19	4500	517	250	320	3550	434	196	509	118	270	181	226
20	4800	468	240	310	3390	580	184	700	116	226	157	181
21	2680	604	230	350	2260	612	173	629	609	198	142	160
22	1460	1120	230	320	2950	796	163	602	439	181	138	138
23	1020	740	220	330	3440	612	155	439	382	176	136	118
24	784	596	220	310	2010	520	155	366	664	184	126	110
25	670	517	210	300	1460	468	163	329	392	163	120	94
26	612	473	600	290	1320	424	640	295	302	136	114	96
27	522	526	1080	3210	1280	392	563	263	232	124	434	317
28	444	688	946	4780	1200	546	397	242	216	120	291	288
29	404	543	712	2780	995	499	349	216	256	138	210	220
30	352	468	640	1700	---	439	322	210	283	938	164	168
31	320	---	629	1160	---	397	---	213	---	488	140	---
TOTAL	25370	17274	12351	23230	41592	20270	15240	11184	7620	9470	10423	4233
MEAN	818	576	398	749	1434	654	508	361	254	305	336	141
MAX	4800	1870	1080	4780	4060	1450	2220	700	664	938	1510	317
MIN	170	217	210	290	415	370	155	195	116	120	114	81
MEAN#	814	578	396	772	1424	642	508	360	256	304	332	145
CFSM#	2.81	1.99	1.37	2.66	4.91	2.21	1.75	1.24	.88	1.05	1.14	.50
IN.#	3.24	2.22	1.58	3.07	5.30	2.55	1.95	1.43	.98	1.21	1.31	.56

CAL YR 1975 TOTAL 219103 MEAN 600 MAX 7000 MIN 84 MEAN# 600 CFSM# 2.07 IN.# 28.11
WTR YR 1976 TOTAL 198257 MEAN 542 MAX 4800 MIN 81 MEAN# 542 CFSM# 1.87 IN.# 25.42

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

DELAWARE RIVER BASIN

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01432000 WALLENPAUPACK CREEK AT WILSONVILLE, PA

LOCATION.--At hydroelectric plant of Pennsylvania Power and Light Co., at lower end of penstock, at Kimble, 3 mi (5 km) east of dam which is at lat 41°27'33", long 75°11'08", Pike County, Hydrologic Unit 02040103, at Wilsonville, 1.2 mi (1.9 km) south of Hawley.

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

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

REVISED RECORDS.--WSP 756: Drainage area. WSP 1302: 1918, 1923-24. WSP 1432: 1920-21. The mean discharge for September 1966 has been corrected to 141 ft³/s (3.99 m³/s), superseding figure published in WDR PA-66.

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

REMARKS.--Records good. No flow over spillway or roller gates. Flow regulated by Lake Wallenpaupack (see p. 310).

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

AVERAGE DISCHARGE.--67 years, 362 ft³/s (10.3 m³/s), 21.56 in/yr (548 mm/yr), unadjusted.

EXTREMES FOR PERIOD OF RECORD.--Maximum daily discharge, 6,440 ft³/s (183 m³/s) June 30, 1973; no flow at times each year subsequent to Nov. 3, 1925.

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	0	680	1210	0	0	916	420	0	51	675	0	363
2	18	0	921	692	1090	908	458	0	0	694	454	394
3	702	713	923	521	1110	848	0	0	13	0	449	406
4	0	657	677	0	916	923	0	21	11	0	478	0
5	0	403	690	690	912	938	318	0	0	0	470	0
6	448	442	0	821	907	701	336	26	0	630	454	0
7	0	417	0	825	516	0	0	0	0	631	0	380
8	3.3	0	700	831	0	897	0	0	0	799	0	427
9	0	0	679	1030	821	939	288	0	0	816	922	395
10	0	422	739	446	918	929	0	0	0	428	1410	403
11	0	415	279	43	1190	906	0	0	399	23	1050	0
12	0	264	815	1050	1190	922	347	0	0	811	562	0
13	467	930	521	1000	1190	702	9.5	0	0	788	441	377
14	472	919	0	523	497	0	0	0	397	538	0	9.9
15	459	679	814	573	0	935	0	0	0	284	591	0
16	470	0	800	542	1180	929	0	0	284	573	590	364
17	460	688	670	41	1170	958	0	0	282	0	499	410
18	0	695	689	0	937	945	0	0	289	0	516	0
19	0	687	468	671	1140	697	0	0	0	565	469	0
20	1160	725	0	517	1180	21	0	0	0	723	466	266
21	933	683	0	504	869	0	0	0	272	681	0	269
22	916	0	256	509	805	717	23	0	386	683	18	340
23	918	6.6	339	1220	1430	696	0	0	393	477	439	419
24	899	736	347	0	918	823	0	0	380	60	463	465
25	688	799	0	0	921	832	0	0	396	0	452	0
26	0	815	462	898	917	484	0	0	18	686	437	0
27	924	0	17	1180	909	0	0	0	10	685	460	573
28	927	690	0	1770	700	0	0	0	407	461	0	558
29	886	471	465	1790	0	465	44	0	388	436	0	533
30	808	0	790	1800	---	450	0	0	458	278	464	581
31	885	---	675	927	---	532	---	0	---	0	482	---
TOTAL	13443.3	13936.6	14946	21414	24333	20013	2243.5	47	5118	13732	12452	8032.9
MEAN	434	465	482	691	839	646	74.8	1.52	171	443	402	268
MAX	1160	930	1210	1800	1430	958	458	26	458	816	1410	633
MIN	0	0	0	0	0	0	0	0	0	0	0	0
CFSM	-	-	-	-	-	-	-	-	-	-	-	-
IN.	-	-	-	-	-	-	-	-	-	-	-	-
CAL YR 1975	TOTAL	173871.70	MEAN	476	MAX	1650	MIN	0	CFSM	-	IN.	-
WTR YR 1976	TOTAL	149711.30	MEAN	409	MAX	1800	MIN	0	CFSM	-	IN.	-

01434000 DELAWARE RIVER AT PORT JERVIS, NY

LOCATION.--Lat 41°22'14", long 74°41'52", Pike County, Pa., Hydrologic Unit 02040104, on right bank 250 ft (76 m) downstream from bridge on U.S. Highways 6 and 209 at Port Jervis, 1.2 mi (1.9 km) upstream from Neversink River, and 6.5 mi (10.5 km) downstream from Mongaup River.

DRAINAGE AREA.--3,076 mi² (7,967 km²).

WATER-DISCHARGE RECORDS

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

REVISED RECORDS.--WSP 756: Drainage area. WSP 1031: 1905-36. WDR NY 1971: 1970.

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

REMARKS.--Records good. Flow regulated by Lake Wallenpaupack (see p. 310) and by Toronto, Cliff Lake, and Swinging Bridge Reservoirs (see New York Annual Report) and smaller reservoirs. Large diurnal fluctuations at medium and low flows caused by powerplants on tributary streams. Subsequent to September 1954, entire flow from 371 mi² (961 km²) of drainage area controlled by Pepacton Reservoir, and subsequent to October 1963, entire flow from 454 mi² (1,176 km²) of drainage area controlled by Cannonsville Reservoir (see New York Annual Report). Part of flow from these reservoirs diverted for New York City municipal supply. Remainder of flow (except for conservation releases and spill) impounded for release during periods of low flow in the lower Delaware River basin, as directed by the Delaware River Master.

EXTREMES FOR PERIOD OF RECORD:--Maximum discharge, 233,000 ft³/s (6,600 m³/s) Aug. 19, 1955, gage height, 23.91 ft (7.288 m), from floodmarks in gage house, from rating curve extended above 89,000 ft³/s (2,520 m³/s) on basis of slope-area measurement of peak flow; minimum observed, 175 ft³/s (4.96 m³/s) Sept. 23, 1908, gage height, 0.6 ft (0.18 m).

EXTREMES FOR OUTSIDE PERIOD OF RECORD.--Maximum discharge previously known, 205,000 ft³/s (5,810 m³/s) Oct. 10, 1903, gage height, 23.1 ft (7.04 m), reported by U.S. Weather Bureau, from rating curve extended above 70,000 ft³/s (1,980 m³/s) by velocity-area studies; maximum stage known, 25.5 ft (7.77 m) Mar. 8, 1904 (ice jam).

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 56,500 ft³/s (1,600 m³/s) Jan. 28, gage height, 11.83 ft (3.606 m); maximum gage height, 11.89 ft (3.624 m) Jan. 27 (ice jam); minimum discharge, 1,000 ft³/s (28.3 m³/s) Sept. 4, 5; minimum daily, 1,340 ft³/s (37.9 m³/s) Sept. 5; minimum gage height, 1.97 ft (0.600 m) Sept. 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	6900	4230	6380	4740	12900	12500	11300	6510	3320	7540	2660	2020
2	5910	3370	7130	4200	13800	11700	18400	8530	3310	10000	2980	1850
3	5750	3060	6640	4460	14300	10900	14600	9950	3260	7540	2890	1790
4	4830	3310	6160	3340	11500	10500	12000	9080	2790	5760	2530	1530
5	3440	3730	5420	3480	9790	13000	10600	8460	2270	5110	2380	1340
6	3490	2960	4660	3730	8800	16200	9050	7650	1930	4910	2180	1360
7	3220	2820	3990	3820	8080	14400	7660	6830	2800	4250	2330	1420
8	2770	2640	4510	3810	6240	12400	6750	6000	3690	4710	3740	1740
9	2470	2440	4510	4220	6140	11000	6260	5130	3010	4710	6430	1630
10	2260	2990	4630	4400	6090	9540	5360	4740	2550	3670	10400	2050
11	2160	4020	4820	2950	6270	8780	4840	4410	2500	2670	10700	1940
12	3370	4320	4660	3170	6150	7720	4770	4940	1880	3420	7730	1790
13	4050	9580	4600	4460	5930	7330	3750	5000	1410	3830	5790	1870
14	4050	13900	3530	4320	5650	7670	3460	4450	1680	3570	4820	1920
15	4080	12000	3760	4600	4570	7040	3310	3620	1700	3100	4730	2020
16	3670	9580	4350	5120	4680	6940	2950	3150	2070	3240	4920	1650
17	3560	8710	4350	4400	13100	6460	2940	3560	2040	3280	4660	1970
18	9530	8170	4040	4200	23100	5360	2990	4630	1710	5030	4070	1780
19	28400	7610	3510	4430	24000	5370	2940	5800	1690	4180	3500	1760
20	33700	7130	2870	3850	28100	5040	2550	6980	1720	3920	3180	2210
21	22100	6870	2020	4310	22200	5220	2330	10000	2800	3800	2300	1740
22	15600	9890	2470	4180	22100	8280	2290	10700	3910	3400	1790	1550
23	12000	8670	3000	3500	32500	9380	2120	9690	3310	2810	2110	1730
24	9800	8090	3200	4000	23300	8550	1810	8720	3760	2770	2040	1790
25	8420	7690	2750	2200	18000	7850	1700	7770	3580	1830	2050	1880
26	6640	7130	2800	2800	15700	7110	3210	6790	2890	1830	1950	1800
27	5980	6230	3900	17000	15200	5750	6710	5790	2670	2120	2900	2510
28	5870	7610	5260	50200	15900	6730	7270	4820	2750	2110	4440	3670
29	5350	7490	5330	34400	14000	8810	7350	3960	2510	1670	2770	3170
30	4990	6010	4760	23300	---	7910	7010	3410	3030	3550	2500	2680
31	4440	---	5570	16500	---	7000	---	3120	---	4150	2150	---
TOTAL	238800	192250	135580	244090	398090	272340	178280	194290	78540	124480	119620	58160
MEAN	7703	6408	4374	7874	13730	8785	5943	6267	2618	4015	3859	1939
MAX	33700	13900	7130	50200	32500	16200	18400	10700	3910	10000	10700	3670
MIN	2160	2440	2020	2200	4570	5040	1700	3120	1410	1670	1790	1340
CAL YR 1975 TOTAL	2326430		MEAN	6374	MAX	52300	MIN	1370				
WTR YR 1976 TOTAL	2234520		MEAN	6105	MAX	50200	MIN	1340				

DELAWARE RIVER BASIN

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01434000 DELAWARE RIVER AT PORT JERVIS, NY--Continued

WATER-QUALITY RECORDS

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

PERIOD OF DAILY RECORD.--

WATER TEMPERATURES: February 1957 to September 1960, January to September 1973, June 1974 to current year.

SUSPENDED-SEDIMENT DISCHARGE: February 1957 to September 1960; March 1971 to June 1976 (discontinued).

EXTREMES FOR PERIOD OF DAILY RECORD.--

WATER TEMPERATURES: Maximum, 29.5°C July 19, 1959, Aug. 3, 1975; minimum, freezing point on many days during winter periods.

SEDIMENT CONCENTRATIONS: Maximum daily mean, 760 mg/L June 29, 1973; minimum daily mean, less than 1 mg/L on many days.

SUSPENDED-SEDIMENT DISCHARGE: Maximum daily, 187,000 tons (170,000 t) June 29, 1973; minimum daily, 1 ton (0.9 t) Aug. 29, 1957.

EXTREMES FOR CURRENT YEAR.--

WATER TEMPERATURES: Maximum recorded, 26.0°C Aug. 22-24; Minimum, freezing point on many days during winter periods.

SEDIMENT CONCENTRATIONS: Maximum daily mean, 142 mg/L Jan. 28, minimum daily mean less than 1 mg/L March 1.

SUSPENDED-SEDIMENT DISCHARGE: Maximum daily, 19,200 t (17,400 t) Jan. 28, minimum daily, 4.5 t (4.1 t) June 14.

WATER QUALITY DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	SPF-CIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)	TEMPERATURE (DEG C)	TURBIDITY (JTU)	DISSOLVED OXYGEN (MG/L)	PERCENT SATURATION	FECAL COLIFORM (COL. PER 100 ML)	STREPTOCOCCI (COLONIES PER 100 ML)
OCT 29...	1300	4660	64	7.3	13.0	1	11.3	107	87	87
NOV 20...	1100	6450	62	7.1	8.0	1	11.7	100	46	12
DEC 17...	1430	3510	64	6.9	3.5	1	13.9	101	85	17
JAN 29...	1130	34300	57	69.0	1.0	15	14.4	102	290	200
FEB 19...	1200	22500	60	6.5	2.5	6	14.0	108	60	110
MAR 24...	1200	7930	58	6.6	5.0	1	13.5	104	90	83
APR 29...	1200	7290	58	6.8	9.5	1	12.4	107	110	42
MAY 27...	1100	5980	60	6.8	13.5	1	11.2	108	45	85
JUN 17...	1030	2020	70	6.5	22.0	1	8.2	95	64	130

DATE	HARDNESS (CA, MG/L)	NON-CARBONATE HARDNESS (MG/L)	DISSOLVED CALCIUM (CA) (MG/L)	DISSOLVED MAGNESIUM (MG/L)	DISSOLVED SODIUM (NA) (MG/L)	DISSOLVED POTASSIUM (K) (MG/L)	RICARBONATE (HCO3) (MG/L)	DISSOLVED SULFATE (SO4) (MG/L)	DISSOLVED CHLORIDE (CL) (MG/L)	DISSOLVED FLUORIDE (F) (MG/L)
OCT 29...	28	16	8.5	1.6	2.2	.9	15	10	3.4	.0
NOV 20...	21	12	6.0	1.4	2.1	.9	11	9.0	3.5	.2
DEC 17...	23	11	6.8	1.5	2.4	.7	15	11	3.7	.1
JAN 29...	18	6	6.0	.8	2.0	.8	15	8.0	3.6	.1
FEB 19...	20	6	5.7	1.3	2.4	.7	16	10	4.7	.0
MAR 24...	18	5	5.5	1.0	2.2	.7	16	9.9	4.5	.1
APR 29...	21	9	6.0	1.5	1.9	.6	15	11	3.3	.1
MAY 27...	20	8	6.0	1.2	1.9	.7	14	9.3	4.1	.0
JUN 17...	22	6	6.5	1.4	3.4	.9	20	7.3	4.5	.1

DELAWARE RIVER BASIN

01434000 DELAWARE RIVER AT PORT JERVIS, NY--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

DATE	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 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)
OCT 29...	2.3	38	36	.14	.00	.05	.05	.02	.00
NOV 20...	2.3	43	31	.22	.00	.17	.17	.02	.01
DEC 17...	2.2	42	36	.27	.00	.07	.07	.02	.01
JAN 29...	2.4	44	31	.57	.03	.00	.00	.11	.02
FEB 19...	3.0	36	36	.58	.00	.29	.29	.07	.02
MAR 24...	2.3	34	34	.44	.05	.14	.19	.02	.01
APR 29...	2.0	25	34	.38	.01	.19	.20	.03	.01
MAY 27...	1.3	36	31	.25	.02	.18	.20	.03	.01
JUN 17...	1.9	45	36	.25	.04	.19	.23	.03	.01

DATE	TOTAL ARSENIC (AS) (UG/L)	TOTAL CAD- MIUM (CD) (UG/L)	TOTAL CHRO- MIUM (CR) (UG/L)	TOTAL COPPER (CU) (UG/L)	TOTAL IRON (FE) (UG/L)	TOTAL LEAD (PB) (UG/L)	TOTAL MAN- GANESE (MN) (UG/L)	TOTAL MERCURY (HG) (UG/L)	TOTAL ZINC (ZN) (UG/L)
OCT 29...	1	1	0	0	160	2	40	<.5	10
NOV 20...	0	1	10	0	70	2	20	<.5	10
DEC 17...	0	0	10	0	70	3	10	<.5	10
JAN 29...	2	2	10	10	1900	16	260	<.5	30
FEB 19...	1	0	<10	0	630	8	80	<.5	10
MAR 24...	0	0	<10	0	130	3	20	<.5	10
APR 29...	0	1	20	10	150	6	50	<.5	10
MAY 27...	0	0	<10	10	80	3	30	<.5	0
JUN 17...	0	1	20	0	140	8	60	<.5	10

DATE	TIME	SUS- PENDE SEDI- MENT (MG/L)	SUS- PENDE SEDI- MENT CHARGE (T/DAY)	SUS. SED. SIEVE DIAM. % FINER THAN .062 MM
JAN 29...	1200	87	8170	62
JAN 29...	1230	87	--	62
FEB 19...	1230	23	1400	69
FEB 19...	1300	25	1520	50
MAR 24...	1200	2	43	16
MAR 24...	1330	5	106	62
APR 29...	1200	9	177	62
APR 29...	1300	12	237	39
MAY 27...	1400	3	--	100
MAY 27...	1500	3	46	97
JUN 17...	1030	2	11	82
JUN 17...	1130	4	21	53

DELAWARE RIVER BASIN

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01434000 DELAWARE RIVER AT PORT JERVIS, NY--Continued

TEMPERATURE (°C) OF WATER, 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	16.5	15.5	16.0	9.0	7.5	8.5	7.0	6.5	7.0	1.0	0.5	1.0
2	16.0	15.0	15.5	10.0	8.0	9.0	6.5	5.0	6.0	0.5	0.5	0.5
3	15.0	13.5	14.5	10.5	9.0	10.0	5.0	3.5	4.5	1.0	0.5	0.5
4	14.5	13.5	14.0	12.5	10.5	11.5	4.0	3.0	3.5	1.0	0.5	0.5
5	14.0	13.0	14.0	13.0	11.5	12.0	3.0	2.5	3.0	1.0	0.5	0.5
6	15.5	13.5	14.5	12.0	11.0	11.5	4.0	2.5	3.5	1.0	0.5	0.5
7	15.5	14.0	15.0	12.5	10.5	11.5	3.5	2.5	3.0	1.0	0.5	0.5
8	15.0	13.5	14.5	14.0	12.0	13.0	2.5	2.0	2.0	0.5	0.0	0.5
9	15.0	14.0	14.5	14.0	12.5	13.5	3.0	2.5	3.0	0.5	0.0	0.5
10	14.5	13.5	14.0	14.5	13.5	14.0	4.5	3.0	3.5	0.5	0.0	0.5
11	14.0	13.0	13.5	13.5	12.0	13.0	4.0	3.5	4.0	0.5	0.0	0.5
12	13.0	12.5	13.0	11.5	10.5	11.0	4.0	3.5	3.5	0.5	0.5	0.5
13	13.5	12.5	13.0	10.5	9.5	10.0	3.5	3.5	3.5	0.5	0.5	0.5
14	15.5	13.5	14.5	9.5	8.0	8.5	4.5	3.5	4.0	0.5	0.5	0.5
15	16.0	15.0	15.5	8.0	7.0	7.5	4.5	4.0	4.5	0.5	0.5	0.5
16	16.5	15.5	16.0	7.0	6.5	6.5	5.0	4.0	4.5	0.5	0.0	0.5
17	15.5	14.0	14.5	7.0	6.0	6.5	4.0	3.5	3.5	0.5	0.0	0.5
18	14.0	12.5	13.5	---	---	---	3.5	1.5	3.0	0.5	0.5	0.5
19	12.5	12.0	12.0	---	---	---	1.5	0.5	1.0	0.5	0.5	0.5
20	12.5	12.0	12.0	---	---	---	1.0	0.5	1.0	0.5	0.5	0.5
21	12.5	12.0	12.0	9.5	9.0	9.5	1.0	0.5	1.0	0.5	0.0	0.5
22	13.0	12.0	12.5	9.0	7.5	8.5	0.5	0.0	0.5	0.5	0.5	0.5
23	13.5	12.5	13.0	7.5	6.0	7.0	1.0	0.5	0.5	0.5	0.5	0.5
24	13.5	13.0	13.5	6.0	5.5	5.5	1.0	0.5	0.5	0.5	0.0	0.5
25	14.0	13.5	14.0	6.0	5.5	6.0	---	---	---	0.5	0.0	0.5
26	14.0	13.0	14.0	6.0	5.5	5.5	---	---	---	0.5	0.0	0.5
27	13.0	12.5	13.0	6.0	5.5	6.0	---	---	---	0.5	0.0	0.5
28	13.5	12.0	13.0	6.0	5.5	5.5	---	---	---	1.0	0.0	0.5
29	13.0	12.5	13.0	6.0	5.0	5.5	---	---	---	1.0	0.5	1.0
30	13.0	10.0	11.5	6.5	5.5	6.0	0.5	0.5	0.5	1.5	1.0	1.5
31	10.0	8.5	9.5	---	---	---	1.0	0.5	1.0	1.5	0.5	1.0
MONTH	16.5	8.5	13.5	14.5	5.0	9.0	7.0	0.0	3.0	1.5	0.0	0.5
DAY	FEBRUARY			MARCH			APRIL			MAY		
	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	1.5	1.0	1.0	5.0	4.5	5.0	8.0	7.5	8.0	10.5	10.5	10.5
2	1.5	0.5	0.5	5.0	4.0	4.5	7.5	7.0	7.0	12.5	10.5	11.5
3	0.5	0.0	0.5	4.0	2.5	3.0	7.0	6.5	6.5	12.0	11.5	12.0
4	0.5	0.0	0.5	3.5	2.5	3.0	6.5	5.0	6.0	11.5	9.5	10.5
5	0.5	0.5	0.5	5.5	3.5	4.5	6.5	4.5	5.5	11.0	9.0	10.0
6	0.5	0.0	0.5	5.5	4.0	5.0	7.5	6.0	6.5	13.0	10.5	11.5
7	0.5	0.5	0.5	4.5	3.0	4.0	9.0	7.0	8.0	14.5	12.5	13.5
8	0.5	0.5	0.5	3.5	2.5	3.0	9.0	7.5	8.0	14.0	12.5	13.0
9	1.0	0.5	0.5	2.5	1.5	2.0	9.0	7.0	8.0	14.0	12.0	13.0
10	1.0	0.5	0.5	2.5	1.5	2.0	9.0	7.0	8.0	14.5	12.0	13.5
11	2.0	1.0	1.5	3.5	2.5	3.0	8.5	7.5	8.0	14.5	14.0	14.5
12	2.0	0.5	1.5	---	---	---	7.5	6.0	7.0	14.5	13.5	14.0
13	2.5	1.5	2.0	---	---	---	8.5	5.5	7.0	14.0	12.5	13.5
14	2.0	1.0	2.0	---	---	---	10.0	7.0	8.0	15.0	13.5	14.0
15	1.5	1.0	1.0	---	---	---	11.0	8.5	10.0	18.0	15.0	16.5
16	2.5	1.0	2.0	---	---	---	13.0	10.5	11.5	18.0	17.0	17.5
17	3.5	2.5	3.0	---	---	---	15.5	11.5	13.5	18.0	17.0	17.5
18	2.5	2.0	2.0	---	---	---	17.5	13.5	16.0	18.5	15.5	17.0
19	3.0	2.0	2.5	---	---	---	19.5	16.5	18.0	15.5	12.5	14.0
20	3.0	2.5	3.0	---	---	---	20.5	16.5	18.5	13.0	12.0	12.5
21	3.0	2.5	2.5	---	---	---	20.5	18.0	19.5	13.0	11.5	12.0
22	4.0	3.0	3.5	---	---	---	19.5	17.0	18.0	13.0	12.0	12.5
23	3.5	2.0	2.5	---	---	---	18.5	16.0	17.5	13.0	12.0	12.5
24	2.5	1.5	2.0	---	---	---	16.5	15.0	15.5	13.0	12.0	12.5
25	4.0	2.0	3.0	---	---	---	15.5	12.5	14.0	13.5	13.0	13.0
26	4.5	3.5	4.0	---	---	---	12.5	10.0	11.5	13.5	13.0	13.0
27	5.5	4.5	5.0	9.5	7.5	8.5	10.0	8.0	9.0	15.0	12.5	14.0
28	5.5	4.5	5.0	9.5	8.5	9.0	9.0	7.5	8.0	17.0	14.5	16.0
29	5.0	4.0	4.5	8.5	7.5	8.0	9.5	8.0	9.0	18.0	16.0	17.0
30	---	---	---	8.5	7.0	8.0	11.0	8.5	10.0	17.5	17.0	17.5
31	---	---	---	8.0	8.0	8.0	---	---	---	18.5	17.0	17.5
MONTH	5.5	0.0	2.0	---	---	---	20.5	4.5	10.5	18.5	9.0	14.0

DELAWARE RIVER BASIN

01434000 DELAWARE RIVER AT PORT JERVIS, NY--Continued

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

DAY	JUNE			JULY			AUGUST			SEPTEMBER		
	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	18.0	17.0	17.5	---	---	---	23.5	22.5	23.0	21.5	19.0	20.5
2	18.0	16.5	17.0	---	---	---	23.0	21.0	22.0	21.0	19.5	20.0
3	19.5	16.5	18.0	---	---	---	22.5	20.0	21.5	21.0	18.5	20.0
4	20.5	17.5	19.0	---	---	---	23.0	20.0	22.0	20.0	19.0	19.5
5	21.5	17.0	19.5	---	---	---	23.5	20.5	22.5	20.5	19.0	20.0
6	20.5	18.0	18.5	---	---	---	23.0	22.0	22.5	20.0	18.5	19.5
7	19.5	17.0	18.0	---	---	---	22.5	20.5	21.5	20.0	17.5	19.0
8	21.5	18.5	20.0	---	---	---	20.5	20.0	20.5	21.0	19.0	20.0
9	22.5	19.0	21.0	---	---	---	20.5	19.5	20.0	22.0	20.0	21.5
10	23.5	20.0	21.5	---	---	---	19.5	19.0	19.0	21.5	20.0	20.5
11	24.0	20.5	22.0	---	---	---	20.5	18.5	19.5	20.0	18.5	19.5
12	24.5	21.5	23.0	---	---	---	21.5	20.0	20.5	20.0	17.5	19.0
13	23.0	21.5	22.0	---	---	---	22.5	21.0	22.0	21.0	18.5	20.0
14	21.5	20.5	21.0	---	---	---	23.5	22.0	23.0	21.5	19.0	20.5
15	24.5	20.5	22.5	---	---	---	24.0	23.0	23.5	21.0	20.0	20.5
16	24.0	21.5	22.5	---	---	---	23.0	21.5	22.5	20.5	20.0	20.0
17	23.5	22.0	23.0	---	---	---	22.0	20.0	21.0	21.0	20.0	20.5
18	25.5	22.5	24.0	---	---	---	22.0	20.5	21.5	21.0	20.0	20.5
19	25.5	23.0	24.5	---	---	---	23.0	20.5	22.0	21.0	19.5	20.5
20	25.5	24.5	25.0	24.0	21.5	23.0	23.5	21.0	22.5	20.5	19.5	20.0
21	25.0	22.5	24.5	23.0	22.0	22.5	25.0	21.5	23.5	20.0	19.0	19.5
22	24.5	23.5	23.5	24.0	22.0	23.0	26.0	23.5	25.0	19.0	18.0	18.5
23	25.0	22.5	23.5	23.0	21.0	22.0	26.0	24.5	25.5	18.0	16.0	17.0
24	---	---	---	23.5	20.5	22.0	26.0	23.5	25.0	18.0	16.5	17.5
25	---	---	---	23.5	21.5	22.5	25.5	23.0	24.5	18.0	15.5	17.0
26	---	---	---	23.5	21.0	22.5	25.0	23.0	24.0	17.0	15.0	16.0
27	---	---	---	23.0	21.5	22.5	24.5	23.0	23.5	16.0	15.5	15.5
28	---	---	---	24.0	21.5	23.0	24.0	23.0	23.5	16.0	14.5	15.0
29	---	---	---	23.0	22.0	22.0	25.0	23.0	23.5	15.5	13.5	14.5
30	---	---	---	23.0	21.5	22.5	23.0	21.0	21.5	15.0	13.5	14.5
31	---	---	---	23.5	21.5	22.5	21.0	19.0	20.0	---	---	---
MONTH	---	---	---	---	---	---	26.0	18.5	22.5	22.0	13.5	19.0

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	6900	4	75	4230	5	57	6380	3	52
2	5910	4	64	3370	8	73	7130	5	96
3	5750	5	78	3060	4	33	6640	4	72
4	4830	3	39	3310	2	18	6160	4	67
5	3440	7	65	3730	4	40	5420	6	88
6	3490	4	38	2960	5	40	4660	6	75
7	3220	3	26	2820	4	30	3990	3	32
8	2770	3	22	2640	2	14	4510	2	24
9	2470	4	27	2440	1	6.6	4510	3	37
10	2260	4	24	2990	4	32	4630	9	113
11	2160	2	12	4020	4	43	4820	3	39
12	3370	2	18	4320	5	58	4660	1	13
13	4050	2	22	9580	11	285	4600	5	62
14	4050	7	77	13900	16	600	3530	8	76
15	4080	6	66	12000	14	454	3760	5	51
16	3670	2	20	9580	14	362	4350	2	23
17	3560	3	29	8710	8	188	4350	1	12
18	9530	44	2320	8170	5	110	4040	5	55
19	28400	101	7840	7610	4	82	3510	5	47
20	33700	74	7040	7130	4	77	2870	4	31
21	22100	37	2210	6870	2	37	2020	3	16
22	15600	32	1350	9890	4	107	2470	4	27
23	12000	9	292	8670	3	70	3000	7	57
24	9800	28	741	8090	2	44	3200	8	69
25	8420	12	273	7690	2	42	2750	4	30
26	6640	15	269	7130	3	58	2800	4	30
27	5980	15	242	6230	4	67	3900	7	74
28	5870	21	333	7610	4	82	5260	5	71
29	5350	6	87	7490	3	61	5330	3	43
30	4990	6	81	6010	5	81	4760	5	64
31	4440	5	60	---	---	---	5570	8	120
TOTAL	238800	---	23840	192250	---	3251.6	135580	---	1666

01434000 DELAWARE RIVER AT PORT JERVIS, NY--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	4740	9	115	12900	39	1360	12500	1	20
2	4200	7	79	13800	26	969	11700	1	32
3	4460	5	60	14300	21	811	10900	4	118
4	3340	5	45	11500	21	652	10500	11	312
5	3480	3	28	9790	16	423	13000	17	597
6	3730	5	50	8800	18	428	16200	10	437
7	3820	4	41	8080	22	480	14400	3	117
8	3810	6	62	6240	19	320	12400	7	234
9	4220	5	57	6140	10	166	11000	4	119
10	4400	4	48	6090	7	115	9540	5	129
11	2950	4	32	6270	8	135	8780	4	95
12	3170	5	43	6150	10	166	7720	3	63
13	4460	5	60	5930	6	96	7330	5	99
14	4320	4	47	5650	2	31	7670	6	124
15	4600	5	62	4570	4	49	7040	4	76
16	5120	5	69	4680	4	51	6840	3	55
17	4400	2	24	13100	11	389	6460	2	35
18	4200	4	45	23100	54	3370	5360	4	58
19	4430	3	36	24000	30	1940	5370	5	72
20	3850	4	42	28100	33	2500	5040	4	54
21	4310	12	140	22200	35	2100	5220	4	56
22	4180	12	135	22100	26	1550	8280	22	492
23	3500	7	66	32500	52	4560	9380	9	228
24	4000	5	54	23300	14	881	8550	4	92
25	2200	6	36	18000	4	194	7850	6	127
26	2800	18	136	15700	1	42	7110	2	38
27	17000	139	8810	15200	4	164	5750	3	47
28	50200	142	19200	15900	1	43	6730	4	73
29	34400	78	7240	14000	2	76	8810	4	95
30	23300	68	4280	---	---	---	7910	4	85
31	16500	39	1740	---	---	---	7000	7	132
TOTAL	244090	---	42882	398090	---	24061	272340	---	4311
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	11300	26	793	6510	7	123	3320	31	278
2	18400	29	1440	8630	10	233	3310	15	134
3	14600	22	867	9950	8	215	3260	6	53
4	12000	9	292	9080	9	221	2790	3	23
5	10600	12	343	8460	7	160	2270	5	31
6	9050	8	195	7650	6	124	1930	7	36
7	7660	14	290	6830	5	92	2800	12	91
8	6750	12	219	6000	4	65	3690	14	139
9	6260	9	152	5130	3	42	3010	6	49
10	5360	7	101	4740	7	90	2550	2	14
11	4840	6	78	4410	8	95	2500	8	54
12	4770	10	129	4940	10	133	1880	4	20
13	3750	12	121	5000	9	122	1410	2	7.6
14	3460	8	75	4450	5	60	1680	1	4.5
15	3310	6	54	3620	3	29	1700	2	9.2
16	2950	7	56	3150	3	26	2070	3	17
17	2940	8	64	3560	2	19	2040	2	11
18	2990	3	24	4630	4	50	1710	1	4.6
19	2940	2	16	5800	9	141	1690	2	9.1
20	2550	4	28	6980	24	452	1720	9	42
21	2330	5	31	10000	50	1350	2800	28	292
22	2290	9	56	10700	65	1880	3910	44	465
23	2120	9	52	9690	22	576	3310	36	322
24	1810	10	49	8770	6	141	3760	8	81
25	1700	8	37	7770	3	63	3580	10	97
26	3210	13	113	6790	5	92	2890	17	133
27	6710	11	199	5790	3	47	2670	26	187
28	7270	9	177	4820	1	13	2750	18	134
29	7350	9	179	3960	8	86	2510	14	95
30	7010	5	95	3410	25	230	3030	12	98
31	---	---	---	3120	33	278	---	---	---
TOTAL	178280	---	6325	194290	---	7248	78540	---	2931.0

DELAWARE RIVER BASIN

01438500 DELAWARE RIVER AT MONTAGUE, NJ

LOCATION.--Lat 41°18'33", long 74°47'44", Sussex County, Hydrologic Unit 02040104, on right bank 0.4 mi (0.6 km) upstream from toll bridge at Montague, 0.8 mi (1.3 km) downstream from Sawkill Creek, and at mile 246.3 (396.3 km). Water-quality samples collected from toll bridge.

DRAINAGE AREA.--3,480 mi² (9,013 km²).

PERIOD OF RECORD.--

WATER DISCHARGE: Water years 1936 to September 1939 (gage heights only, published as at Milford, PA). Water years 1939 to current year. Monthly discharge only for some periods, published in WSP 1302.

CHEMICAL ANALYSES: Water years 1956-73, July to September 1976.

PERIOD OF DAILY RECORD.--

WATER DISCHARGE: October 1939 to current year.

WATER TEMPERATURES: October 1956 to September 1957.

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

REMARKS.--Discharge records excellent except those for January, which are fair. Diurnal fluctuations at medium and low flow caused by powerplants on tributary streams. Flow regulated by Lake Wallenpaupack and by Pepacton, Cannonsville, Swinging Bridge, Toronto, Cliff Lake, and Neversink Reservoirs (see Delaware River Basin, reservoirs in) and smaller reservoirs. Diversion from Pepacton, Cannonsville, and Neversink Reservoirs (see Delaware River Basin, diversions).

COOPERATION.--Field data (dissolved oxygen, water temperature, pH) and samples for laboratory analyses supplied by New Jersey Department of Environmental Protection, Division of Water Resources. Analyses of fecal coliform and fecal streptococci by the MPN method and selected water-phase nutrients were performed by the New Jersey Department of Health, Division of Laboratories and Epidemiology.

AVERAGE DISCHARGE.--37 years, 5,902 ft³/s (167.1 m³/s), unadjusted.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 83,100 ft³/s (2,350 m³/s) Jan. 27, gage height, 20.03 ft (6.105 m); minimum daily, 1,590 ft³/s (45.0 m³/s) Sept. 5.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 250,000 ft³/s (7,080 m³/s) Aug. 19, 1955 (gage height, 35.15 ft or 10.714 m), from rating curve extended above 90,000 ft³/s (2,550 m³/s) on basis of flood-routing study; minimum, 382 ft³/s (10.8 m³/s) Aug. 24, 1954, gage height, 3.83 ft (1.167 m); minimum daily, 412 ft³/s (11.7 m³/s) Aug. 23, 1954.

EXTREMES OUTSIDE PERIOD OF RECORD.--Maximum stage during period 1903-76, 35.5 ft (10.82 m) Oct. 10, 1903, present datum, from floodmark.

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	7780	4850	7040	5500	14000	13700	12100	7120	3760	8680	3230	2440
2	6540	4130	8010	4510	15000	12800	20800	9520	3960	10900	3090	2230
3	6150	3410	7490	4800	16000	11900	16400	11200	3790	8270	3320	2210
4	5650	3860	6940	4000	13000	11500	13500	9970	3310	6570	2750	2140
5	4020	3940	6170	3500	11000	13800	11800	9370	2780	5820	2690	1590
6	3830	3440	5500	3900	10000	17400	10200	8510	2350	5300	2410	1680
7	3890	3290	4700	4100	9000	15800	8740	7670	3140	4910	2790	1650
8	3270	3320	4960	4000	7200	13400	7710	6810	4210	5120	4240	1930
9	2920	3000	5130	4400	6800	11900	7040	5830	3560	5300	6390	1930
10	2720	3290	5340	4800	6800	10500	6240	5380	3080	4310	11000	2140
11	2620	4680	5660	3300	6700	9680	5610	4940	2940	3340	11500	2390
12	3870	5040	5210	2900	6700	8660	5360	5880	2540	3700	8430	2120
13	4510	10200	5210	4700	6600	8210	4530	5920	1740	4260	6420	1950
14	4550	15600	4350	4800	6400	8880	4100	5250	1750	4070	5460	2190
15	4740	13500	4130	4700	5400	7980	4000	4440	2130	3470	5250	2120
16	4280	11000	4920	5600	5200	7800	3430	3830	2380	3520	5350	1910
17	4010	9590	4870	5000	13700	7380	3450	4060	2510	3630	5220	2050
18	8380	9220	4580	4500	25400	6230	3560	5330	1920	5380	4540	2320
19	27000	8530	4110	4400	26100	6210	3380	6810	2160	4340	3910	2070
20	34800	7990	3300	4100	30900	6160	3110	7760	1990	4220	3560	2380
21	24400	7730	2400	4500	25000	6180	2750	10600	2820	4120	2890	2120
22	17300	10900	2500	4500	23600	8800	2680	11400	4540	3720	2120	1900
23	13200	9490	3500	3800	35000	10300	2550	10400	3770	3280	2160	1810
24	10800	8880	3800	4400	26000	9470	2240	9360	4100	3190	2360	1980
25	9330	8650	3300	2800	20100	8680	2090	8490	3980	2280	2320	2170
26	7720	7960	3000	3000	17400	7950	3370	7500	3470	1950	2210	2000
27	6650	7360	4600	20000	16600	6720	7170	6470	3010	2360	3390	2790
28	6660	8460	5700	56000	17300	7340	7850	5440	2910	2320	5740	3950
29	6060	8520	5600	40000	15500	9550	7910	4650	3280	2070	3700	3790
30	5660	7140	5200	27000	---	8720	7590	4000	3910	3230	2830	3320
31	5080	---	6000	19000	---	7740	---	3690	---	4890	2750	---
TOTAL	258400	217370	153220	272510	438400	301340	201260	217600	91790	138520	134020	67270
MEAN	8335	7246	4943	8791	15120	9721	6709	7019	3060	4468	4323	2242
MAX	34800	15600	8010	56000	35000	17400	20800	11400	4540	10900	11500	3950
MIN	2620	3000	2400	2800	5200	6160	2090	3690	1740	1950	2120	1590

CAL YR 1975 TOTAL 2610730 MEAN 7153 MAX 57800 MIN 1530
WTR YR 1976 TOTAL 2491700 MEAN 6808 MAX 56000 MIN 1590

DELAWARE RIVER BASIN

37

01439500 BUSH KILL AT SHOEMAKERS, PA

LOCATION.--Lat 41°05'17", long 75°02'17", Monroe County, Hydrologic Unit 02040104, on right bank 30 ft (9 m) downstream from highway bridge, 0.1 mi (0.2 km) downstream from Saw Creek, 0.7 mi (1.1 km) northwest of Shoemakers, and 2 mi (3.2 km) southwest of Bushkill.

DRAINAGE AREA.--117 mi² (303 km²).

WATER-DISCHARGE RECORDS

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

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

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

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

AVERAGE DISCHARGE.--68 years, 235 ft³/s (6.66 m³/s), 27.24 in/yr (692 mm/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 23,400 ft³/s (663 m³/s) Aug. 19, 1955, gage height, 13.95 ft (4.252 m), from floodmarks, from rating curve extended above 2,600 ft³/s (73.6 m³/s) on basis of slope-area measurement of peak flow; minimum, 2.6 ft³/s (0.074 m³/s) Sept. 25, 26, 27, 1964, gage height, 0.72 ft (0.219 m).

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 2,830 ft³/s (80.1 m³/s) Jan. 28, gage height, 5.12 ft (1.561 m); minimum, 27 ft³/s (0.76 m³/s) Sept. 9, 10, 13, 14, gage height, 1.19 ft (0.363 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	231	184	331	253	723	321	711	209	179	879	110	47
2	208	170	321	240	844	289	834	587	223	546	93	51
3	186	164	295	223	620	244	675	460	194	386	81	56
4	174	160	264	218	560	297	555	390	167	341	73	47
5	160	157	246	210	491	313	463	331	148	326	64	45
6	149	148	235	190	418	293	398	295	141	273	60	42
7	137	141	230	180	381	264	349	269	181	273	80	36
8	125	191	215	180	356	241	311	245	162	277	213	32
9	119	195	208	170	319	224	281	223	141	230	213	30
10	115	225	258	160	284	217	254	208	127	191	355	30
11	208	357	241	155	268	219	240	195	118	170	288	32
12	326	386	215	150	252	216	225	549	108	160	220	32
13	250	847	200	150	241	269	214	446	95	145	180	30
14	214	798	195	170	253	305	202	364	91	138	155	28
15	141	657	193	150	228	265	186	323	93	127	137	31
16	174	557	190	135	235	253	175	295	91	130	128	35
17	160	472	177	125	563	241	167	337	145	164	115	118
18	568	414	170	120	652	214	159	403	130	138	101	130
19	808	370	160	120	695	221	153	453	116	116	91	98
20	879	336	150	115	725	255	147	424	124	105	83	77
21	707	427	145	115	611	251	139	364	618	98	77	66
22	568	584	140	110	721	245	132	327	590	98	72	58
23	466	470	135	110	694	223	128	294	526	93	66	49
24	392	407	135	105	547	209	119	266	447	130	61	44
25	357	370	130	105	489	201	129	243	380	108	57	39
26	321	348	490	738	446	194	271	225	311	91	55	49
27	286	403	339	2060	415	186	246	211	242	84	105	132
28	268	427	267	2360	379	267	208	192	206	77	98	138
29	242	359	239	1580	347	265	189	176	291	86	79	103
30	225	327	221	1130	---	242	171	181	492	154	64	88
31	194	---	241	822	---	225	---	179	---	132	53	---
TOTAL	9412	11051	6976	12649	13757	7709	8430	9664	6877	6266	3627	1793
MEAN	304	368	225	408	474	249	281	312	229	202	117	59.8
MAX	879	847	490	2360	844	321	834	587	618	879	355	138
MIN	115	141	130	105	228	186	119	176	91	77	53	28
CFSM	2.60	3.15	1.92	3.49	4.05	2.13	2.40	2.67	1.96	1.73	1.00	.51
IN.	2.49	3.51	2.22	4.02	4.37	2.45	2.68	3.07	2.19	1.99	1.15	.57

CAL YR 1975 TOTAL 104875 MEAN 287 MAX 2160 MIN 45 CFSM 2.45 IN 33.34
WTR YR 1976 TOTAL 98211 MEAN 263 MAX 2360 MIN 28 CFSM 2.29 IN 31.23

DELAWARE RIVER BASIN

01439500 BUSH KILL AT SHOEMAKERS, PA--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--January 1976 to current year.

COOPERATION.--Water-quality data were furnished by the Pennsylvania Department of Environmental Resources.

WATER QUALITY DATA, JANUARY TO SEPTEMBER 1976

DATE	TIME	CODE FOR AGENCY COL- LECTING SAMPLE	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)	HARD- NESS (CA.MG)	MINERAL ACIDITY (METHYL ORANGE) AS CACO3 (MG/L)	ACIDITY CO2 AS CACO3 (MG/L)
JAN 22...	1515	9813	575	90	7.6	.0	<1	12.0	39	0	0
FEB 26...	0900	9813	446	33	6.9	4.5	1	11.1	25	0	0
MAY 12...	1300	9813	640	16	6.2	13.5	2	9.5	<10	0	0
AUG 30...	1515	9813	62	140	7.7	22.0	6	11.0	53	--	0

DATE	DIS- SOLVED CAL- CIUM (CA) (MG/L)	DIS- SOLVED MAG- NE- SIUM (MG)	ALKA- LINITY AS CACO3 (MG/L)	DIS- SOLVED SULFATE (SO4) (MG/L)	DIS- SOLVED CHLO- RIDE (CL) (MG/L)	TOTAL NITRATE (N) (MG/L)	TOTAL NITRITE (N) (MG/L)	TOTAL AMMONIA NITRO- GEN (N) (MG/L)	TOTAL PHOS- PHORUS (P) (MG/L)	TOTAL IRON (FE) (UG/L)
JAN 22...	12	1.5	26	20	8.0	1.0	.07	.02	.06	110
FEB 26...	1.5	5.0	6	4.0	3.0	.50	.05	.02	.11	80
MAY 12...	3.1	--	12	16	3.0	.40	.03	.04	.08	170
AUG 30...	18	1.7	38	8.0	11	.62	.02	.02	.10	1130

DELAWARE RIVER BASIN

39

01440090 DELAWARE RIVER NEAR EAST STROUDSBURG, PA (NEAR TOCKS ISLAND DAMSITE)

LOCATION.--Lat 41°02'40", long 75°01'42", Monroe County, Hydrologic Unit 02040104, water-quality recorder on right bank opposite Poxono Island, 0.1 mi (0.2 km) upstream from mouth of Vancampens Brook, and 4.4 mi (7.0 km) northeast of East Stroudsburg.

DRAINAGE AREA.--3,830 mi² (9,920 km²), approximately.

PERIOD OF RECORD.--October 1966 to May 1973, October 1973 to current year.

REMARKS.--Discharge records are obtained from 01440200 Delaware River below Tocks Island damsite near Delaware Water Gap, Pa.

WATER QUALITY DATA, WATER YEAR OCTOBER 1975 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)	CHEM- ICAL OXYGEN DEMAND (LOW LEVEL) (MG/L)	FECAL COLI- FORM (COL. PER 100 ML)	STREP- TOCOCCI (COL- ONIES PER 100 ML)	DIS- SOLVED SOLIDS (RESI- DUE AT 180 C) (MG/L)
OCT											
10...	1100	2950	60	6.3	16.0	1	9.0	8	36	7	60
22...	1730	E1800	110	7.2	13.5	4	9.6	17	33	--	55
NOV											
24...	1645	9490	40	7.1	11.5	1	12.2	9	E16	80	34
DEC											
10...	1440	6130	70	7.4	4.5	1	13.8	11	73	110	46
22...	1630	2600	80	7.6	1.0	1	16.1	6	56	88	47
JAN											
05...	1300	4050	90	7.0	1.5	0	16.1	15	27	E8	51
23...	1330	E3400	110	7.0	1.5	1	16.0	6	42	E11	62
FEB											
04...	1030	21000	80	7.1	1.0	1	15.0	10	31	48	40
18...	1645	28100	70	6.9	4.0	10	13.1	15	40	980	48
MAR											
01...	1430	15000	80	7.0	12.0	2	12.2	11	E18	24	51
17...	1430	9300	125	7.3	3.0	2	13.6	15	E17	--	96
APR											
02...	0700	30300	100	7.2	10.5	2	10.2	18	E15	B12	46
14...	1310	5780	100	6.7	11.0	1	13.1	15	B11	B19	64
22...	1145	3110	110	6.7	18.0	1	9.6	26	B2	B11	57
MAY											
05...	1245	10600	70	7.3	12.0	1	11.4	10	88	E7	35
20...	1340	8410	70	6.9	14.0	1	10.4	17	34	F8	53
JUN											
02...	1405	5080	80	6.7	16.0	1	9.5	10	67	25	44
15...	1300	2900	95	7.4	21.5	1	9.4	11	--	--	51
30...	0900	4340	80	7.2	25.0	1	8.8	12	18	37	55
JUL											
14...	1030	5050	70	7.7	20.0	1	9.0	13	41	74	50
28...	1600	2720	100	7.3	24.0	2	9.4	14	E12	63	51
AUG											
12...	0830	11100	80	6.8	20.0	5	8.2	14	38	56	39
SEP											
03...	1345	2600	75	7.2	20.0	1	8.6	21	E8	E220	49
08...	0800	2150	118	7.2	19.0	1	8.4	<10	100	900	52
21...	1400	3200	60	7.2	20.5	1	8.8	12	B25	400	44

DELAWARE RIVER BASIN

01440090 DELAWARE RIVER AT EAST STROUDSBURG, PA--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

DATE	SUS- PENDED SOLIDS (MG/L)	TOTAL 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 NITRO- GEN (N) (MG/L)	TOTAL PHOS- PHORUS (P) (MG/L)	TOTAL ORGANIC CARBON (C) (MG/L)	CHLORO- PHYLL A (UG/L)	CHLORO- PHYLL B (UG/L)
OCT										
10...	--	.09	.01	.19	.20	.29	.02	3.9	.000	.000
22...	--	.24	.01	.56	.57	.81	.09	3.1	.000	.000
NOV										
24...	--	.25	.01	.20	.21	.46	.03	6.0	.000	.000
DEC										
10...	--	.30	.20	.59	.79	1.1	.04	2.4	.000	.000
22...	--	.33	.01	.41	.42	.75	.02	2.7	.000	.000
JAN										
05...	--	.38	.09	.18	.27	.65	.03	9.8	.000	.000
23...	--	.44	.03	.18	.21	.65	.03	8.4	.000	.000
FEB										
04...	--	.51	.11	.17	.28	.79	.04	6.9	.000	.000
18...	--	.49	.14	.41	.55	1.0	.11	5.1	.000	.000
MAR										
01...	--	.51	.17	.60	.77	1.3	.04	4.0	.000	.000
17...	--	.42	.21	.89	1.1	1.5	.02	8.7	.000	.000
APR										
02...	--	.33	.08	.30	.38	.71	.03	7.8	.000	.000
14...	--	.35	.10	.50	.60	.95	.02	7.5	--	--
22...	--	.43	.10	1.0	1.1	1.5	.04	11	6.40	.000
MAY										
05...	--	.30	.17	.66	.83	1.1	.04	5.6	.000	.000
20...	--	.25	.11	.39	.50	.75	.04	9.5	.000	.000
JUN										
02...	--	.30	.12	.33	.45	.75	.03	3.5	--	--
15...	--	.19	.04	.19	.23	.42	.04	3.8	4.03	.000
30...	--	.13	.06	.37	.43	.56	.05	3.8	2.30	.000
JUL										
14...	--	.23	.04	.19	.23	.46	.03	15	.000	.000
28...	--	.16	.16	.49	.65	.81	.05	4.6	.000	.000
AUG										
12...	--	.29	.05	.33	.38	.67	.04	--	.000	.000
SEP										
03...	--	.22	.19	.46	.65	.87	.04	8.6	4.17	.336
08...	1	.12	.01	.09	.10	.22	.04	2.7	.908	.000
21...	3	.26	.02	.16	.18	.44	.02	3.2	2.47	1.10

DATE	TIME	BICAR- BONATE (HCO3) (MG/L)	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)	TOTAL NON- FILT- RABLE RESIDUE (MG/L)
JAN								
21...	1330	15	0	12	2.4	12	4.9	2
APR								
22...	1145	19	0	16	6.1	12	5.2	2
JUL								
14...	1030	20	0	16	.6	8.7	2.6	6
SEP								
08...	0800	23	0	19	2.3	10	5.1	2

DELAWARE RIVER BASIN

41

01440200 DELAWARE RIVER BELOW TOCKS ISLAND DAMSITE, NEAR DELAWARE WATER GAP, PA

LOCATION.--Lat 41°00'42", long 75°05'09", Warren County, Hydrologic Unit 02040105, on left bank 40 ft (12.2 m) streamward from River Road, 1.0 mi (1.6 km) downstream from Tocks Island, 3.7 mi (6.0 km) northeast of Delaware Water Gap, PA, 4.0 mi (6.4 km) upstream from bridge on Interstate Highway 80, and at mile 216.1 (347.7 km).

DRAINAGE AREA.--3,850 mi² (9,970 km²) approximately.

PERIOD OF RECORD.--

WATER DISCHARGE: May 1964 to current year.

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

REMARKS.--Discharge records good. Diurnal fluctuation at medium and low flow caused by powerplants on tributary streams. Flow regulated by Lake Wallenpaupack, and by Pepacton, Cannonsville, Swinging Bridge, Toronto, Cliff Lake, and Neversink Reservoirs (see Delaware River Basin, reservoirs in) and smaller reservoirs. Diversion from Pepacton, Cannonsville, and Neversink Reservoirs (see Delaware River Basin, diversions).

AVERAGE DISCHARGE.--12 years, 6,340 ft³/s (179.5 m³/s), unadjusted.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 78,900 ft³/s (2,230 m³/s) Jan. 28, gage height, 19.71 (6.001 m); minimum, 1,360 ft³/s (38.5 m³/s) Sept. 5, gage height, 5.08 ft (1.548 m).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 103,000 ft³/s (2,920 m³/s) June 30, 1973, gage height, 23.82 ft (7.260 m); minimum daily, 580 ft³/s (16.4 m³/s) July 7, 8, 1965.

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	9320	5290	7370	6550	19300	14300	11000	8070	4340	8650	4080	2440
2	7600	4810	8610	5440	18900	13800	22500	10700	4840	13300	2920	2330
3	6910	3740	8450	5400	21500	13000	20300	12900	4640	10800	3610	2270
4	6760	4010	7650	5290	19600	12600	16300	11500	4210	8410	3010	2120
5	5060	3980	6860	4210	15800	13400	13600	10700	3710	7130	2750	1500
6	4300	3410	6310	3800	12600	17600	12100	10000	3010	6240	2440	1570
7	4520	3550	5330	3700	11800	17800	10700	9040	3110	6130	2500	1530
8	3810	3610	4980	4700	9880	14400	9340	8160	4470	5470	3770	1750
9	3490	3470	5680	4100	8540	13200	8350	7090	4540	6060	5720	1780
10	3070	3410	5580	3800	8300	11500	7790	6300	3740	5360	11100	1830
11	2900	5120	6060	3500	7780	10700	6840	5810	3550	4010	13100	2350
12	3820	5850	5650	3300	7990	9910	6300	6880	3500	3500	10300	1960
13	5030	9680	5750	3000	7700	9070	5910	7330	2210	4740	7780	1780
14	4960	17700	5010	5000	7520	10000	5110	6630	1880	4670	6240	2120
15	5160	15700	4110	5600	6730	9120	5010	5880	2410	3950	5750	1760
16	4770	13100	5220	5300	5850	9010	4150	4960	2410	3890	5510	2100
17	4530	11000	5050	5000	11300	8500	4110	4700	2920	3890	5920	1990
18	6140	10500	4910	4100	26100	7490	4110	6120	2630	5120	5050	2470
19	12000	9650	4570	3400	27300	6810	3930	7870	2470	4840	4400	2120
20	33000	8930	3800	3700	33300	7140	3870	8610	2120	4670	3980	2100
21	25000	8410	2660	3500	28800	6850	3370	11200	3320	4440	3500	2560
22	18000	11000	2600	3600	24200	8170	3050	12500	5680	4110	2330	1850
23	15000	11800	3680	3400	36800	11200	3060	11900	5440	3680	2010	1640
24	12800	9800	4670	3300	30100	10600	2770	10800	4810	3440	2560	1930
25	10600	9680	3740	3500	22700	9640	2450	9530	5050	2780	2150	1930
26	9090	8890	2630	4600	19100	9020	3000	8770	4600	1990	2120	1760
27	7450	8610	5190	22700	17700	7970	6790	7700	3550	2300	2600	2410
28	7370	8490	6940	75300	18000	7450	8500	6590	3290	2210	5440	4010
29	6780	9720	6780	55300	17200	9700	8570	5780	3770	2210	4840	4340
30	6200	8370	6450	38900	---	9770	8420	4940	4500	2040	3230	3580
31	5720	---	6630	26300	---	8740	---	4570	---	5190	3200	---
TOTAL	261160	241280	168920	329290	502390	328460	231300	253530	110720	155220	143910	65880
MEAN	8425	8043	5449	10620	17320	10600	7710	8178	3691	5007	4642	2196
MAX	33000	17700	8610	75300	36800	17800	22500	12900	5680	13300	13100	4340
MIN	2900	3410	2600	3000	5850	6810	2450	4570	1880	1990	2010	1500

CAL YR 1975 TOTAL 2975730 MEAN 8153 MAX 62700 MIN 1850
WTR YR 1976 TOTAL 2792060 MEAN 7629 MAX 75300 MIN 1500

DELAWARE RIVER BASIN

01440400 BROADHEAD CREEK NEAR ANALOMINK, PA

LOCATION.--Lat 41°05'05", long 75°12'54", Monroe County, Hydrologic Unit 02040104, on left bank 1.5 mi (2.4 km) upstream from Paradise Creek, 1.6 mi (2.6 km) southeast of Henryville, and 2.3 mi (3.7 km) north of Analomink.

DRAINAGE AREA.--65.9 mi² (170.7 km²).

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

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

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

AVERAGE DISCHARGE.--19 years, 133 ft³/s (3.77 m³/s), 27.45 in/yr (697 mm/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 12,900 ft³/s (365 m³/s) July 28, 1969, gage height, 11.82 ft (3.603 m), from rating curve extended above 1,400 ft³/s (40 m³/s) on basis of slope-area measurement of peak flow; minimum, 5.9 ft³/s (0.17 m³/s) Sept. 8, 1964; minimum gage height, 1.22 ft (0.372 m) Sept. 18, 19, 23, 1964.

EXTREMES FOR CURRENT YEAR.--Peak discharges above base of 1,100 ft³/s (31.2 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	1500	1,240 35.1	4.95 1.509	June 30	2030	1,230 34.8	4.94 1.506
Jan. 27	2000	*2,720 77.0	*6.61 2.015				

Minimum discharge, 20 ft³/s (0.57 m³/s) Sept. 16; minimum gage height, 1.41 ft (0.430 m) Sept. 15.

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	130	119	178	165	337	193	694	190	112	613	69	40
2	116	113	172	142	465	179	557	439	131	365	57	40
3	101	108	156	138	342	183	399	308	107	276	48	41
4	90	104	142	133	291	195	329	252	92	231	43	37
5	82	98	133	127	242	195	277	213	82	215	40	37
6	78	92	128	120	225	179	239	188	83	176	38	34
7	72	89	123	115	200	162	214	173	117	165	57	31
8	66	135	114	110	180	150	191	156	92	154	105	28
9	63	121	114	105	166	141	173	140	77	135	174	26
10	60	168	158	100	155	141	157	129	69	116	246	27
11	135	274	139	97	150	138	151	130	66	109	188	30
12	177	267	122	94	144	132	140	383	57	104	143	26
13	128	549	118	90	140	180	129	234	51	92	111	24
14	108	442	117	96	148	188	121	190	50	90	97	22
15	96	343	112	85	132	164	112	169	51	82	86	21
16	88	292	109	82	161	159	106	158	60	90	84	27
17	83	253	103	79	482	153	100	274	80	100	73	125
18	483	222	96	76	461	137	95	257	64	82	64	73
19	842	200	90	74	505	142	89	305	52	70	57	52
20	756	184	84	72	482	175	84	278	95	62	55	39
21	500	272	78	70	377	179	79	235	560	60	51	34
22	374	310	74	69	494	172	76	207	420	61	49	29
23	309	243	72	67	423	151	74	182	377	58	44	25
24	260	214	70	66	334	143	70	164	356	92	46	23
25	236	195	68	64	302	137	82	150	277	66	42	21
26	212	181	251	369	276	129	253	139	214	56	43	36
27	186	226	242	2330	255	125	165	129	172	49	89	90
28	167	224	183	1430	230	270	131	117	149	47	69	79
29	154	188	155	811	207	214	117	108	237	61	58	57
30	142	171	144	585	---	181	107	114	395	156	50	49
31	127	---	164	375	---	165	---	108	---	90	43	---
TOTAL	6421	6397	4009	8336	8306	5152	5511	6219	4745	4123	2419	1223
MEAN	207	213	129	269	286	166	184	201	158	133	78.0	40.8
MAX	842	549	251	2330	505	270	694	439	560	613	246	125
MIN	60	89	68	64	132	125	70	108	50	47	38	21
CFSM	3.14	3.23	1.96	4.08	4.34	2.52	2.79	3.05	2.40	2.02	1.18	.62
IN.	3.62	3.61	2.26	4.71	4.69	2.91	3.11	3.51	2.68	2.33	1.37	.69

CAL YR	TOTAL	MEAN	MAX	MIN	CFSM	IN
YR 1975	60708	166	1630	19	2.52	34.27
WTR YR 1976	62861	172	2330	21	2.61	35.48

01442500 BRODHEAD CREEK AT MINISINK HILLS, PA

LOCATION.--Lat 40°59'55", long 75°08'35", Monroe County, Hydrologic Unit 02040104, on left bank at Minisink Hills, 500 ft (150 m) upstream from Marshall Creek, 1,500 ft (460 m) downstream from Coates Paper Box Co., 0.8 mi (1.3 km) upstream from mouth, and 3 mi (4.8 km) southeast of East Stroudsburg. Water-quality sampling site 500 ft (150 m) upstream.

DRAINAGE AREA.--259 mi² (671 km²).

WATER-DISCHARGE RECORDS

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

REVISED RECORDS.--WSP 1232: 1951(P).

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

REMARKS.--Records good.

AVERAGE DISCHARGE.--25 years (1951-76), 555 ft³/s (15.7 m³/s), 29.08 in/yr (739 mm/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 68,800 ft³/s (1,950 m³/s) Aug. 19, 1955, gage height, 29.9 ft (9.11 m), site and datum then in use, 27.0 ft (8.23 m), present site and datum, from floodmarks, from rating curve extended above 4,600 ft³/s (130 m³/s) on basis of computation of flow over dam at gage height 14.43 ft (4.398 m) and slope-area measurement at peak flow, site and datum then in use; minimum, 29 ft³/s (0.82 m³/s) Sept. 27, 1964, gage height, 1.12 ft (0.341 m).

EXTREMES FOR CURRENT YEAR.--Peak discharges above base of 4,300 ft³/s (122 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	1600	4,660 132	5.58 1.701	Jan. 28	0245	---	*8.42 2.566
Jan. 27	0145	*10,000 283	---				

Minimum discharge, 92 ft³/s (2.61 m³/s) Sept. 25, 26, gage height, 1.44 ft (0.439 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	512	448	611	759	1490	698	2480	551	436	2030	226	121
2	466	424	604	646	2170	653	1910	1500	604	1070	196	126
3	412	406	558	639	1740	639	1440	918	442	807	182	157
4	372	394	518	646	1060	705	1180	767	378	682	167	132
5	340	372	486	538	900	690	990	668	330	625	151	119
6	335	350	473	460	820	639	858	611	306	538	157	114
7	311	340	454	440	767	577	775	570	412	538	214	112
8	292	518	418	420	705	544	690	512	356	525	512	110
9	283	454	406	400	653	512	625	460	311	448	675	103
10	274	625	544	390	590	512	577	430	279	384	927	110
11	577	963	486	370	611	512	544	406	279	350	590	119
12	783	990	430	360	604	499	512	1210	249	330	436	110
13	532	2600	406	350	584	751	506	735	230	292	330	105
14	460	1960	406	410	611	759	480	618	226	283	274	100
15	418	1470	406	350	544	660	454	564	226	262	241	103
16	384	1200	394	320	639	632	430	525	226	340	230	143
17	362	1010	367	310	1780	632	412	815	362	350	204	577
18	1950	892	350	300	1390	544	384	990	283	274	18	306
19	3170	807	296	290	1480	570	372	990	245	241	170	218
20	2910	728	274	280	1390	639	345	900	257	214	157	157
21	2060	963	270	270	1120	632	316	832	1710	204	151	132
22	1510	1140	260	260	1680	611	283	751	1240	210	145	119
23	1220	858	250	260	1420	551	283	625	1050	210	140	112
24	1120	767	240	260	1130	532	262	570	990	270	134	105
25	909	698	230	260	1040	525	283	518	751	222	132	98
26	824	660	751	2210	963	492	682	499	611	193	132	112
27	712	767	945	8780	892	473	473	466	506	182	222	355
28	632	783	690	6580	815	712	389	418	442	173	173	345
29	570	653	604	2970	743	590	362	384	632	204	154	225
30	538	611	584	1940	---	538	335	406	980	473	14	185
31	480	---	728	1430	---	499	---	394	---	287	126	---
TOTAL	25718	24851	14439	33898	29931	18522	19632	20603	15349	13211	7870	4933
MEAN	830	828	466	1093	1029	597	654	665	512	426	254	164
MAX	3170	2600	945	8780	2170	759	2480	1500	1710	2030	927	577
MIN	274	340	230	260	544	473	262	384	226	173	126	98
CFSM	3.20	3.20	1.80	4.22	3.97	2.31	2.53	2.57	1.99	1.64	.9	.63
IN.	3.69	3.57	2.07	4.87	4.28	2.66	2.82	2.96	2.20	1.90	1.13	.71

CAL YR 1975 TOTAL 242112 MEAN 663 MAX 6470 MIN 116 CFSM 2.56 IN 34.77
WTR YR 1976 TOTAL 228857 MEAN 625 MAX 8780 MIN 98 CFSM 2.41 IN 32.87

DELAWARE RIVER BASIN

01442500 BRODHEAD CREEK AT MINISINK HILLS, PA--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--January 1976 to current year.

COOPERATION.--Water-quality data were furnished by the Pennsylvania Department of Environmental Resources.

WATER QUALITY DATA, JANUARY 1976 TO SEPTEMBER 1976

DATE	TIME	CODE FOR AGENCY COL- LECTING SAMPLE	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)	HARD- NESS (CA, MG) (MG/L)	MINERAL ACIDITY (METHYL ORANGE) AS CAC03 (MG/L)	ACIDITY CO2 AS CAC03 (MG/L)
JAN 22...	1515	9813	512	41	7.7	.0	<1	12.0	15	0	4
FEB 26...	0800	9813	1030	70	6.8	3.0	2	10.1	35	0	0
MAY 12...	1215	9813	1280	70	6.7	13.5	8	10.0	<10	0	0
AUG 10...	1515	9813	1145	90	7.0	20.0	5	11.0	31	--	0

DATE	DIS- SOLVED CAL- CIUM (CA) (MG/L)	DIS- SOLVED MAG- NE- SIUM (MG) (MG/L)	ALKA- LINITY AS CAC03 (MG/L)	DIS- SOLVED SULFATE (SO4) (MG/L)	DIS- SOLVED CHLO- RIDE (CL) (MG/L)	TOTAL FILT- RABLE RESIDUE (MG/L)	TOTAL NITRATE (N) (MG/L)	TOTAL NITRITE (N) (MG/L)	TOTAL AMMONIA NITRO- GEN (N) (MG/L)	TOTAL PHOS- PHORUS (P) (MG/L)	TOTAL IRON (FE) (UG/L)
JAN 22...	2.3	2.0	6	14	6.0	--	1.6	.07	<.02	.05	30
FEB 26...	8.0	3.5	20	8.0	8.0	--	.72	.05	.02	.05	100
MAY 12...	4.0	--	20	16	8.0	--	.62	.05	.03	.09	310
AUG 10...	10	1.2	32	14	12	54	.66	.02	.03	.08	400

DELAWARE RIVER BASIN

45

01446500 DELAWARE RIVER AT BELVIDERE, NJ

LOCATION.--Lat 40°49'36", long 75°05'02", Warren County, Hydrologic Unit 02040105, on left bank at Belvidere, 800 ft (240 m) downstream from Pequest River, and at mile 197.7 (318.1 km).

DRAINAGE AREA.--4,535 mi² (11,746 km²).

PERIOD OF RECORD.--

WATER DISCHARGE: October 1922 to current year.

REVISED DISCHARGE RECORDS.--WSP 781: 1933(M). WSP 951: 1940-41, Drainage area. WSP 1432: 1923, 1924(M).

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

REMARKS.--Discharge records excellent. Diurnal fluctuations at medium and low flow caused by powerplants on tributary streams. Flow regulated by Lake Wallenpaupack, and by Pepacton, Cannonsville, Swinging Bridge, Toronto, Cliff Lake, and Neversink Reservoirs (see Delaware River Basin, reservoirs in) and smaller reservoirs. Diversion from Pepacton, Cannonsville, and Neversink Reservoirs (see Delaware River Basin, diversions).

AVERAGE DISCHARGE.--54 years, 7,900 ft³/s (223.7 m³/s), unadjusted.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 89,000 ft³/s (2,520 m³/s) Jan. 28, gage height, 16.90 ft (5.151 m); minimum, 1,840 ft³/s (52.1 m³/s) Sept. 6, gage height, 3.25 ft (0.991 m).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 273,000 ft³/s (7,730 m³/s) Aug. 19, 1955 (gage height, 30.21 ft or 9.208 m, from high-water mark in gage house), from rating curve extended above 170,000 ft³/s (4,810 m³/s) on basis of flood-routing study; minimum, 609 ft³/s (17.2 m³/s) Sept. 28, 29, 1943, gage height, 2.11 ft (0.643 m).

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood of Oct. 10, 1903, reached a stage of 28.6 ft (8.72 m), from floodmark, discharge, 220,000 ft³/s (6,230 m³/s) from rating curve extended above 170,000 ft³/s (4,810 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	11400	7080	9580	9270	22500	17300	14500	9030	4970	10900	4880	2940
2	9370	6640	10500	7310	23300	16500	27300	13200	5880	15100	3590	2880
3	8350	5540	10500	7320	22000	15300	24400	15200	5410	12700	3900	2830
4	8080	5570	9610	7260	18700	14800	19600	13500	4960	9840	3550	2680
5	6440	5530	8830	5290	16700	15200	16700	12400	4340	8360	3210	2330
6	5480	5440	8120	4930	14600	19100	14700	11300	3640	7350	2980	2040
7	5540	4980	7080	4910	12500	20000	12800	10100	3630	7230	3200	2050
8	4880	5240	6550	6030	10800	16900	11100	9260	4670	6600	4740	2060
9	4470	5190	7200	5140	9860	15400	9890	8100	5130	6950	6780	2310
10	4080	5140	7300	4740	9890	13600	9210	7120	4230	6290	12200	2290
11	4400	7520	7700	4740	9550	12400	8130	6650	3930	5120	15100	2700
12	5700	8270	7260	3860	9990	11600	7450	8210	3840	4260	12100	2540
13	6550	13900	7270	3950	9550	11400	7100	8690	2870	5230	9130	2430
14	6600	22300	6680	7590	9470	12400	6110	7810	2410	5270	7290	2490
15	6410	20800	5580	7540	8560	11300	5790	6930	2650	4680	6410	2450
16	6190	17300	6440	6710	7560	11100	5330	5880	2760	4530	6460	2660
17	5670	14500	6430	6460	13600	10600	5090	5710	3610	4800	6620	3210
18	9370	13200	6340	4880	29400	9560	4960	7290	3400	5200	5770	3380
19	29100	12300	5890	4160	31900	8590	4850	9120	2920	5720	5040	2940
20	44500	11400	4760	4790	37500	9000	4730	9860	2790	5270	4470	2710
21	36800	11300	3890	4680	33700	8540	4200	11900	5340	4870	4030	3040
22	25900	13800	3560	4880	29000	9440	3910	13800	7780	4690	3070	2540
23	19600	14900	3930	4270	40600	12900	3830	13300	7940	4250	2610	2250
24	16100	12500	4540	4090	35600	12200	3570	11900	6830	4050	2860	2340
25	13800	12200	4220	4710	27100	11200	3290	10800	6610	3690	2730	2380
26	12100	11300	4470	5480	22500	10500	4090	9660	5970	2790	2690	2470
27	10100	11100	7460	26500	20700	9410	6830	8560	4760	2700	2930	3220
28	9640	10900	8430	79000	20700	8850	9380	7400	4350	2850	5200	4660
29	8980	12100	8260	60100	20100	10800	9330	6480	4880	2890	5620	5040
30	8310	10600	8040	41000	---	11400	9120	5620	5520	3050	3840	4300
31	7670	---	8640	28500	---	10200	---	5210	---	5090	3530	---
TOTAL	361580	318540	215060	380090	577930	387490	277290	289990	138020	182320	166530	84160
MEAN	11660	10620	6937	12260	19930	12500	9243	9355	4601	5881	5372	2805
MAX	44500	22300	10500	79000	40600	20000	27300	15200	7940	15100	15100	5040
MIN	4080	4980	3560	3860	7560	8540	3290	5210	2410	2700	2610	2040

CAL YR 1975 TOTAL 3656140 MEAN 10020 MAX 66100 MIN 2180
WTR YR 1976 TOTAL 3379000 MEAN 9232 MAX 79000 MIN 2040

DELAWARE RIVER BASIN

01446550 DELAWARE RIVER NEAR MARTINS CREEK, PA (ROXBURG, NJ)

LOCATION.--Lat 40°47'20", long 75°06'59", Northampton County, at Pennsylvania Railroad crossing 900 ft (274 m) upstream from Oughoughton Creek, 4.7 mi (7.5 km) east of Martins Creek.

DRAINAGE AREA.--4,546 mi² (11,774 km²), approximately.

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

REMARKS.--Operated as part of the USGS-EPA surveillance network. Records of discharge are given for 01446500 Delaware River at Belvidere, N.J.

COOPERATION.--Seven water-quality analyses for the 1976 water year were furnished by the Pennsylvania Department of Environmental Resources.

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)	CHEM- ICAL OXYGEN DEMAND (LOW LEVEL) (MG/L)	FECAL COLI- FORM (COL. PER 100 ML)	STREP- TOCOCCI (COL- ONIES PER 100 ML)	DIS- SOLVED SOLIDS (RESI- DUE AT 180 C) (MG/L)
OCT											
10...	0900	4100	192	7.0	20.0	10	7.9	14	31	88	144
22...	1415	25500	145	7.3	19.0	5	8.8	12	420	--	77
NOV											
24...	1500	12400	180	7.3	14.0	3	10.5	14	150	140	118
DEC											
10...	1220	7610	130	7.3	14.0	1	11.5	10	828	210	76
22...	1515	3590	270	7.7	5.0	5	14.8	4	220	290	155
JAN											
05...	1120	4470	130	7.3	16.0	0	13.2	14	30	E16	85
23...	1200	3850	190	6.9	12.5	1	12.2	16	33	E16	119
FEB											
04...	0830	18200	180	7.2	7.0	2	12.8	10	E28	50	82
18...	1515	32800	100	7.1	8.0	10	12.4	15	930	190	61
MAR											
01...	1215	17200	160	7.1	17.0	2	10.8	12	29	46	83
17...	1140	11000	220	7.2	8.0	3	12.9	13	60	--	117
APR											
02...	1530	28800	140	7.3	17.0	2	10.5	16	41	818	64
14...	1100	6290	105	6.8	23.0	1	12.4	12	88	812	78
22...	1345	3880	125	6.8	30.0	1	9.4	35	34	36	78
MAY											
05...	1045	12600	90	7.2	11.0	1	11.3	10	73	E4	38
20...	1135	10000	95	6.8	13.5	2	10.2	13	47	E10	51
JUN											
02...	1215	5950	110	6.8	18.5	3	9.2	16	220	60	79
15...	1140	2420	155	8.0	29.0	1	8.9	10	--	--	89
30...	1100	6910	160	6.9	30.0	1	8.0	12	88	79	100
JUL											
14...	1200	4990	200	6.9	25.5	2	9.2	14	640	H2000	134
28...	1345	2400	135	8.6	30.0	4	8.2	15	32	320	90
AUG											
12...	1000	12800	120	7.0	23.0	3	8.0	15	260	110	60
SEP											
03...	1045	2520	90	7.3	24.5	2	8.4	19	E40	210	62
08...	1100	1940	125	8.0	28.5	1	12.6	<10	70	1120	71
21...	1045	3170	125	7.6	24.5	1	8.4	22	150	1680	74

DELAWARE RIVER BASIN

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01446550 DELAWARE RIVER NEAR MARTINS CREEK, PA--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

DATE	SUS- PENDED SOLIDS (MG/L)	TOTAL NITRITE PLUS NITRATE (N) (MG/L)	TOTAL AMMONIA NITRO- GEN (N) (MG/L)	TOTAL ORGANIC NITRO- GEN (N) (MG/L)	TOTAL KJEL- DAHL- NITRO- GFN (N) (MG/L)	TOTAL NITRO- GEN (N) (MG/L)	TOTAL PHOS- PHORUS (P) (MG/L)	TOTAL ORGANIC CARBON (C) (MG/L)	CHLORO- PHYLL A (UG/L)	CHLORO- PHYLL B (UG/L)
OCT										
10...	--	.71	.48	1.0	1.5	2.2	.02	3.5	.000	.000
22...	25	.31	.02	.30	.32	.63	.05	3.3	.000	.000
NOV										
24...	19	.43	.49	.44	.93	1.4	.06	4.6	.000	.000
DEC										
10...	17	.50	.13	.31	.44	.94	.12	2.3	.000	.000
22...	25	.59	.25	.36	.61	1.2	.06	1.8	.000	.000
JAN										
05...	2	.51	.22	.35	.57	1.1	.04	3.4	.000	.000
23...	--	.74	.11	.37	.48	1.2	.04	5.7	.000	2.60
FEB										
04...	16	1.1	.09	.23	.32	1.4	.06	4.2	.000	.000
18...	117	.52	.25	.50	.75	1.3	.11	6.2	.000	.000
MAR										
01...	20	1.2	.36	.84	1.2	2.4	.05	4.6	.000	.000
17...	14	.71	.21	.43	.64	1.4	.06	3.3	3.40	.000
APR										
02...	11	.37	.01	.54	.55	.92	.04	8.9	.000	.000
14...	5	.38	.13	.62	.75	1.1	.03	5.7	--	--
22...	13	.41	.10	.70	.80	1.2	.05	7.9	5.05	1.18
MAY										
05...	12	.28	.18	.62	.80	1.1	.03	4.6	--	--
20...	7	.28	.14	.39	.53	.81	.04	5.8	.000	.000
JUN										
02...	7	.30	.31	.42	.73	1.0	.06	12	--	--
15...	2	.66	.26	.04	.30	.96	.04	3.3	3.96	.000
30...	61	.36	.12	.23	.35	.71	.17	3.9	3.32	.000
JUL										
14...	46	.37	.06	.19	.25	.62	.30	--	7.23	.641
28...	5	.22	.21	.34	.55	.77	.05	4.6	20.5	17.0
AUG										
12...	19	.36	.14	.44	.58	.94	.06	--	4.72	.000
SEP										
03...	3	.29	.21	.32	.53	.82	.05	--	.000	.000
08...	1	.21	.02	.16	.18	.39	.07	--	.000	.000
21...	5	.25	.04	.14	.18	.43	.03	4.4	2.00	.000

DATE	TIME	BICAR- BONATE (HCO3) (MG/L)	CAR- BONATE (CO3) (MG/L)	ALKA- LINITY AS CACO3 (MG/L)	CARRON DIOXIDE (CO2) (MG/L)	DIS- SOLVED SULFATE (SO4) (MG/L)	DIS- SOLVED CHLO- RIDE (CL) (MG/L)	TOTAL NON- FILT- RABLE RESIDUE (MG/L)
JAN								
23...	1200	42	0	34	8.5	31	9.6	2
APR								
22...	1345	36	0	30	9.1	16	7.5	0
JUL								
14...	1200	48	0	39	9.7	39	4.6	9
SEP								
08...	1100	43	0	35	.7	15	7.0	1

DELAWARE RIVER BASIN

01446550 DELAWARE RIVER NEAR MARTINS CREEK, PA--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

DATE	TIME	CODE FOR AGENCY COL- LECTING SAMPLE	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)	HARD- NESS (CA, MG) (MG/L)	MINERAL ACIDITY (METHYL ORANGE) AS CACO3 (MG/L)	ACIDITY CO2 AS CACO3 (MG/L)
JAN 15...	1130	9813	6660	100	7.1	2.0	3	12.1	62	0	0
FEB 19...	1030	9813	32000	70	6.6	5.0	20	9.0	144	0	0
MAR 16...	1015	9813	11300	90	7.0	6.5	2	11.8	46	0	0
APR 12...	1020	9813	7540	100	7.0	8.0	1	11.3	35	0	0
MAY 13...	0955	9813	9020	90	7.1	14.5	2	8.1	150	--	0
JUN 29...	1005	9813	4380	100	7.8	26.0	11	8.0	48	0	0
JUL 20...	1015	9813	5130	96	7.5	24.5	6	7.3	30	--	0

DATE	DIS- SOLVED CAL- CIUM (CA) (MG/L)	DIS- SOLVED MAG- NE- SIUM (MG) (MG/L)	ALKA- LINITY AS CACO3 (MG/L)	DIS- SOLVED SULFATE (SO4) (MG/L)	DIS- SOLVED CHLO- RIDE (CL) (MG/L)	TOTAL FILT- RABLE RESIDUE (MG/L)	TOTAL NITRATE (N) (MG/L)	TOTAL NITRITE (N) (MG/L)	TOTAL AMMONIA NITRO- GEN (N) (MG/L)	TOTAL PHOS- PHORUS (P) (MG/L)
JAN 15...	11	8.5	34	14	12	118	.98	.03	.04	.09
FEB 19...	8.0	31	16	16	8.0	--	1.0	.04	.08	.08
MAR 16...	8.7	6.0	24	16	8.0	186	1.2	.03	.03	.05
APR 12...	9.5	2.5	26	10	7.0	76	.66	.03	.04	.05
MAY 13...	8.0	32	20	8.0	6.0	70	.62	.03	.05	.08
JUN 29...	11	--	34	12	8.0	82	.62	.04	.04	.07
JUL 20...	9.5	1.5	28	4.0	11	82	.60	.02	.05	.04

DATE	TOTAL CAD- MIUM (CD) (UG/L)	TOTAL CHRO- MIUM (CR) (UG/L)	TOTAL COPPER (CU) (UG/L)	TOTAL IRON (FE) (UG/L)	TOTAL LEAD (PB) (UG/L)	TOTAL MERCURY (HG) (UG/L)	TOTAL ZINC (ZN) (UG/L)	PHENOLS (UG/L)	PHENOLS (DIRECT PHOTO- METRIC) (UG/L)	METHY- LENE BLUE ACTIVE SUB- STANCE (MG/L)
JAN 15...	<3	<10	40	180	<50	<5.0	--	<10	--	.00
FEB 19...	<3	<10	<10	1060	<50	<5.0	--	<1	--	.00
MAR 16...	<3	<10	<10	110	<50	<5.0	--	<10	--	.00
APR 12...	<3	10	<10	90	<50	<5.0	--	--	<10	.00
MAY 13...	<3	<10	<10	180	<3	--	--	--	<10	.00
JUN 29...	<3	<10	<10	430	<50	<5.0	<10	<10	--	.00
JUL 20...	<3	<10	<10	260	<50	<5.0	--	<10	--	.00

DELAWARE RIVER BASIN

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01446600 MARTINS CREEK NEAR EAST BANGOR, PA

LOCATION.--Lat 40°54'00", long 75°12'08", Northampton County, Hydrologic Unit 02040105, at right downstream end of bridge on township road, 100 ft (30 m) downstream from confluence of East Fork and West Fork, 1.8 mi (2.9 km) northwest of East Bangor.

DRAINAGE AREA.--10.4 mi² (26.9 km²).

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

REVISED RECORDS.--WDR PA-67: 1962, 1964(M), 1965, 1966(M). WDR PA-70: 1969(m).

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

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

AVERAGE DISCHARGE.--15 years, 16.4 ft³/s (0.464 m³/s), 21.43 in/yr (544 mm/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 1,620 ft³/s (45.9 m³/s) Apr. 2, 1970, gage height, 3.89 ft (1.186 m), from rating curve extended above 210 ft³/s (5.9 m³/s) on basis of contracted-opening and flow over embankment measurements at gage height 3.87 ft (1.180 m); no flow at times.

EXTREMES FOR CURRENT YEAR.--Peak discharges above base of 135 ft³/s (3.82 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	1530	194 5.49	2.93 0.893	Feb. 2	0330	156 4.42	2.77 0.844
Nov. 13	0730	420 11.9	3.30 1.006	Apr. 1	1315	265 7.50	3.08 0.939
Jan. 27	0015	*1,510 42.8	*3.86 1.177	May 2	0500	161 4.56	2.79 0.850

Minimum discharge, 0.91 ft³/s (0.026 m³/s) Sept. 9, 10, 14, 15, 16, gage height, 1.43 ft (0.436 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	12	19	40	41	18	190	33	4.8	28	1.7	1.2
2	9.9	12	19	26	124	17	91	120	9.7	13	1.4	1.3
3	8.6	11	15	19	74	16	45	40	7.2	6.7	1.2	2.8
4	7.9	11	13	20	29	35	33	22	4.2	9.2	1.1	2.0
5	7.7	10	11	14	24	26	26	15	3.0	4.8	1.0	1.9
6	7.2	9.2	12	9.2	22	22	21	13	2.8	3.0	1.0	1.9
7	6.7	8.4	13	8.2	21	17	20	11	5.1	7.2	5.5	1.4
8	5.9	25	10	12	20	15	17	9.7	3.2	11	18	1.1
9	5.4	26	10	11	18	12	16	8.2	2.3	5.1	35	.91
10	6.0	49	20	8.2	16	14	14	6.7	1.9	2.8	57	.91
11	40	87	17	8.2	17	16	13	5.9	1.5	4.5	32	1.5
12	76	83	13	8.6	21	17	12	15	1.4	4.2	12	1.3
13	36	229	11	8.2	23	54	10	10	1.3	2.8	4.8	1.0
14	18	95	12	39	25	57	9.7	7.2	1.3	2.3	2.8	.91
15	14	49	11	34	22	30	9.2	4.7	2.3	1.9	2.8	.91
16	11	35	11	19	27	24	9.2	7.2	2.0	2.2	34	1.0
17	11	29	10	13	82	29	9.7	8.2	13	2.5	13	7.7
18	140	24	8.5	9.7	57	22	9.2	15	8.2	2.0	4.5	15
19	145	21	6.4	7.3	58	23	8.2	30	4.0	1.5	2.6	4.8
20	102	20	5.5	6.1	45	24	7.2	18	4.0	1.3	2.0	2.8
21	58	37	6.2	6.0	31	21	6.3	10	48	1.3	1.7	2.2
22	38	56	6.3	5.9	75	20	6.7	7.2	48	1.5	1.9	2.0
23	28	31	5.9	5.9	57	16	7.7	4.8	28	2.2	1.5	1.6
24	23	22	5.1	5.8	30	14	5.9	4.2	15	4.5	1.4	1.6
25	22	18	5.9	5.8	25	14	8.2	3.7	7.2	2.0	1.1	1.6
26	22	17	40	223	22	13	18	3.7	4.0	1.4	1.1	1.5
27	18	27	80	880	20	13	13	4.0	2.5	1.3	4.0	6.7
28	16	31	37	266	19	19	8.2	3.2	2.3	1.3	4.2	24
29	15	21	22	71	18	15	6.3	3.0	13	1.9	2.5	14
30	14	17	17	44	---	12	5.1	4.2	13	3.7	1.9	4.8
31	14	---	27	32	---	12	---	4.8	---	2.2	1.3	---
TOTAL	937.3	1122.6	499.8	1866.1	1063	657	655.8	454.6	264.2	139.3	255.9	112.34
MEAN	30.2	37.4	16.1	60.2	36.7	21.2	21.9	14.7	8.81	4.49	8.25	3.74
MAX	145	229	80	880	124	57	190	120	48	28	57	24
MIN	5.4	8.4	5.1	5.8	16	12	5.1	3.0	1.3	1.3	1.0	.91
CFSM	2.90	3.60	1.55	5.79	3.53	2.04	2.11	1.41	.85	.43	.79	.36
IN.	3.35	4.02	1.79	6.67	3.80	2.35	2.35	1.63	.94	.50	.92	.40

CAL YR 1975 TOTAL 9360.20 MEAN 25.6 MAX 585 MIN 1.5 CFSM 2.46 IN 33.48
WTR YR 1976 TOTAL 8027.94 MEAN 21.9 MAX 880 MIN .91 CFSM 2.11 IN 28.71

DELAWARE RIVER BASIN

01446700 DELAWARE RIVER AT EASTON, PA

LOCATION.--Lat 40°42'43", long 75°11'48", Northampton County, Hydrologic Unit 02040105, on right bank 200 ft (61 m) upstream from city of Easton pumping station, 1.2 mi (1.9 km) upstream from Bushkill Creek at Easton.

DRAINAGE AREA.--4,636 mi² (12,007 km²).

WATER-DISCHARGE RECORDS

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

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

REMARKS.--Records good. Diurnal fluctuation at medium and low flow caused by powerplants on tributary streams. Flow regulated by Lake Wallenpaupack (see p. 310) and by Cannonsville, Pepacton, Swinging Bridge, Toronto, Cliff Lake, and Neversink Reservoirs about 100 mi (161 km) upstream (see New York Annual Report) and smaller reservoirs. Diversion from Cannonsville, Pepacton, and Neversink Reservoirs (see New York Annual Report).

AVERAGE DISCHARGE.--9 years, 9,028 ft³/s (255.7 m³/s), unadjusted.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, about 100,000 ft³/s (2,830 m³/s) Dec. 22, 1973; minimum 1,640 ft³/s (46.4 m³/s) Aug. 16, 1971, gage height, 3.87 ft (1.180 m).

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 84,500 ft³/s (2,390 m³/s) Jan. 28, gage height, 23.39 ft (7.129 m); minimum daily, 2,440 ft³/s (69.1 m³/s) Sept. 6.

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	11900	7470	10100	10300	24200	18200	15100	9500	5200	10900	5670	3570
2	9920	7070	10700	8490	26100	17300	27400	13200	6420	15300	4260	3380
3	9000	6080	10900	8110	23000	16600	25400	15300	6220	13500	4220	3300
4	8400	5740	10100	8310	19800	16600	20500	13900	5780	10500	4130	3200
5	7100	5870	9380	6250	17700	16700	17400	12800	5020	9030	3700	3010
6	5800	5840	8640	5510	15500	19000	15400	11700	4380	8080	3540	2440
7	5800	5300	7760	5480	13200	21000	13500	10600	4200	7820	3710	2540
8	5100	5400	7070	6650	11600	17500	11700	9630	5040	7280	5020	2440
9	4600	5400	7510	5750	10500	16000	10900	8560	5830	7480	7400	2730
10	4200	5400	7720	5170	10400	14500	10000	7590	4880	6990	12100	2740
11	4700	7600	8100	5590	10200	13300	9100	7090	4760	5860	15800	2980
12	6000	8400	7810	4500	10700	12200	8200	8010	4500	4850	13200	3180
13	6800	15000	7660	4210	10200	12000	7600	9030	3640	5440	10000	2930
14	6700	22000	7320	8560	10100	13100	7000	8260	2940	5730	8060	2790
15	6500	21000	6240	8360	9410	12100	6410	7400	2900	5250	6950	3030
16	6300	18000	6640	7340	8310	11700	6060	6360	3230	4920	7350	3050
17	5800	15000	7020	7200	13200	11400	5690	5980	4080	5330	7240	3660
18	9600	13500	7070	5580	28000	10300	5550	7230	4050	5390	6440	3850
19	30000	12500	6680	4770	31800	9290	5720	9030	3580	6440	5370	3640
20	43000	11500	5570	5250	36200	9680	5590	10100	3000	5710	4650	3230
21	34000	11500	4760	5240	34400	9230	5060	11600	5800	5320	4250	3430
22	25000	14000	4210	5480	29700	9830	4620	13900	8100	5180	3450	3150
23	20000	15000	4320	4870	38100	13300	4440	13800	8100	4740	2900	2810
24	17000	12800	5070	4570	36400	12900	4280	12400	7170	4530	3400	2660
25	14400	12200	4960	5340	28200	11800	3910	11200	7150	4360	3290	2870
26	12600	11700	5270	7230	23600	11100	4500	10200	6650	3410	3200	3090
27	10500	11400	8190	35500	21600	10100	7600	9140	5390	3020	3360	3640
28	9920	11300	9160	75700	21300	9450	10000	8330	4820	3360	5230	4970
29	9350	12500	9130	59100	21000	11200	9900	7200	5200	3330	6390	5640
30	8750	11300	8860	42200	---	12100	9720	6000	5850	3560	4550	4910
31	8160	---	9280	30600	---	10800	---	5400	---	5180	3910	---
TOTAL	366900	327770	233200	407210	594420	410280	298250	300440	153880	197790	182740	98860
MEAN	11840	10930	7523	13140	20500	13230	9942	9692	5129	6380	5895	3295
MAX	43000	22000	10900	75700	38100	21000	27400	15300	8100	15300	15800	5640
MIN	4200	5300	4210	4210	8310	9230	3910	5400	2900	3020	2900	2440
CFSM	-	-	-	-	-	-	-	-	-	-	-	-
IN.	-	-	-	-	-	-	-	-	-	-	-	-

CAL YR 1975	TOTAL	3859630	MEAN	10570	MAX	69000	MIN	2610	CFSM	-	IN.	-
WTR YR 1976	TOTAL	3571740	MEAN	9759	MAX	75700	MIN	2440	CFSM	-	IN.	-

DELAWARE RIVER BASIN

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01446700 DELAWARE RIVER AT EASTON, PA--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--October 1947 to September 1951, October 1957 to September 1958, October 1963 to September 1964, November 1967 to current year.

PERIOD OF DAILY RECORD.--

SPECIFIC CONDUCTANCE: November 1967 to current year.

pH: November 1967 to current year.

WATER TEMPERATURES: October 1947 to September 1949, October 1957 to September 1958, October 1963 to

September 1964, November 1967 to current year.

DISSOLVED OXYGEN: November 1967 to current year.

EXTREMES FOR PERIOD OF DAILY RECORD.--

SPECIFIC CONDUCTANCE: Maximum, 499 micromhos Nov. 26, 1970; minimum, 40 micromhos Apr. 6, 1970.

pH: Maximum, 9.8 May 16, 1970; minimum, 5.7 May 24, 1970.

WATER TEMPERATURES: Maximum, 30.0°C July 18, 1968, July 28-29, 1970; minimum, freezing point on many days during winter periods.

DISSOLVED OXYGEN: Maximum, 18.1 mg/l Jan. 21, 1975; minimum, 4.8 mg/l July 9, 1975.

SPECIFIC CONDUCTANCE (MICROMHOS/CM AT 25°C), 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	---	---	---	128	120	125	215	207	212	126	119	123
2	---	---	---	129	124	126	217	209	214	135	125	130
3	---	---	---	137	125	130	213	209	211	136	132	134
4	---	---	---	140	136	---	218	210	215	138	131	134
5	---	---	---	---	---	---	221	216	218	147	130	140
6	---	---	---	---	---	---	223	220	222	149	141	145
7	---	---	---	---	---	---	225	222	223	153	143	---
8	---	---	---	---	---	---	228	224	226	166	153	160
9	---	---	---	---	---	---	232	228	229	162	151	157
10	---	---	---	---	---	---	233	233	---	158	148	153
11	---	---	---	---	---	---	---	---	---	154	143	147
12	---	---	---	---	---	---	---	---	---	164	153	159
13	---	---	---	158	155	---	---	---	---	171	164	168
14	---	---	---	160	144	150	---	---	---	173	150	163
15	---	---	---	153	142	146	---	---	---	155	147	150
16	---	---	---	157	150	154	144	132	---	149	131	142
17	---	---	---	162	155	159	135	131	133	135	130	132
18	---	---	---	164	155	160	133	130	131	145	136	142
19	---	---	---	166	161	163	133	129	131	160	144	154
20	---	---	---	174	164	168	141	128	134	153	146	149
21	---	---	---	197	166	173	150	140	145	153	147	149
22	---	---	---	225	192	212	157	150	154	149	145	147
23	---	---	---	219	208	212	157	153	155	146	143	---
24	---	---	---	222	218	220	152	137	144	155	141	147
25	---	---	---	218	200	208	143	130	136	155	136	144
26	---	---	---	205	201	203	166	136	149	148	136	---
27	123	114	119	210	206	209	173	136	160	---	---	---
28	127	120	123	215	208	212	135	121	128	---	---	---
29	127	118	123	213	198	205	124	119	121	---	---	---
30	129	122	125	207	201	204	126	121	124	---	---	---
31	131	124	126	---	---	---	128	120	125	---	---	---
MONTH	---	---	---	---	---	---	233	119	---	173	119	---

DELAWARE RIVER BASIN

01446700 DELAWARE RIVER AT EASTON, PA---Continued

SPECIFIC CONDUCTANCE (MICROMHOS/CM AT 25°C), WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

DAY	FEBRUARY			MARCH			APRIL			MAY		
	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	---	---	---	460	442	---	114	103	110	110	97	101
2	308	303	---	---	---	---	111	96	101	110	101	107
3	311	300	---	---	---	---	104	104	---	101	93	97
4	324	311	318	---	---	---	---	---	---	102	97	99
5	329	321	324	---	---	---	---	---	---	98	92	96
6	333	305	324	---	---	---	---	---	---	100	96	98
7	336	324	331	---	---	---	---	---	---	103	99	101
8	341	326	336	---	---	---	111	100	---	105	102	104
9	347	320	342	---	---	---	114	109	112	107	104	105
10	349	341	346	---	---	---	117	113	115	110	106	108
11	354	344	351	101	98	---	124	100	119	113	108	110
12	356	348	352	103	100	102	125	121	123	116	108	111
13	357	348	353	121	101	113	126	120	125	108	96	---
14	361	354	358	120	112	117	132	127	128	98	95	96
15	373	339	367	118	113	115	131	126	130	103	99	102
16	385	374	381	120	116	118	135	130	132	109	104	107
17	393	374	383	122	118	120	139	135	138	111	109	110
18	374	306	331	123	119	121	138	135	136	111	104	108
19	323	260	292	128	122	125	144	138	140	108	103	105
20	365	193	296	125	118	122	140	139	---	103	98	100
21	329	311	320	125	122	123	145	137	---	100	92	96
22	339	328	333	124	115	120	151	144	147	97	92	95
23	339	315	325	114	99	103	154	146	150	96	91	94
24	328	308	320	111	97	102	151	148	150	96	93	94
25	348	328	340	103	99	101	159	150	155	99	97	98
26	362	350	356	104	100	102	161	156	158	104	98	103
27	382	362	368	108	104	107	155	124	142	105	94	99
28	405	377	393	114	109	112	122	110	114	98	95	96
29	440	405	422	112	98	104	111	99	106	101	99	---
30	---	---	---	98	95	97	101	96	98	---	---	---
31	---	---	---	103	99	101	---	---	---	---	---	---
MONTH	440	193	345	---	---	---	161	96	---	116	91	101
DAY	JUNE			JULY			AUGUST			SEPTEMBER		
	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	---	---	---	117	101	106	114	111	112	133	124	128
2	120	117	---	100	89	93	119	111	115	131	124	126
3	119	117	118	100	96	97	123	111	120	133	124	129
4	118	102	117	100	97	98	120	115	117	135	131	133
5	122	119	122	105	100	103	120	115	118	139	131	134
6	127	122	125	111	105	107	123	115	119	142	139	140
7	129	127	---	115	109	112	131	119	125	142	139	141
8	---	---	---	119	112	114	149	125	136	145	141	143
9	---	---	---	114	105	110	141	117	128	144	140	142
10	122	120	---	108	105	107	123	109	114	143	135	139
11	126	122	124	115	106	112	109	102	106	142	138	140
12	127	124	125	120	111	118	110	104	107	137	133	135
13	138	124	131	117	109	113	117	111	114	136	133	134
14	147	138	142	121	108	115	122	118	120	146	135	140
15	149	145	148	124	118	121	126	117	121	150	146	148
16	147	141	144	131	123	126	140	124	132	162	148	153
17	151	142	146	133	126	128	136	124	129	165	153	157
18	154	151	152	131	117	126	126	123	124	159	150	156
19	155	151	153	116	112	114	127	108	115	150	145	146
20	153	150	151	119	117	118	111	108	109	146	142	144
21	156	146	151	121	114	117	115	111	113	145	149	142
22	151	129	141	117	115	116	120	112	117	184	138	142
23	132	119	125	121	117	120	122	120	---	156	145	149
24	126	119	123	122	117	119	---	---	---	158	146	153
25	121	116	118	123	120	121	---	---	---	154	144	147
26	121	117	119	132	123	127	---	---	---	148	139	142
27	125	118	122	137	132	134	150	137	---	151	141	146
28	126	124	125	135	130	133	141	119	133	152	137	146
29	130	124	---	137	127	132	137	114	122	136	124	129
30	119	110	---	137	127	133	138	120	131	133	123	126
31	---	---	---	139	115	132	133	121	126	---	---	---
MONTH	156	102	---	139	89	117	150	102	120	184	123	141

DELAWARE RIVER BASIN

01446700 DELAWARE RIVER AT EASTON, PA---Continued

PH (UNITS), 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	---	---	---	---	---	---	6.8	6.7	6.7	7.3	7.0	7.2
2	---	---	---	---	---	---	6.8	6.6	6.7	7.5	7.1	7.2
3	6.4	6.3	---	---	---	---	6.8	6.6	6.7	7.2	7.1	7.1
4	6.4	6.3	6.3	---	---	---	6.8	6.6	6.7	7.5	7.1	7.3
5	6.4	6.3	6.3	---	---	---	6.8	6.6	6.7	7.7	7.0	7.3
6	6.3	6.2	6.3	---	---	---	6.9	6.6	6.7	7.8	7.0	7.3
7	6.3	6.2	6.3	---	---	---	6.9	6.6	6.7	7.6	7.2	---
8	6.3	6.1	6.2	---	---	---	6.8	6.7	6.7	7.5	7.1	7.3
9	6.5	6.2	6.3	---	---	---	6.9	6.7	6.8	7.7	7.1	7.3
10	6.5	6.4	6.4	---	---	---	6.7	6.7	---	7.8	7.1	7.4
11	6.5	6.4	6.4	---	---	---	---	---	---	7.4	7.1	7.2
12	6.5	6.4	6.4	---	---	---	---	---	---	7.8	7.1	7.4
13	6.5	6.4	6.4	7.5	7.1	---	---	---	---	8.1	7.2	7.5
14	6.5	6.4	6.5	7.3	7.0	7.1	---	---	---	7.3	7.0	7.1
15	6.5	6.4	6.5	8.1	7.0	7.5	---	---	---	7.2	7.0	7.1
16	6.8	6.4	6.6	8.0	7.0	7.3	7.9	7.4	---	7.3	6.9	7.1
17	6.7	6.6	6.7	7.1	6.9	7.0	8.0	7.2	7.5	7.4	6.9	7.1
18	6.7	6.6	6.6	7.2	6.6	6.9	8.0	7.3	7.5	7.5	6.9	7.1
19	6.7	6.6	6.6	6.7	6.6	6.6	7.9	7.3	7.5	7.6	7.0	7.2
20	6.7	6.6	6.6	6.7	6.6	6.6	7.6	7.2	7.4	7.4	6.9	7.1
21	6.7	6.6	6.6	6.8	6.5	6.6	7.8	7.3	7.5	7.4	6.9	7.1
22	6.7	6.6	---	7.4	6.6	6.9	7.8	7.3	7.5	7.6	6.9	7.2
23	---	---	---	6.7	6.4	6.5	7.9	7.3	7.5	7.7	6.9	---
24	---	---	---	6.5	6.4	6.4	7.8	7.2	7.4	7.6	6.9	7.2
25	---	---	---	6.4	6.3	6.4	7.6	7.1	7.3	7.6	7.0	7.2
26	---	---	---	6.8	6.3	6.6	7.4	7.1	7.3	7.1	7.0	---
27	---	---	---	6.8	6.6	6.7	7.3	7.1	7.2	---	---	---
28	---	---	---	6.8	6.7	6.7	7.3	7.0	7.2	---	---	---
29	---	---	---	6.8	6.6	6.7	7.4	7.0	7.2	---	---	---
30	---	---	---	6.8	6.6	6.7	7.2	7.1	7.1	---	---	---
31	---	---	---	---	---	---	7.3	7.0	7.1	---	---	---
MONTH	---	---	---	---	---	---	8.0	6.6	---	8.1	6.9	---
DAY	FEBRUARY			MARCH			APRIL			MAY		
	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	---	---	---	---	---	---	6.4	6.3	---	6.9	6.7	6.8
2	---	---	---	7.4	7.4	7.4	---	---	---	6.9	6.8	6.8
3	7.5	7.4	---	7.4	7.4	7.4	---	---	---	7.4	6.7	6.8
4	7.5	7.4	---	7.5	7.4	7.5	---	---	---	7.5	6.8	7.1
5	---	---	---	8.5	7.5	8.0	7.5	7.4	---	7.3	6.7	6.9
6	---	---	---	8.1	7.5	7.6	7.9	7.1	7.5	6.9	6.6	6.7
7	---	---	---	7.9	7.5	7.6	8.7	7.1	7.7	6.9	6.7	6.8
8	---	---	---	7.7	7.5	7.5	7.9	7.4	---	6.9	6.6	6.8
9	---	---	---	7.6	7.5	7.5	---	---	---	7.0	6.6	6.8
10	---	---	---	7.6	7.5	7.6	---	---	---	7.1	6.7	6.9
11	---	---	---	7.6	7.3	7.5	---	---	---	7.0	6.7	6.9
12	---	---	---	7.4	7.2	7.3	---	---	---	7.0	6.8	6.9
13	---	---	---	7.9	7.2	7.4	---	---	---	7.1	6.7	---
14	---	---	---	7.2	7.0	7.1	---	---	---	7.0	6.7	6.8
15	---	---	---	6.9	6.8	6.8	---	---	---	7.2	6.7	6.9
16	---	---	---	6.7	6.5	6.6	---	---	---	7.0	6.8	6.9
17	---	---	---	6.4	6.1	6.3	---	---	---	7.2	6.8	6.9
18	---	---	---	6.3	6.1	6.2	---	---	---	7.1	6.8	6.9
19	---	---	---	6.6	6.2	6.4	---	---	---	6.9	6.7	6.8
20	---	---	---	6.5	6.3	6.4	---	---	---	7.8	6.6	7.3
21	---	---	---	6.5	6.3	6.4	8.0	7.1	---	8.5	7.6	7.8
22	---	---	---	6.5	6.3	6.4	7.7	6.8	7.2	7.9	7.7	7.8
23	7.1	7.0	---	6.4	6.2	6.3	7.9	6.7	7.3	7.9	7.7	7.8
24	7.0	6.8	6.9	6.6	6.1	6.4	7.8	6.8	7.2	8.0	7.7	7.9
25	6.9	6.7	6.8	6.7	6.4	6.5	7.0	6.7	6.8	8.0	7.8	7.8
26	6.7	6.6	6.7	6.8	6.5	6.6	7.0	6.7	6.8	7.9	7.7	7.8
27	6.7	6.5	6.6	6.7	6.4	6.6	7.1	6.7	6.8	7.8	6.9	7.3
28	6.7	6.5	6.6	6.9	6.4	6.6	8.0	6.6	7.0	7.4	6.8	7.0
29	---	---	---	6.9	6.4	6.7	8.7	6.7	7.3	7.3	6.9	---
30	---	---	---	6.9	6.4	6.6	7.0	6.7	6.8	---	---	---
31	---	---	---	6.4	6.3	6.4	---	---	---	---	---	---
MONTH	---	---	---	8.5	6.1	6.9	---	---	---	8.5	6.6	7.1

DELAWARE RIVER BASIN

01446700 DELAWARE RIVER AT EASTON, PA---Continued

PH (UNITS), WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

DAY	JUNE			JULY			AUGUST			SEPTEMBER		
	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	---	---	---	7.5	7.0	7.2	8.1	7.0	7.5	8.6	7.3	7.9
2	7.7	7.4	---	7.2	6.9	7.0	8.6	7.3	8.0	7.8	7.3	7.5
3	7.9	7.2	7.5	7.0	6.9	7.0	9.1	7.8	8.5	8.4	7.3	7.8
4	8.0	7.2	7.6	7.0	6.7	6.8	9.1	7.7	8.5	8.4	7.4	7.8
5	8.2	7.2	7.7	6.9	6.7	6.8	9.0	7.8	8.5	8.4	7.4	7.9
6	7.7	7.2	7.4	7.5	6.8	7.1	8.9	7.8	8.4	8.6	7.5	8.1
7	8.1	7.2	---	7.8	7.2	7.5	8.0	7.5	7.6	8.7	7.5	8.1
8	---	---	---	8.0	7.6	7.7	7.7	7.4	7.5	8.7	7.5	8.2
9	---	---	---	8.1	7.5	7.7	7.6	7.4	7.5	8.7	8.0	8.2
10	8.3	7.6	---	8.2	7.3	7.7	7.4	7.2	7.3	8.2	7.7	7.9
11	8.4	7.1	7.8	8.0	7.3	7.6	7.2	7.1	7.2	8.6	7.5	8.0
12	8.3	7.1	7.8	8.1	7.3	7.6	7.2	7.0	7.1	8.6	7.6	8.1
13	8.0	7.0	7.5	7.5	7.1	7.3	7.2	7.0	7.1	8.6	7.6	8.1
14	7.7	6.9	7.3	8.0	7.1	7.5	7.2	7.0	7.1	8.8	7.5	8.1
15	8.1	7.0	7.5	8.0	7.2	7.6	7.3	6.9	7.0	8.5	7.6	8.0
16	8.2	7.1	7.6	8.0	7.4	7.6	7.2	6.8	7.0	7.9	7.6	7.7
17	7.8	7.0	7.3	8.2	7.4	7.8	7.5	6.8	7.1	8.1	7.5	7.8
18	7.4	6.9	7.3	8.4	7.2	7.7	7.8	6.8	7.2	7.9	7.5	7.7
19	7.6	6.7	7.1	8.2	7.2	7.7	8.8	7.0	7.9	8.2	7.5	7.8
20	7.3	6.6	6.9	8.4	7.2	7.8	9.0	7.6	8.3	8.2	7.5	7.8
21	6.9	6.6	6.7	7.7	7.2	7.5	9.0	7.7	8.4	8.0	7.5	7.7
22	6.7	6.5	6.6	7.6	6.8	7.2	8.7	7.7	8.3	8.2	7.5	7.8
23	7.2	6.4	6.8	7.0	6.6	6.7	8.6	7.4	---	8.4	7.6	7.9
24	7.3	7.0	7.1	7.4	6.6	7.0	---	---	---	8.5	7.6	8.1
25	7.2	6.9	7.0	7.6	6.5	7.0	---	---	---	8.6	7.7	8.1
26	7.5	6.8	7.1	7.7	6.5	7.1	---	---	---	8.0	7.6	7.7
27	7.5	6.6	7.0	7.8	6.6	7.3	8.3	7.6	---	7.7	7.5	7.6
28	7.8	6.6	7.2	8.0	6.7	7.4	8.2	7.4	7.7	8.0	7.5	7.7
29	7.7	6.7	---	7.5	6.6	7.0	7.9	7.3	7.5	8.0	7.5	7.7
30	7.9	7.5	---	7.6	6.3	7.0	8.2	7.2	7.6	7.6	7.4	7.5
31	---	---	---	7.8	6.9	7.3	8.5	7.3	7.8	---	---	---
MONTH	8.4	6.4	---	8.4	6.3	7.3	9.1	6.8	7.7	8.8	7.3	7.9

TEMPERATURE (°C) OF WATER, 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	---	---	---	8.0	6.5	7.0	10.0	9.5	10.0	3.5	2.0	3.0
2	---	---	---	8.5	6.0	7.5	9.5	8.0	9.0	3.0	1.5	2.0
3	18.0	18.0	---	9.5	7.0	8.5	8.0	7.0	7.5	3.0	2.0	3.0
4	18.5	18.0	18.0	10.0	9.5	---	6.5	6.5	6.5	2.0	1.5	2.0
5	18.5	18.0	18.5	---	---	---	6.5	6.0	6.5	1.5	0.5	1.0
6	19.0	18.5	18.5	---	---	---	7.0	6.0	6.5	1.5	0.0	1.0
7	19.0	18.5	19.0	---	---	---	7.0	6.0	6.5	3.0	1.0	---
8	19.5	18.5	19.0	---	---	---	6.0	5.5	6.0	3.0	1.0	2.5
9	19.5	19.0	19.5	---	---	---	6.5	6.0	6.0	1.0	0.0	0.5
10	20.0	19.5	19.5	---	---	---	6.5	6.5	---	1.0	0.0	0.5
11	20.5	20.0	20.0	---	---	---	---	---	---	1.5	1.0	1.5
12	20.0	19.0	19.5	---	---	---	---	---	---	3.5	1.5	2.5
13	20.0	19.0	19.5	10.5	10.0	---	---	---	---	4.0	1.5	2.5
14	21.0	19.5	20.0	10.0	8.0	9.0	---	---	---	4.0	0.5	2.5
15	19.5	19.0	19.0	8.0	6.5	7.0	---	---	---	1.5	0.5	1.0
16	20.0	19.5	19.5	7.0	6.0	6.5	6.5	5.0	---	1.5	0.5	1.0
17	21.0	20.0	20.5	7.0	5.5	6.0	5.0	4.0	4.5	1.0	0.0	---
18	21.5	17.0	19.0	8.5	6.0	7.0	4.0	1.5	3.5	---	---	---
19	17.0	12.0	14.5	10.0	8.5	9.0	---	---	---	---	---	---
20	13.5	10.5	12.0	10.5	9.5	10.0	---	---	---	---	---	---
21	12.0	10.5	11.0	11.0	10.0	10.5	---	---	---	---	---	---
22	12.0	12.0	---	10.5	9.5	10.0	2.0	1.5	---	---	---	---
23	---	---	---	9.5	8.5	9.0	3.0	1.5	2.0	1.0	0.5	---
24	14.0	13.5	---	9.0	8.0	8.5	1.5	0.5	1.5	2.0	1.0	1.5
25	14.5	14.0	14.5	8.0	7.0	8.0	1.5	0.5	1.0	3.5	1.5	2.5
26	15.0	14.0	14.5	8.5	7.0	7.5	3.5	1.0	2.5	4.0	3.5	4.0
27	14.0	13.0	13.5	8.5	8.0	8.0	3.5	3.0	3.0	4.0	3.5	---
28	14.0	13.0	13.5	8.5	8.0	8.0	2.0	1.5	2.0	---	---	---
29	14.0	13.0	13.5	8.0	7.0	8.0	2.0	1.0	1.5	6.0	5.0	---
30	13.5	10.0	12.0	9.5	8.0	8.5	3.0	1.5	2.0	6.0	5.0	6.0
31	10.0	8.0	9.0	---	---	---	3.5	3.0	3.5	5.5	4.5	5.0
MONTH	21.5	8.0	16.5	---	---	---	---	---	---	6.0	0.0	---

DELAWARE RIVER BASIN

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01446700 DELAWARE RIVER AT EASTON, PA---Continued

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

DAY	FEBRUARY			MARCH			APRIL			MAY		
	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	6.0	5.0	5.5	11.5	10.5	---	12.0	11.0	11.5	11.5	10.5	11.0
2	5.0	4.5	4.5	11.0	10.5	11.0	11.0	9.0	10.0	14.0	11.0	12.5
3	5.0	4.5	---	11.5	11.0	11.0	10.0	8.0	9.0	13.5	12.0	13.0
4	6.5	5.0	5.5	14.0	12.0	12.5	8.5	7.0	8.0	13.0	11.0	11.5
5	6.0	5.5	5.5	14.5	14.0	---	9.5	6.0	8.0	13.5	10.5	12.0
6	6.0	5.5	5.5	---	---	---	10.0	8.0	9.0	14.5	12.0	13.5
7	6.5	5.0	5.5	---	---	---	12.0	8.5	10.5	16.0	14.0	15.0
8	7.0	5.5	6.0	---	---	---	12.0	10.5	11.0	16.0	14.0	15.0
9	6.5	5.5	6.0	---	---	---	13.0	10.0	11.5	16.5	14.5	15.5
10	6.0	5.0	5.5	---	---	---	14.0	10.5	12.0	18.0	14.5	16.5
11	7.0	6.0	6.5	13.0	11.5	---	13.5	11.0	12.5	18.5	16.5	17.5
12	7.0	6.0	6.5	11.5	10.5	11.5	11.5	9.0	10.0	19.0	16.5	17.5
13	8.0	6.5	7.5	13.0	11.5	---	13.0	9.0	---	17.0	15.0	---
14	8.5	7.0	7.5	---	---	---	14.5	10.5	12.5	16.0	14.5	15.5
15	8.5	7.0	7.5	---	---	---	16.5	12.0	14.5	18.5	15.5	17.0
16	10.0	8.0	9.0	---	---	---	18.0	15.0	16.5	18.0	17.0	17.5
17	10.5	9.0	10.0	5.0	3.0	---	18.5	16.5	---	20.0	18.0	19.0
18	9.5	7.0	7.5	4.5	1.5	3.5	---	---	---	20.5	18.0	19.5
19	8.0	6.0	7.0	8.0	4.0	6.0	---	---	---	18.0	14.0	15.5
20	9.0	5.0	7.5	11.5	6.5	10.0	---	---	---	14.5	13.0	14.0
21	9.0	7.0	8.0	15.0	11.5	13.5	20.5	19.0	---	15.5	13.5	14.5
22	10.0	9.0	9.5	13.5	11.0	12.5	20.0	18.5	19.0	15.0	13.5	14.0
23	9.0	7.0	8.0	13.0	10.5	11.5	19.5	16.5	18.0	15.0	13.0	14.0
24	8.5	6.5	7.5	11.5	9.5	10.5	18.0	15.5	16.5	15.0	13.0	14.0
25	10.0	8.0	9.0	12.0	9.5	10.5	16.0	13.0	14.0	14.5	13.5	13.5
26	11.0	9.5	10.0	14.0	10.5	12.0	12.0	9.0	10.5	13.5	12.0	13.0
27	12.0	10.0	11.0	15.5	12.0	14.0	9.5	8.0	8.5	15.5	12.0	14.0
28	13.0	11.0	11.5	16.5	14.5	15.5	9.5	7.0	8.5	17.0	14.5	16.0
29	11.5	11.0	---	15.5	14.5	15.0	11.0	8.5	10.0	18.0	16.5	---
30	---	---	---	15.5	13.5	14.5	12.0	9.5	11.0	---	---	---
31	---	---	---	14.0	11.5	12.5	---	---	---	---	---	---
MONTH	13.0	4.5	7.5	---	---	---	20.5	6.0	12.0	20.5	10.5	15.0
DAY	JUNE			JULY			AUGUST			SEPTEMBER		
	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	---	---	---	23.5	20.5	21.5	24.0	23.0	23.5	23.5	21.5	22.5
2	18.5	18.0	---	21.5	20.0	20.5	23.5	21.0	22.5	23.5	21.5	22.5
3	19.5	16.5	18.0	21.0	20.0	20.5	24.0	21.0	22.5	23.0	21.0	22.0
4	21.0	18.0	19.5	21.0	19.5	20.0	24.5	21.0	22.5	21.5	21.0	21.0
5	21.5	18.5	20.0	21.5	19.5	20.5	24.0	21.5	23.0	23.0	21.0	21.5
6	19.5	18.0	18.5	23.5	20.5	22.0	24.5	23.0	24.0	22.0	20.5	21.5
7	20.0	17.0	---	23.0	21.5	22.0	24.0	21.5	22.5	23.0	20.5	22.0
8	---	---	---	24.0	21.0	22.5	21.5	20.5	21.0	24.0	21.5	23.0
9	---	---	---	24.5	22.0	23.5	20.5	19.5	20.0	24.5	23.0	24.0
10	24.5	22.0	---	25.0	22.0	24.0	19.5	19.0	19.5	23.5	21.5	23.0
11	25.5	23.0	24.0	25.5	23.0	24.5	21.0	19.0	20.0	21.5	21.0	21.5
12	25.5	23.5	24.5	25.0	23.5	24.5	21.5	20.5	21.0	21.5	20.5	21.0
13	24.0	20.5	21.5	23.5	21.0	22.0	23.5	21.0	22.5	23.0	21.0	21.5
14	20.5	19.5	20.0	23.0	20.5	21.5	24.5	22.0	23.5	24.0	21.5	22.5
15	24.0	20.0	22.0	23.0	20.0	21.5	25.0	23.5	24.0	23.0	22.0	23.0
16	24.5	23.0	24.0	23.5	21.0	22.0	24.0	22.0	23.5	22.0	22.0	22.0
17	25.0	23.5	24.5	24.0	21.5	22.5	24.5	21.5	23.0	23.0	21.5	22.5
18	26.0	24.0	25.0	24.5	21.0	22.5	24.0	21.5	23.0	23.0	21.0	21.5
19	26.5	25.0	25.5	24.5	21.0	23.0	24.5	21.0	22.5	22.0	20.5	21.0
20	27.0	25.5	26.0	25.5	23.0	24.0	25.0	21.0	23.0	21.5	20.5	21.0
21	26.0	24.0	25.5	25.0	24.0	24.5	25.5	22.0	24.5	21.5	20.5	21.0
22	24.0	23.0	23.5	25.5	23.5	24.5	27.0	24.0	25.5	20.0	19.0	19.5
23	25.0	22.0	23.5	24.5	23.0	23.5	26.5	25.0	---	19.5	18.5	19.0
24	26.0	24.0	25.0	24.5	21.5	23.0	---	---	---	19.5	18.5	19.0
25	26.0	24.0	25.0	24.5	22.0	23.5	---	---	---	19.0	18.0	18.5
26	28.0	25.0	26.0	24.5	21.0	23.0	---	---	---	18.5	18.0	18.0
27	28.0	24.5	26.5	24.5	22.0	23.5	26.0	25.0	---	18.5	18.0	18.0
28	28.5	25.0	27.0	26.0	23.5	25.0	25.5	25.0	25.0	18.0	16.5	17.5
29	28.0	25.5	---	25.0	23.5	24.0	25.5	24.5	25.0	17.0	15.5	16.5
30	25.0	23.5	---	25.5	23.5	24.5	24.5	23.5	24.0	16.0	15.5	15.5
31	---	---	---	25.0	24.0	24.5	23.5	21.5	23.0	---	---	---
MONTH	28.5	16.5	---	26.0	19.5	23.0	27.0	19.0	23.0	24.5	15.5	21.0

DELAWARE RIVER BASIN

01446700 DELAWARE RIVER AT EASTON, PA---Continued

DISSOLVED OXYGEN (DO), MG/L, 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				---	---	---	12.1	11.5	11.8	---	---	---
2				---	---	---	12.1	11.7	11.9	---	---	---
3				---	---	---	12.4	12.0	12.2	---	---	---
4				---	---	---	12.5	12.1	12.3	---	---	---
5				---	---	---	12.5	11.6	12.2	---	---	---
6				---	---	---	12.1	10.8	11.4	---	---	---
7				---	---	---	11.2	10.8	11.1	15.7	15.0	---
8				---	---	---	11.0	10.4	10.8	---	---	---
9				---	---	---	10.8	9.6	10.3	---	---	---
10				---	---	---	9.5	8.9	---	---	---	---
11				---	---	---	---	---	---	---	---	---
12				---	---	---	---	---	---	---	---	---
13				---	---	---	---	---	---	---	---	---
14				---	---	---	---	---	---	---	---	---
15				---	---	---	---	---	---	---	---	---
16				---	---	---	13.9	13.2	---	15.0	14.3	---
17				---	---	---	---	---	---	15.1	13.8	14.5
18				---	---	---	---	---	---	14.8	13.0	---
19				---	---	---	---	---	---	---	---	---
20				---	---	---	---	---	---	---	---	---
21				---	---	---	---	---	---	---	---	---
22				---	---	---	17.3	16.6	---	---	---	---
23				---	---	---	---	---	---	---	---	---
24				---	---	---	---	---	---	---	---	---
25				---	---	---	---	---	---	---	---	---
26				12.8	11.5	---	---	---	---	---	---	---
27				12.8	11.5	12.3	---	---	---	---	---	---
28				12.6	11.0	11.5	---	---	---	---	---	---
29				12.4	11.0	11.7	15.2	14.4	---	15.5	14.5	---
30				12.4	11.9	12.2	14.7	13.4	14.1	14.9	14.2	14.4
31				---	---	---	13.5	12.7	13.2	14.6	13.9	14.2
MONTH				---	---	---	---	---	---	---	---	---

DAY	FEBRUARY			MARCH			APRIL			MAY		
	MAX	MIN	MEAN	MAX	MTN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	14.3	13.9	---	10.0	9.4	---	11.0	9.9	10.5	10.4	9.8	10.2
2	---	---	---	9.4	9.0	9.3	11.2	10.5	10.9	9.9	9.6	9.8
3	15.3	14.8	---	9.2	8.8	9.1	11.6	10.5	---	9.6	8.9	9.4
4	15.9	14.0	14.7	9.5	8.4	9.0	---	---	---	10.1	7.8	9.3
5	16.3	15.6	16.0	9.2	8.1	8.8	---	---	---	11.2	10.1	10.7
6	15.9	14.2	15.1	9.6	9.0	9.4	---	---	---	10.7	10.1	10.4
7	15.3	14.4	14.8	11.3	9.2	9.9	---	---	---	10.1	9.6	9.9
8	14.9	14.4	14.6	11.6	11.0	11.3	11.8	11.1	---	10.1	9.5	9.8
9	14.3	12.9	13.6	11.8	11.4	11.6	12.9	11.6	12.4	10.1	9.6	9.8
10	13.3	12.5	12.8	11.7	10.9	11.4	12.9	12.2	12.5	10.1	9.4	9.7
11	13.5	12.7	13.2	11.2	10.6	---	12.6	11.6	12.1	9.6	9.0	9.3
12	13.1	12.4	12.7	---	---	---	13.6	12.3	13.2	9.6	8.9	9.2
13	12.6	12.3	12.4	---	---	---	13.5	12.7	13.2	10.5	9.1	---
14	12.9	12.0	12.4	---	---	---	12.9	11.3	12.4	10.1	8.2	9.7
15	11.8	11.4	11.6	---	---	---	12.4	11.1	11.8	10.2	7.5	9.3
16	12.7	10.9	11.6	---	---	---	12.1	10.6	11.4	9.4	8.9	9.1
17	13.3	12.6	12.9	---	---	---	11.3	10.0	---	9.5	8.7	9.0
18	13.4	11.5	12.5	---	---	---	9.5	8.0	---	---	---	---
19	11.9	10.6	11.2	13.6	13.3	---	10.4	7.5	8.9	---	---	---
20	11.8	9.2	10.4	13.4	11.3	12.4	8.4	7.4	---	10.5	10.0	---
21	10.0	9.3	9.6	11.3	10.0	10.6	10.1	7.5	---	10.3	9.9	10.1
22	---	---	---	10.4	9.5	9.9	9.4	7.2	8.1	10.4	9.8	10.1
23	11.7	11.5	---	10.3	9.4	10.0	10.2	7.3	8.7	10.2	8.6	9.4
24	11.7	11.0	---	11.8	10.0	11.1	10.1	7.5	8.6	10.6	10.0	10.3
25	---	---	---	11.7	11.0	11.5	8.8	7.4	8.1	10.3	9.6	10.0
26	---	---	---	11.3	10.6	10.9	9.4	7.8	8.7	10.5	9.6	10.1
27	---	---	---	10.7	10.0	10.4	10.5	9.0	9.9	10.6	9.8	10.1
28	---	---	---	10.6	9.4	10.0	11.0	10.2	10.6	10.6	9.7	10.2
29	---	---	---	10.2	8.8	9.5	11.1	10.4	10.7	9.9	9.3	---
30	---	---	---	10.3	8.9	9.6	10.9	10.3	10.6	---	---	---
31	---	---	---	10.6	9.4	9.8	---	---	---	---	---	---
MONTH	---	---	---	---	---	---	13.6	7.2	---	11.2	7.5	---

DELAWARE RIVER BASIN

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01446700 DELAWARE RIVER AT EASTON, PA---Continued

DISSOLVED OXYGEN (DO), MG/L, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

DAY	JUNE			JULY			AUGUST			SEPTEMBER		
	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	---	---	---	8.4	7.5	7.9	10.1	8.4	9.2	---	---	---
2	9.5	9.0	---	8.6	7.6	8.3	10.9	8.5	9.6	---	---	---
3	10.0	8.8	9.4	8.4	5.9	7.1	9.3	7.8	8.6	---	---	---
4	10.2	8.8	9.4	9.0	8.4	8.7	9.5	7.2	8.3	---	---	---
5	10.3	8.7	9.5	9.4	8.6	8.9	9.2	7.0	8.1	---	---	---
6	9.9	8.5	9.2	9.6	8.4	9.0	8.5	6.7	7.5	---	---	---
7	10.5	8.7	---	8.7	8.1	8.4	7.0	6.4	6.7	---	---	---
8	---	---	---	9.9	7.7	8.9	6.9	6.5	6.7	---	---	---
9	---	---	---	10.1	7.7	9.0	7.2	6.8	7.0	---	---	---
10	9.5	7.8	---	8.5	7.0	7.8	7.5	7.1	7.3	---	---	---
11	9.7	7.1	8.3	7.5	6.7	7.1	7.7	7.5	7.6	---	---	---
12	9.5	6.9	8.2	7.9	6.1	7.1	8.1	6.6	7.7	---	---	---
13	9.3	7.0	8.2	7.9	7.2	7.5	8.1	7.5	7.8	---	---	---
14	8.9	7.4	8.1	9.6	7.3	8.6	8.2	7.4	7.7	10.0	8.5	---
15	9.7	7.8	8.7	10.1	8.6	9.3	8.2	7.2	7.7	9.5	7.9	8.6
16	9.7	7.3	8.4	9.6	8.6	9.0	8.4	7.3	7.8	8.7	7.7	8.2
17	8.9	6.9	7.8	10.1	8.3	9.2	8.9	7.5	8.2	9.1	7.8	8.4
18	9.0	6.9	7.9	10.4	8.4	9.4	9.1	7.6	8.3	9.1	7.9	8.4
19	8.5	6.6	7.5	10.1	8.6	9.4	9.7	7.6	8.7	9.4	8.0	8.6
20	8.1	6.4	7.2	10.4	8.3	9.3	9.9	8.0	8.8	9.2	7.9	8.3
21	7.3	6.2	6.7	9.3	8.0	8.6	9.9	7.7	8.8	8.6	7.4	8.0
22	7.2	6.6	6.9	10.3	7.9	9.0	9.3	7.2	---	9.0	7.7	8.4
23	7.4	6.7	7.0	8.6	7.7	8.2	---	---	---	10.3	8.8	9.6
24	7.4	6.7	7.1	9.8	7.8	8.8	---	---	---	10.6	9.0	9.8
25	7.3	6.6	6.9	10.5	7.8	9.1	---	---	---	10.8	9.2	10.0
26	7.8	6.5	7.1	10.6	7.8	9.0	---	---	---	9.8	9.2	9.5
27	7.8	6.3	7.1	10.6	7.3	9.0	8.5	7.5	---	9.8	9.1	9.4
28	8.2	6.2	7.2	11.1	7.1	9.2	---	---	---	10.3	9.1	9.7
29	7.8	6.0	---	9.9	7.1	8.5	---	---	---	10.6	9.5	10.0
30	8.7	7.7	---	10.9	7.9	9.2	---	---	---	11.0	10.0	10.6
31	---	---	---	10.2	7.9	8.9	---	---	---	---	---	---
MONTH	10.5	6.0	---	11.1	5.9	8.6	---	---	---	---	---	---

DELAWARE RIVER BASIN

01446990 BUSHKILL CREEK AT EASTON, PA

LOCATION.--Lat 40°41'40", long 75°12'48", Northampton County, Hydrologic Unit 02040105, at bridge on U.S. Route 22 in Easton, 0.5 mi (0.8 km) upstream from Delaware River.

DRAINAGE AREA.--not available

PERIOD OF RECORD.--October 1975 to current year.

COOPERATION.--Water-quality data were furnished by the Pennsylvania Department of Environmental Resources.

WATER QUALITY DATA. WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

DATE	TIME	CODE FOR AGENCY COL- LECTING SAMPLE	SPE- CIFIC CON- DUCT- ANCE (MICRO- MHOS)	PH (UNITS)	TEMPER- ATURE (DEG C)	TUR- BID- ITY (JTU)	DIS- SOLVED OXYGEN (MG/L)	HARD- NESS (CA.MG) (MG/L)	MINERAL ACIDITY (METHYL ORANGE) AS CACO3 (MG/L)	ACIDITY CO2 AS CACO3 (MG/L)	DIS- SOLVED CAL- CIUM (CA) (MG/L)	DIS- SOLVED MAG- NE- SIUM (MG) (MG/L)
OCT 16...	1010	9813	310	--	14.0	3	10.5	246	0	0	58	35
NOV 18...	1155	9813	240	7.7	9.0	<1	11.1	138	--	--	76	11
DEC 22...	1045	9813	330	--	3.0	1	6.6	234	--	0	50	27
JAN 15...	1040	9813	240	7.7	2.5	12	13.0	102	0	0	36	2.5
FEB 19...	1120	9813	230	7.6	6.0	35	11.8	96	0	0	34	2.5
MAR 16...	1105	9813	330	8.5	6.0	2	10.3	180	0	0	40	19
APR 12...	1115	9813	310	8.5	7.5	2	11.5	224	0	0	46	28
MAY 13...	1100	9813	480	8.3	13.0	2	11.0	200	--	0	54	16
JUN 29...	1045	9813	500	8.5	20.0	17	8.2	252	0	0	58	26
JUL 20...	1100	9813	520	8.5	20.0	3	9.0	180	0	0	59	8.0
AUG 17...	1255	9813	440	6.6	18.0	1	10.7	240	--	0	56	25

DATE	ALKA- LINITY AS CACO3 (MG/L)	DIS- SOLVED SULFATE (SO4) (MG/L)	DIS- SOLVED CHLO- RIDE (CL) (MG/L)	TOTAL FILT- RABLE RESIDUE (MG/L)	TOTAL NITRATE (N) (MG/L)	TOTAL NITRITE (N) (MG/L)	TOTAL AMMONIA NITRO- GEN (N) (MG/L)	TOTAL PHOS- PHORUS (P) (MG/L)	TOTAL IRON (FE) (UG/L)	TOTAL MAN- GANESE (MN) (UG/L)	TOTAL ORGANIC CARBON (C) (MG/L)
OCT 16...	144	46	15	354	4.3	.05	.08	.06	180	--	2.0
NOV 18...	94	56	12	214	3.7	.05	.05	.07	350	20	1.0
DEC 22...	142	66	13	310	3.5	.05	.07	.14	250	--	--
JAN 15...	76	56	19	252	2.3	.04	.19	.15	600	--	--
FEB 19...	78	58	17	--	2.1	.05	.22	.13	1400	60	--
MAR 16...	94	62	14	338	4.1	.07	.05	.11	110	--	--
APR 12...	118	58	13	258	3.3	.03	.04	.06	170	--	--
MAY 13...	114	80	14	372	3.2	.04	.06	.06	170	60	--
JUN 29...	140	88	16	234	4.3	.05	.07	.08	1130	--	--
JUL 20...	146	120	20	418	3.9	.05	.14	.06	320	--	--
AUG 17...	140	84	16	400	4.1	.03	.04	.05	150	10	--

DELAWARE RIVER BASIN

59

01447500 LEHIGH RIVER AT STODDARTSVILLE, PA

LOCATION.--Lat 41°07'49", long 75°37'33", Monroe County, Hydrologic Unit 02040106, on left bank 75 ft (23 m) upstream from bridge on State Highway 115, at Stoddartsville, 1.9 mi (3.1 km) upstream from Tobyhanna Creek, and 4 mi (6 km) southwest of Thornhurst. Water-quality sampling site at bridge 75 ft (23 m) downstream.

DRAINAGE AREA.--91.7 mi² (237.5 km²).

WATER-DISCHARGE RECORDS

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

REVISED RECORDS.--WSP 1382: 1947, 1951.

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

REMARKS.--Records fair.

AVERAGE DISCHARGE.--33 years, 185 ft³/s (5.24 m³/s), 27.44 in/year (697 mm/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 31,900 ft³/s (903 m³/s) Aug. 19, 1955, gage height, 16.37 ft (4.990 m), from floodmarks, from rating curve extended above 1,700 ft³/s (48 m³/s) on basis of slope-area measurement of peak flow; minimum observed, 7.0 ft³/s (0.20 m³/s) Sept. 26, 27, 1964, gage height, 0.22 ft (0.067 m).

EXTREMES OUTSIDE OF PERIOD OF RECORD.--Flood of May 22, 1942 reached a stage of 12.03 ft (3.667 m), from floodmark, present site and datum, discharge, 15,700 ft³/s (445 m³/s).

EXTREMES FOR CURRENT YEAR.--Peak discharges above base of 1,300 ft³/s (36.8 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	1800	1,560 44.2	4.03 1.228	Jan. 27	1700	*2,420 68.5	*5.21 1.588

Minimum discharge, 34 ft³/s (0.96 m³/s) Sept. 9, 15, gage height, 0.54 ft (0.165 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	190	163	203	170	370	243	522	177	136	655	94	40
2	167	156	195	144	460	224	544	342	207	391	85	41
3	148	150	172	135	447	240	427	267	158	248	80	43
4	134	145	157	130	347	256	346	224	130	233	69	40
5	126	139	147	117	282	262	293	193	112	240	61	40
6	119	131	142	112	249	237	258	172	114	186	58	38
7	111	126	139	121	233	206	238	165	231	161	80	37
8	104	184	128	110	221	186	216	154	175	167	192	36
9	100	182	126	102	192	175	197	141	134	143	247	36
10	98	194	157	101	186	172	180	132	113	121	416	41
11	184	268	147	100	178	170	172	126	99	129	313	53
12	295	296	130	100	172	159	164	137	88	125	183	43
13	217	801	121	128	167	200	155	127	80	125	139	38
14	177	651	121	154	175	230	145	118	76	144	121	37
15	153	465	119	135	159	195	138	116	81	128	115	36
16	136	358	119	123	175	181	132	131	84	160	128	55
17	130	300	108	108	628	172	132	276	114	192	106	209
18	563	256	102	91	719	159	126	233	95	140	91	149
19	1190	224	91	85	760	159	119	312	83	114	77	102
20	1120	206	93	80	719	197	113	309	83	98	68	77
21	740	303	96	78	535	203	107	253	205	92	62	70
22	529	420	98	76	618	224	104	223	227	98	57	57
23	410	307	98	74	585	181	103	188	171	96	53	48
24	339	256	91	74	429	162	97	165	129	137	50	41
25	303	224	98	112	370	152	116	152	115	105	49	38
26	275	212	243	336	339	147	357	147	97	86	48	53
27	244	249	336	1970	321	152	261	141	82	75	60	157
28	221	272	206	1530	293	374	202	128	76	71	57	139
29	205	224	162	863	259	276	177	118	156	89	52	100
30	190	197	137	567	---	227	155	125	288	155	44	89
31	176	---	175	438	---	200	---	122	---	119	41	---
TOTAL	9094	8059	4457	8464	10588	6321	6296	5614	3939	5023	3296	1983
MEAN	293	269	144	273	365	204	210	181	131	162	106	66.1
MAX	1190	801	336	1970	760	374	544	342	288	655	416	209
MIN	98	126	91	74	159	147	97	116	76	71	41	36
CFSM	3.20	2.93	1.57	2.98	3.98	2.22	2.29	1.97	1.43	1.77	1.16	.72
IN.	3.69	3.27	1.81	3.43	4.30	2.56	2.55	2.28	1.60	2.04	1.34	.80

CAL YR 1975	TOTAL	83468	MEAN	229	MAX	1920	MIN	40	CFSM	2.50	IN	33.86
WTR YR 1976	TOTAL	73134	MEAN	200	MAX	1970	MIN	36	CFSM	2.18	IN	29.67

DELAWARE RIVER BASIN

01447500 LEHIGH RIVER AT STODDARTSVILLE, PA--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--January 1976 to current year.

COOPERATION.--Water-quality data were furnished by the Pennsylvania Department of Environmental Resources.

WATER QUALITY DATA, JANUARY TO SEPTEMBER 1976

DATE	TIME	CODE FOR AGENCY COL- LECTING SAMPLE	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)	HARD- NESS (CA.MG) (MG/L)	MINERAL ACIDITY (METHYL ORANGE) AS CAC03 (MG/L)	ACIDITY C02 AS CAC03 (MG/L)
JAN 22...	1515	9813	127	50	7.7	.0	<1	12.0	17	0	0
FEB 26...	1115	9813	335	50	7.0	5.0	1	11.6	41	0	6
MAY 12...	1100	9813	139	40	6.8	11.5	1	10.0	20	0	0
AUG 10...	1515	9813	478	39	7.2	18.0	5	11.0	21	--	10

DATE	DIS- SOLVED CAL- CIUM (CA) (MG/L)	DIS- SOLVED MAG- NESI- UM (MG) (MG/L)	ALKA- LINITY AS CAC03 (MG/L)	DIS- SOLVED SULFATE (S04) (MG/L)	DIS- SOLVED CHLO- RIDE (CL) (MG/L)	TOTAL FILT- RABLE RESIDUE (MG/L)	TOTAL NITRATE (N) (MG/L)	TOTAL NITRITE (N) (MG/L)	TOTAL AMMONIA NITRO- GEN (N) (MG/L)	TOTAL PHOS- PHORUS (P) (MG/L)	TOTAL IRON (FE) (UG/L)
JAN 22...	4.7	1.0	12	14	10	--	.64	.08	.02	.05	150
FEB 26...	5.5	6.5	10	12	4.0	--	.72	.08	.04	.07	180
MAY 12...	4.0	2.0	16	16	4.0	--	.42	.02	.04	.07	110
AUG 10...	4.7	2.2	8	8.0	9.0	74	.42	.02	.04	.04	590

DELAWARE RIVER BASIN

61

01447680 TUNKHANNOCK CREEK NEAR LONG POND, PA

LOCATION.--Lat 41°03'55", long 75°31'14", Monroe County, Hydrologic Unit 02040106, on left bank 0.6 mi (1.0 km) downstream from unnamed tributary, 0.9 mi (1.4 km) downstream from bridge on Legislative Route 45040, 3 mi (5 km) west of Long Pond, and 5 mi (8 km) upstream from mouth.

DRAINAGE AREA.--18.0 mi² (46.6 km²). At site used prior to July 7, 1966, 16.8 mi² (43.5 km²).

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

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

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

AVERAGE DISCHARGE.--11 years, 45.4 ft³/s (1.29 m³/s), 34.23 in/yr (869 mm/yr), adjusted for diversion since October 1969.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 480 ft³/s (13.6 m³/s) July 30, 1969, gage height, 4.34 ft (1.323 m); minimum, 3.0 ft³/s (0.085 m³/s) Mar. 11, 1969, gage height, 1.84 ft (0.561 m).

EXTREMES FOR CURRENT YEAR.--Peak discharges above base of 170 ft³/s (4.81 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. 20	1100	185 5.24	3.11 0.948	Jan. 27	2100	*448 12.7	*4.18 1.274

Minimum discharge, 3.4 ft³/s (0.096 m³/s) Jan. 22, gage height, 1.87 ft (0.570 m), result of freeze-up.

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	53	54	55	52	67	58	100	50	44	126	39	18
2	43	49	59	46	102	56	140	133	72	144	34	18
3	39	47	52	40	96	53	115	127	65	128	29	17
4	36	44	48	44	80	55	82	91	47	90	25	17
5	35	43	46	39	70	62	64	65	38	65	23	17
6	32	43	44	35	65	60	58	52	37	48	21	16
7	30	41	45	32	60	52	53	47	55	43	24	16
8	30	49	42	30	56	48	51	45	53	41	33	15
9	29	57	41	29	52	41	47	44	41	39	48	14
10	28	64	49	28	48	43	45	41	33	36	81	15
11	38	84	55	27	45	43	42	40	30	34	94	15
12	58	94	49	26	43	44	41	58	28	33	81	15
13	67	116	44	25	42	49	41	67	28	32	63	15
14	64	118	43	27	51	66	41	50	25	32	47	14
15	53	110	43	34	52	61	41	43	26	30	39	14
16	43	91	41	23	44	50	38	44	28	30	33	18
17	40	75	41	21	105	47	38	79	35	30	28	48
18	76	64	33	20	128	45	36	79	37	30	26	79
19	145	58	36	19	119	44	34	79	31	28	24	77
20	181	54	36	19	104	52	34	74	30	25	23	58
21	173	65	29	21	86	57	33	67	68	24	21	40
22	144	95	28	20	96	60	31	71	90	24	20	29
23	116	99	28	9.6	110	50	30	62	83	24	19	23
24	94	85	28	8.8	95	43	32	53	62	25	19	19
25	81	69	32	17	74	39	34	48	44	25	19	17
26	73	60	48	75	66	39	89	45	35	24	18	19
27	70	62	85	382	66	42	95	42	30	23	21	36
28	64	69	95	419	65	71	63	41	27	21	21	56
29	59	68	80	279	63	75	45	39	43	23	21	60
30	52	61	45	148	---	57	39	42	69	33	20	52
31	55	---	46	115	---	47	---	45	---	39	19	---
TOTAL	2101	2088	1446	2110.4	2150	1609	1632	1863	1334	1349	1033	867
MEAN	67.8	69.6	46.6	68.1	74.1	51.9	54.4	60.1	44.5	43.5	33.3	28.9
MAX	141	118	95	419	128	75	140	133	90	144	94	79
MIN	28	41	28	8.8	42	39	30	39	25	21	18	14
(f)	.55	.24	.06	.04	.03	.03	.03	.03	.03	.03	.03	.03
MEAN#	68.4	69.8	46.7	68.1	74.1	51.9	54.4	60.1	44.5	43.5	33.3	28.9
CFSM#	3.80	3.88	2.59	3.78	4.12	2.88	3.02	3.34	2.47	2.42	1.85	1.61
IN.#	4.38	4.33	2.99	4.36	4.44	3.32	3.37	3.85	2.76	2.79	2.13	1.80

CAL YR 1975 TOTAL 20469.0 MEAN 56.1 MAX 268 MIN 14 MEAN# 56.7 CFSM# 3.15 IN.# 42.73
WTR YR 1976 TOTAL 19582.4 MEAN 53.5 MAX 419 MIN 8.8 MEAN# 53.6 CFSM# 2.98 IN.# 40.54

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

Adjusted for diversion.

DELAWARE RIVER BASIN

01447720 TOBYHANNA CREEK NEAR BLAKESLEE, PA

LOCATION.--Lat 41°05'05", long 75°36'21", Carbon County, Hydrologic Unit 02040106, on left bank 50 ft (15 m) downstream from bridge on State Highway 940, 500 ft (150 m) downstream from Shingle Mill Run, and 1.5 mi (2.4 km) southwest of Blakeslee. Water-quality sampling site at bridge 50 ft (15 m) upstream.

DRAINAGE AREA.--118 mi² (306 km²).

WATER-DISCHARGE RECORDS

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

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

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

AVERAGE DISCHARGE.--15 years, 248 ft³/s (7.02 m³/s) 28.59 in/yr (726 mm/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 6,760 ft³/s (191 m³/s) July 29, 1969, gage height, 10.69 ft (3.258 m), from rating curve extended above 4,200 ft³/s (120 m³/s) on basis of slope-area measurement at gage height 19.41 ft (5.916 m); minimum, 22 ft³/s (0.62 m³/s) Sept. 24, 25, 1964, gage height, 1.51 ft (0.460 m).

EXTREMES OUTSIDE OF PERIOD OF RECORD.--Flood of Aug. 19, 1955, reached a stage of 19.41 ft (5.916 m), from floodmark, discharge, 35,300 ft³/s (1,000 m³/s), by slope-area measurement.

EXTREMES FOR CURRENT YEAR.--Peak discharges above base of 1,600 ft³/s (45.3 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. 19	1300	1,700 48.1	5.98 1.823	Jan. 27	1700	*4,320 122	*8.79 2.679

Minimum discharge, 62 ft³/s (1.76 m³/s) Sept. 15, 16, gage height, 1.94 ft (0.591 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	209	303	278	470	332	758	267	189	1330	196	77
2	196	201	297	232	654	320	843	686	260	869	155	80
3	170	199	266	224	564	317	632	575	237	541	129	82
4	156	194	237	209	449	350	467	411	193	369	110	80
5	143	186	224	182	375	381	372	308	164	326	97	81
6	136	179	216	182	341	363	323	254	165	271	89	76
7	130	172	216	163	306	311	294	233	277	232	167	71
8	122	245	201	172	286	272	269	216	266	229	357	69
9	122	278	204	160	269	253	250	197	202	209	559	67
10	118	344	258	150	258	237	232	183	166	180	831	74
11	189	615	280	145	258	245	224	176	146	183	645	75
12	335	585	250	140	261	234	224	220	129	177	411	72
13	303	1010	221	153	258	303	204	235	114	169	285	70
14	248	893	209	201	278	363	196	203	103	172	219	66
15	204	641	209	211	261	329	189	188	106	165	182	62
16	174	481	206	186	291	297	183	206	116	173	177	106
17	163	394	194	172	758	258	181	423	174	196	160	542
18	632	341	177	165	884	237	176	453	166	172	137	580
19	1450	309	163	152	852	237	166	446	140	146	120	373
20	1330	286	151	143	785	286	160	437	137	129	107	244
21	983	375	147	139	602	332	156	397	305	124	99	180
22	694	573	145	133	703	347	146	343	432	130	95	140
23	512	489	143	129	726	289	143	277	369	129	90	111
24	411	398	140	124	548	248	138	234	265	173	85	96
25	359	332	153	120	453	229	166	213	209	162	81	85
26	329	306	332	544	411	216	495	201	172	130	81	150
27	300	350	552	3840	404	242	467	196	141	112	123	399
28	275	411	435	2660	385	552	332	184	123	103	128	406
29	256	363	314	1370	356	467	257	171	314	139	117	292
30	240	314	256	838	---	350	215	184	594	307	98	238
31	221	---	269	540	---	294	---	187	---	259	83	---
TOTAL	11133	11673	7368	14057	13446	9491	8858	8904	6374	8006	6213	5044
MEAN	359	389	238	453	464	306	295	287	212	258	200	168
MAX	1450	1010	552	3840	884	552	843	686	594	1330	831	580
MIN	118	172	140	120	258	216	138	171	103	103	81	62
CFSM	3.04	3.30	2.02	3.84	3.93	2.59	2.50	2.43	1.80	2.19	1.69	1.42
IN.	3.51	3.68	2.32	4.43	4.24	2.99	2.79	2.81	2.01	2.52	1.96	1.59

CAL YR 1975	TOTAL	120118	MEAN	329	MAX	2580	MIN	70	CFSM	2.79	IN	37.87
WTR YR 1976	TOTAL	110567	MEAN	302	MAX	3840	MIN	62	CFSM	2.56	IN	34.86

DELAWARE RIVER BASIN

01447720 TOBYHANNA CREEK NEAR BLAKESLEE, PA--Continued

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WATER-QUALITY RECORDS

PERIOD OF RECORD.--January 1976 to current year.

COOPERATION.--Water-quality data were furnished by the Pennsylvania Department of Environmental Resources.

WATER QUALITY DATA, JANUARY TO SEPTEMBER 1976

DATE	TIME	CODE FOR AGENCY COL- LECTING SAMPLE	INSTAN- TANEOUS 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)	HARD- NESS (CA+MG) (MG/L)	MINERAL ACIDITY (METHYL ORANGE) AS CACO3 (MG/L)	ACIDITY CO2 AS CACO3 (MG/L)
JAN 22...	1515	9813	139	60	7.7	0	1	12.0	18	0	0
FEB 26...	1030	9813	407	40	6.7	5.0	2	10.7	36	0	0
MAY 12...	1030	9813	216	40	6.7	12.0	3	9.6	<10	0	0
AUG 10...	1515	9813	876	37	7.7	18.0	4	11.0	17	--	8

DATE	DIS- SOLVED CAL- CIUM (CA) (MG/L)	DIS- SOLVED MAG- NE- SIUM (MG) (MG/L)	ALKA- LINITY AS CACO3 (MG/L)	DIS- SOLVED SULFATE (SO4) (MG/L)	DIS- SOLVED CHLO- RIDE (CL) (MG/L)	TOTAL FILT- RABLE RESIDUE (MG/L)	TOTAL NITRATE (N) (MG/L)	TOTAL NITRITE (N) (MG/L)	TOTAL AMMONIA NITRO- GEN (N) (MG/L)	TOTAL PHOS- PHORUS (P) (MG/L)	TOTAL IRON (FE) (UG/L)
JAN 22...	4.7	1.5	10	16	9.0	--	.76	.10	.03	.05	280
FEB 26...	4.0	6.5	6	4.0	7.0	--	.68	.05	.02	.05	140
MAY 12...	3.1	--	8	14	6.0	--	.46	.04	.03	.07	240
AUG 10...	3.1	2.2	16	8.0	10	66	.58	.03	.06	.04	560

DELAWARE RIVER BASIN

01447800 LEHIGH RIVER BELOW FRANCIS E. WALTER LAKE NEAR WHITE HAVEN, PA

LOCATION.--Lat 41°06'17", long 75°43'57", Luzerne County, Hydrologic Unit 02040106, on right bank 0.7 mi (1.1 km) downstream from Francis E. Walter Lake, 2.0 mi (3.2 km) upstream from Fawn Run, and 4 mi (6.4 km) northeast of White Haven.

DRAINAGE AREA.--290 mi² (751 km²).

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

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

REMARKS.--Records good. Flow regulated by Francis E. Walter Lake 0.7 mi (1.1 km) upstream since February 1961 (see p. 310).

AVERAGE DISCHARGE.--19 years, 598 ft³/s (16.9 m³/s), 28.00 in/yr (711 mm/yr), adjusted for storage since February 1961.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 13,800 ft³/s (391 m³/s) Dec. 21, 1957, gage height, 9.85 ft (3.002 m), from rating curve extended above 6,100 ft³/s (170 m³/s); minimum, 1.3 ft³/s (0.037 m³/s) Nov. 14, 1961, result of shutoff at lake; minimum gage height, 1.86 ft (0.567 m) Sept. 16, 1964; minimum daily discharge, 22 ft³/s (0.62 m³/s) July 20-23, 1965.

EXTREMES OUTSIDE PERIOD OF RECORD.--Maximum discharge known, 54,200 ft³/s (1,530 m³/s) Aug. 19, 1955, based on slope-area measurement at site 4.9 mi (7.9 km) downstream.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 4,660 ft³/s (132 m³/s) Jan. 30, gage height, 6.82 ft (2.079 m); minimum, 27 ft³/s (0.76 m³/s) Sept. 14, gage height, 2.32 ft (0.707 m); minimum daily, 128 ft³/s (3.62 m³/s) July 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	720	474	706	653	4110	818	1390	511	418	2160	502	199
2	547	475	659	638	3250	778	2080	1120	493	2020	278	199
3	435	469	657	610	2040	754	1670	1130	609	1260	177	197
4	405	459	581	555	1300	754	1520	986	430	952	182	195
5	396	404	540	280	907	770	958	624	352	670	188	196
6	333	360	536	335	794	786	689	625	413	635	225	157
7	318	371	531	340	802	762	713	526	564	559	263	130
8	317	406	481	408	746	662	714	460	572	487	789	130
9	306	477	426	370	715	604	578	460	568	397	1280	130
10	280	672	507	350	613	556	511	460	430	323	1580	132
11	320	1120	602	346	592	499	534	455	347	452	1550	133
12	783	1220	583	350	606	509	526	420	282	450	933	133
13	697	1940	553	362	606	540	510	401	236	373	560	134
14	492	2410	525	435	606	767	498	404	239	415	487	132
15	367	2190	443	522	606	853	489	404	239	383	556	138
16	406	1340	422	424	592	704	438	452	239	484	524	183
17	595	879	431	350	738	638	373	449	340	686	428	595
18	1010	844	428	310	1330	549	377	1020	336	558	339	811
19	1860	835	366	270	2300	509	376	1070	292	340	319	803
20	2220	732	291	245	2840	588	372	1070	292	278	453	657
21	2730	774	307	243	2680	645	365	967	562	240	478	473
22	2800	1290	313	241	2490	859	361	884	992	242	131	310
23	2550	1400	311	240	2130	863	347	724	877	282	135	216
24	1530	1060	279	240	1580	636	338	491	526	414	137	197
25	910	873	261	239	1360	566	336	451	494	455	139	195
26	885	738	552	396	1080	501	799	455	448	329	211	195
27	820	708	1230	289	944	472	1120	459	353	128	254	517
28	654	933	1180	1970	878	1200	745	460	226	164	254	941
29	593	990	517	3770	870	1350	559	457	388	254	254	695
30	593	877	645	4290	---	1030	491	452	987	508	254	432
31	534	---	694	4390	---	711	---	449	---	628	218	---
TOTAL	27406	27720	16557	24461	40105	22233	20777	19596	13544	17528	14080	9556
MEAN	884	924	534	789	1383	717	693	632	451	565	454	319
MAX	2800	2410	1230	4390	4110	1350	2080	1130	992	2160	1580	941
MIN	280	360	261	239	592	472	336	401	226	128	131	130
MEAN#	883	922	535	975	1191	708	696	632	467	553	453	319
CFSM#	3.04	3.18	1.84	3.36	4.11	2.44	2.40	2.18	1.61	1.91	1.56	1.10
IN.#	3.50	3.55	2.12	3.87	4.43	2.81	2.68	2.51	1.80	2.20	1.80	1.23

CAL YR 1975 TOTAL 277443 MEAN 760 MAX 3980 MIN 84 MEAN# 760 CFSM# 2.62 IN.# 35.58
WTR YR 1976 TOTAL 253563 MEAN 693 MAX 4390 MIN 128 MEAN# 693 CFSM# 2.39 IN.# 32.53

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

DELAWARE RIVER BASIN

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01448500 DILLDOWN CREEK NEAR LONG POND, PA

LOCATION.--Lat 41°02'08", long 75°32'37", Monroe County, Hydrologic Unit 02040106, on left bank 60 ft (18 m) upstream from bridge on Shucks Mill Road, 2.8 mi (4.5 km) upstream from Mud Run, 4 mi (6 km) northeast of Albrightsville, and 4.4 mi (7.1 km) west of Long Pond.

DRAINAGE AREA.--2.39 mi² (6.19 km²).

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

REVISED RECORDS.--WSP 1392: 1949(M), 1950-53.

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

REMARKS.--Records good.

AVERAGE DISCHARGE.--28 years, 4.87 ft³/s (0.138 m³/s), 27.68 in/yr (703 mm/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 630 ft³/s (17.8 m³/s) June 14, 1969, gage height, 3.995 ft (1.218 m), from rating curve extended above 300 ft³/s (8.50 m³/s) on basis of culvert and flow-over-dam computations of peak flow; minimum, 0.10 ft³/s (0.003 m³/s) Dec. 10, 1964, gage height, 0.55 ft (0.168 m).

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 130 ft³/s (3.68 m³/s) Jan. 27, gage height, 2.639 ft (0.804 m); minimum, 1.1 ft³/s (0.031 m³/s) Sept. 12, 13, 14; minimum gage height, 1.047 ft (0.319 m) Sept. 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	5.6	5.2	7.4	5.4	15	6.8	21	13	6.8	8.4	1.9	1.5
2	5.2	5.2	6.4	4.4	23	6.5	10	16	6.7	4.2	1.8	1.7
3	4.8	4.8	5.9	4.4	11	6.3	8.2	8.7	4.0	3.6	1.7	1.6
4	4.5	4.8	5.3	4.1	10	7.5	7.4	7.1	3.3	3.5	1.6	1.5
5	4.4	4.5	5.2	3.8	9.1	7.1	6.6	6.4	3.2	3.4	1.6	1.4
6	4.3	4.2	5.2	3.6	8.5	6.3	6.2	6.0	5.5	3.0	1.7	1.4
7	4.1	4.2	5.0	3.6	7.8	5.8	5.8	6.0	6.1	3.5	3.4	1.3
8	3.9	8.5	4.6	3.6	7.3	5.2	5.4	5.4	3.6	3.4	8.6	1.2
9	3.8	5.0	5.0	3.4	6.4	5.0	5.0	5.1	3.2	2.9	4.9	1.2
10	3.8	12	7.0	3.2	6.1	5.0	4.8	4.8	3.0	2.6	10	1.7
11	11	9.9	5.0	3.2	6.2	5.0	4.6	5.1	2.9	3.6	3.6	1.3
12	8.6	11	4.5	3.2	5.8	5.0	4.3	7.2	2.7	3.0	2.9	1.2
13	5.3	8.9	4.4	3.1	5.9	10	4.2	4.8	2.6	2.8	2.6	1.2
14	4.8	11	4.6	10	6.0	7.6	4.0	4.6	2.8	2.6	2.4	1.2
15	4.6	8.9	4.5	4.5	5.2	6.2	3.9	4.5	2.6	2.4	2.4	1.2
16	4.4	8.1	4.2	3.9	7.8	5.9	3.8	5.9	2.9	3.0	2.3	6.5
17	4.7	7.4	4.0	3.5	18	5.2	3.6	14	4.0	2.5	2.0	9.8
18	24	7.0	3.9	3.2	12	4.8	3.5	6.7	2.6	2.2	2.0	1.3
19	29	6.7	3.6	3.0	13	6.0	3.4	8.0	2.5	2.0	1.9	1.8
20	16	6.5	3.4	2.8	11	7.0	3.2	7.7	4.5	2.0	1.8	1.6
21	14	16	3.5	2.8	9.1	6.9	3.1	6.7	8.8	2.2	1.4	1.5
22	11	12	3.5	2.8	16	6.0	3.2	5.8	6.3	2.1	1.7	1.4
23	9.6	8.2	3.4	2.7	11	4.8	3.0	5.0	3.6	2.5	1.7	1.3
24	8.8	7.5	3.4	2.6	8.8	4.6	2.9	4.4	3.1	3.7	1.6	1.3
25	8.5	7.2	4.0	2.6	8.5	4.6	4.6	4.3	2.9	1.9	1.6	1.3
26	7.7	6.7	15	27	8.4	6.3	14	4.2	2.6	1.8	2.1	4.0
27	7.0	9.8	19	95	8.4	6.0	4.5	4.0	2.4	1.8	2.4	7.1
28	6.5	8.0	4.6	31	7.8	13	3.8	3.6	2.5	1.8	1.8	4.1
29	6.3	6.6	4.4	18	7.1	6.2	3.6	3.6	6.5	4.7	1.7	2.6
30	5.4	6.4	4.7	15	---	5.5	3.4	4.3	12	5.8	1.5	3.0
31	5.4	---	5.9	12	---	5.3	---	3.8	---	2.2	1.5	---
TOTAL	247.5	232.2	170.5	291.4	280.2	193.4	165.0	196.7	126.1	95.1	80.5	69.2
MEAN	7.98	7.74	5.50	9.40	9.66	6.24	5.50	6.35	4.20	3.07	2.60	2.31
MAX	29	16	19	95	23	13	21	16	12	8.4	10	9.8
MIN	3.8	4.2	3.4	2.6	5.2	4.6	2.9	3.6	2.4	1.8	1.5	1.2
CFSM	3.34	3.24	2.30	3.93	4.04	2.61	2.30	2.66	1.76	1.28	1.09	.97
IN.	3.85	3.61	2.65	4.53	4.36	3.01	2.57	3.06	1.96	1.48	1.25	1.08

CAL YR 1975 TOTAL 2494.0 MEAN 6.83 MAX 39 MIN 1.4 CFSM 2.86 IN 38.80
WTH YR 1976 TOTAL 2147.8 MEAN 5.87 MAX 95 MIN 1.2 CFSM 2.46 IN 33.42

DELAWARE RIVER BASIN

01449360 POHOPOCO CREEK AT KRESGEVILLE, PA

LOCATION.--Lat 40°53'51", long 75°30'10", Monroe County, Hydrologic Unit 02040106, on right bank 20 ft (6 m) downstream from bridge on U.S. Highway 209 at Kresgeville, 0.2 mi (0.3 km) downstream from Middle Creek, and 13 mi (21 km) northeast of Lehigh.

DRAINAGE AREA.--49.9 mi² (129.2 km²).

WATER-DISCHARGE RECORDS

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

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

REMARKS.--Records good.

AVERAGE DISCHARGE.--10 years, 108 ft³/s (3.06 m³/s) 29.52 in/yr (750 mm/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 2,080 ft³/s (58.9 m³/s) July 28, 1969, gage height, 9.21 ft (2.807 m), from rating curve extended above 800 ft³/s (23 m³/s); minimum, 16 ft³/s (0.45 m³/s) Oct. 9, 10, 1970, gage height, 2.86 ft (0.872 m).

EXTREMES FOR CURRENT YEAR.--Peak discharges above base of 500 ft³/s (14.2 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	2330	564 16.0	5.82 1.774	Jan. 27	0415	*1,870 53.0	*8.86 2.701

Minimum discharge, 34 ft³/s (0.96 m³/s) Sept. 14, 15, 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	121	113	119	156	272	127	327	119	96	238	52	45
2	113	108	111	127	390	121	308	178	101	158	48	50
3	104	106	106	128	239	118	250	134	85	135	46	50
4	97	101	101	123	187	127	209	124	79	122	44	46
5	91	96	98	109	169	118	182	116	75	111	43	44
6	88	90	96	102	158	111	164	110	77	101	43	42
7	83	87	93	99	145	106	150	105	83	104	53	41
8	79	118	89	99	137	102	138	99	72	96	105	40
9	77	95	90	90	127	101	129	94	67	87	178	39
10	75	123	102	88	118	101	121	90	65	79	174	44
11	124	145	89	85	139	101	115	98	63	146	131	42
12	127	172	85	87	134	97	108	196	60	92	114	39
13	95	340	83	83	132	135	103	136	59	79	101	37
14	88	315	82	182	132	127	98	129	59	74	93	36
15	85	258	81	116	112	117	94	123	59	70	87	35
16	84	216	80	94	155	118	91	132	67	103	83	66
17	84	189	76	83	305	118	86	166	99	86	83	115
18	244	170	75	81	197	110	78	216	65	68	70	59
19	451	157	69	79	192	115	81	212	57	63	66	48
20	518	146	68	77	174	114	80	194	113	61	64	44
21	373	182	69	74	156	111	81	186	194	60	61	42
22	291	177	68	71	234	107	69	165	164	60	59	40
23	242	144	66	70	203	100	68	148	170	61	57	38
24	208	138	63	69	179	99	68	135	130	64	56	37
25	189	135	62	67	170	97	75	127	116	53	54	37
26	172	130	147	496	160	94	120	120	102	51	53	54
27	156	142	157	1540	151	98	83	113	93	49	69	91
28	144	131	123	857	142	123	74	104	91	48	55	71
29	134	120	111	410	133	99	70	99	116	71	52	56
30	128	115	111	302	---	96	65	104	166	89	49	55
31	118	---	144	238	---	96	---	95	---	58	46	---
TOTAL	4983	4559	2914	6282	5142	3404	3685	4167	2843	2737	2284	1483
MEAN	161	152	94.0	203	177	110	123	134	94.8	88.3	73.8	49.4
MAX	518	340	157	1540	390	135	327	216	194	238	172	115
MIN	75	87	62	67	112	94	65	90	57	48	43	35
CFSM	3.23	3.05	1.88	4.07	3.55	2.20	2.46	2.69	1.90	1.77	1.48	.99
IN.	3.71	3.40	2.17	4.68	3.83	2.54	2.75	3.11	2.12	2.04	1.71	1.11

CAL YR 1975	TOTAL	48779	MEAN 134	MAX 754	MIN 33	CFSM 2.69	IN 36.36
WTR YR 1976	TOTAL	44488	MEAN 122	MAX 1540	MIN 35	CFSM 2.44	IN 33.16

DELAWARE RIVER BASIN

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01449360 POHOPOCO CREEK AT KRESGEVILLE, PA--Continued

WATER-QUALITY RECORDS

PERIOD OF DAILY RECORD.--

WATER TEMPERATURES: October 1968 to September 1970, May 1971 to current year.

EXTREMES FOR PERIOD OF DAILY RECORD.--

WATER TEMPERATURES: Maximum, 31.5°C July 25, 1970; minimum, freezing point Feb. 20, 21, 23, 1972, Jan. 14, 1974.

EXTREMES FOR CURRENT YEAR.--

WATER TEMPERATURES: Maximum, 21.0°C June 20; minimum, 0.5°C Feb. 3, 7.

TEMPERATURE (°C) OF WATER, 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	14.5	12.5	13.5	8.5	6.5	7.5	9.0	5.0	7.5	---	---	---
2	14.0	12.0	13.5	10.5	8.0	9.5	5.0	4.0	4.5	---	---	---
3	12.0	9.5	11.0	11.5	9.5	10.5	4.0	3.0	3.5	---	---	---
4	12.5	9.5	11.0	13.0	11.0	12.0	3.5	2.0	3.0	---	---	---
5	12.5	10.5	11.5	12.0	10.0	11.5	4.0	2.5	3.5	---	---	---
6	14.0	12.0	13.0	11.5	9.5	10.5	5.5	3.0	4.0	---	---	---
7	13.5	12.0	13.0	12.0	9.5	10.5	5.5	2.5	4.0	---	---	---
8	12.5	10.0	11.5	13.5	12.0	12.5	2.5	1.5	2.0	---	---	---
9	13.0	12.0	12.5	12.5	11.0	12.0	4.0	2.5	3.5	---	---	---
10	12.5	12.0	12.0	13.0	12.5	13.0	5.5	4.5	5.0	---	---	---
11	13.0	12.0	12.5	12.5	9.5	11.0	5.0	4.0	4.5	---	---	---
12	12.5	11.0	12.0	10.0	7.5	9.0	4.5	4.0	4.0	---	---	---
13	13.5	11.5	12.5	10.0	9.5	10.0	4.5	3.5	4.0	---	---	---
14	15.5	12.5	14.0	9.5	8.5	9.0	6.0	4.5	5.5	---	---	---
15	15.5	13.5	14.5	9.5	9.5	9.5	7.0	5.5	6.0	---	---	---
16	15.0	13.5	14.5	9.5	7.5	9.0	7.0	4.0	6.0	---	---	---
17	13.5	11.5	12.0	9.0	7.0	8.0	---	---	---	---	---	---
18	13.0	11.5	12.5	9.0	7.0	8.0	---	---	---	---	---	---
19	13.0	11.5	12.0	9.5	7.5	8.5	---	---	---	---	---	---
20	13.0	11.5	12.0	9.0	7.0	8.5	---	---	---	---	---	---
21	12.5	10.0	11.5	9.0	8.5	9.0	---	---	---	---	---	---
22	13.0	11.0	11.0	8.5	6.5	7.5	---	---	---	---	---	---
23	13.0	11.0	12.0	6.5	4.5	5.5	---	---	---	---	---	---
24	13.0	12.5	12.5	9.0	4.5	5.5	---	---	---	---	---	---
25	13.5	13.0	13.0	6.5	5.0	5.5	---	---	---	---	---	---
26	13.0	11.5	12.5	6.0	5.0	5.5	---	---	---	---	---	---
27	12.0	10.5	11.5	7.0	5.5	6.5	---	---	---	---	---	---
28	12.5	11.0	12.0	6.5	5.5	6.0	---	---	---	3.0	2.0	2.5
29	12.0	11.0	11.5	6.5	5.0	6.0	---	---	---	4.5	2.5	3.0
30	11.5	8.5	10.0	8.0	6.0	7.0	---	---	---	3.5	3.0	3.0
31	8.5	7.0	7.5	---	---	---	---	---	---	3.0	1.5	2.5
MONTH	15.5	7.0	12.0	13.5	4.5	9.0	---	---	---	---	---	---

DELAWARE RIVER BASIN

01449360 POHOPOCO CREEK AT KRESGEVILLE, PA--Continued

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

DAY	FEBRUARY			MARCH			APRIL			MAY		
	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	3.5	2.0	3.0	10.0	8.0	8.5	10.0	8.0	9.5	11.5	9.0	10.0
2	3.0	1.0	1.5	10.0	6.5	8.0	9.5	9.5	9.5	12.5	9.5	11.0
3	2.0	0.5	1.5	7.5	7.5	7.5	9.5	7.5	9.0	11.0	9.0	10.0
4	3.5	1.5	2.5	8.0	7.0	7.5	8.5	6.0	7.5	9.0	7.5	8.5
5	3.0	2.0	3.0	10.0	7.5	9.0	10.0	6.0	8.0	12.5	6.5	9.5
6	3.0	1.5	2.5	10.0	7.5	8.5	9.5	7.5	8.0	14.0	9.5	11.5
7	2.5	0.5	1.5	7.5	7.5	7.5	8.0	8.0	8.0	14.0	11.5	12.5
8	3.5	1.0	2.5	---	---	---	7.0	7.0	7.0	13.5	9.5	11.5
9	3.5	2.0	3.0	6.5	6.5	6.5	9.5	8.0	8.0	13.0	8.0	11.0
10	4.0	1.0	2.5	6.5	2.0	5.0	11.0	8.0	9.0	14.5	9.5	12.0
11	4.5	1.5	3.5	6.5	2.5	4.5	11.5	8.0	8.5	13.5	11.5	12.5
12	5.0	3.0	3.0	7.5	2.0	7.0	8.0	8.0	8.0	13.0	11.0	12.0
13	6.0	3.5	4.5	3.5	3.5	3.5	8.0	8.0	8.0	13.0	8.5	11.0
14	5.0	3.5	4.5	3.5	3.5	3.5	7.0	7.0	7.0	13.5	11.0	12.0
15	4.0	2.5	3.5	3.5	3.5	3.5	---	---	---	15.0	12.5	13.5
16	4.0	4.0	4.0	3.5	3.5	3.5	---	---	---	14.5	13.0	13.5
17	4.0	4.0	4.0	3.5	3.5	3.5	---	---	---	15.5	12.5	13.5
18	4.0	4.0	4.0	3.5	3.0	3.0	---	---	---	14.5	11.0	12.0
19	4.0	4.0	4.0	6.5	3.0	4.0	---	---	---	12.5	9.5	10.5
20	4.0	4.0	4.0	6.5	6.5	6.5	---	---	---	12.5	9.5	11.0
21	7.0	3.5	5.0	6.5	6.5	6.5	---	---	---	14.0	11.0	12.5
22	7.5	5.5	6.0	6.5	6.5	6.5	---	---	---	13.0	11.5	12.5
23	5.5	5.5	5.5	7.0	7.0	7.0	---	---	---	13.5	9.5	12.0
24	6.0	3.0	4.5	7.0	7.0	7.0	---	---	---	13.0	10.0	12.0
25	8.5	5.5	6.5	7.0	7.0	7.0	---	---	---	12.5	11.0	11.5
26	8.5	7.0	7.5	7.0	7.0	7.0	---	---	---	11.5	10.5	11.0
27	10.0	7.5	8.5	10.0	7.0	8.0	---	---	---	13.0	9.5	11.5
28	10.0	8.5	9.5	10.0	8.5	9.0	---	---	---	14.5	10.5	12.5
29	9.5	8.0	9.0	9.5	9.5	9.5	11.5	---	---	13.5	12.0	13.0
30	---	---	---	10.0	9.5	9.5	13.0	7.0	10.5	13.0	12.5	13.0
31	---	---	---	10.0	10.0	10.0	---	---	---	14.0	12.5	13.5
MONTH	10.0	0.5	4.5	10.0	2.0	6.5	---	---	---	15.5	6.5	11.5
DAY	JUNE			JULY			AUGUST			SEPTEMBER		
	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	14.5	13.0	13.5	18.0	16.5	17.5	17.5	15.5	16.5	15.0	12.0	13.5
2	14.0	12.5	13.0	16.5	15.0	16.0	16.0	13.5	15.0	14.5	13.5	14.0
3	14.5	11.0	13.0	16.0	14.5	15.5	16.0	13.5	15.0	14.0	12.0	13.0
4	15.0	12.0	13.5	16.0	14.5	15.5	17.0	14.0	15.0	14.0	13.0	13.5
5	15.5	11.5	13.5	16.5	14.0	15.5	17.0	14.5	16.0	16.0	13.5	14.5
6	14.5	12.0	12.5	17.5	14.5	16.0	17.0	16.5	16.5	14.5	13.0	14.0
7	15.5	11.5	13.5	16.5	15.0	16.0	16.0	15.5	15.5	14.5	12.0	13.0
8	17.0	13.5	15.5	16.5	15.0	15.5	17.5	15.0	16.0	16.0	13.5	15.0
9	17.5	14.5	16.0	17.5	15.0	16.0	17.5	16.0	16.0	16.5	14.5	15.5
10	18.0	15.5	17.0	17.5	14.5	16.5	17.5	16.0	16.5	15.5	14.0	15.0
11	18.0	15.5	17.0	18.0	16.5	17.5	16.5	14.0	15.5	14.0	12.5	13.0
12	18.5	16.0	17.5	17.5	16.5	17.0	17.0	14.5	16.0	14.5	11.5	13.0
13	17.0	14.5	15.0	16.5	14.5	15.0	17.5	15.5	16.5	15.5	13.0	14.5
14	15.0	14.0	15.5	17.0	14.5	15.5	18.0	16.0	17.0	15.5	13.0	14.5
15	18.0	15.0	16.5	16.5	15.5	16.0	17.5	16.0	16.5	15.5	14.5	15.0
16	19.5	16.5	18.0	18.5	15.5	16.5	16.5	14.5	15.5	16.5	14.5	15.0
17	19.0	16.5	17.5	18.5	16.0	17.0	16.5	14.0	15.0	16.0	15.5	16.0
18	18.5	16.0	17.0	18.0	14.5	16.5	17.0	14.0	15.5	16.0	15.0	15.5
19	19.0	17.0	18.0	18.5	15.0	17.0	16.5	14.0	15.5	16.5	14.5	15.5
20	21.0	17.5	19.0	18.5	16.5	17.5	16.5	14.0	15.0	15.5	14.0	15.0
21	20.5	17.5	19.0	19.0	17.5	18.0	17.0	14.5	16.0	14.5	13.5	14.5
22	20.5	17.5	18.5	19.5	17.0	18.0	18.5	16.0	17.5	13.5	11.5	12.5
23	18.0	17.0	17.5	18.5	16.0	17.0	19.0	16.5	17.5	12.0	9.5	11.0
24	18.0	16.0	17.0	20.0	16.0	18.0	18.0	16.0	17.0	13.0	11.5	12.0
25	18.0	16.5	17.0	19.0	17.0	18.0	17.5	3.0	16.5	11.5	9.5	11.0
26	18.5	16.5	17.5	17.0	15.0	15.5	17.5	16.5	17.0	13.5	10.5	11.5
27	18.0	15.5	17.0	16.0	14.5	15.5	17.5	17.0	17.0	14.0	13.0	13.5
28	19.0	16.0	17.5	18.5	15.5	16.5	18.5	16.5	17.5	13.5	12.0	13.0
29	19.0	17.0	18.0	18.0	15.5	16.5	19.0	17.0	17.5	12.0	9.5	11.0
30	20.0	16.5	18.0	17.5	16.0	16.5	17.0	14.0	15.5	11.0	10.0	10.5
31	---	---	---	18.5	16.0	17.0	14.5	12.0	13.5	---	---	---
MONTH	21.0	11.0	16.5	20.0	14.0	16.5	19.0	3.0	16.0	16.5	9.5	13.5

DELAWARE RIVER BASIN

69

01449500 WILD CREEK AT HATCHERY, PA

LOCATION.--Lat 40°55'22", long 75°33'32", Carbon County, Hydrologic Unit 02040106, on left bank at Hatchery, 0.5 mi (0.8 km) downstream from Penn Forest Dam, 2.2 mi (3.5 km) upstream from Wild Creek Dam, 4 mi (6 km) upstream from mouth, and 9.5 mi (15.3 km) northeast of Palmerton.

DRAINAGE AREA.--16.8 mi² (43.5 km²).

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

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

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

REMARKS.--Records fair. Flow completely regulated since January 1959 by Penn Forest Reservoir 0.5 mi (0.8 km) upstream (see p. 310).

AVERAGE DISCHARGE.--36 years, 35.6 ft³/s (1.01 m³/s), 28.80 in/yr (732 mm/yr), adjusted for storage since January 1959.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 2,360 ft³/s (66.8 m³/s) May 23, 1942, gage height, 6.00 ft (1.829 m), from rating curve extended above 220 ft³/s (6.2 m³/s) on basis of contracted-opening measurement at gage height 5.59 ft (1.704 m); minimum, 1.0 ft³/s (0.028 m³/s) Aug. 3-6, Oct. 2, 1958, Oct. 24, 1969, result of regulation.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 363 ft³/s (10.3 m³/s) Jan. 27, gage height, 3.53 ft (1.076 m); minimum, 16 ft³/s (0.45 m³/s) Dec. 24, Aug. 18, 19, 20, gage height, 1.81 ft (0.552 m); minimum daily, 16 ft³/s (0.45 m³/s) Aug. 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	30	46	50	46	91	52	75	37	39	34	35	34
2	31	46	42	35	105	51	80	66	40	34	35	34
3	30	46	44	39	86	50	70	61	37	30	35	34
4	30	45	38	40	75	51	63	52	34	28	35	33
5	30	44	37	34	64	50	56	46	33	27	35	34
6	31	40	38	32	67	47	53	43	32	30	35	33
7	30	38	37	32	62	43	51	43	34	34	35	31
8	30	46	34	34	57	39	47	43	32	32	37	30
9	30	45	27	34	53	39	47	43	24	33	36	28
10	33	42	30	31	50	41	41	45	18	32	37	31
11	33	65	29	32	46	42	44	45	21	33	37	35
12	35	57	29	33	46	36	40	48	22	37	37	37
13	37	104	30	31	44	47	33	41	20	34	32	37
14	36	94	31	34	41	43	34	37	20	34	29	37
15	31	74	31	32	43	40	34	36	22	32	29	39
16	30	68	32	30	41	43	34	35	23	32	26	43
17	29	64	29	30	58	42	34	57	28	32	24	40
18	50	61	33	27	68	34	33	68	30	32	19	33
19	102	57	24	25	67	34	32	61	28	32	16	33
20	136	56	22	25	66	37	33	56	27	32	25	33
21	122	66	25	25	61	41	31	57	39	32	33	33
22	102	70	35	25	63	39	31	54	44	32	33	33
23	90	61	24	24	75	34	33	50	39	32	33	33
24	83	57	18	24	67	33	27	47	38	32	37	37
25	76	53	18	24	64	34	30	44	31	32	41	38
26	71	51	40	50	62	33	52	43	27	32	41	40
27	66	53	47	280	59	34	41	42	25	32	40	40
28	62	52	41	280	56	48	34	40	24	32	40	40
29	59	48	36	178	53	40	31	38	28	35	40	40
30	62	46	36	135	---	38	27	41	30	35	36	40
31	48	---	40	107	---	37	---	39	---	35	34	---
TOTAL	1665	1695	1027	1808	1794	1272	1271	1458	889	1009	1037	1063
MEAN	53.7	56.5	33.1	58.3	61.9	41.0	42.4	47.0	29.6	32.5	33.5	35.4
MAX	136	104	50	280	105	52	80	68	44	38	41	43
MIN	29	38	18	24	41	33	27	35	18	27	16	28
MEAN#	56.5	56.3	34.2	60.7	60.0	40.0	41.2	47.3	29.1	25.5	22.9	19.4
CFSM#	3.36	3.35	2.04	3.61	3.57	2.38	2.45	2.82	1.73	1.52	1.36	1.15
IN.#	3.87	3.74	2.35	4.16	3.85	2.74	2.73	3.25	1.93	1.75	1.57	1.28

CAL YR 1975 TOTAL 17825.0 MEAN 48.8 MAX 194 MIN 3.6 MEAN# 49.2 CFSM# 2.93 IN.# 39.74
WTR YR 1976 TOTAL 15988.0 MEAN 43.7 MAX 280 MIN 16 MEAN# 41.0 CFSM# 2.44 IN.# 33.25

Adjusted for change in Penn Forest Reservoir.

DELAWARE RIVER BASIN

01449800 POHOPOCO CREEK BELOW BELTZVILLE DAM NEAR PARRYVILLE, PA

LOCATION.--Lat 40°50'44", long 75°38'46", Carbon County, Hydrologic Unit 02040106, on right bank 0.1 mi (0.2 km) upstream from Sawmill Run, 0.45 mi (0.72 km) downstream from Beltzville Dam, 1.3 mi (2.1 km) upstream from Bull Run, and 2.3 mi (3.7 km) northeast of Parryville.

DRAINAGE AREA.--96.4 mi² (249.7 km²).

WATER-DISCHARGE RECORDS

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

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

REMARKS.--Records excellent. Flow regulated by Wild Creek and Penn Forest Reservoirs 7.3 mi (11.7 km) and 10.0 mi (16.1 km) upstream, respectively, and Beltzville Lake 0.45 mi (0.72 km) upstream (see p. 311). Figures of daily discharge do not include diversion from Wild Creek Reservoir to city of Bethlehem. Diversion from Tunkhannock Creek to Wild Creek basin above station since October 1969 (see p. 61).

AVERAGE DISCHARGE.--9 years, 214 ft³/s (6.06 m³/s), 30.16 in/yr (766 mm/yr), adjusted for storage and diversion.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 1,740 ft³/s (49.3 m³/s) May 8, 1973, gage height, 5.59 ft (1.704 m); minimum, 0.90 ft³/s (0.025 m³/s) Oct. 11, 12, 1969, gage height, 2.12 ft (0.646 m), result of upstream shutoff.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 1,280 ft³/s (36.2 m³/s) Aug. 19, gage height, 5.09 ft (1.551 m); minimum, 1.0 ft³/s (0.028 m³/s) Aug. 23, gage height, 2.13 ft (0.649 m); minimum daily, 48 ft³/s (1.36 m³/s) Aug. 2, 3, 4, 5.

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	108	193	298	934	234	196	100	135	163	50	124
2	250	108	171	295	933	142	337	99	135	163	44	105
3	167	108	171	296	924	158	397	141	135	199	44	105
4	126	126	130	295	919	167	397	181	135	219	44	88
5	126	153	108	217	912	167	397	190	112	216	44	78
6	126	163	108	171	910	167	397	208	100	164	50	62
7	126	155	108	171	899	167	395	222	102	135	52	52
8	126	142	108	171	891	187	392	223	101	135	52	52
9	126	142	126	171	575	198	243	223	99	135	99	52
10	111	144	135	171	303	199	163	167	72	114	175	52
11	105	177	135	171	192	228	163	135	50	102	141	52
12	105	196	135	171	167	228	163	171	50	102	94	52
13	105	302	135	171	167	228	163	190	50	139	94	52
14	105	409	135	171	168	228	163	190	50	160	67	52
15	105	411	119	153	169	188	163	190	52	123	55	52
16	105	409	110	142	171	167	163	190	52	111	54	55
17	97	560	110	142	171	167	164	190	52	156	52	54
18	90	803	96	142	207	151	163	210	52	178	53	71
19	91	543	88	122	228	141	163	244	52	178	457	81
20	273	255	88	110	228	139	122	279	52	153	112	81
21	401	171	88	110	228	139	99	300	112	135	52	81
22	579	171	88	109	228	155	99	392	164	114	52	81
23	797	171	88	109	345	163	99	392	202	102	83	65
24	797	253	88	110	411	145	99	392	223	102	70	56
25	795	300	88	110	410	135	99	392	223	102	80	56
26	792	297	89	97	406	135	99	392	223	70	77	57
27	786	296	88	59	406	136	99	282	185	52	139	57
28	354	254	88	480	406	136	99	223	163	52	163	72
29	108	232	135	912	406	135	99	223	163	52	163	81
30	108	232	247	941	---	135	99	167	163	52	161	81
31	108	---	298	937	---	136	---	135	---	52	160	---
TOTAL	8393	7791	3894	7725	13314	5201	5894	7033	3459	3930	3064	2059
MEAN	271	260	126	249	459	168	196	227	115	127	98.4	68.6
MAX	797	803	298	941	934	234	397	392	223	219	457	124
MIN	90	108	88	59	167	135	99	99	50	52	44	52
(/)	.55	.24	.06	.04	.03	.03	.03	.03	.03	.03	.03	.03
MEAN#	271	268	138	373	314	167	191	227	125	113	92.6	52.9
CFSM#	2.81	2.78	1.43	3.87	3.26	1.73	1.98	2.35	1.30	1.17	.96	.55
IN.#	3.24	3.10	1.65	4.46	3.52	1.99	2.21	2.71	1.45	1.35	1.11	.61

CAL YR 1975 TOTAL 83354 MEAN 228 MAX 1020 MIN 58 MEAN# 231 CFSM# 2.39 IN.# 32.50
WTR YR 1976 TOTAL 71757 MEAN 196 MAX 941 MIN 48 MEAN# 194 CFSM# 2.01 IN.# 27.40

/ Diversion above Wild Creek Reservoir for municipal supply, equivalent in cubic feet per second; furnished by city of Bethlehem.

Adjusted for diversion from Wild Creek Reservoir and change in contents in Penn Forest and Wild Creek Reservoirs and Beltzville Lake.

DELAWARE RIVER BASIN

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01449800 POHOPOCO CREEK BELOW BELTZVILLE DAM NEAR PARRYVILLE, PA--Continued

WATER-QUALITY RECORDS

PERIOD OF DAILY RECORD.--

WATER TEMPERATURES: October 1968 to current year.

EXTREMES FOR PERIOD OF DAILY RECORD.--

WATER TEMPERATURES: Maximum, 26.5°C on several days during July, August 1970; minimum, freezing point Dec. 9, 1969.

EXTREMES FOR CURRENT YEAR.--

WATER TEMPERATURES: Maximum, 23.0°C Aug. 24; minimum, 2.0°C on many days during January and February.

TEMPERATURE (°C) OF WATER, 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				---	---	---	9.0	9.0	9.0	3.5	3.5	3.5
2				---	---	---	9.0	9.0	9.0	3.5	3.0	3.0
3				---	---	---	9.0	8.5	9.0	3.5	3.0	3.0
4				---	---	---	8.5	8.5	8.5	3.0	3.0	3.0
5				---	---	---	8.5	8.0	8.5	3.0	2.5	2.5
6				13.0	12.5	12.5	8.5	8.0	8.0	2.5	2.5	2.5
7				13.0	12.5	12.5	8.0	7.5	8.0	2.5	2.5	2.5
8				13.0	12.5	12.5	7.5	7.5	7.5	2.5	2.0	2.5
9				13.0	12.5	13.0	7.5	7.0	7.5	2.5	2.0	2.5
10				13.0	12.5	13.0	7.5	7.0	7.5	2.5	2.5	2.5
11				13.0	12.5	12.5	7.0	7.0	7.0	2.5	2.0	2.5
12				12.5	12.5	12.5	7.0	7.0	7.0	2.5	2.0	2.0
13				12.5	12.5	12.5	7.0	7.0	7.0	2.5	2.0	2.5
14				12.5	12.0	12.5	7.0	7.0	7.0	2.5	2.0	2.5
15				12.0	12.0	12.0	7.0	7.0	7.0	2.5	2.0	2.5
16				12.0	11.5	11.5	7.0	6.5	6.5	2.0	2.0	2.0
17				11.5	11.0	11.0	6.5	6.5	6.5	2.0	2.0	2.0
18				11.0	10.5	11.0	6.5	5.5	6.0	2.0	2.0	2.0
19				11.0	10.5	11.0	6.0	5.5	5.5	2.5	2.0	2.0
20				11.0	11.0	11.0	5.5	5.0	5.5	2.0	2.0	2.0
21				11.0	10.5	11.0	5.0	5.0	5.0	2.0	2.0	2.0
22				10.5	10.5	10.5	5.0	4.5	5.0	2.5	2.0	2.0
23				10.5	10.5	10.5	5.0	4.5	4.5	2.5	2.0	2.0
24				10.5	10.5	10.5	4.5	4.0	4.0	2.5	2.0	2.0
25				10.0	10.0	10.0	4.0	4.0	4.0	2.5	2.0	2.0
26				10.0	9.5	10.0	4.0	3.5	4.0	2.5	2.0	2.0
27				10.0	9.5	9.5	4.0	4.0	4.0	2.5	2.5	2.5
28				9.5	9.0	9.5	4.0	3.5	3.5	2.5	2.5	2.5
29				9.5	9.0	9.0	4.0	3.5	3.5	2.5	2.5	2.5
30				9.0	9.0	9.0	3.5	3.5	3.5	2.5	2.5	2.5
31				---	---	---	3.5	3.5	3.5	2.5	2.5	2.5
MONTH				13.0	9.0	11.0	9.0	3.5	6.0	3.5	2.0	2.5

DELAWARE RIVER BASIN

01449800 POHOPOCO CREEK BELOW BELTZVILLE DAM NEAR PARRYVILLE, PA--Continued

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

DAY	FEBRUARY			MARCH			APRIL			MAY		
	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	2.5	2.5	2.5	3.5	3.0	3.5	6.5	5.5	5.5	9.0	8.5	8.5
2	2.5	2.5	2.5	3.5	3.5	3.5	6.0	5.5	5.5	9.0	8.0	8.5
3	2.5	2.5	2.5	3.5	3.5	3.5	5.5	5.5	5.5	9.0	7.0	8.0
4	2.5	2.5	2.5	3.5	3.5	3.5	6.0	5.5	5.5	8.5	7.5	8.0
5	2.5	2.5	2.5	---	---	---	5.5	5.5	5.5	9.0	7.5	8.5
6	2.5	2.0	2.5	---	---	---	6.0	5.5	5.5	9.0	8.5	8.5
7	2.5	2.0	2.0	---	---	---	6.5	5.5	6.0	9.0	8.5	9.0
8	2.5	2.0	2.0	---	---	---	6.5	6.0	6.5	9.0	8.5	9.0
9	2.5	2.0	2.0	---	---	---	7.0	6.0	6.5	9.0	9.0	9.0
10	2.5	2.0	2.0	---	---	---	7.0	6.5	6.5	10.0	9.0	9.0
11	2.0	2.0	2.0	4.0	3.5	3.5	6.5	6.5	6.5	9.5	9.0	9.0
12	2.5	2.0	2.0	3.5	3.0	3.5	7.0	6.0	6.5	9.5	9.0	9.0
13	2.5	2.0	2.0	4.0	3.5	3.5	7.0	6.5	6.5	10.0	9.0	9.5
14	2.5	2.0	2.0	4.0	3.5	3.5	7.0	6.5	7.0	10.0	9.0	9.5
15	2.0	2.0	2.0	4.0	3.5	3.5	7.0	6.5	7.0	10.5	9.5	10.0
16	2.5	2.0	2.0	3.5	3.5	3.5	7.0	6.5	7.0	11.0	10.0	10.5
17	2.5	2.0	2.5	3.5	3.0	3.5	7.5	7.0	7.0	10.5	10.0	10.5
18	2.5	2.0	2.0	3.5	3.0	3.5	8.0	7.0	7.5	10.5	10.0	10.5
19	2.5	2.0	2.5	4.0	3.5	3.5	8.5	7.0	7.5	10.5	8.5	9.5
20	2.5	2.5	2.5	4.0	3.5	3.5	9.0	7.0	8.0	10.0	9.0	9.0
21	3.0	2.5	2.5	4.5	3.5	4.0	9.5	8.0	9.0	10.5	9.5	10.0
22	2.5	2.5	2.5	4.0	3.5	4.0	9.0	7.0	8.5	10.5	10.0	10.0
23	3.0	2.5	2.5	4.0	3.5	4.0	9.0	7.0	8.0	10.5	10.5	10.5
24	3.0	2.5	2.5	4.5	3.5	4.0	9.0	8.5	9.0	11.0	10.5	11.0
25	3.0	2.5	3.0	4.5	4.0	4.0	9.5	9.0	9.0	11.0	10.5	11.0
26	3.5	2.5	3.0	5.0	4.0	4.0	9.0	7.5	8.5	10.5	10.5	10.5
27	3.0	3.0	3.0	5.0	4.0	4.5	8.5	7.5	7.5	11.0	10.5	10.5
28	3.5	3.0	3.0	5.0	4.0	4.5	8.5	7.5	8.0	11.0	10.5	11.0
29	3.5	3.0	3.0	5.0	4.5	5.0	9.0	7.5	8.5	11.0	10.5	11.0
30	---	---	---	6.0	5.0	5.5	9.0	8.0	8.5	12.0	11.0	11.5
31	---	---	---	6.0	5.5	6.0	---	---	---	11.5	11.0	11.0
MONTH	3.5	2.0	2.5	6.0	3.0	4.0	9.5	5.5	7.0	12.0	7.0	9.5
DAY	JUNE			JULY			AUGUST			SEPTEMBER		
	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	11.5	11.0	11.0	14.5	13.5	14.0	13.5	13.0	13.0	16.0	15.5	15.5
2	12.5	11.0	12.0	14.5	14.0	14.0	14.5	12.5	13.0	15.5	15.5	15.5
3	12.0	11.5	11.5	14.5	14.0	14.0	14.5	12.5	13.5	16.0	15.5	15.5
4	12.5	11.5	12.0	15.0	14.0	14.5	14.5	12.5	13.5	15.5	15.0	15.5
5	13.0	11.5	12.0	15.0	14.0	14.5	14.5	12.5	13.5	16.0	15.0	15.5
6	12.0	11.5	11.5	15.0	14.0	14.5	14.0	13.0	13.0	16.0	14.5	15.0
7	12.0	11.0	11.5	15.5	14.0	14.5	13.5	13.0	13.5	16.0	14.5	15.0
8	12.5	12.0	12.0	14.5	14.0	14.0	14.0	13.0	13.5	16.0	14.5	15.0
9	12.5	12.0	12.0	15.0	14.0	14.5	15.0	13.0	14.0	16.0	14.5	15.0
10	13.0	11.0	12.0	15.0	14.0	14.5	15.0	14.0	14.5	15.0	14.0	14.5
11	12.5	11.0	11.5	14.5	14.0	14.0	15.5	14.5	14.5	15.0	14.0	14.5
12	13.0	11.0	12.0	14.5	14.0	14.0	15.0	14.0	14.5	15.5	14.0	14.5
13	12.0	11.0	11.5	14.0	14.0	14.0	15.0	14.0	14.5	16.0	14.0	14.5
14	12.0	11.5	11.5	15.0	14.0	14.5	14.5	13.0	14.0	16.0	14.5	15.0
15	13.0	11.5	12.0	15.0	14.0	14.5	14.0	13.0	13.5	15.0	14.5	14.5
16	12.5	11.5	12.0	14.5	14.0	14.0	14.5	13.0	13.5	15.0	14.5	15.0
17	12.5	11.5	12.0	15.0	14.0	14.5	14.5	13.0	13.5	15.5	14.5	15.0
18	12.5	11.5	12.0	15.0	14.0	14.5	15.5	13.0	14.0	15.5	14.5	15.0
19	12.5	11.0	12.0	15.0	14.5	14.5	16.0	8.5	13.5	15.5	14.5	15.0
20	12.5	11.0	11.5	15.0	14.5	14.5	19.5	14.5	16.0	15.5	14.5	15.0
21	13.5	11.5	12.5	15.0	14.5	14.5	16.0	14.0	15.0	15.5	14.5	15.0
22	13.5	13.0	13.0	15.5	14.5	15.0	16.0	14.5	15.0	15.0	14.0	14.5
23	14.0	13.0	13.5	15.0	14.5	14.5	15.5	14.5	14.5	15.5	14.0	14.5
24	14.0	13.0	13.5	15.0	14.0	14.5	23.0	14.0	17.0	15.5	14.0	14.5
25	14.0	13.0	13.5	15.5	14.0	14.5	15.0	11.0	13.5	15.5	14.0	14.5
26	14.5	14.0	14.0	14.5	13.0	14.0	16.0	12.0	14.5	14.0	14.0	14.0
27	14.0	14.0	14.0	14.0	13.0	13.0	16.0	15.5	16.0	14.5	14.0	14.0
28	14.5	13.5	14.0	14.5	13.0	13.5	16.0	16.0	16.0	14.5	14.0	14.0
29	14.5	14.0	14.0	13.5	13.0	13.0	16.0	15.5	16.0	14.5	14.0	14.0
30	14.5	14.0	14.5	13.5	12.5	13.0	16.0	15.5	16.0	14.0	14.0	14.0
31	---	---	---	14.0	13.0	13.0	16.0	15.5	15.5	---	---	---
MONTH	14.5	11.0	12.5	15.5	12.5	14.0	23.0	8.5	14.5	16.0	14.0	15.0

01450500 AQUASHICOLA CREEK AT PALMERTON, PA

LOCATION.--Lat 40°48'22", long 75°35'54", Carbon County, Hydrologic Unit 02040106, on right bank 1,200 ft (370 m) upstream from Sixth Street Bridge in Palmerton, and 1.2 mi (1.9 km) upstream from mouth.

DRAINAGE AREA.--76.7 mi² (198.7 km²).

WATER-DISCHARGE RECORDS

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

REVISED RECORDS.--WSP 1051: 1940-45 (monthly net diversion), drainage area. WDR PA-68: 1967 (monthly net diversion).

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

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

AVERAGE DISCHARGE.--37 years, 151 ft³/s (4.28 m³/s), 26.68 in/yr (678 mm/yr), adjusted for diversion.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 11,700 ft³/s (331 m³/s) July 10, 1945, gage height, 13.63 ft (4.154 m), from rating curve extended above 2,500 ft³/s (71 m³/s) on basis of contracted-opening measurement of peak flow; minimum, 2.6 ft³/s (0.074 m³/s) Sept. 12, 1957, from rating curve extended below 16 ft³/s (0.45 m³/s); minimum gage height, 2.44 ft (0.74 m) Sept. 16, 1964; minimum daily discharge, 9.1 ft³/s (0.26 m³/s) Sept. 15, 1964.

EXTREMES FOR CURRENT YEAR.--Peak discharges above base of 1,000 ft³/s (28.3 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. 19	1930	1,300 36.8	6.06 1.847	Jan. 27	0200	*3,320 94.0	*8.75 2.667

Minimum discharge, 44 ft³/s (1.25 m³/s) Sept. 14, 15, gage height, 2.92 ft (0.890 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	129	164	229	525	169	493	135	104	176	63	59
2	172	122	152	194	688	160	582	260	114	138	60	64
3	152	118	144	202	404	155	414	191	97	128	56	68
4	138	111	135	193	327	170	339	167	89	124	53	60
5	129	105	131	165	281	157	287	154	83	116	52	58
6	122	99	128	146	252	151	251	145	83	103	52	54
7	111	95	124	144	223	147	223	139	89	113	72	51
8	105	129	118	155	205	144	202	130	80	108	119	50
9	99	105	118	124	188	141	185	123	75	94	183	49
10	95	172	128	117	171	143	170	118	72	85	283	51
11	145	264	116	118	202	142	161	118	71	137	249	52
12	143	339	106	115	196	138	149	180	69	110	194	48
13	115	883	103	111	177	200	139	129	65	97	164	47
14	105	751	101	376	172	228	132	121	66	91	143	45
15	101	517	100	177	150	227	123	117	66	84	131	45
16	99	405	100	139	159	224	119	124	69	93	138	76
17	191	336	94	120	343	217	114	147	104	120	112	169
18	299	290	92	91	256	191	107	203	74	90	100	101
19	893	255	85	88	258	186	103	217	67	83	93	83
20	938	231	83	86	241	178	101	212	79	79	87	75
21	545	269	84	84	219	174	97	211	185	77	83	73
22	409	255	82	83	303	168	95	190	196	75	81	67
23	325	220	82	82	316	161	92	170	230	75	77	62
24	274	213	74	81	283	158	89	158	177	83	73	60
25	249	205	76	80	256	156	92	148	149	70	71	58
26	220	193	226	1060	228	149	108	139	127	64	74	84
27	196	201	258	2400	208	146	89	128	112	61	98	175
28	177	185	211	1570	191	159	83	117	105	61	77	152
29	162	166	186	751	178	139	80	112	122	68	69	133
30	150	158	176	505	---	132	77	115	147	80	63	128
31	138	---	210	384	---	129	---	108	---	68	60	---
TOTAL	7100	7521	3987	10170	7600	5139	5296	4726	3166	2951	3230	2297
MEAN	229	251	129	328	262	166	177	152	106	95.2	104	76.6
MAX	938	883	258	2400	688	228	582	260	230	176	283	175
MIN	95	95	74	80	150	129	77	108	65	61	52	45
(f)	-.3	-.1	-1.0	-.4	+2	-.7	-.9	-.2	-1.2	-.5	+2	+6
MEAN#	229	251	128	328	262	165	176	152	105	94.7	104	77.2
CFSM#	2.99	3.27	1.67	4.28	3.42	2.15	2.29	1.98	1.37	1.23	1.36	1.01
IN.#	3.45	3.65	1.92	4.93	3.69	2.48	2.56	2.28	1.53	1.42	1.57	1.13

CAL YR 1975	TOTAL	76550	MEAN 210	MAX 1360	MIN 43	MEAN# 210	CFSM# 2.73	IN.# 37.11
WTH YR 1976	TOTAL	63183	MEAN 173	MAX 2400	MIN 45	MEAN# 172	CFSM# 2.25	IN.# 30.58

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

Adjusted for diversion.

DELAWARE RIVER BASIN

01450500 AQUASHICOLA CREEK AT PALMERTON, PA--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--October 1975 to current year.

COOPERATION.--Water-quality data were furnished by the Pennsylvania Department of Environmental Resources.

WATER QUALITY DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

DATE	TIME	CODE FOR AGENCY COL- LECTING SAMPLE	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)	HARD- NESS (CA, MG) (MG/L)	MINERAL ACIDITY (METHYL ORANGE) AS CACO3 (MG/L)	ACIDITY CO2 AS CACO3 (MG/L)	DIS- SOLVED CAL- CIUM (CA) (MG/L)
OCT 20...	1200	9813	910	90	--	12.0	15	9.2	42	0	0	10
NOV 12...	1125	9813	234	90	7.1	9.5	2	10.0	43	0	0	12
DEC 22...	1230	9813	84	130	--	2.0	2	5.2	71	--	0	16
JAN 13...	1015	9813	99	120	7.0	2.0	2	12.7	68	0	0	17
FEB 18...	1115	9813	252	110	7.0	6.0	5	12.0	45	0	0	14
MAR 24...	1230	9813	158	120	7.5	10.0	<1	10.1	47	0	0	6.3
APR 08...	1130	9813	203	150	7.5	10.0	2	10.6	54	0	0	16
MAY 12...	1105	9813	180	130	7.5	13.0	28	10.1	136	0	0	13
JUN 30...	1000	9813	101	190	8.5	21.0	4	9.0	90	--	0	22
JUL 21...	1125	9813	77	200	8.5	22.0	2	8.6	65	--	0	25
AUG 17...	1030	9813	113	190	7.6	18.0	3	9.7	66	--	0	20

DATE	DIS- SOLVED MAG- NE- SIUM (MG) (MG/L)	ALKA- LINITY AS CACO3 (MG/L)	DIS- SOLVED SULFATE (SO4) (MG/L)	DIS- SOLVED CHLO- RIDE (CL) (MG/L)	TOTAL FILT- RABLE RESIDUE (MG/L)	TOTAL NITRATE (N) (MG/L)	TOTAL NITRITE (N) (MG/L)	TOTAL AMMONIA NITRO- GEN (N) (MG/L)	TOTAL PHOS- PHORUS (P) (MG/L)	TOTAL IRON (FE) (UG/L)	TOTAL ZINC (ZN) (UG/L)	TOTAL ORGANIC CARBON (C) (MG/L)
OCT 20...	4.0	22	24	5.0	88	1.9	.02	.14	.04	740	1400	3.0
NOV 12...	3.0	24	28	6.0	88	2.0	.03	.18	.05	190	740	5.0
DEC 22...	7.2	42	30	6.0	106	1.4	.03	.45	.20	170	1300	--
JAN 13...	6.0	28	68	7.0	142	1.6	.04	.47	.11	40	1350	--
FEB 18...	2.0	26	32	7.0	--	1.7	.03	.23	.09	140	860	--
MAR 24...	7.5	28	28	5.0	100	1.4	.04	.16	.06	90	780	--
APR 08...	3.5	28	36	16	80	1.5	.02	.25	.05	110	1060	--
MAY 12...	25	38	28	5.0	112	1.4	.04	.54	.14	610	810	--
JUN 30...	8.5	44	34	7.0	160	1.3	.05	.26	.11	240	1200	--
JUL 21...	.3	40	36	7.0	134	1.5	.06	1.3	.19	200	800	--
AUG 17...	3.5	32	24	8.0	42	1.5	.04	.36	.11	410	1160	--

DATE	TIME	CODE FOR AGENCY COL- LECTING SAMPLE	TOTAL CHRO- MIUM (CR) (UG/L)	TOTAL COPPER (CU) (UG/L)	TOTAL LEAD (PB) (UG/L)	TOTAL MAN- GANESE (MN) (UG/L)	TOTAL NICKEL (NI) (UG/L)
NOV 12...	1125	9813	--	--	--	220	--
FEB 18...	1115	9813	<10	<10	<50	270	<10
MAY 12...	1105	9813	<10	20	<50	490	<10
AUG 17...	1030	9813	<10	20	<50	330	<10

DELAWARE RIVER BASIN

75

01451000 LEHIGH RIVER AT WALNUTPORT, PA

LOCATION.--Lat 40°45'25", long 75°36'12", Northampton County, Hydrologic Unit 02040106, on left bank 0.3 mi (0.5 km) upstream from highway bridge at Walnutport, and 0.4 mi (0.6 km) upstream from Trout Creek. Water-quality sampling site 0.2 mi (0.3 km) downstream.

DRAINAGE AREA.--889 mi² (2,303 km²).

WATER-DISCHARGE RECORDS

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

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

REMARKS.--Records good. Flow regulated by Wild Creek Reservoir since January 1941, Penn Forest Reservoir since October 1958, Francis E. Walter Lake since February 1961, and Beltzville Lake since February 1971 (see p. 311).

AVERAGE DISCHARGE.--30 years, 1,823 ft³/s (51.6 m³/s), 27.84 in/yr (707 mm/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 77,800 ft³/s (2,200 m³/s) Aug. 19, 1955, gage height, 17.68 ft (5.389 m); minimum, 57 ft³/s (1.61 m³/s) July 27, 1965, gage height, 1.25 ft (0.381 m), result of upstream shutoff.

EXTREMES OUTSIDE OF PERIOD OF RECORD.--Maximum stage known, 20.6 ft (6.28 m) May 23, 1942, from floodmarks.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 22,800 ft³/s (646 m³/s) Jan. 27, gage height, 8.70 ft (2.652 m); minimum, 460 ft³/s (13.0 m³/s) Sept. 15, gage height, 2.00 ft (0.610 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	2640	1650	2170	2440	8270	2420	4060	1520	1410	4130	1230	779
2	2200	1590	1930	2190	9010	2170	5670	2910	1570	3880	1000	739
3	1860	1540	1860	2180	5860	2110	4580	2640	1570	2730	763	772
4	1570	1500	1750	2120	4560	2160	4030	2510	1430	2400	677	712
5	1510	1480	1570	1760	3830	2130	3530	2000	1190	2010	655	681
6	1440	1370	1540	1600	3430	2100	2690	1910	1140	1770	654	644
7	1290	1340	1510	1650	3250	2030	2580	1880	1500	1640	886	561
8	1250	1570	1450	1550	3110	1960	2450	1670	1410	1610	1740	515
9	1210	1510	1380	1580	2710	1820	2200	1600	1330	1410	2710	506
10	1140	1850	1480	1410	2230	1820	1830	1520	1270	1240	3170	545
11	1400	2890	1520	1500	2130	1750	1780	1450	1030	1540	3200	608
12	1840	3410	1490	1400	2150	1720	1720	1700	990	1670	2420	531
13	1720	6540	1430	1410	2020	2010	1650	1480	847	1310	1780	502
14	1570	6600	1390	2080	2070	2290	1600	1400	827	1330	1490	489
15	1220	5450	1340	1680	1900	2370	1540	1380	830	1270	1410	475
16	1200	4450	1240	1490	1910	2250	1510	1420	839	1230	1550	647
17	1220	3390	1210	1390	3720	2110	1390	2130	986	1580	1310	1570
18	3900	3390	1190	1250	3460	1940	1310	2690	1000	1490	1160	1620
19	6960	3000	1180	1100	4330	1800	1270	2640	877	1220	1380	1470
20	7330	2520	1130	1000	5100	1850	1210	2870	886	1090	1110	1430
21	6540	2610	1070	950	4710	1930	1140	2800	1550	968	1190	1220
22	6100	3140	1080	920	4960	2000	1120	2780	3270	962	943	1030
23	5680	3170	1050	900	4820	2160	1100	2510	3000	925	761	854
24	4810	2880	1030	1090	3990	1930	1050	2330	2160	1070	724	730
25	3530	2590	1160	1090	3570	1730	1060	2060	1880	1110	700	689
26	3360	2450	1980	6250	3300	1690	1830	2010	1670	1050	709	808
27	3130	2360	3050	19100	2990	1570	2120	1840	1510	792	1130	1570
28	2620	2450	2730	11000	2730	2220	1910	1670	1300	635	1020	1960
29	1980	2430	2090	9590	2650	2770	1440	1590	1370	807	943	1880
30	1900	2270	1910	8740	---	2260	1390	1590	1960	1340	891	1320
31	1790	---	2390	8430	---	2100	---	1460	---	1360	857	---
TOTAL	86020	83390	49300	100840	108770	63170	62760	61960	42602	47569	40168	27857
MEAN	2775	2780	1590	3253	3751	2038	2092	1999	1420	1534	1296	929
MAX	7330	6600	3050	19100	9010	2770	5670	2910	3270	4130	3200	1960
MIN	1180	1340	1030	900	1900	1570	1050	1380	827	635	654	475
CFSM	3.12	3.13	1.79	3.66	4.22	2.29	2.35	2.25	1.60	1.73	1.46	1.04
IN.	3.60	3.49	2.06	4.22	4.55	2.64	2.63	2.59	1.78	1.99	1.68	1.17

CAL YR 1975	TOTAL	874381	MEAN	2396	MAX	10900	MIN	504	CFSM	2.70	IN	36.59
WTR YR 1976	TOTAL	774406	MEAN	2116	MAX	19100	MIN	475	CFSM	2.38	IN	32.40

DELAWARE RIVER BASIN

01451000 LEHIGH RIVER AT WALNUTPORT, PA--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--October 1975 to current year.

COOPERATION.--Water-quality data were furnished by the Pennsylvania Department of Environmental Resources.

WATER QUALITY DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

DATE	TIME	CODE FOR AGENCY COL- LECTING SAMPLE	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)
OCT 20...	1135	9813	7160	70	--	12.5	11	9.6	--
NOV 12...	1030	9813	2850	70	6.7	9.0	3	10.3	--
DEC 22...	1145	9813	966	90	--	.0	2	5.6	--
JAN 13...	1045	9813	1410	80	6.6	1.0	2	13.0	--
FEB 18...	1045	9813	3300	90	6.6	5.5	5	12.0	.9
MAR 24...	1250	9813	1930	80	6.7	8.0	<1	12.0	--
APR 08...	1200	9813	2450	80	6.7	9.0	2	11.1	--
MAY 12...	1030	9813	1700	100	6.8	14.0	10	10.1	2.7
JUN 30...	1025	9813	1560	360	6.7	21.0	4	8.7	--
JUL 21...	1055	9813	954	130	7.3	22.5	1	8.8	--
AUG 17...	0930	9813	1310	120	6.8	17.8	2	9.1	.8

DATE	HARD- NESS (CA+MG) (MG/L)	MINERAL ACIDITY (METHYL ORANGE) AS CACO3 (MG/L)	ACIDITY CO2 AS CACO3 (MG/L)	DIS- SOLVED CAL- CIUM (CA) (MG/L)	DIS- SOLVED MAG- NE- SIUM (MG) (MG/L)	ALKA- LINITY AS CACO3 (MG/L)	DIS- SOLVED SULFATE (SO4) (MG/L)	DIS- SOLVED CHLO- RIDE (CL) (MG/L)	TOTAL FILT- RABLE RESIDUE (MG/L)
OCT 20...	27	0	0	6.3	2.5	8	18	6.0	70
NOV 12...	24	0	0	7.1	1.5	12	22	8.0	78
DEC 22...	45	--	0	7.1	6.7	16	20	7.0	56
JAN 13...	54	0	0	7.1	9.0	8	24	9.0	82
FEB 18...	27	0	0	7.1	2.0	16	24	14	--
MAR 24...	32	0	0	13	.0	12	18	8.0	54
APR 08...	154	0	0	7.1	34	14	26	8.0	40
MAY 12...	55	0	0	7.1	9.0	18	24	--	104
JUN 30...	60	--	0	32	--	132	30	7.0	106
JUL 21...	34	--	0	10	2.0	16	26	12	92
AUG 17...	42	--	0	11	--	14	12	8.0	66

DELAWARE RIVER BASIN

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01451000 LEHIGH RIVER AT WALNUTPORT, PA--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

DATE	TOTAL NITRATE (N) (MG/L)	TOTAL NITRITE (N) (MG/L)	TOTAL AMMONIA NITRO- GEN (N) (MG/L)	TOTAL PHOS- PHORUS (P) (MG/L)	TOTAL IRON (FE) (UG/L)	TOTAL ORGANIC CARBON (C) (MG/L)	CYANIDE (CN) (MG/L)	METHY- LENE BLUE ACTIVE SUB- STANCE (MG/L)
OCT 20...	1.2	.02	.07	.03	340	3.0	--	--
NOV 12...	1.0	.02	.06	.05	330	6.0	--	.02
DEC 22...	.88	.04	.11	.10	230	--	--	--
JAN 13...	1.0	.03	.11	.06	200	--	--	--
FEB 18...	1.1	.06	.10	.08	220	--	.10	.00
MAR 26...	.88	.04	.04	.05	110	--	--	--
APR 08...	.90	.04	.05	.04	120	--	--	--
MAY 12...	.84	.03	.09	.08	220	--	.01	.00
JUN 30...	1.7	.08	.10	.08	340	--	--	--
JUL 21...	.82	.02	.15	.06	120	--	--	--
AUG 17...	.80	.03	.12	.02	220	--	<.01	.00

DATE	TIME	CODE FOR AGENCY COL- LECTING SAMPLE	TOTAL ALUM- INUM (AL) (UG/L)	TOTAL CHRO- MIUM (CR) (UG/L)	TOTAL COPPER (CU) (UG/L)	TOTAL LEAD (PB) (UG/L)	TOTAL MAN- GANESE (MN) (UG/L)	TOTAL NICKEL (NI) (UG/L)	TOTAL ZINC (ZN) (UG/L)
NOV 12...	1030	9813	310	--	--	--	130	--	--
FEB 18...	1045	9813	500	10	<10	<50	180	<10	230
MAY 12...	1030	9813	250	<10	10	<50	180	10	280
AUG 17...	0930	9813	400	<10	10	<50	180	10	280

DELAWARE RIVER BASIN

01451500 LITTLE LEHIGH CREEK NEAR ALLENTOWN, PA

LOCATION.--Lat 40°34'56", long 75°29'00", Lehigh County, Hydrologic Unit 02040106, on right bank at downstream side of bridge on Lehigh Parkway in Allentown, 0.8 mi (1.3 km) upstream from Cedar Creek, and 2.9 mi (4.7 km) upstream from mouth.

DRAINAGE AREA.--80.8 mi² (209.3 km²).

WATER-DISCHARGE RECORDS

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

REVISED RECORDS.--WDR PA-73: 1946(M), 1951(P), 1955(M), 1956(M), 1958(M), 1962(M), 1963(M), 1965(M), 1969(M), 1971(M).

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

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

AVERAGE DISCHARGE.--31 years, 99.5 ft³/s (2.818 m³/s), 16.06 in/yr (408 mm/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 11,800 ft³/s (334 m³/s) June 22, 1972, gage height, 11.80 ft (3.597 m), from rating curve extended above 980 ft³/s (27.8 m³/s) on basis of slope-area measurement of peak flow; minimum, 17 ft³/s (0.48 m³/s) Feb. 4, 1965, gage height, 1.84 ft (0.561 m), result of upstream shutoff; minimum gage height, 1.39 ft (0.424 m) June 17, 18, 22, 1949.

EXTREMES FOR CURRENT YEAR.--Peak discharges above base of 450 ft³/s (12.7 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. 19	Unknown	790 22.4	3.90 1.189	Feb. 2	0415	483 13.7	3.43 1.045
Jan. 14	0345	537 15.2	3.52 1.073	Apr. 1	0930	598 16.9	3.62 1.103
Jan. 27	0030	*3,470 98.3	*6.42 1.957	Aug. 9	0015	477 13.5	3.42 1.042
Jan. 28	0330	1,790 50.7	4.95 1.509				

Minimum discharge, 50 ft³/s (1.42 m³/s) many days in September, gage height, 2.24 ft (0.683 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	148	156	156	233	240	147	372	141	95	111	58	54
2	143	156	153	170	372	144	246	178	102	82	56	55
3	137	153	148	161	206	147	183	122	93	78	55	56
4	133	153	144	160	187	154	171	112	85	75	54	55
5	130	150	142	137	180	148	162	109	81	72	54	53
6	130	147	141	133	170	141	153	110	80	69	54	52
7	127	147	141	136	161	137	148	109	81	83	78	51
8	124	161	138	158	158	134	144	106	79	82	129	51
9	123	153	139	133	153	134	140	103	76	76	179	51
10	124	176	143	125	150	137	136	100	74	70	157	52
11	135	188	138	126	185	139	135	96	73	107	88	52
12	128	203	134	127	203	142	131	109	71	89	75	51
13	121	363	132	129	182	221	130	98	70	75	72	50
14	119	279	132	373	181	192	128	95	71	72	90	50
15	115	211	132	182	155	160	127	94	73	69	83	50
16	110	189	134	142	164	162	126	102	74	69	94	79
17	122	178	130	133	257	176	124	116	120	67	73	103
18	400	172	127	119	209	148	121	121	86	63	67	69
19	530	168	121	119	213	148	120	115	78	62	64	61
20	440	165	120	120	180	144	117	105	76	61	63	56
21	270	187	121	120	165	143	116	141	91	61	61	55
22	220	191	121	120	229	143	115	109	95	62	59	54
23	204	166	119	113	202	135	113	98	87	61	58	53
24	191	161	115	115	170	133	111	95	78	68	57	52
25	190	159	114	112	166	133	113	92	73	62	57	51
26	186	155	250	1010	162	131	125	91	71	58	57	54
27	177	166	203	1760	158	130	113	90	68	58	60	79
28	172	159	147	923	154	142	110	86	69	58	58	77
29	168	152	136	288	148	130	106	85	105	60	57	60
30	164	150	138	217	---	127	105	90	106	61	55	56
31	158	---	183	188	---	125	---	88	---	59	53	---
TOTAL	5639	5314	4392	8082	5460	4527	4241	3306	2481	2199	2275	1742
MEAN	182	177	142	261	188	146	141	107	82.7	70.9	73.4	58.1
MAX	530	363	250	1760	372	221	372	178	120	111	179	103
MIN	110	147	114	112	148	125	105	85	68	58	53	50
CFSM	2.25	2.19	1.76	3.23	2.33	1.81	1.75	1.32	1.02	.88	.91	.72
IN.	2.60	2.45	2.02	3.72	2.51	2.08	1.95	1.52	1.14	1.01	1.05	.80

CAL YR 1975	TOTAL	57855	MEAN 159	MAX 636	MIN 84	CFSM 1.97	IN 26.64
WTR YR 1976	TOTAL	49658	MEAN 136	MAX 1760	MIN 50	CFSM 1.68	IN 22.86

DELAWARE RIVER BASIN

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01451500 LITTLE LEHIGH CREEK NEAR ALLENTOWN, PA--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--October 1975 to current year.

COOPERATION.--Water-quality data were furnished by the Pennsylvania Department of Environmental Resources.

WATER QUALITY DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

DATE	TIME	CODE FOR AGENCY COL- LECTING SAMPLE	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)	HARD- NESS (CA.MG) (MG/L)	MINERAL ACIDITY (METHYL ORANGE) AS CAC03 (MG/L)	ACIDITY CO2 AS CAC03 (MG/L)	DIS- SOLVED CAL- CIUM (CA) (MG/L)
OCT 16...	1315	9813	116	250	--	14.5	3	10.5	120	0	0	39
NOV 19...	1240	9813	169	220	8.5	11.0	1	11.2	144	--	0	37
DEC 16...	1105	9813	135	240	--	9.0	2	11.7	150	--	0	35
FEB 19...	1335	9813	214	210	7.8	8.5	35	12.0	90	0	0	33
MAY 20...	1220	9813	100	350	8.5	11.5	4	10.3	140	0	0	33

DATE	DIS- SOLVED MAG- NE- SIUM (MG) (MG/L)	ALKA- LINITY AS CAC03 (MG/L)	DIS- SOLVED SULFATE (SO4) (MG/L)	DIS- SOLVED CHLO- RIDE (CL) (MG/L)	TOTAL FILT- RABLE RESIDUE (MG/L)	TOTAL NITRATE (N) (MG/L)	TOTAL NITRITE (N) (MG/L)	TOTAL AMMONIA NITRO- GEN (N) (MG/L)	TOTAL PHOS- PHORUS (P) (MG/L)	TOTAL IRON (FE) (UG/L)	TOTAL MAN- GANESE (MN) (UG/L)	TOTAL ORGANIC CARBON (C) (MG/L)
OCT 16...	5.5	138	50	11	252	3.5	.03	.03	.03	130	--	1.0
NOV 19...	12	130	24	11	234	3.4	.06	.04	.05	300	<10	--
DEC 16...	15	212	34	10	270	3.4	.05	.03	.22	210	--	--
FEB 19...	1.5	100	20	16	--	2.1	.06	.10	.14	1540	60	--
MAY 20...	14	118	18	11	222	3.5	.04	.06	.10	320	20	--

DELAWARE RIVER BASIN

01451800 JORDAN CREEK NEAR SCHNECKSVILLE, PA

LOCATION.--Lat 40°39'42", long 75°37'38", Lehigh County, Hydrologic Unit 02040106, on left bank 54 ft (16.5 m) downstream from wooden covered bridge at Trexler-Lehigh County Game Preserve, 1.0 mi (1.6 km) downstream from Mill Creek, and 1.1 mi (1.8 km) southwest of Schnecksville. Water-quality sampling site at bridge 54 ft (16.5 m) upstream.

DRAINAGE AREA.--53.0 mi² (137.3 km²).

WATER-DISCHARGE RECORDS

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

GAGE.--Water-stage recorder and concrete control. Altitude of gage is 400 ft (122 m) from topographic map. Prior to Oct. 2, 1973 nonrecording gage at bridge 54 ft (16.5 m) upstream at same datum.

REMARKS.--Records good.

AVERAGE DISCHARGE.--10 years, 91.7 ft³/s (2.597 m³/s), 23.49 in/yr (597 mm/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 7,100 ft³/s (201 m³/s) June 22, 1972, gage height, 12.32 ft (3.755 m), from floodmark, from rating curve extended above 680 ft³/s (19.3 m³/s) on basis of contracted-opening measurement of peak flow; minimum observed, 0.4 ft³/s (0.011 m³/s) July 26, 1966; minimum gage height observed, 1.74 ft (0.530 m) July 19, 26, 1966.

EXTREMES FOR CURRENT YEAR.--Peak discharges above base of 600 ft³/s (17.0 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)
Oct. 19	1315	728 20.6	5.12 1.561	Jan. 27	1830	2,040 57.8	7.34 2.237
Nov. 12	2400	835 23.6	5.35 1.631	Feb. 2	0030	960 27.2	5.60 1.707
Dec. 26	1430	752 21.3	5.18 1.579	Feb. 17	0015	672 19.0	4.98 1.518
Jan. 26	1615	*3,440 97.4	*9.01 2.746				

Minimum discharge, 2.6 ft³/s (0.074 m³/s) Sept. 15, gage height, 2.47 ft (0.753 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	138	62	73	229	347	75	375	55	34	56	9.6	3.7
2	117	59	64	171	446	71	323	179	48	30	7.9	5.3
3	96	56	58	167	161	76	238	75	35	27	6.6	9.0
4	83	52	53	144	133	91	189	62	29	34	5.8	6.2
5	73	49	52	120	97	80	149	54	26	25	5.4	5.6
6	67	46	52	94	72	74	124	49	23	21	5.5	4.6
7	59	43	51	91	60	67	105	45	27	32	19	3.8
8	54	78	44	100	57	63	91	40	24	29	22	3.3
9	51	51	46	55	54	60	79	36	21	24	25	2.9
10	51	134	55	54	51	66	71	34	18	19	52	4.5
11	71	157	46	58	179	65	66	32	16	49	20	6.1
12	58	293	42	61	118	66	58	53	16	29	14	4.4
13	46	745	40	58	93	216	54	34	15	21	11	3.7
14	41	497	40	500	85	252	51	30	15	19	11	2.9
15	37	312	40	140	55	210	48	28	16	17	13	2.9
16	34	226	40	99	134	189	45	32	17	17	40	39
17	35	177	36	60	334	164	43	77	76	17	15	64
18	221	146	35	49	184	130	41	93	27	13	11	22
19	499	124	28	48	185	122	39	69	22	12	9.1	15
20	460	108	27	47	150	108	37	52	21	11	8.1	12
21	309	151	26	44	122	101	35	93	97	11	7.0	12
22	239	122	25	41	244	90	33	63	99	12	7.1	10
23	187	95	25	37	189	77	31	55	93	11	6.2	8.9
24	153	88	24	35	152	73	30	51	65	17	5.7	8.2
25	138	83	27	33	131	69	33	48	54	10	5.4	7.9
26	118	78	240	1600	113	63	40	46	43	8.0	5.6	19
27	100	92	205	1760	101	62	31	42	37	7.5	5.6	60
28	87	79	135	556	89	80	24	37	35	8.0	6.6	46
29	78	68	106	227	79	58	23	34	39	12	5.8	30
30	71	65	105	152	---	54	22	40	40	15	4.4	28
31	65	---	176	111	---	52	---	36	---	11	3.7	---
TOTAL	3836	4336	2016	6941	4215	3024	2528	1674	1128	624.5	374.1	450.9
MEAN	124	145	65.0	224	145	97.5	84.3	54.0	37.6	20.1	12.1	15.0
MAX	499	745	240	1760	446	252	375	179	99	56	52	64
MIN	34	43	24	33	51	52	22	28	15	7.5	3.7	2.9
CFSM	2.34	2.74	1.23	4.23	2.74	1.84	1.59	1.02	.71	.38	.23	.28
IN.	2.69	3.04	1.41	4.87	2.96	2.12	1.77	1.17	.79	.44	.26	.32

CAL YR 1975	TOTAL	45797.0	MEAN 125	MAX 994	MIN 12	CFSM 2.36	IN 32.14
WTR YR 1976	TOTAL	31147.5	MEAN 85.1	MAX 1760	MIN 2.9	CFSM 1.61	IN 21.86

DELAWARE RIVER BASIN

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01451800 JORDAN CREEK NEAR SCHNECKSVILLE, PA--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--June 1972 to November 1975 (discontinued).

WATER QUALITY DATA, OCTOBER TO NOVEMBER 1975

DATE	TIME	DEPTH (FT)	INSTAN- TANEOUS DIS- CHARGE (CFS)	SPE- CIFIC CON- DUCT- ANCE (MICRO- MHOS)	PH (UNITS)	TEMPER- ATURE (DEG C)	DIS- SOLVED OXYGEN (MG/L)	IMME- DIATE COLI- FORM (COL. PER 100 ML)	FECAL COLI- FORM (COL. PER 100 ML)
OCT. 06...	1400	1.0	68	190	7.6	17.0	11.2	430	E34
NOV. 11...	1030	1.0	147	162	7.0	11.0	10.8	E11000	2500

DATE	STREP- TOCOCCI (COL- ONIES PER 100 ML)	ALKA- LINITY AS CACO3 (MG/L)	TOTAL 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)	TOTAL ORGANIC CARBON (C) (MG/L)
OCT. 06...	260	33	3.8	.04	.36	.40	.03	.01	1.2
NOV. 11...	>20000	20	2.4	.03	.64	.67	.09	.01	4.8

DELAWARE RIVER BASIN

01452000 JORDAN CREEK AT ALLENTOWN, PA

LOCATION.--Lat 40°37'23", long 75°28'58", Lehigh County, Hydrologic Unit 02040106, on right bank 200 ft (60 m) upstream from bridge on State Highway 145, 0.5 mi (0.8 km) northwest of city limits of Allentown, and 2.5 mi (4.0 km) upstream from mouth. Water-quality sampling site at bridge 200 ft (60 m) downstream.

DRAINAGE AREA.--75.8 mi² (196.3 km²).

WATER-DISCHARGE RECORDS

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

GAGE.--Water-stage recorder and rubble masonry control, crest raised one foot (0.3 m) in August 1958 and further modified by filling in square notches on sides and notching center of dam at 17:1 slope in August 1974. Datum of gage is 259.82 ft (79.193 m) above mean sea level (Pennsylvania Department of Transportation benchmark).

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

AVERAGE DISCHARGE.--32 years, 110 ft³/s (3.115 m³/s), 19.75 in/yr (502 mm/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 16,200 ft³/s (459 m³/s) June 23, 1972, gage height, 11.61 ft (3.539 m), from floodmark, from rating curve extended above 6,100 ft³/s (173 m³/s) on basis of slope-area measurement of peak flow; no flow on many days.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood of May 23, 1942, reached a stage of approximately 7.1 ft (2.16 m) outside, from floodmarks 650 ft (200 m) downstream.

EXTREMES FOR CURRENT YEAR.--Peak discharges above base of 1,300 ft³/s (36.8 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. 14	0815	1,930 54.7	5.28 1.609	Jan. 28	0015	3,460 98.0	6.18 1.884
Jan. 26	2045	*5,310 150	*7.10 2.164	Feb. 2	0430	1,490 42.2	4.96 1.512

Minimum discharge, 5.3 ft³/s (0.15 m³/s) Sept. 13, 14, gage height, 2.16 ft (0.658 m).

REVISIONS.--The maximum discharge for water year 1970 has been revised to about 5,100 ft³/s (144 m³/s)

April 3, 1970, gage height, about 7.0 ft (2.13 m), from graph, superseding figure published in report for 1970 and WSP 2102; revised daily discharge, in cubic feet per second, for the high-water period in February 1971, are given below. These figures supersede those published in reports for 1971 and 1972.

Feb. 13 2000

Feb. 14 750

Month	Total	Mean	Max	Min	Cfsm	In.
February 1971	9,696	346	2,000	37	4.57	4.76
Wtr Yr 1971	53,245	146	2,000	12	1.92	26.13
Cal Yr 1971	49,970	137	2,000	12	1.81	24.52

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	84	95	279	274	111	448	47	51	77	11	6.6
2	153	79	90	227	810	103	480	274	73	44	9.6	6.9
3	131	79	81	201	178	111	332	119	55	32	8.8	6.9
4	113	75	75	193	156	119	250	98	41	42	8.0	6.9
5	100	73	71	122	143	116	201	84	36	35	7.3	6.6
6	95	71	71	111	98	108	163	75	31	27	7.3	6.2
7	84	63	73	111	84	103	143	69	37	36	14	5.9
8	77	93	65	137	80	95	125	61	33	41	53	5.9
9	73	81	65	73	77	90	113	55	29	30	55	5.6
10	73	100	73	71	73	90	103	51	25	24	71	6.2
11	81	201	67	79	150	93	93	48	22	51	44	6.2
12	90	223	60	84	201	98	86	75	20	55	24	5.9
13	67	1160	56	75	137	218	79	58	18	29	18	6.2
14	60	802	55	794	137	342	75	47	18	24	15	5.6
15	55	454	55	214	90	279	71	44	18	21	15	5.9
16	51	300	56	131	98	236	65	50	22	19	32	17
17	51	227	51	93	528	223	63	105	103	19	26	71
18	259	182	51	76	250	171	58	125	50	17	15	33
19	715	160	28	67	245	160	55	103	30	15	12	15
20	746	143	28	65	206	146	53	81	28	14	10	9.6
21	454	160	28	61	171	137	50	131	93	12	8.8	7.6
22	326	171	28	56	290	128	48	103	125	11	7.6	6.9
23	240	125	27	51	264	111	47	86	116	12	7.3	6.6
24	197	116	27	49	206	105	41	77	88	12	7.3	6.6
25	174	111	27	47	178	100	48	71	69	18	7.3	6.6
26	153	105	150	1740	156	95	67	67	55	12	7.3	8.8
27	134	111	321	3330	140	90	55	63	45	11	7.3	50
28	119	111	182	1300	128	111	45	55	42	8.8	7.3	69
29	111	93	143	353	116	88	44	50	53	9.2	7.3	38
30	100	88	125	223	---	79	40	58	51	11	6.6	29
31	90	---	210	163	---	77	---	55	---	15	6.6	---
TOTAL	5350	5841	2534	10576	5664	4133	3541	2485	1477	784.0	536.7	468.2
MEAN	173	195	81.7	341	195	133	118	80.2	49.2	25.3	17.3	15.6
MAX	746	1160	321	3330	810	342	480	274	125	77	71	71
MIN	51	63	27	47	73	77	40	44	18	8.8	6.6	5.6
CFSM	2.28	2.57	1.08	4.50	2.57	1.75	1.56	1.06	.65	.33	.23	.21
IN.	2.63	2.87	1.24	5.19	2.78	2.03	1.74	1.22	.72	.38	.26	.23

CAL YR 1975	TOTAL	62396.0	MEAN	171	MAX	1920	MIN	14	CFSM	2.26	IN	30.62
WTR YR 1976	TOTAL	43389.9	MEAN	119	MAX	3330	MIN	5.6	CFSM	1.57	IN	21.29

DELAWARE RIVER BASIN

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01452000 JORDAN CREEK AT ALLENTOWN, PA--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--October 1975 to current year.

COOPERATION.--Water-quality data were furnished by the Pennsylvania Department of Environmental Resources.

WATER QUALITY DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

DATE	TIME	CODE FOR AGENCY COL- LECTING SAMPLE	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)	HARD- NESS (CA+MG) (MG/L)	MINERAL ACIDITY (METHYL ORANGE) AS CACO3 (MG/L)	ACIDITY CO2 AS CACO3 (MG/L)	DIS- SOLVED CAL- CIUM (CA) (MG/L)
OCT 16...	1245	9813	51	200	--	16.0	1	10.3	96	0	0	32
NOV 19...	1130	9813	196	160	7.5	10.0	2	10.5	96	--	--	24
DEC 16...	1025	9813	56	230	--	7.0	1	10.3	126	--	0	30
FEB 19...	1310	9813	290	180	7.2	7.0	20	11.7	100	0	0	23
MAY 13...	1330	9813	54	350	7.6	16.0	1	9.5	136	--	0	36
AUG 19...	1250	9813	11	500	8.5	18.0	3	8.0	176	--	0	46

DATE	DIS- SOLVED MAG- NE- SIUM (MG) (MG/L)	ALKA- LINITY AS CACO3 (MG/L)	DIS- SOLVED SULFATE (SO4) (MG/L)	DIS- SOLVED CHLO- RIDE (CL) (MG/L)	TOTAL FILT- RABLE RESIDUE (MG/L)	TOTAL NITRATE (N) (MG/L)	TOTAL NITRITE (N) (MG/L)	TOTAL AMMONIA NITRO- GEN (N) (MG/L)	TOTAL PHOS- PHORUS (P) (MG/L)	TOTAL IRON (FE) (UG/L)	TOTAL MAN- GANESE (MN) (UG/L)	TOTAL ORGANIC CARBON (C) (MG/L)
OCT 16...	3.5	78	16	13	202	2.3	.07	.12	.03	30	--	5.0
NOV 19...	9.0	52	34	11	162	4.0	.05	.10	.05	220	30	--
DEC 16...	12	242	62	12	234	3.5	.14	.45	.62	300	--	--
FEB 19...	10	40	28	17	--	2.3	.07	.20	.09	640	30	--
MAY 13...	11	68	62	11	248	2.0	.11	.45	.06	90	110	--
AUG 19...	15	136	74	17	352	.90	.08	.91	.04	350	230	--

DELAWARE RIVER BASIN

01452500 MONOCACY CREEK AT BETHLEHEM, PA

LOCATION.--Lat 40°38'28", long 75°22'47", Northampton County, Hydrologic Unit 02040106, on right bank 40 ft (12 m) downstream from highway bridge at entrance to Monocacy Park at Bethlehem, and 2.1 mi (3.4 km) upstream from mouth.

DRAINAGE AREA.--44.5 mi² (115.3 km²).

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

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

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

AVERAGE DISCHARGE.--28 years, 50.5 ft³/s (1.430 m³/s), 15.41 in/yr (391 mm/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 2,340 ft³/s (66.3 m³/s) Feb. 28, 1958, gage height, 7.63 ft (2.326 m), from rating curve extended above 560 ft³/s (15.9 m³/s) on basis of slope-area measurement at gage height, 9.74 ft (2.969 m); minimum, 3.0 ft³/s (0.085 m³/s) Jan. 9, 1966, gage height, 1.67 ft (0.509 m).

EXTREMES OUTSIDE OF PERIOD OF RECORD.--Flood of July 10, 1945, reached a stage of 9.74 ft (2.969 m), from floodmarks, discharge, 5,200 ft³/s (147 m³/s), by slope-area measurement.

EXTREMES FOR CURRENT YEAR.--Peak discharges above base of 300 ft³/s (8.50 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	Unknown	390 11.0	4.37 1.128	Jan. 26	2115	*2,150 60.9	*6.69 2.039
Jan. 14	0830	654 18.5	4.33 1.320	Feb. 2	0730	390 11.0	3.70 1.128

Minimum discharge, 27 ft³/s (0.76 m³/s) Sept. 8-16, 24, 25, 26, gage height, 2.24 ft (0.683 m).

/ From peak-stage indicator.

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	75	79	112	134	75	200	72	38	40	30	29
2	89	73	81	95	209	74	160	108	42	39	29	29
3	81	71	75	91	112	78	115	68	39	37	28	29
4	81	69	72	89	101	82	103	60	38	36	28	29
5	75	68	72	77	89	75	95	57	36	34	28	29
6	73	67	72	70	83	72	88	56	36	33	28	29
7	70	66	72	72	77	71	82	56	35	41	45	28
8	68	72	68	83	75	70	78	54	34	40	70	28
9	68	69	68	64	73	70	75	53	33	38	96	27
10	66	82	72	57	70	70	73	50	32	35	88	27
11	79	98	68	59	100	72	71	49	31	53	50	27
12	75	140	66	59	112	90	68	56	30	47	41	27
13	68	200	66	57	95	139	67	51	29	38	40	27
14	63	145	63	304	94	110	65	49	29	37	49	27
15	61	115	61	110	76	88	64	48	30	36	46	27
16	58	105	63	83	100	88	63	58	45	34	51	42
17	59	98	61	72	150	99	61	64	66	34	41	59
18	173	95	61	59	118	79	60	66	43	32	37	37
19	200	93	56	58	120	78	58	60	41	31	36	30
20	160	92	59	58	98	76	57	54	38	31	34	29
21	140	104	58	58	93	76	56	78	50	30	33	29
22	130	106	56	58	130	76	55	48	53	30	32	29
23	118	93	56	51	108	75	54	42	45	30	31	28
24	109	89	53	53	95	74	53	40	39	30	31	28
25	103	85	54	51	90	72	56	39	34	30	30	27
26	99	84	143	720	85	70	60	38	33	29	30	27
27	94	89	123	1000	81	69	96	37	33	29	30	48
28	90	85	93	350	77	80	53	36	33	29	30	42
29	86	79	83	137	76	66	52	35	37	30	30	32
30	82	79	75	105	---	64	52	37	37	31	30	30
31	78	---	99	85	---	62	---	35	---	30	30	---
TOTAL	2891	2786	2248	4397	2921	2440	2290	1654	1139	1074	1232	936
MEAN	93.3	92.9	72.5	142	101	78.7	76.3	53.4	38.0	34.6	39.7	31.2
MAX	200	200	143	1000	209	139	200	108	66	53	96	59
MIN	58	66	53	51	70	62	52	35	29	29	28	27
CFSM	2.10	2.09	1.63	3.19	2.27	1.77	1.71	1.20	.85	.78	.89	.70
IN.	2.42	2.33	1.88	3.68	2.44	2.04	1.91	1.38	.95	.90	1.03	.78

CAL YR 1975	TOTAL	28173	MEAN 77.2	MAX 305	MIN 26	CFSM 1.73	IN 23.55
WTR YR 1976	TOTAL	26008	MEAN 71.1	MAX 1000	MIN 27	CFSM 1.60	IN 21.74

DELAWARE RIVER BASIN

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01453000 LEHIGH RIVER AT BETHLEHEM, PA

LOCATION.--Lat 40°36'55", long 75°22'45", Lehigh County, Hydrologic Unit 02040106, on left bank 110 ft (34 m) upstream from New Street Bridge at Bethlehem, and 1,800 ft (549 m) upstream from Monocacy Creek. Records include flow of Monocacy Creek.

DRAINAGE AREA.--1,279 mi² (3,313 km²) includes that of Monocacy Creek. At site used prior to Oct. 1, 1928, 1,229 mi² (3,183 km²).

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

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

GAGE.--Water-stage recorder. Datum of gage is 210.94 ft (64.295 m) above mean sea level. Prior to October 1928, nonrecording gage at New Street Bridge 120 ft (37 m) downstream at same datum. Oct. 1, 1928, to Sept. 30, 1962, water-stage recorder at site 4,250 ft (1,295 m) downstream at datum 2.49 ft (0.759 m) lower. Oct. 1, 1963 to Dec. 14, 1975, water-stage recorder at site 40 ft (12 m) downstream at same datum.

REMARKS.--Records fair. Flow regulated by Wild Creek Reservoir since January 1941, Penn Forest Reservoir since October 1958, Francis E. Walter Reservoir since February 1961, and Beltzville Lake since February 1971 (see p. 311).

AVERAGE DISCHARGE.--69 years (1902-4, 1909-76), 2,314 ft³/s (65.53 m³/s), 24.57 in/yr (624 mm/yr), adjusted for diversion 1902-04, 1909-42 and, for recirculated water, October 1, 1959 to September 30, 1962.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 92,000 ft³/s (2,610 m³/s) May 23, 1942, gage height, about 25.9 ft (7.89 m), from floodmark, present site and datum, from rating curve extended above 48,000 ft³/s (1,360 m³/s); minimum, 125 ft³/s (3.54 m³/s) June 28, 1965, gage height, 0.94 ft (0.287 m).

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood of Feb. 28, 1902, reached a stage of 24.9 ft (7.59 m) from floodmark, present site and datum, discharge, about 88,000 ft³/s (2,490 m³/s).

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 37,300 ft³/s (1,060 m³/s) Jan. 27, gage height, 13.58 ft (4.139 m); minimum, 657 ft³/s (18.6 m³/s) Sept. 15, gage height, 1.38 ft (0.421 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	4010	2620	3150	3900	9400	3260	5820	2190	2030	4650	1710	1110
2	3390	2480	2910	3400	12300	3050	7420	4220	2280	4680	1460	1040
3	2970	2430	2750	3300	7100	3050	6100	3560	2190	3580	1170	1100
4	2560	2330	2630	3280	5680	3070	5260	3360	2050	3110	963	1040
5	2370	2280	2370	2750	4830	3050	4700	2900	1760	2770	932	963
6	2290	2190	2300	2190	4310	2960	3740	2660	1610	2390	901	917
7	2160	2120	2260	2320	4010	2840	3540	2600	1960	2370	1330	841
8	2050	2440	2210	2600	3880	2770	3660	2390	2020	2280	2320	741
9	2000	2410	2150	2110	3600	2660	3240	2250	1860	2070	3960	741
10	1980	2710	2230	1950	3150	2660	2770	2150	1780	1780	4070	755
11	2120	4230	2240	2020	3200	2600	2660	2050	1510	2230	4030	855
12	2610	4850	2210	2110	3440	2580	2580	2450	1360	2450	3220	784
13	2620	10500	2130	2050	3090	3320	2470	2190	1220	1910	2250	727
14	2340	9820	2100	4720	3130	3720	2390	2030	1160	1850	1900	699
15	2030	7560	2070	2990	2880	3580	2280	1980	1190	1800	1550	685
16	1950	6250	2030	2430	2820	3480	2230	2070	1220	1660	2000	1160
17	2000	4750	1460	2140	5510	3340	2120	2010	1900	2070	1800	2180
18	5490	4610	1930	1630	4680	2980	2000	3640	1500	2050	1550	2230
19	10500	4230	1660	1530	4590	2820	1960	3480	1330	1800	1500	2000
20	11300	3700	1580	1440	5690	2790	1910	3640	1250	1510	1750	1860
21	9000	3670	1610	1390	5490	2810	1800	3700	2020	1380	1510	1610
22	7830	4370	1570	1350	5680	2860	1760	3600	3840	1330	1530	1380
23	7200	4140	1530	1310	5980	2920	1730	3280	3880	1280	1070	1140
24	6400	3870	1440	1550	5080	2750	1650	2990	3070	1500	1040	963
25	4780	3640	1430	1550	4540	2540	1680	2690	2580	1510	994	886
26	4420	3460	2850	9380	4200	2470	2370	2620	2320	1430	994	963
27	4180	3310	4360	31300	3820	2360	2810	2500	2110	1250	1400	2260
28	3800	3410	3560	17700	3560	2750	2670	2260	1880	932	1460	2600
29	2980	3310	2970	11100	3420	3320	2140	2180	1960	1070	1310	2520
30	2870	3220	2660	9810	---	2960	2000	2210	2360	1730	1230	2000
31	2760	---	3540	9350	---	2790	---	2090	---	1900	1170	---
TOTAL	124960	120910	72390	146650	138860	91110	89260	84780	59200	64222	54074	38750
MEAN	4031	4030	2335	4731	4788	2939	2975	2735	1973	2072	1744	1292
MAX	11300	10500	4360	31300	12300	3720	7420	4220	3880	4680	4070	2600
MIN	1950	2120	1430	1310	2820	2360	1650	1980	1160	932	901	685
CFSM	3.15	3.15	1.83	3.70	3.74	2.30	2.33	2.14	1.54	1.62	1.36	1.01
IN.	3.63	3.52	2.11	4.27	4.04	2.65	2.60	2.47	1.72	1.87	1.57	1.13

CAL YR 1975 TOTAL 1360420 MEAN 3727 MAX 16200 MIN 1410 CFSM 2.91 IN 39.57
WTR YR 1976 TOTAL 1085166 MEAN 2965 MAX 31300 MIN 685 CFSM 2.32 IN 31.56

DELAWARE RIVER BASIN

01454510 SAUCON CREEK NEAR HELLERTOWN, PA

LOCATION.--Lat 40°33'26", long 75°21'44", Northampton County, Hydrologic Unit 02040106, at bridge on Legislative Route 48001, 0.1 mi (0.2 km) downstream from Lehigh-Northampton County line, 1.5 mi (2.4 km) southwest of Hellertown city limits and 2.0 mi (3.2 km) downstream from South Branch.

DRAINAGE AREA.--not available.

PERIOD OF RECORD.--October 1975 to current year.

COOPERATION.--Water-quality data were furnished by the Pennsylvania Department of Environmental Resources.

WATER QUALITY DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

DATE	TIME	CODE FOR AGENCY COL- LECTING SAMPLE	SPE- CIFIC CON- DUCT- ANCE (MICRO- MHOS)	PH (UNITS)	TEMPER- ATURE (DEG C)	TUR- BID- ITY (JTU)	DIS- SOLVED OXYGEN (MG/L)	HARD- NESS (CA.MG) (MG/L)	MINERAL ACIDITY (METHYL AS CACO3 (MG/L)	ACIDITY CO2 AS CACO3 (MG/L)	DIS- SOLVED CAL- CIUM (CA) (MG/L)	DIS- SOLVED MAG- NE- SIUM (MG) (MG/L)
OCT 20...	1035	9813	200	--	13.0	10	9.3	100	0	0	30	6.0
NOV 19...	1330	9813	220	8.5	13.0	<1	11.2	132	0	0	36	10
DEC 16...	1230	9813	250	--	10.0	5	12.3	132	--	0	41	7.0
JAN 13...	1320	9813	230	8.5	9.0	10	11.5	162	0	0	38	16
FEB 23...	1125	9813	220	8.3	9.0	25	12.0	168	0	0	36	19
MAR 24...	0940	9813	260	8.5	11.5	35	10.7	138	0	0	32	--
APR 08...	1320	9813	250	8.5	14.0	6	10.1	150	0	0	37	14
MAY 20...	1300	9813	350	8.5	15.5	6	11.8	150	0	0	34	16
JUN 29...	1255	9813	330	8.5	20.0	32	9.3	204	0	0	34	29
JUL 20...	1410	9813	330	8.5	20.5	6	9.1	155	0	0	30	19
AUG 31...	0926	9813	290	--	--	4	--	136	--	0	39	9.5

DATE	ALKA- LITY AS CACO3 (MG/L)	DIS- SOLVED SULFATE (SO4) (MG/L)	DIS- SOLVED CHLO- RIDE (CL) (MG/L)	TOTAL FILT- RABLE RESIDUE (MG/L)	TOTAL NITRATE (N) (MG/L)	TOTAL NITRITE (N) (MG/L)	TOTAL AMMONIA NITRO- GEN (N) (MG/L)	TOTAL PHOS- PHORUS (P) (MG/L)	TOTAL IRON (FE) (UG/L)	TOTAL ZINC (ZN) (UG/L)	TOTAL ORGANIC CARBON (C) (MG/L)
OCT 20...	92	40	8.0	170	2.0	.03	.07	.07	170	400	4.0
NOV 19...	120	46	8.0	220	1.9	.06	.08	.11	100	20	--
DEC 16...	248	58	7.0	244	1.5	.05	.01	.11	280	430	--
JAN 13...	112	48	9.0	256	1.9	.07	.15	.10	260	700	--
FEB 23...	112	36	10	--	2.0	.04	.18	.16	480	210	--
MAR 24...	126	40	8.0	234	2.0	.04	.19	.12	480	270	--
APR 08...	122	40	8.0	190	1.9	.06	.16	.09	290	200	--
MAY 20...	116	32	7.0	218	1.8	.05	.10	.12	450	380	--
JUN 29...	128	28	8.0	244	1.7	.07	.08	.15	1040	520	--
JUL 20...	134	24	11	--	1.5	.04	.06	.06	300	--	--
AUG 31...	132	24	7.0	260	1.6	.06	.09	.01	180	170	--

DELAWARE RIVER BASIN

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01454653 SAUCON CREEK AT BETHLEHEM, PA

LOCATION.--Lat 40°36'27", long 75°20'24", Northampton County, Hydrologic Unit 02040106, at bridge on Legislative Route 48010 in Bethlehem, 1.2 mi (1.9 km) upstream from Lehigh River and 2.2 mi (3.5 km) downstream from Black River.

DRAINAGE AREA.--not available.

PERIOD OF RECORD.--October 1975 to current year.

COOPERATION.--Water-quality data were furnished by the Pennsylvania Department of Environmental Resources.

WATER QUALITY DATA. WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

DATE	TIME	CODE FOR AGENCY COL- LECTING SAMPLE	SPE- CIFIC CON- DUCT- ANCE (MICRO- MHOS)	PH (UNITS)	TEMPER- ATURE (DEG C)	TUR- BID- ITY (JTU)	DIS- SOLVED OXYGEN (MG/L)	HARD- NESS (CA.MG) (MG/L)	MINERAL ACIDITY (METHYL ORANGE) AS CACO3 (MG/L)
OCT									
16...	1140	9813	240	--	15.5	3	11.1	138	0
NOV									
19...	0935	9813	210	8.3	10.5	3	10.5	132	--
DEC									
16...	1345	9813	250	--	11.0	5	12.5	180	--
JAN									
13...	1145	9813	260	8.5	5.5	6	12.1	180	0
FEB									
23...	0950	9813	220	8.5	7.0	23	12.0	108	0
MAR									
24...	1030	9813	270	8.5	11.0	15	10.6	144	0
APR									
12...	1245	9813	500	8.5	10.5	8	10.8	162	0
MAY									
20...	1025	9813	360	8.5	13.0	5	10.7	142	0
JUN									
30...	1125	9813	320	8.5	18.5	15	9.1	164	--
JUL									
20...	1235	9813	350	8.5	20.0	5	9.1	165	--
AUG									
19...	1120	9813	380	8.5	17.0	8	11.5	156	--

DATE	ACIDITY CO2 AS CACO3 (MG/L)	DIS- SOLVED CAL- CIUM (CA) (MG/L)	DIS- SOLVED MAG- NE- SIUM (MG) (MG/L)	ALKA- LINITY AS CACO3 (MG/L)	DIS- SOLVED SULFATE (SO4) (MG/L)	DIS- SOLVED CHLO- RIDE (CL) (MG/L)	TOTAL FILT- RABLE RESIDUE (MG/L)	TOTAL NITRATE (N) (MG/L)	TOTAL NITRITE (N) (MG/L)
OCT									
16...	0	38	10	130	108	8.0	254	1.9	.06
NOV									
19...	0	36	10	118	44	9.0	--	1.7	.09
DEC									
16...	0	37	21	182	56	7.0	238	2.2	.06
JAN									
13...	0	40	20	116	44	13	236	2.2	.05
FEB									
23...	0	32	7.0	106	36	12	--	1.5	.04
MAR									
24...	0	35	16	122	40	8.0	264	2.0	.04
APR									
12...	0	36	17	122	32	7.0	208	1.5	.04
MAY									
20...	0	36	12	120	30	8.0	218	2.0	.06
JUN									
30...	0	28	23	136	28	7.0	260	1.6	.06
JUL									
20...	0	36	18	140	24	11	270	1.5	.04
AUG									
19...	0	40	13	126	30	10	264	1.7	.05

DELAWARE RIVER BASIN

01454653 SAUCON CREEK AT BETHLEHEM, PA--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

DATE	TOTAL AMMONIA NITRO- GEN (N) (MG/L)	TOTAL PHOS- PHORUS (P) (MG/L)	TOTAL IRON (FE) (UG/L)	TOTAL MAN- GANESE (MN) (UG/L)	TOTAL ZINC (ZN) (UG/L)	TOTAL ORGANIC CARBON (C) (MG/L)	CYANIDE (CN) (MG/L)	PHENOLS (UG/L)	PHENOLS (DIRECT PHOTO- METRIC) (UG/L)
OCT 16...	.02	.10	100	--	--	1.0	--	--	--
NOV 19...	.07	.13	430	10	--	--	.01	<10	--
DEC 16...	.09	.14	300	--	370	--	--	--	--
JAN 13...	.17	.13	200	--	--	--	--	--	--
FEB 23...	.15	.13	520	50	--	--	<.01	<10	--
MAR 24...	.09	.11	300	--	--	--	--	--	--
APR 12...	.04	.09	190	--	--	--	--	--	--
MAY 20...	.10	.12	320	30	140	--	.01	--	<10
JUN 30...	.10	.14	410	--	160	--	--	--	--
JUL 20...	.05	.05	290	--	160	--	--	--	--
AUG 19...	.09	.08	480	20	250	--	.01	<10	--

DELAWARE RIVER BASIN

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01454700 LEHIGH RIVER AT GLENDON, PA

LOCATION.--Lat 40°40'09", long 75°14'12", Northampton County, Hydrologic Unit 02040106, on right bank 140 ft (43 m) upstream from highway bridge in Hugh Moore Parkway at Glendon, 1.9 mi (3.1 km) upstream from mouth, and 2.0 mi (3.2 km) southwest of Easton.

DRAINAGE AREA.--1,359 mi² (3,520 km²).

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

REVISED RECORDS.--WDR PA-72: 1971(M).

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

REMARKS.--Records good. Flow regulated by Francis E. Walter, Penn Forest, and Wild Creek Reservoirs and since February 1971, Beltzville Lake about 60 mi (97 km) upstream (see p.

AVERAGE DISCHARGE.--10 years, 2,949 ft³/s (83.52 m³/s), 29.47 in/yr (749 mm/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 60,600 ft³/s (1,720 m³/s) June 23, 1972, gage height, 24.86 ft (7.577 m), from rating curve extended above 19,000 ft³/s (538 m³/s); minimum, 526 ft³/s (14.9 m³/s) Oct. 1, 1966, gage height, 6.59 ft (2.009 m).

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 35,000 ft³/s (991 m³/s) Jan. 27, gage height, 19.29 ft (5.880 m); minimum, 900 ft³/s (25.5 m³/s) Sept. 14, 15, gage height, 6.94 ft (2.115 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	4230	2730	3350	4380	10200	3650	6570	2380	2120	4420	1720	1250
2	3590	2610	3070	3710	13500	3280	8260	4420	2360	4650	1540	1170
3	3170	2550	2900	3560	7980	3210	6880	3730	2260	3610	1310	1220
4	2750	2480	2760	3550	6380	3300	5870	3480	2150	3090	1120	1170
5	2570	2410	2570	2990	5430	3280	5240	3020	1890	2750	1080	1100
6	2490	2320	2490	2360	4800	3160	4210	2710	1720	2350	1080	1070
7	2340	2240	2460	2500	4430	3040	3860	2660	1980	2400	1470	1010
8	2210	2550	2390	2860	4280	2940	3640	2480	2100	2270	2240	953
9	2160	2550	2330	2290	4000	2830	3450	2320	1950	2020	4020	966
10	2130	2730	2410	2100	3360	2820	2940	2270	1880	1780	4250	980
11	2320	4550	2420	2180	3400	2780	2800	2130	1670	2160	4090	1030
12	2790	4790	2390	2250	3860	2750	2720	2480	1520	2430	3240	990
13	2800	10600	2310	2210	3310	3630	2620	2290	1420	1940	2460	953
14	2540	10300	2260	5550	3360	4080	2540	2120	1340	1830	2090	926
15	2230	8230	2230	3380	2990	3890	2440	2070	1360	1820	1930	919
16	2050	6810	2150	2650	2950	3790	2390	2100	1360	1690	2160	1370
17	2080	5240	2050	2370	6140	3700	2300	2720	2140	2020	1910	2240
18	6200	5000	2010	1720	5310	3210	2160	3710	1620	2050	1700	2290
19	10500	4590	1860	1630	6000	3050	2130	3580	1440	1820	1610	2060
20	11600	3970	1770	1590	6620	3000	2080	3680	1360	1600	1850	1930
21	9550	3910	1800	1550	6300	3010	1970	3830	1980	1490	1520	1740
22	8490	4790	1750	1520	6980	3110	1940	3670	3650	1430	1610	1530
23	7870	4450	1700	1500	6890	3170	1910	3340	3870	1380	1180	1300
24	7010	4170	1590	1720	5750	3020	1840	3060	3050	1520	1160	1140
25	5380	3890	1580	1730	5120	2740	1850	2750	2500	1560	1130	1060
26	4930	3660	3230	9740	4730	2640	2440	2650	2280	1510	1130	1110
27	4560	3600	5160	30600	4290	2530	2890	2570	2070	1380	1420	2250
28	4190	3670	4160	19100	4000	2950	2780	2330	1880	1100	1520	2610
29	3240	3530	3480	12000	3800	3660	2300	2240	1960	1110	1400	2530
30	3060	3400	2960	10600	---	3320	2130	2280	2220	1630	1330	2100
31	2890	---	3810	10200	---	3070	---	2170	---	1920	1260	---
TOTAL	133920	128320	79400	156090	156160	98610	97150	87240	61100	64730	57530	42967
MEAN	4320	4277	2561	5035	5385	3181	3238	2814	2037	2088	1856	1432
MAX	11600	10600	5160	30600	13500	4080	8260	4420	3870	4650	4250	2610
MIN	2050	2240	1580	1500	2950	2530	1840	2070	1340	1100	1080	919
CFSM	3.18	3.15	1.88	3.70	3.96	2.34	2.38	2.07	1.50	1.54	1.37	1.05
IN.	3.67	3.51	2.17	4.27	4.27	2.70	2.66	2.39	1.67	1.77	1.57	1.18

CAL YR 1975 TOTAL 1458760 MEAN 3997 MAX 17600 MIN 1160 CFSM 2.94 IN 39.93
WTR YR 1976 TOTAL 1163217 MFAN 3178 MAX 30600 MIN 919 CFSM 2.34 IN 31.84

DELAWARE RIVER BASIN

01454720 LEHIGH RIVER AT EASTON, PA

LOCATION.--Lat 40°41'12", long 75°12'32", Northampton County, Hydrologic unit 02040106, at Third Street Bridge, Easton, U.S. Highway 611.

DRAINAGE AREA.--1,360 mi² (3,530 km²).

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

PERIOD OF DAILY RECORD.--

SPECIFIC CONDUCTANCE: October 1963 to current year.

pH: October 1972 to September 1974, October 1975 to current year.

WATER TEMPERATURES: October 1961 to current year.

DISSOLVED OXYGEN: June 1966 to current year.

COOPERATION.--Once-monthly water-quality data for the 1976 water year were furnished by the Pennsylvania Department of Environmental Resources.

EXTREMES FOR PERIOD OF DAILY RECORD.--

SPECIFIC CONDUCTANCE: Maximum, 581 micromhos Aug. 19, 1963; minimum, 70 micromhos Nov. 14, 1970.

pH: Maximum, 8.1 April 25, 1973; minimum, 6.2 Sept. 6, 1974.

WATER TEMPERATURES: Maximum, 30.5°C July 29, 1970; minimum, freezing point on many days during winter periods.

DISSOLVED OXYGEN: Maximum, 15.0 mg/l Feb. 22, 23, 1971; minimum, 0.0 mg/l Aug. 4, 1966.

EXTREMES FOR CURRENT YEAR.--

SPECIFIC CONDUCTANCE: Maximum, 426 micromhos Jan. 26; minimum, 137 micromhos July 2.

WATER TEMPERATURES: Maximum, 26.0°C June 20, 21, 28, 29, Aug. 6, 27; minimum, 0.5°C Dec. 27, Jan. 9, 10, 23, 24.

DISSOLVED OXYGEN: Maximum, 15.9 mg/l Jan. 12; minimum, 4.1 mg/l Aug. 7.

WATER QUALITY DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

DATE	TIME	CODE FOR AGENCY COL- LECTING SAMPLE	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)
NOV									
18...	1030	9813	5010	120	7.0	9.0	3	10.3	--
JAN									
15...	1000	9813	3260	180	7.2	4.0	24	12.2	--
FEB									
19...	1145	9813	6310	150	7.0	8.0	25	11.2	2.3
MAR									
16...	1120	9813	3670	190	7.3	6.0	4	11.0	--
APR									
12...	1135	9813	2720	370	7.3	9.5	3	11.0	--
MAY									
13...	1140	9813	2280	220	7.3	16.0	3	7.5	1.5
JUN									
29...	1120	9813	1970	250	7.3	25.5	11	--	--
JUL									
20...	1120	9813	1600	220	7.5	24.5	5	--	--
AUG									
31...	1210	9813	1250	230	6.7	21.5	4	8.2	1.0

DATE	HARD- NESS (CA, MG) (MG/L)	MINERAL ACIDITY (METHYL ORANGE) AS CACO3 (MG/L)	ACIDITY CO2 AS CACO3 (MG/L)	DIS- SOLVED CAL- CIUM (CA) (MG/L)	DIS- SOLVED MAG- NE- SIUM (MG) (MG/L)	ALKA- LINITY AS CACO3 (MG/L)	DIS- SOLVED SULFATE (SO4) (MG/L)	DIS- SOLVED CHLO- RIDE (CL) (MG/L)	TOTAL FILT- RABLE RESIDUE (MG/L)
NOV									
18...	59	--	0	14	9.1	36	24	11	114
JAN									
15...	87	0	0	16	6.5	40	28	25	168
FEB									
19...	100	0	0	16	14	42	20	17	--
MAR									
16...	79	0	0	17	8.5	46	32	17	206
APR									
12...	67	0	0	19	4.5	52	30	13	136
MAY									
13...	82	--	0	16	10	52	26	16	174
JUN									
29...	87	0	0	19	10	54	26	19	174
JUL									
20...	73	0	0	14	9.0	50	20	22	170
AUG									
31...	91	--	0	23	8.2	58	22	19	194

DELAWARE RIVER BASIN

01454720 LEHIGH RIVER AT EASTON, PA--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

DATE	TOTAL AMMONIA NITRO- GEN (N) (MG/L)	TOTAL NITRITE (N) (MG/L)	TOTAL PHOS- PHORUS (P) (MG/L)	TOTAL IRON (FE) (UG/L)	TOTAL ORGANIC CARBON (C) (MG/L)	CYANIDE (CN) (MG/L)	PHENOLS (UG/L)	PHENOLS (DIRECT PHOTO- METRIC) (UG/L)	METHY- LENE BLUE ACTIVE SUB- STANCE (MG/L)
NOV 18...	.31	.08	.15	350	4.0	.03	<10	--	.0
JAN 15...	.55	.05	.30	1890	--	--	--	--	--
FEB 19...	.34	.05	.16	420	--	.02	--	<1.0	.1
MAR 16...	.57	.07	.19	320	--	--	--	--	--
APR 12...	.64	.04	.17	170	--	--	--	--	--
MAY 13...	.67	.08	.16	200	--	.01	--	<10	--
JUN 29...	.90	.15	.28	340	--	--	--	--	--
JUL 20...	.80	.13	.18	390	--	--	--	--	--
AUG 31...	.95	.18	.25	320	--	.06	<10	--	.1

DATE	TIME	CODE FOR AGENCY COL- LECTING SAMPLE	TOTAL CHRO- MIUM (CR) (UG/L)	TOTAL COPPER (CU) (UG/L)	TOTAL LEAD (PB) (UG/L)	TOTAL MAN- GANESE (MN) (UG/L)	TOTAL NICKEL (NI) (UG/L)	TOTAL ZINC (ZN) (UG/L)
NOV 18...	1030	9813	--	--	--	100	--	--
FEB 19...	1145	9813	<10	<10	<50	100	<10	140
MAY 13...	1140	9813	<10	<10	<50	110	20	150
AUG 31...	1210	9813	<10	<10	<50	130	20	190

DELAWARE RIVER BASIN

01454720 LEHIGH RIVER AT EASTON, PA--Continued

SPECIFIC CONDUCTANCE (MICROMHOS/CM AT 25°C), 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	214	195	205	---	---	---	208	202	203	248	188	204
2	231	216	224	---	---	---	222	210	217	255	201	220
3	221	209	217	---	---	---	231	222	229	231	202	210
4	229	217	223	215	212	---	236	231	234	239	200	214
5	237	225	232	217	211	215	244	233	239	214	207	211
6	233	221	228	216	212	214	250	240	246	247	211	231
7	240	227	235	221	212	218	248	242	245	296	247	259
8	282	237	260	222	213	219	244	239	242	320	262	299
9	290	276	283	212	201	207	258	240	251	295	275	288
10	295	280	288	230	196	202	280	252	266	276	270	274
11	292	281	286	203	182	---	270	260	268	271	256	265
12	289	251	271	---	---	---	262	258	260	290	256	267
13	255	219	237	---	---	---	265	258	262	306	263	292
14	242	227	233	---	---	---	264	256	260	345	221	278
15	247	231	240	---	---	---	259	253	256	254	225	240
16	269	240	260	---	---	---	268	240	255	302	248	280
17	276	263	272	---	---	---	260	248	255	311	302	308
18	267	199	235	195	190	---	262	251	258	339	311	327
19	196	163	174	197	190	193	266	256	262	346	327	336
20	200	174	183	213	197	206	278	264	271	359	340	354
21	183	160	172	226	213	219	282	274	278	369	356	364
22	176	162	170	225	190	205	274	271	272	372	341	366
23	174	167	170	195	184	189	293	272	281	349	338	345
24	173	171	---	195	181	187	293	281	288	372	350	363
25	---	---	---	209	195	198	293	285	290	366	332	347
26	218	216	---	214	204	208	352	281	306	426	210	323
27	223	213	218	210	206	209	300	183	217	196	167	177
28	223	217	218	211	200	205	195	176	185	208	177	194
29	246	218	229	208	202	205	186	176	180	208	181	189
30	249	241	---	208	199	203	210	188	202	180	171	174
31	---	---	---	---	---	---	212	194	205	172	162	165
MONTH	295	160	229	---	---	---	352	176	248	426	162	270
DAY	FEBRUARY			MARCH			APRIL			MAY		
	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	187	160	168	221	212	215	236	205	223	288	278	284
2	188	165	174	237	223	231	201	172	182	284	219	250
3	183	171	176	245	237	241	175	170	---	218	206	210
4	197	183	189	245	238	242	---	---	---	220	214	217
5	207	197	203	240	230	237	---	---	---	221	204	214
6	215	205	209	243	233	239	---	---	---	227	204	220
7	218	210	214	234	224	230	---	---	---	231	221	228
8	215	207	212	230	221	225	217	209	---	233	224	228
9	232	209	214	241	221	232	217	210	214	235	225	230
10	240	215	231	282	232	254	227	215	222	234	227	231
11	264	237	254	337	247	294	237	227	232	252	221	239
12	267	231	250	298	240	292	236	229	233	254	245	251
13	251	239	246	290	276	284	249	233	242	250	207	224
14	255	230	246	281	245	264	257	246	252	218	209	215
15	241	231	237	252	241	247	256	251	253	221	215	219
16	262	236	241	250	221	241	258	250	254	218	214	216
17	252	199	231	263	241	250	253	243	251	214	193	207
18	231	209	216	268	261	265	255	245	250	197	164	180
19	224	199	212	274	260	268	256	241	249	171	161	167
20	203	176	188	267	250	261	273	255	264	168	159	165
21	179	166	172	256	221	247	286	269	276	165	159	162
22	172	160	166	249	237	243	291	277	284	167	157	162
23	215	167	179	264	247	258	293	283	287	162	159	160
24	196	186	189	268	252	258	295	286	291	163	159	161
25	202	196	198	273	257	266	292	285	288	178	164	174
26	208	202	205	277	264	271	290	221	282	189	177	185
27	215	206	209	278	265	274	266	220	245	195	180	188
28	217	212	215	282	252	271	231	219	227	198	187	194
29	221	210	215	246	207	226	256	233	249	203	195	200
30	---	---	---	221	209	215	289	257	277	201	194	197
31	---	---	---	231	219	227	---	---	---	197	192	195
MONTH	267	160	209	337	207	251	295	170	251	288	157	206

DELAWARE RIVER BASIN

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01454720 LEHIGH RIVER AT EASTON, PA--Continued

SPECIFIC CONDUCTANCE (MICROMHOS/CM AT 25°C), WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

DAY	JUNE			JULY			AUGUST			SEPTEMBER		
	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	217	195	205	224	153	189	238	221	232	266	252	259
2	242	217	232	151	137	142	229	223	227	271	260	267
3	235	230	232	151	138	142	260	226	237	282	270	277
4	233	228	230	163	152	159	272	260	263	286	272	280
5	238	227	234	174	164	169	295	273	286	286	275	281
6	253	237	244	186	173	181	308	294	302	279	267	273
7	252	243	247	196	186	192	315	300	306	277	265	272
8	243	232	237	220	191	210	299	250	283	280	265	275
9	239	227	233	229	220	226	244	178	199	324	282	304
10	249	232	241	242	200	233	186	180	183	329	310	319
11	252	241	246	247	233	240	182	165	174	338	319	328
12	279	252	261	240	218	228	187	165	174	322	283	312
13	278	261	271	231	221	226	209	188	199	279	252	271
14	276	269	272	250	229	240	232	210	223	246	233	241
15	313	276	290	260	221	251	240	200	235	263	238	249
16	314	299	309	262	250	254	242	233	237	265	245	255
17	306	275	291	258	246	254	259	234	246	257	195	219
18	298	261	283	245	220	227	266	241	257	196	160	181
19	298	289	293	219	209	214	266	238	251	160	144	152
20	291	269	286	245	210	225	251	222	238	146	139	143
21	281	261	275	256	200	247	247	222	235	158	143	151
22	260	187	231	273	253	259	246	229	240	171	157	163
23	185	174	178	275	260	270	227	225	---	190	171	175
24	193	175	185	284	221	274	---	---	---	200	191	196
25	215	195	209	282	255	266	---	---	---	218	201	209
26	220	211	218	256	243	247	---	---	---	231	216	226
27	227	217	223	260	240	246	302	283	---	222	181	208
28	232	223	228	269	241	259	297	256	273	185	172	179
29	254	240	247	296	271	287	257	244	248	186	175	182
30	240	225	---	310	293	301	246	232	239	197	183	192
31	---	---	---	295	240	262	262	235	241	---	---	---
MONTH	314	174	246	310	137	230	315	165	240	338	139	235

PH (UNITS), 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				---	---	---	7.9	7.3	7.6	7.6	7.4	7.5
2				---	---	---	7.9	7.6	7.7	7.5	7.2	7.4
3				---	---	---	7.7	7.6	7.7	7.4	7.3	7.4
4				---	---	---	8.0	7.7	7.8	7.6	7.4	7.5
5				---	---	---	7.9	7.8	7.8	7.4	7.4	7.4
6				---	---	---	8.1	7.8	7.9	7.4	7.3	7.4
7				---	---	---	8.1	7.9	---	7.4	7.2	7.3
8				---	---	---	---	---	---	7.4	7.3	7.3
9				---	---	---	---	---	---	7.3	7.2	7.3
10				---	---	---	7.2	7.0	---	7.3	7.2	7.3
11				---	---	---	7.3	7.0	7.1	7.3	7.0	7.2
12				---	---	---	7.0	6.7	---	7.4	7.2	7.3
13				7.1	7.1	---	---	---	---	7.4	7.2	7.3
14				7.2	6.6	7.0	---	---	---	8.0	7.2	7.6
15				7.1	6.5	6.9	---	---	---	8.0	7.8	7.9
16				7.2	6.8	7.0	8.0	7.9	---	8.2	7.7	8.0
17				7.2	6.9	7.0	7.8	7.7	7.8	8.2	7.9	8.1
18				7.1	6.9	7.0	7.9	7.4	7.7	8.0	7.8	---
19				7.1	6.8	6.9	7.8	7.2	7.5	---	---	---
20				7.4	6.8	7.0	7.7	7.0	7.4	---	---	---
21				7.3	6.9	7.1	7.8	7.7	7.7	---	---	---
22				7.2	7.0	7.1	7.9	7.4	7.6	---	---	---
23				7.2	6.9	7.1	7.5	7.3	7.4	7.9	7.6	---
24				7.2	6.9	7.0	7.5	7.3	7.4	7.8	7.7	7.8
25				7.2	7.0	7.1	7.3	7.2	7.2	7.9	7.8	7.9
26				7.3	7.0	7.1	7.5	7.2	---	8.0	7.8	---
27				7.8	7.0	7.4	7.7	7.6	---	---	---	---
28				7.5	7.2	7.3	7.7	7.5	7.6	---	---	---
29				7.5	7.1	7.2	7.6	7.4	7.5	7.3	7.0	---
30				7.4	7.0	7.2	7.5	7.3	7.4	7.4	6.8	7.0
31				---	---	---	7.5	7.3	7.4	6.8	6.6	6.7
MONTH				---	---	---	8.1	6.7	---	8.2	6.6	---

DELAWARE RIVER BASIN

01454720 LEHIGH RIVER AT EASTON, PA--Continued

PH (UNITS), WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

DAY	FEBRUARY			MARCH			APRIL			MAY		
	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	7.6	6.7	7.1	---	---	---	6.7	6.3	6.5	7.5	7.3	---
2	7.4	6.5	6.9	---	---	---	6.5	6.4	6.5	---	---	---
3	7.1	6.7	---	---	---	---	6.7	6.5	---	7.7	7.2	---
4	---	---	---	---	---	---	---	---	---	7.3	7.3	7.3
5	---	---	---	---	---	---	---	---	---	7.5	7.3	---
6	---	---	---	---	---	---	---	---	---	---	---	---
7	---	---	---	---	---	---	---	---	---	---	---	---
8	---	---	---	---	---	---	7.8	7.6	---	---	---	---
9	7.4	7.1	---	---	---	---	7.9	7.7	7.8	---	---	---
10	8.5	7.1	7.6	---	---	---	8.1	7.9	8.0	---	---	---
11	8.2	7.4	7.9	---	---	---	8.1	7.9	8.0	---	---	---
12	7.9	7.2	7.5	---	---	---	8.2	7.9	8.0	---	---	---
13	7.7	7.2	7.5	---	---	---	8.2	8.0	8.1	---	---	---
14	7.6	7.1	7.2	---	---	---	8.1	8.0	---	---	---	---
15	7.7	7.0	7.2	---	---	---	---	---	---	---	---	---
16	9.1	7.7	8.0	---	---	---	7.5	7.3	---	---	---	---
17	8.4	7.2	7.9	6.7	6.6	---	7.5	7.4	7.4	---	---	---
18	7.8	7.0	---	6.7	6.6	6.7	7.5	7.4	7.4	---	---	---
19	---	---	---	7.1	6.7	6.9	7.6	7.4	7.5	---	---	---
20	---	---	---	7.0	6.7	6.9	7.5	7.3	7.4	---	---	---
21	---	---	---	7.0	6.8	---	7.4	7.3	7.3	---	---	---
22	---	---	---	---	---	---	7.4	7.3	7.4	---	---	---
23	---	---	---	6.8	6.7	---	7.4	7.3	7.4	---	---	---
24	---	---	---	6.7	6.6	6.7	7.4	7.3	7.4	---	---	---
25	---	---	---	6.7	6.5	6.6	7.4	7.3	7.4	---	---	---
26	---	---	---	6.7	6.6	6.7	7.4	7.0	7.3	7.4	7.0	---
27	---	---	---	6.7	6.6	6.6	7.4	7.4	7.4	7.5	7.2	7.3
28	---	---	---	6.8	6.6	6.7	7.4	7.3	7.3	7.3	7.2	7.2
29	---	---	---	6.8	6.7	6.7	7.4	7.3	7.3	7.3	7.2	7.2
30	---	---	---	6.7	6.4	6.6	7.5	7.3	7.4	7.3	7.2	7.2
31	---	---	---	6.6	6.4	6.5	---	---	---	7.3	7.1	7.2
MONTH	---	---	---	---	---	---	8.2	6.3	---	---	---	---
DAY	JUNE			JULY			AUGUST			SEPTEMBER		
	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	7.2	7.1	7.2	7.0	6.9	6.9	---	---	---	7.0	6.9	7.0
2	7.3	7.0	7.2	7.0	6.9	7.0	---	---	---	6.9	6.8	6.8
3	7.2	7.2	7.2	7.1	7.0	7.0	---	---	---	7.1	6.8	7.0
4	7.2	7.1	7.2	7.1	7.0	7.0	---	---	---	7.2	7.1	7.1
5	7.2	7.1	7.2	7.1	6.9	7.0	---	---	---	7.1	7.0	7.1
6	7.2	7.1	7.2	7.0	6.9	6.9	---	---	---	7.1	7.1	7.1
7	7.6	7.2	7.2	7.0	6.9	7.0	---	---	---	7.1	7.0	7.1
8	7.3	7.1	7.2	7.0	6.8	6.9	---	---	---	7.0	6.9	6.9
9	7.2	7.1	7.1	6.9	6.9	6.9	---	---	---	7.4	6.8	7.1
10	7.1	7.0	7.1	7.1	7.0	7.0	---	---	---	7.4	7.2	7.3
11	7.1	7.0	7.1	7.2	7.0	7.1	---	---	---	7.3	7.3	7.3
12	7.1	7.0	7.1	7.1	6.9	7.0	---	---	---	7.4	7.3	7.3
13	7.2	7.1	7.1	7.2	6.9	---	---	---	---	7.4	7.3	7.3
14	7.2	7.1	7.2	---	---	---	---	---	---	7.3	7.2	7.2
15	7.2	7.1	7.1	---	---	---	---	---	---	7.2	7.2	7.2
16	7.2	7.1	7.1	---	---	---	---	---	---	7.2	7.1	7.2
17	7.1	7.0	7.0	---	---	---	---	---	---	7.2	7.1	7.2
18	7.1	6.8	7.0	---	---	---	---	---	---	7.2	7.1	7.2
19	7.1	7.0	7.0	---	---	---	---	---	---	7.1	7.1	7.1
20	7.1	7.0	7.0	---	---	---	---	---	---	7.1	7.0	7.1
21	7.1	6.9	7.0	---	---	---	---	---	---	7.1	7.0	7.0
22	6.9	6.7	6.9	---	---	---	---	---	---	7.0	7.0	7.0
23	7.0	6.8	6.9	---	---	---	---	---	---	7.1	7.0	7.1
24	7.0	6.8	6.9	---	---	---	---	---	---	7.2	7.1	7.1
25	7.1	6.8	6.9	---	---	---	---	---	---	7.2	7.1	7.1
26	7.2	6.8	7.1	---	---	---	---	---	---	7.2	7.1	7.2
27	7.0	6.9	7.0	---	---	---	7.1	7.0	---	7.2	7.1	7.1
28	7.0	6.9	6.9	---	---	---	7.0	7.0	7.0	7.1	7.0	7.0
29	6.9	6.8	6.9	---	---	---	7.1	7.0	7.0	7.0	6.9	6.9
30	7.0	6.9	---	---	---	---	7.1	7.0	7.1	7.0	6.9	6.9
31	---	---	---	---	---	---	7.1	7.0	7.1	---	---	---
MONTH	7.6	6.7	7.1	---	---	---	---	---	---	7.4	6.8	7.1

01454720 LEHIGH RIVER AT EASTON, PA--Continued

TEMPERATURE (°C) OF WATER, 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	16.0	15.5	15.5	14.5	9.0	12.0	9.0	8.5	9.0	4.5	4.0	4.0
2	15.0	14.0	14.5	18.0	14.0	15.5	8.5	7.0	8.0	4.0	3.5	3.5
3	14.5	14.0	14.5	17.0	15.0	---	7.0	5.5	6.5	3.5	3.0	3.0
4	14.5	13.5	14.0	13.5	13.0	---	5.5	5.0	5.0	3.0	2.0	2.5
5	14.5	14.0	14.0	14.5	13.5	14.0	5.5	5.0	5.0	2.0	1.0	1.5
6	15.5	14.0	15.0	14.5	13.5	14.0	5.5	5.0	5.5	1.5	1.0	1.0
7	16.0	15.0	15.5	14.0	13.5	13.5	5.5	5.0	5.5	2.0	1.5	1.5
8	16.0	15.5	15.5	14.5	13.5	14.0	5.0	4.5	4.5	3.0	2.0	2.5
9	15.5	15.0	15.5	15.0	14.0	14.5	4.5	4.5	4.5	2.0	0.5	1.0
10	15.0	14.5	14.5	15.5	15.0	15.0	5.5	4.5	5.0	1.0	0.5	0.5
11	15.0	14.5	14.5	15.0	13.5	14.0	6.0	5.5	6.0	1.5	1.0	1.5
12	14.5	14.0	14.0	13.0	10.5	11.5	6.0	6.0	6.0	3.0	1.5	2.0
13	14.5	13.5	14.0	10.5	10.0	10.0	6.0	5.5	5.5	3.0	2.0	2.5
14	15.5	14.5	15.0	10.0	8.5	9.5	6.0	5.5	6.0	3.5	1.5	2.5
15	17.0	15.5	16.5	8.5	8.0	8.0	7.0	6.0	6.5	1.5	1.0	1.5
16	18.0	16.5	17.5	9.0	7.0	7.5	8.5	7.0	8.0	2.0	1.5	2.0
17	17.0	15.5	16.5	8.5	7.0	7.5	8.0	6.5	7.5	3.0	1.5	2.5
18	15.5	13.5	14.5	9.5	8.5	9.0	6.5	5.0	6.0	1.5	1.0	---
19	13.5	13.0	13.0	10.0	9.5	10.0	5.0	2.0	3.5	---	---	---
20	13.5	13.0	13.0	10.0	9.5	10.0	3.0	2.0	2.0	---	---	---
21	13.0	12.0	12.5	10.0	9.5	10.0	2.0	2.0	2.0	---	---	---
22	13.5	12.0	13.0	9.5	8.5	9.0	3.0	2.0	2.0	---	---	---
23	14.0	13.0	13.5	8.0	6.5	7.0	3.0	2.0	2.5	2.0	0.5	---
24	14.5	13.5	14.0	6.5	6.0	6.0	2.0	1.5	2.0	1.5	0.5	1.0
25	15.0	14.5	14.5	6.5	6.0	6.5	1.5	1.0	1.5	2.0	1.5	1.5
26	15.5	14.5	15.0	6.5	6.0	6.0	3.5	1.5	2.5	3.5	1.5	---
27	14.5	14.0	14.5	7.0	6.5	6.5	3.5	0.5	1.5	2.0	1.5	---
28	14.5	14.0	14.0	8.0	6.5	7.5	1.5	1.0	1.5	3.0	2.0	2.5
29	15.0	14.5	14.5	8.0	7.0	7.5	3.0	1.5	2.0	3.5	3.0	3.0
30	15.0	11.5	13.5	9.0	8.0	8.0	3.5	3.0	3.0	3.5	3.0	3.5
31	14.0	8.5	11.5	---	---	---	4.0	3.5	4.0	3.0	2.0	2.5
MONTH	18.0	8.5	14.5	18.0	6.0	10.0	9.0	0.5	4.5	4.5	0.5	---
DAY	FEBRUARY			MARCH			APRIL			MAY		
	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	3.5	2.0	2.5	9.5	8.5	9.0	11.0	9.5	10.5	11.5	11.0	11.5
2	3.0	2.0	---	9.5	8.5	9.0	10.0	9.0	10.0	11.5	10.5	11.0
3	1.0	1.0	---	8.5	7.0	7.5	9.0	8.5	---	11.0	10.5	11.0
4	3.0	1.0	2.0	7.0	6.5	7.0	---	---	---	11.0	10.0	10.0
5	3.0	3.0	3.0	10.0	8.0	8.5	---	---	---	13.5	9.0	11.0
6	2.0	2.0	2.0	11.0	10.0	10.0	---	---	---	15.5	13.5	14.0
7	2.0	1.5	2.0	10.0	9.0	9.5	---	---	---	17.0	15.5	16.0
8	3.0	1.5	2.5	9.0	8.0	8.5	9.5	9.0	---	17.0	16.5	16.5
9	3.5	2.0	3.0	8.0	5.0	6.5	9.5	8.0	8.5	17.0	15.5	16.5
10	4.0	3.0	3.5	5.0	4.5	5.0	9.5	8.0	8.5	17.0	15.5	16.0
11	5.0	4.5	4.5	5.5	5.0	5.0	9.5	8.5	9.0	17.0	16.5	16.5
12	5.0	4.0	4.5	5.5	5.0	5.5	8.5	7.0	8.0	18.0	16.5	17.0
13	6.0	5.0	5.5	5.5	5.0	5.0	8.5	7.0	8.0	18.0	15.5	16.5
14	6.0	5.5	6.0	5.5	4.0	5.0	12.0	8.5	10.5	16.5	16.0	16.0
15	6.0	5.0	5.5	6.5	5.0	5.5	14.0	12.0	13.0	18.5	16.5	17.5
16	6.0	5.0	5.5	6.0	5.0	5.5	14.5	13.5	14.0	18.5	18.0	18.5
17	7.0	6.0	6.5	4.5	3.0	3.5	16.0	14.0	15.0	18.5	18.0	18.5
18	7.0	6.0	6.5	3.5	2.0	2.5	17.0	15.5	16.5	18.5	16.5	17.5
19	6.0	5.5	6.0	6.0	3.5	4.5	18.5	16.5	17.5	16.0	13.0	14.5
20	6.0	5.5	6.0	9.0	6.0	7.5	18.5	17.0	18.0	14.0	11.5	13.0
21	6.0	5.0	5.5	10.5	9.0	10.0	18.5	17.0	17.5	16.0	13.5	14.5
22	6.5	5.5	6.0	10.5	9.0	9.5	17.0	16.5	17.0	16.5	15.5	16.0
23	6.0	4.5	5.5	9.0	8.0	8.5	17.0	15.5	16.0	16.5	15.5	16.0
24	4.5	3.5	4.0	9.0	7.0	8.0	15.5	14.5	15.0	16.5	15.5	16.0
25	6.5	4.0	5.0	9.5	8.5	9.0	14.5	12.0	13.5	16.5	15.5	16.0
26	8.0	6.5	7.0	11.0	9.5	10.0	11.5	10.0	11.0	15.5	14.5	15.0
27	9.0	8.0	8.5	11.5	10.5	11.0	9.5	8.0	8.5	15.0	14.0	14.5
28	9.5	9.0	9.0	12.0	11.0	11.5	8.0	7.0	7.5	16.5	15.0	16.0
29	9.5	8.5	9.0	11.5	10.5	10.5	10.0	8.0	9.0	18.0	16.5	17.5
30	---	---	---	13.0	10.0	10.5	11.5	10.0	11.0	18.0	17.0	17.5
31	---	---	---	10.5	10.0	10.5	---	---	---	18.5	17.0	17.5
MONTH	9.5	1.0	5.0	13.0	2.0	7.5	18.5	7.0	12.0	18.5	9.0	15.5

DELAWARE RIVER BASIN

01454720 LEHIGH RIVER AT EASTON, PA--Continued

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

DAY	JUNE			JULY			AUGUST			SEPTEMBER		
	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	19.0	18.5	19.0	24.0	21.5	23.0	24.0	23.0	23.5	23.0	20.5	21.5
2	19.0	18.0	18.5	21.5	20.5	21.0	23.0	21.5	22.5	21.5	21.0	21.0
3	18.5	16.5	17.5	23.0	20.5	21.0	23.0	21.5	22.5	21.5	20.0	20.5
4	19.0	17.0	18.0	21.5	20.5	21.0	24.5	21.0	22.5	21.0	20.0	20.5
5	20.0	18.5	19.0	21.5	20.0	21.0	24.5	21.5	23.0	22.0	20.0	21.0
6	19.5	18.0	19.0	23.0	21.0	22.0	26.0	23.0	24.0	21.5	20.0	21.0
7	19.0	17.0	18.0	23.0	22.0	22.5	24.5	23.0	23.5	21.5	20.0	20.5
8	20.0	19.0	19.5	24.5	21.5	22.0	22.0	21.0	21.0	23.0	20.5	21.5
9	21.5	20.0	20.5	23.0	21.5	22.0	21.0	19.5	20.0	23.5	21.5	22.5
10	25.0	21.5	23.0	23.5	22.0	23.0	19.5	19.0	19.5	23.5	22.0	23.0
11	24.5	23.5	24.0	23.5	23.0	23.0	21.0	19.0	20.0	22.0	20.5	21.0
12	25.0	23.5	24.0	23.5	22.0	23.0	21.5	20.0	21.0	21.5	19.5	20.5
13	23.5	21.0	23.0	22.0	20.0	21.0	23.0	21.5	22.0	23.0	20.0	21.0
14	21.5	20.5	21.0	20.5	19.5	20.0	24.0	23.0	23.5	23.5	21.0	22.0
15	23.0	20.5	21.5	21.0	20.0	20.5	24.0	23.5	23.5	23.0	21.5	22.5
16	24.5	21.5	23.0	21.5	21.0	21.0	23.0	22.0	22.5	23.0	21.5	22.0
17	24.0	23.0	23.5	23.0	21.0	22.0	22.0	21.5	22.0	21.5	21.0	21.0
18	25.0	23.5	24.0	23.0	21.5	22.0	23.0	21.5	22.0	21.5	20.5	21.0
19	25.5	24.5	25.0	23.5	21.5	22.5	23.0	21.5	22.0	21.0	20.0	20.5
20	26.0	24.5	25.5	24.5	22.0	23.5	23.0	21.5	22.0	21.0	20.5	20.5
21	26.0	24.5	25.0	24.5	23.5	24.0	24.0	22.0	23.0	20.5	20.0	20.5
22	25.0	23.0	24.5	25.0	23.5	24.5	24.0	22.0	23.0	20.0	19.0	19.5
23	23.0	21.5	22.5	24.0	23.0	23.5	24.0	23.5	---	19.0	18.0	18.5
24	24.5	23.0	23.5	24.5	22.0	23.0	---	---	---	19.5	18.0	18.5
25	25.0	24.0	24.5	24.0	22.0	23.5	---	---	---	19.0	18.0	18.5
26	25.5	24.5	25.0	23.5	22.0	22.5	---	---	---	18.5	17.0	17.5
27	25.5	24.5	25.0	24.0	22.0	23.0	26.0	25.0	---	18.5	17.0	17.5
28	26.0	25.0	25.5	25.5	22.0	24.0	25.0	24.0	24.5	17.0	16.5	17.0
29	26.0	24.5	25.0	24.5	23.5	24.0	25.0	23.5	24.0	16.5	16.0	16.0
30	24.5	24.0	---	25.0	23.5	24.0	24.0	22.0	23.5	16.0	15.0	15.5
31	---	---	---	24.5	24.0	24.0	23.0	21.0	22.0	---	---	---
MONTH	26.0	16.5	22.5	25.5	19.5	22.5	26.0	19.0	22.5	23.5	15.0	20.0

DISSOLVED OXYGEN (DO), MG/L, 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	8.6	8.4	8.5	---	---	---	11.5	10.3	10.9	14.0	13.6	13.8
2	9.2	8.7	9.0	---	---	---	11.6	11.3	11.4	14.8	13.9	14.1
3	9.3	9.0	9.2	---	---	---	12.0	11.5	11.8	14.3	13.9	14.1
4	9.3	9.0	9.1	10.1	9.9	---	12.3	12.0	12.2	14.3	13.8	14.1
5	9.1	8.8	9.0	10.0	9.5	9.7	12.3	11.9	12.2	14.8	14.3	14.5
6	8.9	8.3	8.6	9.8	9.5	9.7	12.0	11.4	11.7	14.8	14.2	14.5
7	9.2	8.4	8.9	9.9	9.6	9.7	11.7	11.3	11.5	14.5	14.1	14.3
8	9.1	8.7	9.0	9.7	9.0	9.4	11.8	11.5	11.7	14.2	13.6	13.9
9	8.9	8.6	8.7	9.5	9.1	9.3	11.8	11.3	11.5	14.4	13.9	14.2
10	8.9	8.7	8.8	9.3	8.6	8.9	12.2	11.6	11.9	14.6	14.3	14.4
11	8.8	8.4	8.6	9.7	8.8	9.3	12.1	11.9	12.0	14.3	13.9	14.2
12	8.9	8.5	8.7	10.3	9.5	9.9	12.1	11.9	12.0	15.9	13.7	14.0
13	9.0	8.5	8.8	10.7	10.2	10.6	12.2	11.9	12.1	13.9	13.6	13.8
14	8.5	7.8	8.1	11.5	10.7	11.1	12.2	11.8	12.1	14.3	13.2	13.7
15	7.9	7.4	7.7	12.0	11.6	11.8	12.0	11.3	11.7	14.3	14.0	14.2
16	8.2	7.6	7.9	11.9	11.7	11.8	11.9	10.9	11.4	14.1	13.6	13.9
17	8.0	7.6	7.8	11.7	11.3	11.5	12.1	11.5	11.8	13.7	13.5	13.6
18	8.9	7.2	8.2	12.0	10.9	11.4	12.3	11.9	12.1	14.3	13.7	---
19	9.8	8.7	9.4	11.9	11.6	11.7	13.2	12.3	12.9	---	---	---
20	9.0	8.0	8.4	11.6	11.2	11.4	13.3	12.8	13.2	---	---	---
21	8.8	8.4	8.5	11.3	10.8	11.0	13.3	12.9	13.1	---	---	---
22	9.6	8.9	9.4	11.7	10.9	11.3	13.8	12.9	13.3	---	---	---
23	9.4	9.0	9.2	12.4	11.6	12.0	13.6	13.0	13.3	14.2	13.9	---
24	9.0	8.9	---	12.4	12.2	12.3	13.8	13.1	13.5	14.0	13.7	13.9
25	---	---	---	12.3	12.0	12.1	14.1	13.7	13.9	14.0	13.6	13.8
26	---	---	---	12.1	11.8	11.9	13.9	13.3	13.6	14.8	13.2	13.8
27	---	---	---	11.8	11.2	11.5	14.9	13.5	14.4	14.5	14.1	14.3
28	---	---	---	11.4	11.2	11.3	15.1	14.7	14.9	14.8	14.0	14.4
29	---	---	---	11.4	11.1	11.2	15.2	14.7	14.9	14.7	14.3	14.5
30	---	---	---	11.3	10.9	11.1	14.8	14.1	14.4	14.7	13.9	14.5
31	---	---	---	---	---	---	14.2	13.8	14.0	15.1	14.7	14.9
MONTH	---	---	---	12.4	8.6	10.9	15.2	10.3	12.6	15.9	13.2	14.1

DELAWARE RIVER BASIN

97

01454720 LEHIGH RIVER AT EASTON, PA--Continued

DISSOLVED OXYGEN (DO), MG/L, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

DAY	FEBRUARY			MARCH			APRIL			MAY		
	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	15.0	14.3	14.7	11.3	11.0	11.1	10.4	9.2	9.8	8.5	8.2	8.3
2	15.5	14.1	14.7	11.3	11.1	11.2	11.0	10.4	10.7	9.0	8.2	8.6
3	15.8	14.7	15.4	11.7	11.3	11.5	11.0	11.0	---	9.1	8.8	8.9
4	14.9	14.3	14.5	11.7	11.4	11.5	---	---	---	9.5	9.0	9.2
5	14.5	13.9	14.3	11.4	10.6	11.0	---	---	---	10.2	9.4	9.7
6	14.3	14.1	14.2	10.6	10.3	10.5	---	---	---	9.7	9.1	9.4
7	14.3	14.0	14.2	10.8	10.5	10.7	---	---	---	9.2	8.3	8.7
8	14.2	13.9	14.1	11.2	10.8	11.0	10.7	10.4	---	9.2	8.4	8.7
9	14.2	13.6	14.0	11.6	11.2	11.4	11.0	10.5	10.8	9.5	8.7	9.0
10	14.1	13.5	13.9	11.9	11.5	11.7	10.9	10.3	10.7	9.5	8.9	9.1
11	13.6	13.2	13.4	11.8	11.5	11.7	10.4	9.9	10.2	9.1	8.2	8.6
12	13.7	13.2	13.4	11.6	11.3	11.4	11.1	10.3	10.6	8.6	7.9	8.2
13	13.3	12.8	13.0	11.4	11.0	11.2	10.9	10.3	10.6	9.3	8.2	8.7
14	12.4	12.7	12.8	11.8	11.3	11.5	10.5	9.7	10.2	8.7	8.1	8.4
15	12.9	12.8	12.8	11.5	11.2	11.4	9.8	9.2	9.5	8.7	7.8	8.2
16	12.7	12.2	12.5	11.3	11.0	11.1	9.2	8.8	---	7.9	7.5	7.7
17	12.2	11.5	11.8	11.9	11.0	11.5	---	---	---	8.2	7.4	7.8
18	11.8	11.1	11.6	12.2	11.8	12.0	---	---	---	8.2	7.7	7.9
19	12.1	11.7	11.9	11.9	10.7	11.4	---	---	---	9.2	8.2	8.7
20	12.2	11.8	11.9	10.7	9.8	10.3	---	---	---	10.2	9.3	9.8
21	12.3	12.2	12.2	9.9	9.3	9.6	8.2	6.9	---	10.1	9.3	9.6
22	12.1	11.5	11.7	10.4	9.4	10.0	7.6	6.9	7.2	9.4	9.0	9.2
23	13.0	11.4	12.2	10.8	10.3	10.5	8.2	6.9	7.4	9.5	9.1	9.3
24	13.1	12.9	13.0	11.0	10.3	10.6	7.9	7.0	7.4	9.4	9.2	9.3
25	12.9	12.2	12.7	10.4	9.9	10.1	7.6	7.1	7.4	9.2	8.6	8.9
26	12.2	11.8	12.0	10.2	9.5	9.8	8.1	7.3	7.7	9.4	8.7	9.1
27	11.7	11.3	11.5	9.8	8.8	9.4	9.2	7.8	8.7	9.5	8.9	9.3
28	11.4	11.0	11.1	9.6	8.8	9.2	9.2	8.3	9.0	9.3	8.7	9.0
29	11.4	11.1	11.2	10.2	9.5	9.8	9.6	8.6	9.1	8.6	8.0	8.3
30	---	---	---	10.1	9.6	9.8	9.3	8.3	8.9	8.5	7.7	8.2
31	---	---	---	9.6	9.1	9.3	---	---	---	8.6	8.1	8.3
MONTH	15.8	11.0	13.0	12.2	8.8	10.7	---	---	---	10.2	7.4	8.8
DAY	JUNE			JULY			AUGUST			SEPTEMBER		
	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	8.2	7.4	8.0	8.5	6.7	7.7	6.5	6.1	6.3	6.4	5.5	6.0
2	7.9	6.9	7.4	8.9	8.3	8.7	7.0	6.2	6.6	5.4	5.1	---
3	7.7	7.0	7.4	8.7	8.1	8.5	6.5	5.7	6.1	7.1	6.2	---
4	7.8	7.1	7.5	8.2	7.9	8.1	6.1	5.1	5.5	6.7	6.2	---
5	7.5	7.0	7.3	8.2	7.6	8.0	5.8	4.7	5.2	---	---	---
6	7.0	6.6	6.8	7.7	7.1	7.4	5.4	4.4	4.8	---	---	---
7	7.5	6.7	7.1	7.0	6.5	6.7	5.0	4.1	4.5	---	---	---
8	7.0	6.5	6.8	7.4	6.6	7.1	6.1	4.7	5.3	---	---	---
9	6.8	5.9	6.5	7.6	7.1	7.3	7.5	6.3	7.0	7.3	5.8	---
10	6.3	5.7	6.0	7.3	6.7	7.0	8.0	7.3	7.7	6.2	5.2	5.7
11	6.0	5.3	5.8	6.8	6.5	6.6	8.3	7.8	8.1	6.6	5.5	6.0
12	5.8	5.0	5.4	7.3	6.6	7.1	8.2	7.3	7.7	7.0	5.9	6.4
13	5.8	4.8	5.4	7.7	7.3	7.4	7.3	6.7	7.0	7.0	5.7	6.3
14	5.8	4.8	5.4	7.9	7.5	7.7	6.7	6.0	6.4	6.5	5.3	5.8
15	7.0	5.7	6.1	7.9	7.3	7.7	6.3	6.0	6.2	5.9	4.8	5.3
16	6.6	5.2	5.8	7.4	6.7	7.1	6.6	6.2	6.4	5.3	4.6	4.9
17	5.6	4.6	5.1	7.1	6.6	6.9	6.5	6.2	6.4	5.8	5.0	5.4
18	5.6	4.4	5.1	7.6	7.1	7.3	6.4	6.0	6.2	6.3	5.9	6.1
19	5.7	4.4	4.9	7.6	7.0	7.4	6.4	5.8	6.1	6.6	6.3	6.4
20	5.7	4.2	4.9	7.0	6.0	6.7	6.5	5.9	6.2	6.4	6.0	6.2
21	5.2	4.3	4.9	6.5	5.8	6.1	6.2	5.6	6.0	6.5	5.9	6.2
22	6.7	5.2	5.8	6.7	5.8	6.2	6.1	5.7	5.9	7.7	6.4	7.2
23	8.7	6.0	7.6	6.3	5.7	6.0	5.5	5.3	---	8.2	7.5	7.8
24	8.4	7.6	8.1	6.4	5.7	6.0	---	---	---	8.2	7.3	7.7
25	7.5	7.1	7.3	6.7	5.8	6.2	---	---	---	8.1	6.9	7.4
26	7.8	7.2	7.5	7.3	6.2	6.7	---	---	---	7.7	6.8	7.2
27	7.8	7.2	7.6	7.0	6.4	6.7	6.0	5.4	---	8.3	7.3	7.7
28	7.9	6.9	7.6	7.5	6.0	6.7	5.9	5.2	5.6	9.0	8.2	8.5
29	7.3	6.6	6.9	6.4	5.3	5.8	6.3	5.6	5.9	9.3	9.0	9.1
30	6.7	6.4	---	6.3	5.2	5.6	6.7	5.8	6.2	9.4	8.9	9.1
31	---	---	---	6.8	5.7	6.3	6.8	6.1	6.4	---	---	---
MONTH	8.7	4.2	6.5	8.9	5.2	7.0	8.3	4.1	6.2	9.4	4.6	---

DELAWARE RIVER BASIN

01459500 TOHICKON CREEK NEAR PIPERSVILLE, PA

LOCATION.--Lat 40°26'01", long 75°07'01", Bucks County, Hydrologic Unit 02040105, on right bank at highway bridge, 1.5 mi (2.4 km) northeast of Pipersville, and 4.5 mi (7.2 km) upstream from mouth.

DRAINAGE AREA.--97.4 mi² (252.3 km²).

WATER-DISCHARGE RECORDS

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

REVISED RECORDS.--WDR PA-75: 1974.

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

REMARKS.--Records good except those for period of no gage-height record, which are poor. Regulation at low flow by mills above station, and since December 1973 by Nockamixon Lake about 7.6 mi (12.2 km) upstream.

AVERAGE DISCHARGE.--41 years, 142 ft³/s (4.02 m³/s), 19.79 in/yr (503 mm/yr), adjusted for storage since December 1973.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 16,000 ft³/s (453 m³/s) Aug. 18, 1955, gage height, 11.26 ft (3.432 m), from rating curve extended above 3,600 ft³/s (102 m³/s) on basis of slope-area measurement at gage height 10.48 ft (3.194 m); minimum, 0.05 ft³/s (0.001 m³/s) Sept. 29, 1941; minimum daily, 0.1 ft³/s (0.003 m³/s) Sept. 24, 29, Oct. 6, 1941.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 2,770 ft³/s (78.4 m³/s) Jan. 27, gage height, 5.52 ft (1.682 m); minimum daily, 5.3 ft³/s (0.15 m³/s) July 19, 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	70	51	33	2000	80	20	301	59	32	25	6.1	6.4
2	62	50	131	680	1000	20	264	414	51	24	6.1	6.7
3	53	51	404	1250	490	20	289	293	76	22	6.1	6.7
4	41	976	238	860	470	40	224	157	62	20	6.1	6.4
5	38	961	26	180	250	35	183	97	46	19	6.1	6.7
6	35	895	25	160	40	31	138	72	36	16	7.7	6.4
7	33	831	22	150	30	26	112	61	32	15	10	6.4
8	30	824	20	500	55	22	93	55	28	14	8.5	6.4
9	28	811	18	140	45	20	83	43	25	13	9.6	6.4
10	29	811	20	10	55	24	72	36	24	12	24	7.1
11	39	804	18	70	300	34	65	33	21	11	13	7.1
12	49	738	16	45	100	45	62	35	19	10	13	6.4
13	45	791	16	35	80	346	46	33	16	10	13	6.7
14	41	719	16	306	50	116	43	30	14	8.1	14	6.4
15	39	845	16	87	30	65	40	30	12	6.4	16	6.7
16	37	811	16	66	20	61	40	28	11	6.4	19	12
17	168	791	16	60	200	67	39	27	26	5.8	21	14
18	177	771	16	50	340	39	38	29	16	5.6	20	9.2
19	670	758	20	40	470	37	37	49	15	5.3	16	7.7
20	758	738	22	35	80	33	36	58	15	5.3	15	7.1
21	481	725	20	30	45	30	34	85	15	5.6	13	7.7
22	286	646	18	26	70	28	32	109	15	5.6	12	7.1
23	183	628	18	24	40	24	32	82	18	5.8	10	6.7
24	133	321	30	22	90	22	30	57	21	6.7	9.2	6.7
25	116	35	55	20	20	21	27	44	21	5.6	8.1	6.7
26	114	32	2100	390	20	20	36	36	19	5.6	7.1	7.7
27	99	70	500	2600	20	19	46	32	16	5.8	8.1	9.2
28	89	45	390	800	20	19	41	29	15	5.8	8.5	8.1
29	82	38	410	350	20	18	37	27	16	8.1	8.5	7.7
30	83	34	370	200	---	17	33	27	19	7.1	8.1	8.8
31	62	---	660	100	---	16	---	27	---	6.4	7.7	---
TOTAL	4170	16601	5680	11286	4530	1335	2553	2194	752	322.0	350.6	225.3
MEAN	135	553	183	364	156	43.1	85.1	70.8	25.1	10.4	11.3	7.51
MAX	758	976	2100	2600	1000	346	301	414	76	25	24	14
MIN	28	32	16	10	20	16	27	27	11	5.3	6.1	6.4
(/)	-1.14	-408	-0.52	-83.5	+156	+116	+48.9	+2.73	-3.29	-10.5	+3.64	-1.88
MEAN#	134	145	182	448	312	159	134	73.5	21.8	0	14.9	5.63
CFSM#	1.38	1.49	1.87	4.60	3.20	1.63	1.38	.75	.22	0	.15	.06
IN.#	1.59	1.66	2.16	5.30	3.45	1.88	1.54	.86	.24	0	.17	.07
CAL YR 1975	TOTAL	88138.0	MEAN 241	MAX 3420	MIN 14	MEAN# 214	CFSM# 2.20	IN.# 29.89				
WTR YR 1976	TOTAL	49998.9	MEAN 137	MAX 2600	MIN 5.3	MEAN# 136	CFSM# 1.39	IN.# 18.95				

NOTE.--No gage-height record Dec. 6 to Jan. 11 and Jan. 26 to Mar. 4.

Change in contents in Nockamixon Lake, equivalent in cubic feet per second.

Adjusted for change in contents in Nockamixon Lake.

DELAWARE RIVER BASIN

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01459500 TOHICKON CREEK NEAR PIPERSVILLE, PA--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--October 1975 to current year.

COOPERATION.--Water-quality data were furnished by the Pennsylvania Department of Environmental Resources.

WATER QUALITY DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

DATE	TIME	CODE FOR AGENCY COL- LECTING SAMPLE	INSTAN- TANEOUS DIS- CHARGE (CFS)	SPE- CIFIC CON- DUCT- ANCE (MICRO- MHOS)	TEMPER- ATURE (DEG C)	TUR- BID- ITY (JTU)	CHEM- ICAL OXYGEN DEMAND (HIGH LEVEL) (MG/L)	HARD- NESS (CA.MG) (MG/L)	MINERAL ACIDITY (METHYL ORANGE) AS CAC03 (MG/L)	ACIDITY C02 AS CAC03 (MG/L)	DIS- SOLVED CAL- CIUM (CA) (MG/L)	DIS- SOLVED MAG- NE- SIUM (MG) (MG/L)
OCT 23...	1100	9813	174	120	14.0	10	20	49	0	0	12	4.0
JAN 14...	0930	9813	287	90	.0	57	--	32	0	0	7.1	3.5
FEB 24...	1115	9813	--	130	3.0	11	--	85	0	0	12	13
MAY 20...	1000	9813	55	170	--	4	--	78	0	0	11	12
AUG 17...	1000	9813	21	230	21.0	3	--	71	0	0	18	6.2

DATE	ALKA- LINITY AS CAC03 (MG/L)	DIS- SOLVED SULFATE (SO4) (MG/L)	DIS- SOLVED CHLO- RIDE (CL) (MG/L)	TOTAL FLUO- RIDE (F) (MG/L)	TOTAL FILT- RABLE RESIDUE (MG/L)	TOTAL NON- FILT- RABLE RESIDUE (MG/L)	TOTAL NITRATE (N) (MG/L)	TOTAL NITRITE (N) (MG/L)	TOTAL AMMONIA NITRO- GEN (N) (MG/L)	TOTAL PHOS- PHORUS (P) (MG/L)	TOTAL IRON (FE) (UG/L)	METHY- LENE BLUE ACTIVE SUB- STANCE (MG/L)
OCT 23...	40	18	9.0	--	160	--	.08	.07	.04	.08	480	--
JAN 14...	18	12	10	--	130	104	1.6	.09	.18	.33	2340	--
FEB 24...	28	24	12	.1	134	14	2.2	.05	.06	.11	250	.0
MAY 20...	32	22	14	--	--	12	1.1	.04	.06	.08	320	.0
AUG 17...	48	18	17	.1	128	<5	.60	.03	.04	.02	240	.0

DELAWARE RIVER BASIN

01463500 DELAWARE RIVER AT TRENTON, NJ

(National stream quality accounting network, Pesticide program, and Radiochemical program station)

LOCATION.--Lat 40°13'18", long 74°46'42", Mercer County, Hydrologic Unit 02040105, on left bank 450 ft (137 m) upstream from Calhoun Street Bridge at Trenton, 0.5 mi (0.8 km) upstream from Assumpink Creek, and at mile 134.5 (216.4 km). Water-quality monitor located at raw-water intake of the Trenton Water Department.

DRAINAGE AREA.--6,780 mi² (17,560 km²).

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--February 1913 to current year. October 1912 to February 1913 monthly discharge only published in WSP 1302. Gage-height records collected in this vicinity since 1904 are contained in reports of the National Weather Service.

REVISED DISCHARGE RECORDS.--WSP 951: Drainage area. WSP 1302: 1913-20. WSP 1382: 1924, 1928.

GAGE.--Water-stage recorder. Datum of gage is at mean sea level. Prior to Sept. 30, 1965, at datum 7.77 ft (2.368 m) higher. Feb. 24, 1913, to Oct. 2, 1928, nonrecording gage on downstream side of highway bridge at site 500 ft (152 m) downstream.

REMARKS.--Discharge records excellent. Diurnal fluctuations at medium and low flow caused by powerplants on tributary streams. Flow regulated by Lakes Wallenpaupack and Hopatcong, and by Pepacton, Cannonsville, Swinging Bridge, Toronto, Cliff Lake, Neversink, and Wild Creek Reservoirs (see Delaware River Basin, reservoirs in) and smaller reservoirs. Division from Pepacton, Cannonsville, and Neversink Reservoirs and to Delaware and Raritan Canal (see Delaware River Basin, diversions). Water diverted just above station by Borough of Morrisville, Pa., and city of Trenton for municipal supply (see Delaware River Basin, diversions).

AVERAGE DISCHARGE.--64 years, 11,660 ft³/s (330.2 m³/s), unadjusted.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 329,000 ft³/s (9,320 m³/s) Aug. 20, 1955 (elevation, 28.60 ft or 8.717 m, from high-water mark in gage house) from rating curve extended above 230,000 ft³/s (6,510 m³/s); minimum, 1,180 ft³/s (33.4 m³/s) Oct. 31, 1963, elevation, 7.26 ft (2.213 m). Flow in Trenton powerplant and Delaware and Raritan Canal not included.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood of Oct. 11, 1903, reached an elevation of about 28.5 ft (8.69 m) above mean sea level, discharge estimated, 295,000 ft³/s (8,350 m³/s). Maximum elevation since 1903, 30.6 ft (9.33 m) above mean sea level, Mar. 8, 1904, from floodmark (ice jam).

EXTREMES FOR CURRENT YEAR.--Peak discharges above base of 50,000 ft³/s (1,420 m³/s) and maximum (*):

Date	Time	Discharge (ft ³ /s) (m ³ /s)	Elevation (ft) (m)	Date	Time	Discharge (ft ³ /s) (m ³ /s)	Elevation (ft) (m)
Oct. 20	2245	62,400 1,770	15.07 4.593	Feb. 24	0015	51,500 1,460	14.22 4.334
Jan. 28	1300	*113,000 3,200	18.52 5.645				

Minimum discharge, 3,180 ft³/s (90.1 m³/s) Sept. 9, gage height, 8.05 ft (2.454 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	18100	11200	13800	19200	35700	22900	19200	11600	8160	11000	7830	5500
2	15100	10600	13300	15000	43300	20700	32600	16600	8370	17500	7020	4860
3	13100	10000	14100	12500	33400	19400	36000	19400	8990	18600	5780	4740
4	12000	9520	13500	13000	29400	18600	29000	18500	8330	14600	5900	4700
5	11300	9960	12700	11300	25000	18600	24500	16200	7660	12400	5380	4500
6	9660	9660	11400	9130	21700	20700	21200	14700	6940	11000	4980	3980
7	8700	9320	10400	8800	18600	23700	18000	13800	6300	10000	4940	3420
8	8940	9230	9800	10000	16300	21700	15900	12700	6740	10300	6020	3450
9	8160	9910	9650	9860	14800	19200	14300	11500	7620	9370	9710	3280
10	7790	9420	10300	8580	13600	17500	13000	10500	7580	9420	12900	3600
11	7580	11900	10500	8280	13600	15900	12100	9860	6780	8580	19100	3720
12	8890	13800	10700	7790	15000	15200	11200	9710	6340	8200	17900	4100
13	9910	26200	10000	7260	14000	17600	10600	11500	6140	7340	13600	3980
14	10300	34000	10000	13000	13900	18400	10100	11000	5020	7910	11100	3760
15	9910	33700	9420	14300	13100	17400	9320	10100	4540	7830	9660	3720
16	9470	28500	8620	11100	12000	15600	9080	9420	4780	7180	9710	3910
17	9130	23600	9370	10300	15900	16000	8410	8800	6060	7140	9230	5340
18	12300	20700	9080	9500	29400	14400	8200	9960	6700	7580	8990	6420
19	33000	19300	8750	7000	40100	13000	8040	12300	5900	8240	7990	6300
20	58200	17400	8280	8200	41900	12500	7830	13300	5300	7710	7500	5580
21	55800	17200	7300	8000	44100	12700	7620	14100	5700	7420	6900	5260
22	40900	19400	6540	8600	39100	12500	7100	16800	9470	7100	6420	5260
23	31900	21200	6180	7800	42800	14200	6820	17200	12800	6780	5380	4580
24	26300	19400	6660	7000	47300	15900	6660	15600	11500	6460	4500	4100
25	22300	16600	7140	8000	36400	14800	6380	14100	10000	6380	4660	3950
26	19400	15800	9860	9000	30100	13700	6500	13000	9520	5900	4500	4060
27	16700	15000	14300	59900	26800	13000	7990	11900	8660	4980	4620	4660
28	14800	15300	13900	99600	25400	12100	11200	10900	7500	4700	5300	7060
29	13800	15300	13500	85300	25400	13000	12000	9810	7300	4660	7620	8120
30	12700	15200	12200	60500	---	15000	11600	9230	7990	4860	7300	8080
31	11900	---	13400	45200	---	14000	---	8530	---	5780	5780	---
TOTAL	548040	498320	324650	613000	778100	509900	402450	392620	224690	266920	248220	143990
MEAN	17680	16610	10470	19770	26830	16450	13420	12670	7490	8610	8007	4800
MAX	58200	34000	14300	99600	47300	23700	36000	19400	12800	18600	19100	8120
MIN	7580	9230	6180	7000	12000	12100	6380	8530	4540	4660	4500	3280

CAL YR 1975	TOTAL	5785840	MEAN	15850	MAX	88000	MIN	3980
WTR YR 1976	TOTAL	4950900	MEAN	13530	MAX	99600	MIN	3280

DELAWARE RIVER BASIN

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01463500 DELAWARE RIVER AT TRENTON, NJ--Continued

WATER-QUALITY RECORDS

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

PERIOD OF DAILY RECORD.--

SPECIFIC CONDUCTANCE: October 1944 to current year.

pH: June 1968 to current year.

WATER TEMPERATURES: October 1944 to current year.

DISSOLVED OXYGEN: October 1962 to current year.

SUSPENDED SEDIMENT DISCHARGE: September 1949 to current year.

REMARKS.--Operated as part of the USGS-EPA surveillance network. Further information on this station is given in U.S. Geological Survey Water-Supply Paper 1779-X.

EXTREMES FOR PERIOD OF RECORD.--

SPECIFIC CONDUCTANCE: Maximum, 301 micromhos Aug. 24, 1967; minimum 65 micromhos Mar. 12, 1964.

pH: Maximum, 10.2 July 5, 6, 1971, June 14, 15, 1974; minimum, 5.3 June 22, 1972.

WATER TEMPERATURES: Maximum, 34.0°C June 18, 1957; minimum, freezing point on many days during winter periods.

DISSOLVED OXYGEN: Maximum, 17.3 mg/l July 9, 1971; minimum, 4.1 mg/l Sept. 12, 1971.

SEDIMENT CONCENTRATIONS: Maximum daily, 1,720 mg/l Nov. 26, 1950; minimum daily, 0 mg/l Oct. 21, 1952.

SEDIMENT LOADS: Maximum daily, 1,087,000 tons (986,000 t) Aug. 20, 1955; minimum daily, 0 tons (0 t) Oct. 21, 1952.

EXTREMES FOR CURRENT YEAR.--

SEDIMENT CONCENTRATIONS: Maximum daily, 370 mg/l Jan. 28; minimum daily, 1 mg/l on many days.

SEDIMENT LOADS: Maximum daily, 99,500 tons (90,270 t) Jan. 28; minimum daily, 10 tons (9 t) Sept. 11.

WATER QUALITY DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)	TEMPERATURE (DEG C)	COLOR (PLATINUM-COBALT UNITS)	TURBIDITY (JTU)	DISSOLVED OXYGEN (MG/L)	BIO-CHEMICAL OXYGEN DEMAND 5 DAY (MG/L)	FECAL COLIFORM (COL. PER 100 ML)	STREPTOCOCCI (COLONIES PER 100 ML)	HARDNESS (CA, MG/L)
OCT 31...	1130	12100	178	6.8	10.5	2	2	10.8	1.3	62	58	64
NOV 19...	1000	19100	140	7.2	8.7	10	2	11.8	1.3	--	32	50
DEC 11...	1230	10700	178	7.6	4.4	2	1	14.2	.8	814	21	55
FEB 05...	1330	24600	135	6.4	1.0	4	4	14.0	1.2	80	80	44
MAR 02...	1000	20400	127	6.4	6.5	1	2	12.4	--	8340	27	47
APR 06...	0830	21600	121	7.3	7.6	2	2	12.6	1.2	880	56	27
23...	1015	6820	204	8.9	19.9	3	2	10.3	4.9	1800	88	50
MAY 10...	0915	10600	130	--	--	20	3	--	--	--	--	50
14...	1030	10900	134	7.2	19.0	4	2	10.3	1.3	--	--	45
JUN 22...	1245	9550	210	7.9	26.5	1	15	8.3	2.7	100	330	64
JUL 29...	1100	4380	180	7.3	25.0	--	1	7.9	2.8	86	340	66
AUG 26...	1215	4180	206	8.8	25.0	--	3	--	2.2	82	88	74
SEP 08...	1445	3460	--	9.1	24.0	--	--	--	--	--	--	--
13...	1300	3700	230	--	--	<5	1	--	--	--	--	75
29...	1200	8550	213	7.6	17.0	--	3	9.0	2.8	8550	>320	65

DELAWARE RIVER BASIN

01463500 DELAWARE RIVER AT TRENTON, NJ--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

DATE	NON-CARBONATE HARDNESS (MG/L)	DIS-SOLVED CALCIUM (CA) (MG/L)	DIS-SOLVED MAGNESIUM (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)	DIS-SOLVED CHLORIDE (CL) (MG/L)	TOTAL FLUORIDE (F) (MG/L)
OCT 31...	24	16	5.8	5.1	1.4	49	0	40	12	22	7.5	--
NOV 19...	14	12	4.8	6.4	1.3	43	0	35	4.3	19	6.5	--
DEC 11...	15	15	4.2	5.3	1.3	48	0	39	1.9	22	8.0	--
FEB 05...	17	11	4.0	5.2	1.0	33	0	27	21	17	8.8	--
MAR 02...	22	13	3.5	3.9	.9	30	0	25	19	17	6.8	--
APR 06...	7	7.0	2.2	4.0	.9	24	0	20	1.9	16	6.3	--
MAY 23...	28	12	4.8	6.3	1.4	26	0	21	.1	23	11	--
JUN 10...	--	12	5.0	--	--	--	--	34	--	14	8.0	<.1
JUN 14...	18	11	4.3	4.4	1.0	33	0	27	3.3	17	6.9	--
JUL 22...	23	16	5.9	6.8	1.6	50	0	41	1.0	24	9.4	--
JUL 29...	21	17	5.8	9.6	1.4	55	0	45	4.4	24	11	--
AUG 26...	32	18	7.0	7.6	1.5	51	--	42	.1	25	13	--
SEP 08...	--	--	--	--	--	--	--	--	--	--	--	--
SEP 13...	--	20	6.3	--	--	--	--	50	--	20	18	<.1
SEP 29...	26	17	5.4	7.9	1.8	47	--	39	1.9	23	11	--

DATE	DIS-SOLVED FLUORIDE (F) (MG/L)	DIS-SOLVED SILICA (SiO2) (MG/L)	DIS-SOLVED SOLIDS (RESIDUE AT 180 C) (MG/L)	TOTAL FILTRABLE RESIDUE (MG/L)	DIS-SOLVED SOLIDS (SUM OF CONSTITUENTS) (MG/L)	TOTAL NON-FILTRABLE RESIDUE (MG/L)	TOTAL NITRATE (N) (MG/L)	TOTAL NITRITE (N) (MG/L)	TOTAL NITRITE PLUS NITRATE (N) (MG/L)	TOTAL AMMONIA NITROGEN (N) (MG/L)	TOTAL ORGANIC NITROGEN (N) (MG/L)	TOTAL KJELDAHL NITROGEN (N) (MG/L)
OCT 31...	.1	5.4	97	120	87	4	.95	.02	.97	.05	.22	.27
NOV 19...	.1	5.5	75	--	77	4	.77	.02	.79	.07	.23	.30
DEC 11...	.0	4.2	89	--	84	3	.92	.03	.95	.07	.17	.24
FEB 05...	.2	5.0	69	--	68	12	.99	.01	1.0	.10	.21	.31
MAR 02...	.1	4.3	67	--	64	4	.70	.01	.71	.07	.33	.40
APR 06...	.1	3.9	44	93	52	4	.76	.01	.77	.05	.25	.30
MAY 23...	.1	.3	102	--	72	92	.32	.03	.35	.01	.79	.80
JUN 10...	--	--	--	84	--	6	1.0	.05	--	.09	--	--
JUN 14...	.1	2.6	68	--	64	5	.63	.04	.67	.05	.38	.43
JUL 22...	.1	4.6	112	--	93	61	1.0	.08	1.1	.15	.48	.63
JUL 29...	.1	1.9	107	--	98	6	--	--	.98	.01	.49	.50
AUG 26...	.1	2.3	112	--	100	3	--	--	.83	.00	.38	.38
SEP 08...	--	--	--	--	--	--	--	--	--	--	--	--
SEP 13...	--	--	--	150	--	<5	1.4	.06	--	.06	--	--
SEP 29...	.1	4.0	112	--	93	15	--	--	1.1	.18	.47	.65

DELAWARE RIVER BASIN

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01463500 DELAWARE RIVER AT TRENTON, NJ--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

DATE	TOTAL NITRO- GEN (N) (MG/L)	TOTAL PHOS- PHORUS (P) (MG/L)	TOTAL ORTHO PHOS- PHORUS (P) (MG/L)	TOTAL ALPHA (PC/L)	TOTAL BETA (PC/L)	TOTAL ORGANIC CARBON (C) (MG/L)	PHENOLS (UG/L)	METHY- LENE BLUE ACTIVE SUB- STANCE (MG/L)	TOTAL PHYTO- PLANK- TON (CELLS PER ML)	SUS- PENDE SEDI- MENT (MG/L)	SUS- PENDE SEDI- MENT (T/DAY)	SUS. SED. SIEVE DIAM. % FINER THAN .062 MM
OCT 31...	1.2	.07	.04	--	--	4.5	--	--	2000	1	33	100
NOV 19...	1.1	.27	.04	--	--	3.8	--	--	1600	17	877	100
DEC 11...	1.2	.07	.05	--	--	1.8	--	--	990	14	404	100
FEB 05...	1.3	.07	.03	--	--	12	--	--	800	17	1130	91
MAR 02...	1.1	.05	.03	--	--	2.5	--	--	670	--	--	--
APR 06...	1.1	.05	.02	--	--	6.8	--	--	1200	18	1050	72
23...	1.2	.13	.07	--	--	5.9	--	--	15000	12	221	78
MAY 10...	--	.09	--	<1.0	<1.0	--	<10	.00	--	--	--	--
14...	1.1	.11	.04	--	--	3.5	--	--	8500	17	500	86
JUN 22...	1.7	.18	.09	--	--	5.8	--	--	17000	66	1700	88
JUL 29...	1.5	.09	--	--	--	3.5	--	--	24000	1	12	100
AUG 26...	1.2	.08	--	--	--	2.8	--	--	17000	1	11	--
SEP 08...	--	--	--	--	--	--	--	--	--	--	--	--
13...	--	.19	--	<1.0	3.0	--	<10	.02	--	--	--	--
29...	1.8	.15	--	--	--	5.4	--	--	4500	21	485	92

DATE	TIME	TOTAL ALDRIN (UG/L)	TOTAL ATRA- ZINE (UG/L)	TOTAL CHLOR- DANE (UG/L)	TOTAL DDD (UG/L)	TOTAL DDE (UG/L)	TOTAL DDT (UG/L)	TOTAL DI- AZINON (UG/L)	TOTAL DI- ELDRIN (UG/L)	TOTAL ENDRIN (UG/L)
NOV 19...	1000	ND	ND	ND	ND	ND	ND	ND	ND	ND
MAR 02...	1000	ND	ND	ND	ND	ND	ND	ND	ND	ND
MAY 14...	1100	ND	ND	ND	ND	ND	ND	ND	ND	ND
AUG 26...	1215	ND	ND	ND	ND	ND	ND	ND	ND	ND

DATE	TOTAL ETHION (UG/L)	TOTAL HEPTA- CHLOR (UG/L)	TOTAL HEPTA- CHLOR EPOXIDE (UG/L)	TOTAL LINDANE (UG/L)	TOTAL MALA- THION (UG/L)	TOTAL METH- OXY- CHLOR (UG/L)	TOTAL METHYL PARA- THION (UG/L)	TOTAL METHYL TRI- THION (UG/L)	TOTAL PARA- THION (UG/L)
NOV 19...	ND	ND	ND	ND	ND	ND	ND	ND	ND
MAR 02...	ND	ND	ND	ND	ND	ND	ND	ND	ND
MAY 14...	ND	ND	ND	ND	ND	ND	ND	ND	ND
AUG 26...	ND	ND	ND	ND	ND	ND	ND	ND	ND

DATE	SIMA- ZINE TOTAL (UG/L)	TOTAL TOX- APHENE (UG/L)	TOTAL TRI- THION (UG/L)	TOTAL 2,4-D (UG/L)	2,4-D IN BOTTOM MA- TERIAL (UG/KG)	TOTAL 2,4,5-T (UG/L)	2,4,5-T IN BOTTOM MA- TERIAL (UG/KG)	TOTAL SILVEX (UG/L)	SILVEX IN BOTTOM MA- TERIAL (UG/KG)
NOV 19...	--	ND	ND	ND	ND	ND	ND	ND	ND
MAR 02...	--	ND	ND	ND	--	ND	--	ND	--
MAY 14...	--	ND	ND	ND	--	ND	--	ND	--
AUG 26...	ND	ND	ND	ND	--	ND	--	ND	--

DELAWARE RIVER BASIN

01463500 DELAWARE RIVER AT TRENTON, NJ--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

DATE	TIME	TOTAL ALUMINUM (AL) (UG/L)	TOTAL ARSENIC (AS) (UG/L)	SUS-PENDED ARSENIC (AS) (UG/L)	DIS-SOLVED ARSENIC (AS) (UG/L)	TOTAL CADMIUM (CD) (UG/L)	SUS-PENDED CADMIUM (CD) (UG/L)	DIS-SOLVED CADMIUM (CD) (UG/L)	TOTAL CHROMIUM (CR) (UG/L)	SUS-PENDED CHROMIUM (CR) (UG/L)	DIS-SOLVED CHROMIUM (CR) (UG/L)	TOTAL COBALT (CO) (UG/L)
NOV 19...	1000	--	0	0	0	1	0	1	10	10	0	1
MAR 02...	1000	--	1	0	1	0	0	0	<10	0	<10	0
MAY 10...	0915	160	--	--	--	<3	--	--	<10	--	--	--
MAY 14...	1030	--	0	0	0	0	0	0	10	0	10	1
AUG 26...	1215	--	0	0	0	0	0	1	<10	0	<10	1
SEP 13...	1300	60	--	--	--	<3	--	--	<10	--	--	--

DATE	SUS-PENDED COBALT (CO) (UG/L)	DIS-SOLVED COBALT (CO) (UG/L)	TOTAL COPPER (CU) (UG/L)	SUS-PENDED 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-PENDED LEAD (PB) (UG/L)	DIS-SOLVED LEAD (PB) (UG/L)	TOTAL MANGANESE (MN) (UG/L)	SUS-PENDED MANGANESE (MN) (UG/L)
NOV 19...	0	1	10	10	0	230	80	13	7	6	70	20
MAR 02...	0	0	0	0	0	220	30	9	4	5	40	10
MAY 10...	--	--	<10	--	--	120	--	<50	--	--	30	--
MAY 14...	1	0	0	0	0	100	50	3	1	2	20	10
AUG 26...	1	0	10	10	0	100	30	7	3	4	10	10
SEP 13...	--	--	50	--	--	80	--	70	--	--	10	--

DATE	DIS-SOLVED MANGANESE (MN) (UG/L)	TOTAL MERCURY (HG) (UG/L)	SUS-PENDED MERCURY (HG) (UG/L)	DIS-SOLVED MERCURY (HG) (UG/L)	TOTAL NICKEL (NI) (UG/L)	TOTAL SELENIUM (SE) (UG/L)	SUS-PENDED SELENIUM (SE) (UG/L)	DIS-SOLVED SELENIUM (SE) (UG/L)	TOTAL ZINC (ZN) (UG/L)	SUS-PENDED ZINC (ZN) (UG/L)	DIS-SOLVED ZINC (ZN) (UG/L)
NOV 19...	50	<.5	.0	<.5	--	0	0	0	40	0	40
MAR 02...	30	<.5	.0	<.5	--	0	0	0	20	0	20
MAY 10...	--	--	--	--	10	--	--	--	40	--	--
MAY 14...	10	<.5	.0	<.5	--	0	0	0	30	10	20
AUG 26...	0	<.5	.0	<.5	--	0	0	0	90	90	0
SEP 13...	--	--	--	--	10	--	--	--	70	--	--

DATE	TIME	DIS-SOLVED GROSS ALPHA AS U-NAT. (UG/L)	SUS-PENDED GROSS ALPHA AS U-NAT. (UG/L)	DIS-SOLVED GROSS BETA AS CS-137 (PC/L)	SUS-PENDED GROSS BETA AS CS-137 (PC/L)	DIS-SOLVED GROSS BETA AS SR90 /Y90 (PC/L)	SUS-PENDED GROSS BETA AS SR90 /Y90 (PC/L)	DIS-SOLVED GROSS RADON-226 (RADON METHOD) (PC/L)
OCT 31...	1130	2.0	<.4	<.4	<.4	<.4	<.4	.02
APR 06...	0830	<1.4	<.4	3.1	<.4	2.7	<.4	.05

DELAWARE RIVER BASIN

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01463500 DELAWARE RIVER AT TRENTON, NJ--Continued

SPECIFIC CONDUCTANCE (MICROMHOS/CM AT 25 C), 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				162	157	160	134	128	131	168	147	154
2				168	161	164	140	134	138	178	153	166
3				170	164	167	140	132	136	182	175	179
4				176	166	170	135	132	134	180	175	177
5				182	176	179	151	133	146	184	178	181
6												
7				179	175	177	160	155	158	192	178	183
8				181	176	178	166	159	163	203	191	194
9				179	175	177	163	156	159	216	201	206
10				175	170	172	174	158	168	237	215	226
				170	166	169	175	168	173	---	---	---
11												
12				165	161	164	178	169	174	---	---	---
13				168	150	164	175	169	171	---	---	---
14				150	143	146	171	167	169	---	---	---
15				144	125	136	170	166	169	215	207	211
				126	120	121	170	164	167	241	202	220
16												
17				123	118	121	174	166	169	202	195	198
18				128	124	125	180	173	177	210	200	203
19				138	129	133	177	169	172	206	197	200
20				139	133	135	178	173	175	194	181	188
				143	135	139	180	175	177	215	197	207
21												
22				148	144	146	185	179	180	223	216	220
23				154	141	148	199	188	194	225	214	218
24				154	134	143	212	199	208	232	219	225
25				134	130	132	220	213	215	229	215	223
				141	134	138	219	207	214	219	214	217
26												
27				141	131	137	234	176	203	229	205	219
28				138	135	136	236	160	189	238	132	184
29				140	137	139	235	180	203	129	103	117
30				141	136	139	178	161	170	103	97	100
31				135	128	131	160	157	158	104	98	101
				---	---	---	167	157	163	110	105	108
MONTH				182	118	150	236	128	172	241	97	186
DAY	FEBRUARY			MARCH			APRIL			MAY		
	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	118	109	113	119	116	118	142	130	135	---	---	---
2	133	118	127	128	119	124	145	115	136	---	---	---
3	130	127	129	131	127	128	113	103	106	135	126	---
4	131	121	129	134	131	132	108	102	105	---	---	---
5	130	124	128	138	134	136	113	107	110	---	---	---
6	131	128	130									
7	138	130	134	138	130	135	120	114	117	---	---	---
8	139	137	138	129	118	121	128	118	123	139	117	---
9	144	137	142	120	118	119	133	129	131	140	128	132
10	146	142	145	124	120	122	139	134	137	140	130	134
				133	124	127	143	139	141	143	127	137
11	151	144	148									
12	160	146	154	152	134	141	147	143	145	146	137	143
13	161	153	157	158	149	154	152	145	150	146	131	140
14	158	154	156	160	151	154	156	150	153	---	---	---
15	164	155	160	166	154	163	161	153	158	141	135	---
				166	154	160	171	160	166	138	137	138
16	159	155	158									
17	176	160	166	162	156	160	173	165	170	146	138	142
18	180	126	156	165	162	163	172	169	171	153	146	148
19	125	111	114	167	164	---	177	173	174	159	151	156
20	115	105	110	---	---	---	175	171	173	---	---	---
				---	---	---	174	170	172	---	---	---
21	106	101	104									
22	114	101	108	---	---	---	180	167	176	---	---	---
23	118	107	115	---	---	---	184	169	178	---	---	---
24	105	99	101	---	---	---	185	180	182	---	---	---
25	113	100	108	---	---	---	191	178	188	---	---	---
				134	131	---	---	---	---	---	---	---
26	118	110	114									
27	122	116	119	136	133	135	---	---	---	116	109	---
28	122	119	121	140	127	138	---	---	---	131	117	122
29	120	117	119	145	139	142	---	---	---	123	112	---
30	---	---	---	152	144	149	---	---	---	---	---	---
31	---	---	---	147	129	137	---	---	---	142	125	137
				129	123	126	---	---	---	144	130	139
MONTH	180	99	131	167	116	---	191	102	150	---	---	---

DELAWARE RIVER BASIN

01463500 DELAWARE RIVER AT TRENTON, NJ--Continued

SPECIFIC CONDUCTANCE (MICROMHOS/CM AT 25 C), WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

DAY	JUNE			JULY			AUGUST			SEPTEMBER		
	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	149	131	142	---	---	---	---	---	---	---	---	---
2	156	147	151	---	---	---	---	---	---	---	---	---
3	159	146	157	---	---	---	145	132	135	---	---	---
4	---	---	---	---	---	---	139	131	135	191	177	178
5	---	---	---	---	---	---	138	133	134	187	181	183
6	---	---	---	---	---	---	139	132	135	193	186	189
7	---	---	---	---	---	---	140	132	136	195	189	192
8	---	---	---	---	---	---	145	136	141	196	187	192
9	181	173	177	---	---	---	---	---	---	200	195	197
10	172	156	162	---	---	---	---	---	---	199	195	197
11	162	156	159	---	---	---	152	140	---	199	183	191
12	170	163	166	---	---	---	---	---	---	---	---	---
13	171	165	169	---	---	---	---	---	---	200	184	194
14	176	172	174	---	---	---	---	---	---	205	187	199
15	189	176	182	---	---	---	---	---	---	202	185	196
16	194	184	190	---	---	---	---	---	---	---	---	---
17	204	184	197	---	---	---	---	---	---	---	---	---
18	247	201	229	161	142	---	---	---	---	216	195	---
19	215	193	200	---	---	---	---	---	---	213	191	201
20	206	193	200	---	---	---	---	---	---	---	---	---
21	209	200	206	---	---	---	---	---	---	224	206	218
22	204	187	198	---	---	---	---	---	---	222	210	218
23	186	147	171	146	140	---	---	---	---	---	---	---
24	146	137	140	148	147	---	---	---	---	213	187	201
25	143	138	141	---	---	---	---	---	---	197	165	178
26	143	134	141	---	---	---	---	---	---	---	---	---
27	---	---	---	---	---	---	---	---	---	180	155	168
28	---	---	---	---	---	---	213	204	---	172	151	160
29	---	---	---	---	---	---	210	204	---	175	153	161
30	---	---	---	---	---	---	---	---	---	---	---	---
31	---	---	---	---	---	---	223	212	---	207	171	191
MONTH	---	---	---	---	---	---	---	---	---	203	199	201
										205	182	197
										199	181	191
										177	163	170
										---	---	---
										224	151	190

PH (UNITS), 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	---	---	---	7.7	7.5	7.6	7.5	7.2	7.3	7.9	7.5	7.7
2	---	---	---	8.0	7.6	7.7	7.6	7.2	7.4	8.1	7.6	7.8
3	---	---	---	9.1	7.7	7.9	7.7	7.4	7.5	7.8	7.6	7.7
4	---	---	---	8.1	7.7	7.9	7.8	7.5	7.7	7.9	7.6	7.8
5	---	---	---	8.1	7.5	7.8	7.9	7.6	7.7	8.1	7.7	7.9
6	---	---	---	7.6	7.2	7.4	7.9	7.6	7.7	8.2	7.6	7.9
7	---	---	---	7.4	7.1	7.2	7.9	7.4	7.7	7.9	7.5	7.8
8	---	---	---	7.5	7.3	7.4	7.9	7.5	7.8	7.9	7.7	7.8
9	---	---	---	7.4	7.2	7.4	8.0	7.8	7.9	8.2	7.6	8.0
10	---	---	---	7.4	7.1	7.2	8.1	7.8	7.9	---	---	---
11	---	---	---	7.2	7.1	7.1	8.3	7.8	8.0	---	---	---
12	---	---	---	7.2	6.9	7.0	8.4	8.0	8.1	---	---	---
13	---	---	---	7.2	7.0	7.1	8.2	8.0	8.0	---	---	---
14	---	---	---	7.4	7.1	7.2	8.5	7.9	8.1	7.6	7.3	7.4
15	---	---	---	7.2	7.2	7.2	8.4	8.1	8.2	7.4	7.2	7.3
16	---	---	---	7.2	7.1	7.2	8.2	8.1	8.1	7.8	7.3	7.5
17	---	---	---	7.2	7.1	7.1	8.3	7.9	8.1	8.0	7.8	7.9
18	---	---	---	7.2	7.1	7.2	8.3	7.6	7.9	8.1	7.8	8.0
19	---	---	---	7.3	7.2	7.3	8.4	7.6	7.9	8.0	7.5	7.8
20	---	---	---	7.4	7.2	7.3	8.3	7.8	7.9	8.0	7.5	7.7
21	---	---	---	7.4	7.1	7.2	8.5	7.8	8.1	8.1	7.6	7.8
22	---	---	---	7.3	7.1	7.2	8.5	7.7	8.1	7.7	7.5	7.7
23	---	---	---	7.3	7.2	7.2	8.8	7.9	8.2	8.1	7.6	7.9
24	---	---	---	7.3	7.2	7.3	8.7	8.0	8.3	7.9	7.7	7.8
25	---	---	---	7.3	7.1	7.2	8.8	8.1	8.4	8.1	7.6	7.9
26	---	---	---	7.4	7.2	7.2	8.1	7.6	7.9	8.0	7.9	8.0
27	---	---	---	7.2	7.1	7.2	7.9	7.3	7.6	8.4	7.4	7.8
28	---	---	---	7.3	7.2	7.3	7.9	7.8	7.9	7.3	6.9	7.2
29	---	---	---	7.5	7.3	7.4	8.1	7.6	7.8	7.1	6.8	7.0
30	---	---	---	7.4	7.2	7.3	7.9	7.5	7.7	7.1	7.0	7.0
31	---	---	---	---	---	---	7.9	7.7	7.8	7.4	7.0	7.1
MONTH	---	---	---	8.1	6.9	7.3	8.8	7.2	7.9	8.4	6.8	7.7

DELAWARE RIVER BASIN

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01463500 DELAWARE RIVER AT TRENTON, NJ--Continued

PH (UNITS). WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

DAY	FEBRUARY			MARCH			APRIL			MAY		
	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	7.5	7.2	7.4	8.1	7.7	7.9	7.1	6.6	6.9	---	---	---
2	7.4	7.1	7.2	8.0	7.5	7.7	7.3	6.9	7.1	---	---	---
3	7.5	7.2	7.4	8.1	7.6	7.8	7.0	6.8	6.9	7.0	6.8	---
4	7.7	7.3	7.5	8.1	7.6	7.8	7.0	6.9	6.9	7.1	6.8	6.9
5	7.7	7.5	7.6	8.2	7.3	7.8	7.3	6.9	7.1	7.2	6.8	7.0
6	7.7	7.6	7.6	7.8	7.2	7.6	7.4	7.0	7.3	7.2	6.9	7.1
7	7.8	7.5	7.7	7.7	7.3	7.5	7.7	7.0	7.1	7.2	6.8	7.0
8	7.9	7.6	7.7	7.5	7.2	7.3	7.7	7.1	7.3	7.4	6.8	7.0
9	7.8	7.4	7.7	7.4	7.1	7.2	8.1	7.1	7.5	7.5	6.7	7.0
10	7.8	7.7	7.8	7.6	7.1	7.3	8.3	7.2	7.7	7.7	6.8	7.3
11	7.8	7.6	7.7	7.6	7.1	7.4	8.1	7.2	7.6	7.7	6.9	7.3
12	7.7	7.3	7.6	7.9	7.3	7.5	8.4	7.2	7.8	7.8	6.8	7.3
13	8.1	7.5	7.7	7.6	7.2	7.4	8.6	7.4	8.0	7.6	6.9	7.3
14	7.9	7.5	7.7	7.8	7.2	7.5	8.7	7.4	---	7.8	6.7	7.2
15	8.0	7.7	7.8	8.2	7.5	7.8	---	---	---	7.9	6.8	7.2
16	8.3	7.5	8.0	7.7	7.3	7.6	---	---	---	7.2	6.6	6.9
17	8.3	7.9	8.2	7.8	7.5	7.6	---	---	---	7.5	6.6	7.0
18	8.5	7.7	8.1	7.9	7.6	---	---	---	---	7.8	6.8	7.1
19	8.0	7.5	7.6	---	---	---	---	---	---	7.0	6.8	6.9
20	8.0	7.1	7.5	---	---	---	---	---	---	7.1	6.8	7.0
21	7.9	7.3	7.5	---	---	---	---	---	---	7.0	6.8	6.9
22	8.1	7.6	7.8	---	---	---	---	---	---	6.8	6.7	6.7
23	7.6	7.1	7.4	---	---	---	---	---	---	6.8	6.7	6.7
24	7.2	7.0	7.0	---	---	---	---	---	---	6.9	6.7	6.8
25	8.0	7.1	7.5	---	---	---	---	---	---	7.0	6.8	6.9
26	8.1	7.5	7.7	---	---	---	---	---	---	6.9	6.8	6.8
27	8.0	7.6	7.7	---	---	---	---	---	---	7.4	6.8	7.1
28	7.9	7.5	7.7	---	---	---	---	---	---	7.5	6.9	7.2
29	8.1	7.6	7.9	---	---	---	---	---	---	7.7	6.9	7.3
30	---	---	---	---	---	---	---	---	---	7.5	7.0	7.2
31	---	---	---	---	---	---	---	---	---	7.9	6.8	7.4
MONTH	8.5	7.0	7.6	---	---	---	---	---	---	7.9	6.6	7.1
DAY	JUNE			JULY			AUGUST			SEPTEMBER		
	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	8.1	6.8	7.4	7.3	6.6	---	8.2	7.1	7.5	8.7	7.8	---
2	8.1	7.0	7.4	6.6	6.5	6.5	8.4	7.3	7.6	7.6	7.0	7.3
3	8.2	7.0	7.6	6.5	6.4	6.5	8.6	7.0	7.8	8.5	6.9	7.6
4	8.4	7.1	7.7	6.7	6.5	6.6	8.6	7.1	7.9	8.6	7.0	7.8
5	8.7	7.2	8.0	7.0	6.6	6.8	8.8	7.1	8.1	8.6	6.9	7.8
6	8.5	7.3	7.8	---	---	---	8.9	7.4	8.2	8.7	7.0	7.9
7	8.9	7.1	8.1	---	---	---	8.3	7.0	7.6	8.8	7.1	8.0
8	8.8	7.6	8.3	---	---	---	7.2	6.8	6.9	9.4	7.1	8.3
9	8.8	7.3	8.1	---	---	---	6.8	6.6	6.8	9.5	7.9	8.7
10	8.6	7.3	7.9	---	---	---	6.8	6.6	---	8.5	7.7	8.4
11	8.9	7.0	8.0	---	---	---	6.8	6.6	6.7	9.0	7.4	8.2
12	---	---	---	---	---	---	6.7	6.6	6.6	9.0	7.6	8.2
13	---	---	---	---	---	---	6.7	6.6	---	9.1	7.6	8.3
14	---	---	---	8.0	7.1	---	---	---	---	---	---	---
15	---	---	---	8.1	6.9	7.4	---	---	---	---	---	---
16	---	---	---	7.9	7.0	7.3	---	---	---	8.8	8.3	---
17	8.1	7.5	---	8.3	6.9	7.6	---	---	---	8.5	7.6	8.1
18	8.1	7.0	---	8.2	7.0	7.6	---	---	---	8.1	7.6	7.8
19	---	---	---	8.3	7.0	7.6	---	---	---	8.4	7.5	7.9
20	---	---	---	8.5	7.1	7.8	---	---	---	8.8	7.5	8.0
21	---	---	---	8.2	7.2	7.8	---	---	---	8.1	7.5	7.8
22	---	---	---	7.5	7.1	---	---	---	---	8.7	7.7	8.2
23	6.8	6.6	6.7	---	---	---	---	---	---	9.2	7.7	8.3
24	6.8	6.5	6.7	---	---	---	8.8	8.2	---	9.2	7.8	8.4
25	7.1	6.6	6.8	---	---	---	8.9	7.6	8.3	9.1	7.9	8.3
26	7.1	6.5	6.8	---	---	---	---	---	---	---	---	---
27	---	---	---	8.7	8.0	---	8.9	7.6	---	8.4	7.9	8.2
28	---	---	---	9.0	7.3	8.3	---	---	---	8.5	7.7	8.1
29	---	---	---	8.7	7.4	7.9	---	---	---	8.2	7.8	8.0
30	---	---	---	8.8	7.0	7.8	---	---	---	7.9	7.6	7.7
31	---	---	---	8.6	7.1	7.8	---	---	---	7.7	7.6	7.6
MONTH	---	---	---	---	---	---	---	---	---	9.5	6.9	8.0

DELAWARE RIVER BASIN

01463500 DELAWARE RIVER AT TRENTON, NJ--Continued

TEMPERATURE (°C) OF WATER, 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				11.0	10.5	10.5	8.0	7.0	7.5	3.0	2.5	2.5
2				11.0	10.5	11.0	7.5	7.0	7.0	2.5	2.0	2.0
3				12.0	11.0	11.5	7.0	6.0	6.5	2.5	2.0	2.0
4				13.0	12.0	12.5	6.0	5.5	6.0	2.5	1.0	1.5
5				14.0	12.5	13.5	6.0	5.0	5.5	1.0	0.5	0.5
6				14.0	13.0	13.5	5.5	5.0	5.5	0.5	0.5	0.5
7				14.0	13.0	13.5	5.5	4.5	5.0	1.0	0.5	0.5
8				15.0	13.5	14.5	4.5	4.0	4.0	1.5	1.0	1.0
9				15.5	15.0	15.0	4.5	4.0	4.0	1.0	0.0	0.5
10				16.0	15.5	15.5	5.5	4.5	5.0	---	---	---
11				15.0	14.0	14.5	4.5	4.0	4.5	---	---	---
12				15.5	13.0	14.0	5.0	4.5	4.5	---	---	---
13				12.5	11.0	12.0	5.0	4.5	5.0	---	---	---
14				13.0	10.5	11.5	5.5	5.0	5.5	3.0	2.5	2.5
15				13.0	12.0	12.5	6.0	5.0	5.5	2.5	1.5	2.0
16				12.0	10.5	11.5	7.5	5.5	6.5	1.5	1.0	1.0
17				12.0	9.0	10.0	7.0	6.0	6.5	1.5	0.0	1.0
18				12.0	10.0	11.0	6.0	4.0	5.0	0.5	0.0	0.0
19				11.0	9.5	10.5	4.0	2.5	3.0	0.0	0.0	0.0
20				11.5	9.5	10.5	2.5	2.0	2.5	0.0	0.0	0.0
21				10.5	9.5	10.0	2.5	1.5	2.0	0.0	0.0	0.0
22				10.0	9.5	10.0	1.5	0.5	1.5	0.5	0.0	0.0
23				9.5	8.5	8.5	2.0	0.5	1.0	0.5	0.0	0.0
24				8.5	7.5	8.0	1.0	0.5	1.0	0.5	0.0	0.0
25				7.5	7.0	7.5	1.0	0.5	0.5	0.5	0.0	0.0
26				7.0	6.5	7.0	2.0	0.5	1.5	0.5	0.0	0.5
27				7.0	6.5	7.0	2.5	2.0	2.0	2.5	0.0	1.5
28				7.0	6.5	7.0	3.0	2.0	2.5	2.0	0.0	1.0
29				7.0	6.5	7.0	2.0	1.5	2.0	1.0	0.5	1.0
30				7.5	6.5	7.0	2.0	1.5	1.5	1.5	1.0	1.5
31				---	---	---	2.5	1.5	2.0	1.5	1.0	1.5
MONTH				16.0	6.5	11.0	8.0	0.5	4.0	3.0	0.0	1.0
DAY	FEBRUARY			MARCH			APRIL			MAY		
	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	2.0	1.5	1.5	7.5	6.5	7.0	---	---	---	13.0	12.0	12.0
2	2.0	1.0	1.5	7.5	6.5	7.0	---	---	---	13.5	11.5	13.0
3	1.0	0.0	0.5	6.5	6.0	6.0	---	---	---	13.5	12.5	13.0
4	0.5	0.0	0.5	6.5	6.0	6.0	8.0	7.5	8.0	13.5	12.5	13.0
5	1.0	0.5	1.0	7.5	6.0	7.0	8.0	7.0	7.5	14.0	12.0	13.0
6	1.0	0.5	0.5	7.5	6.5	7.0	9.0	7.5	8.0	15.0	13.0	14.0
7	1.0	0.0	0.5	7.5	6.5	7.0	10.0	8.0	8.5	16.5	14.5	15.5
8	2.0	0.5	1.0	7.0	6.0	6.5	10.0	9.0	9.5	16.0	14.5	15.0
9	2.0	1.0	1.5	6.5	4.0	5.0	10.5	9.0	9.5	16.5	14.5	15.5
10	2.0	1.0	2.0	4.5	3.5	4.0	11.0	9.0	10.0	17.5	15.0	16.5
11	2.5	2.0	2.5	5.0	3.5	4.5	11.0	9.5	10.5	17.5	16.0	17.0
12	3.5	2.0	3.0	4.5	4.0	4.5	10.0	8.0	9.0	19.0	16.0	17.0
13	3.5	3.0	3.0	5.5	4.5	5.0	11.0	8.5	10.0	18.0	16.0	17.0
14	4.5	3.5	4.0	6.0	4.5	5.5	12.0	10.0	11.0	18.5	17.0	17.5
15	4.0	3.0	3.5	6.0	5.0	5.5	12.5	11.0	12.0	19.5	17.5	18.5
16	5.0	3.5	4.5	6.0	5.5	5.5	14.0	12.0	13.0	19.0	18.5	18.5
17	6.0	5.0	5.5	5.0	4.0	4.5	17.0	13.5	15.0	19.5	18.0	18.5
18	6.0	5.0	5.5	4.0	3.0	---	19.0	16.0	17.5	21.0	18.5	19.5
19	5.0	4.0	4.5	---	---	---	21.0	17.5	19.0	18.5	16.0	16.5
20	4.5	4.0	4.5	---	---	---	22.5	20.0	21.5	17.0	14.5	16.0
21	4.5	4.0	4.0	---	---	---	23.5	21.5	22.5	17.0	15.5	16.5
22	5.0	4.5	5.0	---	---	---	22.5	21.0	22.0	17.0	15.5	16.5
23	5.0	4.5	4.5	---	---	---	21.5	19.5	20.5	17.0	15.5	16.5
24	4.0	3.5	3.5	---	---	---	20.0	18.5	19.0	16.5	15.5	16.0
25	4.0	3.0	3.5	9.0	8.5	---	18.5	15.5	17.0	16.5	15.5	16.0
26	5.5	4.0	4.5	---	---	---	15.5	12.0	14.0	15.5	14.5	15.0
27	7.0	5.0	6.0	---	---	---	12.5	11.5	12.0	17.0	14.0	15.5
28	7.0	6.0	7.0	---	---	---	13.0	11.5	12.0	18.0	15.5	16.5
29	7.5	6.5	7.0	---	---	---	12.5	11.0	12.0	18.0	17.5	17.5
30	---	---	---	---	---	---	13.5	11.5	12.5	18.0	17.5	18.0
31	---	---	---	---	---	---	---	---	---	20.0	18.0	19.0
MONTH	7.5	0.0	3.5	---	---	---	23.5	7.0	13.5	21.0	11.5	16.0

DELAWARE RIVER BASIN

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01463500 DELAWARE RIVER AT TRENTON, NJ--Continued

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

DAY	JUNE			JULY			AUGUST			SEPTEMBER		
	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	22.0	19.5	20.5	26.5	26.0	---	26.5	24.5	25.5	24.0	23.0	---
2	20.5	19.0	20.0	25.5	23.5	24.0	25.5	22.5	24.0	22.5	21.5	22.0
3	21.5	18.5	19.5	23.5	22.0	23.0	26.0	22.5	24.0	24.0	20.5	22.0
4	21.5	19.5	20.0	23.5	22.0	22.5	26.5	23.0	24.5	23.5	20.5	22.0
5	22.5	19.5	20.5	24.5	21.5	23.0	26.5	23.5	25.0	24.0	21.0	22.0
6	20.5	19.0	20.0	---	---	---	27.5	23.5	25.0	23.5	20.0	21.5
7	23.0	18.0	20.5	---	---	---	26.0	24.0	25.0	23.5	19.0	21.0
8	23.0	20.5	22.0	---	---	---	24.5	23.5	24.0	23.0	20.0	22.0
9	24.0	21.0	22.5	---	---	---	23.5	22.5	23.0	25.0	20.5	22.5
10	24.5	22.5	23.5	---	---	---	23.0	22.5	---	25.0	22.0	23.5
11	26.5	23.5	25.0	---	---	---	23.0	21.5	22.5	23.5	20.5	22.0
12	26.0	24.5	25.0	---	---	---	23.5	21.5	23.0	25.0	20.5	22.5
13	25.0	23.0	23.5	---	---	---	24.5	23.0	23.5	26.5	21.5	24.0
14	23.0	22.0	22.5	23.5	22.5	---	---	---	---	---	---	---
15	24.5	22.0	23.0	24.5	22.0	23.5	---	---	---	---	---	---
16	26.0	23.5	25.0	24.0	23.0	23.5	---	---	---	22.5	22.0	---
17	26.0	24.5	---	26.0	23.0	24.0	---	---	---	24.0	21.5	22.5
18	26.5	24.0	25.5	25.0	23.0	24.0	---	---	---	24.0	22.5	23.0
19	27.5	24.5	25.5	26.0	23.0	24.5	---	---	---	24.0	21.5	23.0
20	24.5	25.0	26.5	26.5	24.0	25.5	---	---	---	24.0	22.0	23.0
21	26.0	25.0	25.5	26.0	24.5	25.5	---	---	---	22.0	21.0	21.5
22	26.0	25.0	25.5	25.5	24.5	---	---	---	---	21.0	19.0	19.5
23	25.5	24.5	25.0	---	---	---	---	---	---	20.5	17.0	18.5
24	26.0	24.5	25.0	---	---	---	28.5	27.0	---	20.5	18.5	19.0
25	26.5	25.0	26.0	---	---	---	29.0	25.5	27.0	20.0	19.0	---
26	27.5	25.5	26.5	---	---	---	27.0	26.0	---	---	---	---
27	---	---	---	26.0	24.5	---	---	---	---	19.5	18.0	18.5
28	---	---	---	28.0	23.5	25.5	---	---	---	19.5	18.0	19.0
29	---	---	---	26.0	24.5	25.0	---	---	---	18.5	17.0	17.5
30	---	---	---	27.5	24.0	25.5	---	---	---	17.5	15.5	16.5
31	---	---	---	27.0	24.5	26.0	---	---	---	---	---	---
MONTH	28.5	18.0	23.5	---	---	---	---	---	---	26.5	15.5	21.0

DISSOLVED OXYGEN (DO), MG/L, 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				11.9	11.2	11.6	13.6	12.9	13.4	12.9	12.6	12.7
2				12.0	11.4	11.6	13.7	12.4	13.0	13.6	12.7	13.1
3				12.3	10.9	11.6	13.6	12.0	12.8	13.3	12.5	13.0
4				12.5	11.4	11.4	13.5	12.5	13.0	13.5	12.6	13.1
5				12.4	11.0	11.5	13.6	12.2	12.9	14.4	13.2	13.7
6				11.9	10.5	11.1	13.3	12.5	12.9	14.2	13.5	13.9
7				12.3	10.1	10.7	13.4	12.4	12.8	14.4	13.6	14.0
8				12.2	10.5	11.8	13.4	12.6	12.9	13.5	12.9	13.1
9				11.9	11.2	11.6	13.5	12.8	13.0	14.1	12.7	13.5
10				11.7	11.0	11.4	13.6	12.5	12.9	---	---	---
11				11.1	10.2	10.5	13.4	12.4	12.8	---	---	---
12				11.6	9.3	10.3	14.2	13.2	13.6	---	---	---
13				10.7	9.8	10.0	13.5	12.9	13.1	---	---	---
14				10.6	9.0	10.1	14.1	12.5	13.1	13.3	12.6	12.9
15				10.4	9.1	10.0	14.1	12.3	13.0	13.5	12.9	13.2
16				10.7	9.6	10.2	14.1	12.0	13.4	13.9	13.4	13.7
17				10.9	10.3	10.6	13.8	12.1	13.0	14.8	13.6	14.2
18				11.8	10.5	11.1	13.3	11.9	12.3	15.3	14.6	15.0
19				12.2	11.4	11.9	13.3	11.7	12.4	15.8	15.1	15.3
20				12.8	12.0	12.4	13.6	12.2	12.7	15.7	13.2	14.7
21				12.8	11.8	12.3	13.7	12.4	12.9	14.8	13.2	13.9
22				11.8	11.2	11.5	14.1	12.6	13.0	14.3	13.2	13.8
23				12.0	11.2	11.6	14.4	12.4	13.2	14.5	13.8	14.2
24				12.0	11.2	11.7	14.8	12.7	13.5	14.2	13.9	14.1
25				11.8	10.7	11.1	14.7	13.1	13.9	14.2	14.0	14.1
26				14.6	11.7	13.7	13.6	12.4	13.0	14.0	13.1	13.5
27				14.3	13.9	14.1	12.7	12.2	12.5	12.9	11.8	12.5
28				14.5	13.6	14.0	13.0	12.1	12.6	13.0	11.6	12.4
29				14.5	13.7	14.1	13.7	12.8	13.2	13.6	11.4	13.1
30				14.3	13.6	14.0	13.7	13.2	13.4	13.8	13.7	13.7
31				---	---	---	13.1	12.4	12.6	13.9	13.7	13.9
MONTH				14.6	9.0	11.7	14.8	11.7	13.0	15.8	11.4	13.6

DELAWARE RIVER BASIN

01463500 DELAWARE RIVER AT TRENTON, NJ--Continued

DISSOLVED OXYGEN (DO), MG/L, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

DAY	FEBRUARY			MARCH			APRIL			MAY		
	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	14.1	13.7	14.0	13.0	12.5	12.7	11.0	10.1	10.6	---	---	---
2	13.9	13.6	13.8	12.7	12.3	12.4	10.7	9.6	10.1	---	---	---
3	14.5	14.0	14.3	12.7	12.2	12.5	11.5	10.6	11.1	11.0	10.7	---
4	14.8	13.7	14.6	13.2	12.4	12.9	11.9	11.6	11.8	11.6	10.6	11.1
5	14.8	14.4	14.7	13.2	12.2	12.8	12.9	11.9	12.4	12.1	10.9	11.5
6	14.9	14.7	14.8	12.3	11.8	12.1	13.1	12.1	12.6	11.9	10.8	11.3
7	15.0	14.4	14.8	12.5	11.6	12.0	13.0	11.9	12.4	10.7	9.5	10.2
8	14.9	14.6	14.8	12.9	12.3	12.6	12.8	11.5	12.1	11.2	9.5	10.4
9	15.0	14.7	14.9	13.0	12.5	12.7	13.0	11.4	12.1	11.6	10.0	10.7
10	15.3	14.9	15.1	13.5	12.7	13.0	13.4	11.4	12.3	11.8	10.0	10.8
11	15.2	14.8	15.0	13.3	12.8	13.1	12.8	11.2	12.1	11.7	9.8	10.6
12	15.2	14.0	14.5	13.5	12.8	13.1	14.0	11.3	12.6	11.6	9.5	10.4
13	14.6	13.9	14.2	12.9	12.5	12.7	14.2	11.8	---	11.3	9.7	10.4
14	14.2	13.7	13.9	13.1	12.2	12.6	---	---	---	10.8	9.3	9.9
15	14.2	13.9	14.1	13.7	12.5	13.0	---	---	---	11.4	8.9	10.0
16	14.3	13.8	14.1	12.8	11.8	12.3	---	---	---	9.9	8.7	9.2
17	13.9	13.5	13.7	12.5	11.4	12.0	---	---	---	10.3	8.3	9.3
18	13.5	12.5	13.3	13.6	12.0	---	---	---	---	10.1	8.0	8.8
19	13.5	11.8	12.3	---	---	---	---	---	---	---	---	---
20	13.6	12.7	13.2	---	---	---	---	---	---	---	---	---
21	13.4	12.9	13.1	---	---	---	---	---	---	---	---	---
22	13.2	12.7	12.9	---	---	---	---	---	---	---	---	---
23	13.3	13.0	13.1	---	---	---	---	---	---	---	---	---
24	13.3	12.6	12.8	---	---	---	---	---	---	---	---	---
25	13.0	12.5	12.7	13.5	12.0	---	---	---	---	---	---	---
26	13.2	12.0	12.6	14.1	11.3	12.5	---	---	---	10.6	10.1	---
27	13.5	12.6	12.8	13.4	11.1	12.1	---	---	---	11.1	10.1	10.6
28	12.8	12.2	12.6	14.3	10.5	12.2	---	---	---	11.5	10.1	10.8
29	13.0	12.3	12.6	14.3	11.1	12.5	---	---	---	11.1	9.8	10.5
30	---	---	---	13.7	10.7	12.1	---	---	---	10.7	9.6	10.1
31	---	---	---	12.2	10.6	11.3	---	---	---	11.3	9.3	10.3
MONTH	15.3	11.8	13.8	14.3	10.5	---	---	---	---	---	---	---
DAY	JUNE			JULY			AUGUST			SEPTEMBER		
	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	11.9	9.3	10.4	10.3	8.6	---	---	---	---	11.7	10.5	---
2	11.6	9.4	10.3	9.1	8.4	8.7	11.2	7.1	7.4	10.2	8.7	9.4
3	12.4	9.8	11.0	9.5	8.9	9.2	11.6	7.8	9.6	13.0	8.4	10.6
4	13.0	9.9	11.3	9.7	9.1	9.3	11.5	7.7	9.5	13.0	8.5	10.5
5	14.1	10.3	12.0	10.1	9.0	9.5	11.7	7.4	9.5	13.4	7.9	10.3
6	13.5	10.3	11.6	---	---	---	11.6	7.3	9.2	13.9	8.3	10.8
7	15.7	10.7	13.2	---	---	---	11.2	8.4	9.6	14.8	8.2	11.0
8	14.7	10.7	12.6	---	---	---	9.4	7.6	8.4	15.4	8.1	10.9
9	13.2	9.8	11.4	---	---	---	7.5	6.5	7.2	15.9	8.6	11.4
10	11.7	8.2	10.0	---	---	---	10.9	8.3	---	10.1	7.6	9.0
11	---	---	---	---	---	---	---	---	---	12.1	7.1	9.3
12	---	---	---	---	---	---	---	---	---	12.3	7.8	9.7
13	---	---	---	---	---	---	---	---	---	12.0	7.4	9.0
14	---	---	---	10.6	9.1	---	---	---	---	---	---	---
15	---	---	---	10.8	8.8	9.7	---	---	---	---	---	---
16	---	---	---	10.4	8.9	9.5	---	---	---	9.7	7.6	---
17	10.9	8.9	---	11.6	8.8	10.2	---	---	---	10.1	6.7	8.2
18	10.7	8.0	---	11.6	9.3	10.5	---	---	---	9.4	7.1	7.9
19	---	---	---	11.6	9.3	10.5	---	---	---	8.9	6.8	7.7
20	---	---	---	11.9	8.7	10.2	---	---	---	10.4	7.6	8.8
21	---	---	---	10.6	8.1	9.6	---	---	---	9.1	7.5	8.4
22	---	---	---	---	---	---	---	---	---	11.4	7.9	9.1
23	7.7	6.9	7.4	---	---	---	---	---	---	12.7	9.9	10.4
24	7.2	6.1	6.7	---	---	---	---	---	---	10.9	6.3	8.0
25	7.6	5.5	6.3	---	---	---	---	---	---	8.9	6.8	7.4
26	7.1	5.8	6.4	---	---	---	---	---	---	8.8	7.3	7.8
27	---	---	---	---	---	---	---	---	---	9.3	7.7	8.4
28	---	---	---	---	---	---	---	---	---	8.7	7.7	8.2
29	---	---	---	---	---	---	---	---	---	9.1	8.5	8.9
30	---	---	---	---	---	---	---	---	---	9.3	8.3	8.6
31	---	---	---	---	---	---	---	---	---	---	---	---
MONTH	---	---	---	---	---	---	---	---	---	15.9	6.3	9.2

01463500 DELAWARE RIVER AT TRENTON, NJ--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	18100	20	977	11200	10	302	13800	1	37
2	15100	17	693	10600	11	315	13300	2	72
3	13100	13	460	10000	10	270	14100	4	152
4	12000	10	324	9520	10	257	13500	1	36
5	11300	9	275	9960	9	242	12700	1	34
6	9660	7	183	9660	8	209	11400	1	31
7	8700	6	141	9320	9	226	10400	1	28
8	8940	6	145	9230	9	224	9800	1	26
9	8160	7	154	9910	8	214	9650	1	26
10	7790	6	126	9420	9	229	10300	4	111
11	7580	6	123	11900	10	321	10500	7	198
12	8890	8	192	13800	17	633	10700	4	116
13	9910	10	268	26200	48	3400	10000	2	54
14	10300	12	334	34000	46	4220	10000	3	81
15	9910	12	321	33700	26	2370	9420	1	25
16	9470	12	307	28500	13	1000	8620	1	23
17	9130	11	271	23600	7	446	9370	2	51
18	12300	21	697	20700	4	224	9080	2	49
19	33000	58	5170	19300	5	261	8750	3	71
20	54200	118	18500	17400	4	188	8280	3	67
21	55800	70	10500	17200	3	139	7300	2	39
22	40900	60	6630	19400	2	105	6540	1	18
23	31900	38	3270	21200	3	172	6180	2	33
24	26300	27	1920	19400	2	105	6660	3	54
25	22300	22	1320	16600	1	45	7140	3	58
26	19400	19	995	15800	1	43	9860	20	532
27	16700	16	721	15000	1	40	14300	15	579
28	14800	15	599	15300	1	41	13900	11	413
29	13800	14	522	15300	2	83	13500	9	328
30	12700	12	411	15200	2	82	12200	6	198
31	11900	11	353	---	---	---	13400	6	217
TOTAL	548040	---	56902	498320	---	16406	324650	---	3757
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	19200	11	570	35700	47	4530	22900	6	371
2	15000	7	283	43300	35	4090	20700	5	279
3	12500	5	169	33400	29	2620	19400	4	210
4	13000	3	105	29400	16	1270	18600	3	151
5	11300	3	92	25000	11	742	18600	2	100
6	9130	1	25	21700	9	527	20700	1	56
7	8800	3	71	18600	5	251	23700	2	128
8	10000	2	54	16300	3	132	21700	2	117
9	9860	1	27	14800	2	80	19200	1	52
10	8580	2	46	13600	1	37	17500	1	47
11	8280	1	22	13600	2	73	15900	1	43
12	7790	1	21	15000	3	121	15200	1	41
13	7260	2	39	14000	2	76	17600	3	143
14	13000	4	140	13900	1	38	18400	6	298
15	14300	4	154	13100	1	35	17400	5	235
16	11100	2	60	12000	1	32	15600	3	126
17	10300	2	56	15900	3	129	16000	3	130
18	9500	1	26	29400	17	1350	14400	2	78
19	7000	1	19	40100	35	3790	13000	2	70
20	6200	2	44	41900	27	3050	12500	1	34
21	8000	2	43	44100	33	3930	12700	1	34
22	8600	1	23	39100	28	2960	12500	2	67
23	7800	1	21	42800	30	3470	14200	5	192
24	7000	2	38	47300	38	4850	15900	13	558
25	8000	1	22	35400	20	1970	14800	11	440
26	9000	2	49	30100	13	1060	13700	9	333
27	59900	250	40400	26800	10	724	13000	8	281
28	99600	370	99500	25400	9	617	12100	5	163
29	85300	190	43800	25400	7	480	13000	7	246
30	60500	130	21200	---	---	---	15000	15	607
31	45200	80	9760	---	---	---	14000	9	340
TOTAL	613000	---	216879	778100	---	43034	509900	---	5970

DELAWARE RIVER BASIN

01463500 DELAWARE RIVER AT TRENTON, NJ--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	19200	11	570	11600	12	376	8160	6	132
2	32600	17	1500	16600	30	1340	8370	8	181
3	36000	24	2330	19400	40	2100	8990	7	170
4	29000	19	1490	18500	22	1100	8330	6	135
5	24500	15	992	16200	18	787	7660	6	124
6	21200	12	687	14700	16	635	6940	6	112
7	18000	9	437	13800	13	484	6300	8	136
8	15900	5	215	12700	9	309	6740	10	182
9	14300	3	116	11500	7	217	7620	10	206
10	13000	3	105	10500	9	255	7580	9	184
11	12100	2	65	9850	8	213	6780	9	165
12	11200	2	60	9710	8	210	6340	8	137
13	10600	2	57	11500	10	310	6140	8	133
14	10100	2	55	11000	15	445	5020	11	149
15	9320	2	50	10100	9	245	4540	8	98
16	9080	2	49	9420	7	178	4780	6	77
17	8410	2	45	8800	6	143	6060	10	164
18	8200	3	66	9960	6	161	6700	8	145
19	8040	4	87	12300	10	332	5900	7	112
20	7830	4	85	13300	12	431	5300	5	72
21	7620	5	103	14100	11	419	5700	6	92
22	7100	6	115	15800	13	590	9470	38	972
23	6820	7	129	17200	12	557	12800	50	1730
24	6660	6	108	15600	10	421	11500	32	994
25	6380	7	121	14100	8	305	10000	25	675
26	6500	6	105	13000	7	246	9520	19	488
27	7990	14	302	11900	7	225	8660	12	281
28	11200	19	575	10900	8	235	7500	7	142
29	12000	14	454	9810	9	238	7300	5	99
30	11600	14	438	9230	8	199	7990	6	129
31	---	---	---	8530	8	184	---	---	---
TOTAL	402450	---	11511	392620	---	13890	224690	---	8416

JULY				AUGUST			SEPTEMBER		
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	11000	47	1400	7830	4	85	5500	2	30
2	17500	55	2600	7020	3	57	4860	1	13
3	18600	41	2060	5780	4	62	4740	2	26
4	14600	33	1300	5900	5	80	4700	2	25
5	12400	26	870	5380	3	44	4500	2	24
6	11000	20	594	4980	4	54	3980	3	32
7	10000	17	459	4940	3	40	3420	2	18
8	10300	15	417	6020	6	98	3450	3	28
9	9370	13	329	9710	37	970	3280	2	18
10	9420	11	280	12900	49	1710	3600	2	19
11	8580	10	232	19100	58	2990	3720	1	10
12	8200	11	244	17900	38	1840	4100	2	22
13	7340	10	198	13600	30	1100	3980	1	11
14	7910	8	171	11100	25	749	3760	1	10
15	7830	8	169	9660	19	496	3720	1	10
16	7180	7	136	9710	18	472	3910	2	21
17	7140	7	135	9230	25	623	5340	9	130
18	7580	6	123	8990	10	243	6420	7	121
19	8240	7	156	7990	10	216	6300	9	153
20	7710	6	125	7500	8	162	5580	5	75
21	7420	6	120	6900	6	112	5260	7	99
22	7100	6	115	6420	4	69	5260	5	71
23	6780	6	110	5380	2	29	4580	4	49
24	6460	6	105	4500	1	12	4100	3	33
25	6380	5	86	4660	2	25	3950	3	32
26	5900	4	64	4500	3	36	4060	4	44
27	4980	4	54	4620	4	50	4660	3	38
28	4700	4	51	5300	3	43	7060	12	229
29	4660	4	50	7620	7	144	8120	17	373
30	4860	4	52	7300	3	59	8080	15	327
31	5780	3	47	5780	2	31	---	---	---
TOTAL	266920	---	12852	248220	---	12701	143990	---	2091
YEAR	4950900		404409.0						

DELAWARE RIVER BASIN

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01464600 DELAWARE RIVER AT BRISTOL, PA.-BURLINGTON, N.J. BRIDGE

LOCATION.--Lat 40°04'55", long 74°51'58", Bucks County, Hydrologic Unit 02040201, at center of river 1,300 ft (396 m) upstream from bridge on a line from the Pennsylvania bank through channel station -79.2 to Lehigh range light on New Jersey bank.

DRAINAGE AREA.--7,163 mi² (18,508 km²).

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

REMARKS.--Samples collected approximately 5 to 15 ft (2 to 5 m) from bottom. Further information on this station is given in U.S. Geological Survey Water-Supply Paper 1809-0.

WATER QUALITY DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

DATE	TIME	SPECIFIC CONDUCTANCE (MICROMHOS)	TEMPERATURE (DEG C)	HARDNESS (CA+MG) (MG/L)	NON-CARBONATE HARDNESS (MG/L)	DIS-SOLVED CALCIUM (CA) (MG/L)	DIS-SOLVED MAGNESIUM (MG)	DIS-SOLVED SODIUM (NA) (MG/L)	DIS-SOLVED POTASSIUM (K) (MG/L)	BICARBONATE (HCO3) (MG/L)	ALKALINITY AS CaCO3 (MG/L)	DIS-SOLVED SULFATE (SO4) (MG/L)
OCT 02...	1315	132	16.5	54	24	15	4.1	4.7	1.5	37	30	18
JAN 20...	1415	197	1.0	68	32	18	5.5	11	1.9	44	36	24
FEB 05...	1330	124	.5	43	21	12	3.2	5.9	1.2	27	22	19
MAR 04...	1300	117	6.5	43	20	11	3.7	4.8	.8	28	23	16
APR 01...	1330	140	11.5	80	52	25	4.3	5.9	1.1	34	28	19
MAY 06...	1430	116	15.0	43	18	11	3.7	5.2	1.1	30	25	17
JUN 10...	1315	166	22.5	59	23	15	5.3	8.3	1.7	44	36	23
JUL 01...	1340	164	26.0	37	2	10	2.9	4.5	.9	43	35	25
AUG 13...	1325	122	23.0	57	26	17	3.5	5.8	1.4	38	31	18
SEP 02...	1420	196	25.5	75	36	20	6.0	9.8	1.8	47	39	27

DATE	DIS-SOLVED CHLORIDE (CL) (MG/L)	DIS-SOLVED FLUORIDE (F) (MG/L)	DIS-SOLVED SILICA (SI02) (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 NITRATE PLUS NITRITE (N) (MG/L)	DIS-SOLVED ORTHO. PHOSPHORUS (P) (MG/L)	DIS-SOLVED IRON (FE) (UG/L)	DIS-SOLVED MANGANESE (MN) (UG/L)
OCT 02...	8.4	.1	5.1	92	91	3.4	.12	3.5	.05	80	80
JAN 20...	17	.1	5.2	120	111	1.3	.03	1.3	.06	90	80
FEB 05...	10	.1	4.7	66	75	1.1	.01	1.1	.04	60	50
MAR 04...	7.6	.1	4.1	65	66	.88	.03	.91	.03	100	40
APR 01...	9.8	.1	2.8	82	93	1.7	.04	1.7	.04	50	70
MAY 06...	7.1	.1	3.2	66	66	.58	.04	.62	.03	100	50
JUN 10...	12	.1	1.2	102	93	.90	.08	.98	.04	60	20
JUL 01...	11	.1	2.3	152	81	.73	.03	.76	.04	90	10
AUG 13...	5.5	.1	4.3	81	78	.61	.05	.66	.04	100	30
SEP 02...	14	.2	1.1	144	108	.85	.15	1.0	.04	10	10

DELAWARE RIVER BASIN

01464743 NESHAMINY CREEK NEAR DOYLESTOWN, PA

LOCATION.--Lat 40°17'12", long 75°09'38", Bucks County, Hydrologic Unit 02040201, at the intersection of Almshouse and Lower State Roads in Castle Valley, 0.8 mi (1.3 km) downstream from Mill Creek, 2.3 mi (3.7 km) southwest of Doylestown.

DRAINAGE AREA.--not available.

PERIOD OF RECORD.--October 1975 to current year.

COOPERATION.--Water-quality data were furnished by the Pennsylvania Department of Environmental Resources.

WATER QUALITY DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

DATE	TIME	CODE FOR AGENCY COL- LECTING SAMPLE	SPE- CIFIC CON- DUCT- ANCE (MICRO- MHOS)	TEMPER- ATURE (DEG C)	TUR- BID- ITY (JTU)	CHEM- ICAL OXYGEN DEMAND (HIGH LEVEL) (MG/L)	FECAL COLI- FORM (EC BROTH) (MPN)	CON- FIRMED COLI- FORM (MPN)	HARD- NESS (CA, MG) (MG/L)
OCT									
16...	0915	9813	300	17.0	3	20	--	--	108
JAN									
13...	1340	9813	260	2.0	6	--	--	--	180
FEB									
24...	1000	9813	210	2.0	8	--	--	--	100
MAR									
03...	1330	9813	320	6.0	5	--	--	--	176
APR									
28...	1300	9813	450	--	3	--	1100	500	116
MAY									
11...	0900	9813	500	16.0	5	--	--	--	264
JUN									
24...	1230	9813	700	25.0	5	--	--	--	82
JUL									
28...	1130	9813	800	--	13	--	--	--	222
AUG									
17...	1200	9813	600	23.0	8	--	--	--	146

DATE	MINERAL ACIDITY (METHYL ORANGE) AS CACO3 (MG/L)	ACIDITY CO2 AS CACO3 (MG/L)	DIS- SOLVED CAL- CIUM (CA) (MG/L)	DIS- SOLVED MAG- NE- SIUM (MG) (MG/L)	ALKA- LINITY AS CACO3 (MG/L)	DIS- SOLVED SULFATE (SO4) (MG/L)	DIS- SOLVED CHLO- RIDE (CL) (MG/L)	TOTAL FLUO- RIDE (F) (MG/L)	TOTAL FILT- RABLE RESIDUE (MG/L)
OCT									
16...	0	0	30	8.0	92	58	47	--	270
JAN									
13...	0	0	24	29	28	42	50	--	262
FEB									
24...	0	0	21	11	52	34	26	.1	188
MAR									
03...	0	0	24	28	64	50	36	.1	220
APR									
28...	0	0	26	12	90	46	47	.2	238
MAY									
11...	0	0	31	46	100	40	56	.1	278
JUN									
24...	--	0	32	.5	116	56	78	.2	408
JUL									
28...	0	--	46	26	116	78	133	.2	508
AUG									
17...	0	0	35	14	102	42	78	.2	372

DATE	TOTAL NON- FILT- RABLE RESIDUE (MG/L)	TOTAL NITRATE (N) (MG/L)	TOTAL NITRITE (N) (MG/L)	TOTAL AMMONIA NITRO- GEN (N) (MG/L)	TOTAL PHOS- PHORUS (P) (MG/L)	TOTAL IRON (FE) (UG/L)	TOTAL ORGANIC CARBON (C) (MG/L)	METHY- LENE BLUE ACTIVE SUB- STANCE (MG/L)
OCT								
16...	--	4.4	.36	.65	1.4	150	7.0	.00
JAN								
13...	2	3.7	.10	.88	.79	230	--	.00
FEB								
24...	16	2.5	.07	.55	.35	310	--	.00
MAR								
03...	16	2.6	.46	1.6	.88	200	--	.05
APR								
28...	14	2.8	.33	3.2	1.3	2440	--	.00
MAY								
11...	14	2.6	.46	4.6	2.3	400	--	.07
JUN								
24...	6	.68	.42	1.4	2.5	530	--	.00
JUL								
28...	14	6.8	.70	2.6	2.9	750	--	.00
AUG								
17...	8	5.2	.41	1.4	.17	630	--	.00

01464985 LITTLE NESHAMINY CREEK AT JACKSONVILLE, PA

LOCATION.--Lat 40°14'24", long 75°03'15", Bucks County, Hydrologic Unit 02040201, 45 ft (14 m) upstream of bridge on Walton Road, 0.67 mi (1.0 km) south of Jacksonville, 2.3 mi (3.6 km) upstream from Neshaminy Creek.

DRAINAGE AREA.--not available.

PERIOD OF RECORD.--October 1975 to current year.

COOPERATION.--Water-quality data were furnished by the Pennsylvania Department of Environmental Resources.

WATER QUALITY DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

DATE	TIME	CODE FOR AGENCY COL- LECTING SAMPLE	SPE- CIFIC CON- DUCT- ANCE (MICRO- MHOS)	TEMPER- ATURE (DEG C)	TUR- BID- ITY (JTU)	CHEM- ICAL OXYGEN DEMAND (HIGH LEVEL) (MG/L)	CON- FIRMED COLI- FORM (MPN)	FECAL COLI- FORM (EC BROTH) (MPN)	HARD- NESS (CA,MG) (MG/L)
OCT									
16...	0915	9813	300	17.0	3	20	--	--	108
JAN									
13...	1340	9813	260	2.0	6	--	--	--	180
FEB									
24...	1000	9813	210	2.0	8	--	--	--	100
MAR									
03...	1330	9813	320	6.0	5	--	--	--	176
APR									
28...	1300	9813	450	--	3	--	500	1100	116
MAY									
11...	0900	9813	500	16.0	5	--	--	--	264
JUN									
24...	1230	9813	700	25.0	5	--	--	--	82
JUL									
28...	1130	9813	800	--	13	--	--	--	222
AUG									
17...	1200	9813	600	23.0	8	--	--	--	146

DATE	MINERAL ACIDITY (METHYL ORANGE) AS CAC03 (MG/L)	ACIDITY CO2 AS CAC03 (MG/L)	DIS- SOLVED CAL- CIUM (CA) (MG/L)	DIS- SOLVED MAG- NE- SIUM (MG) (MG/L)	ALKA- LINITY AS CAC03 (MG/L)	DIS- SOLVED SULFATE (SO4) (MG/L)	DIS- SOLVED CHLO- RIDE (CL) (MG/L)	TOTAL FLUO- RIDE (F) (MG/L)	TOTAL FILT- RABLE RESIDUE (MG/L)
OCT									
16...	0	0	30	8.0	92	58	47	--	270
JAN									
13...	0	0	24	29	28	42	50	--	262
FEB									
24...	0	0	21	11	52	34	26	.1	188
MAR									
03...	0	0	24	28	64	50	36	.1	220
APR									
28...	0	0	26	12	90	46	47	.2	238
MAY									
11...	0	0	31	46	100	40	56	.1	278
JUN									
24...	--	0	32	.5	116	56	78	.2	408
JUL									
28...	0	--	46	26	116	78	133	.2	508
AUG									
17...	0	0	35	14	102	42	78	.2	372

DATE	TOTAL NON- FILT- RABLE RESIDUE (MG/L)	TOTAL NITRATE (N) (MG/L)	TOTAL NITRITE (N) (MG/L)	TOTAL AMMONIA NITRO- GEN (N) (MG/L)	TOTAL PHOS- PHORUS (P) (MG/L)	TOTAL IRON (FE) (UG/L)	TOTAL ORGANIC CARBON (C) (MG/L)	METHY- LENE BLUE ACTIVE SUR- STANCE (MG/L)
OCT								
16...	--	4.4	.36	.65	1.4	150	7.0	.00
JAN								
13...	2	3.7	.10	.88	.79	230	--	.00
FEB								
24...	16	2.5	.07	.55	.35	310	--	.00
MAR								
03...	16	2.6	.46	1.6	.88	200	--	.05
APR								
28...	14	2.8	.33	3.2	1.3	2440	--	.00
MAY								
11...	14	2.6	.46	4.6	2.3	400	--	.07
JUN								
24...	6	.68	.42	1.4	2.5	530	--	.00
JUL								
28...	14	6.8	.70	2.6	2.9	750	--	.00
AUG								
17...	8	5.2	.41	1.4	.17	630	--	.00

01465500 NESHAMINY CREEK NEAR LANGHORNE, PA

LOCATION.--Lat 40°10'26", long 74°57'26", Bucks County, Hydrologic Unit 02040201, on left bank at bridge on State Highway 213, 0.3 mi (0.5 km) downstream from Mill Creek, and 1.7 mi (2.7 km) west of Langhorne.

DRAINAGE AREA.--210 mi² (544 km²).

WATER-DISCHARGE RECORDS

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

REVISED RECORDS.--WSP 1332: 1949. WSP 1432: 1936-37.

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

REMARKS.--Records good. Some regulation at low flow by mills above station. Flow regulated by upstream reservoirs on Little Neshaminy Creek, Robin Run, Pine Run, North Branch Neshaminy Creek, and Core Creek (combined flood control capacity, about 9,560 acre-ft (11.8 hm³). Occasional regulation by Springfield Lake, capacity, 650 mil gal (2.460 hm³), completed in 1934; no significant regulation except during period May 1934 to January 1944, when the lake was filling, and in September 1949, July 1954, July through October 1957, September, October 1961. Interceptor sewer installed along left bank in May, June 1966.

AVERAGE DISCHARGE.--42 years, 285 ft³/s (8.07 m³/s), 18.40 in/yr (467 mm/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 49,300 ft³/s (1,400 m³/s) Aug. 19, 1955, gage height, 22.84 ft (6.962 m), from floodmarks, from rating curve extended above 4,700 ft³/s (133 m³/s) on basis of contracted-opening measurement at gage height 15.94 ft (4.859 m), and slope-area measurement of peak flow; minimum, 1.9 ft³/s (0.054 m³/s) Sept. 8, 1957; minimum gage height, 0.35 ft (0.107 m) Sept. 1, 2, 1963.

EXTREMES OUTSIDE OF PERIOD OF RECORD.--Flood of Aug. 23, 1933, reached a stage of 17.3 ft (5.27 m), from floodmark, discharge, 30,000 ft³/s (850 m³/s), from rating curve extended as explained above.

EXTREMES FOR CURRENT YEAR.--Peak discharges above base of 3,600 ft³/s (102 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	1900	3,790 107	6.44 1.963	Jan. 28	0330	*6,860 194	*8.83 2.691
Jan. 1	1030	5,310 150	7.69 2.344				

Minimum discharge, 11 ft³/s (0.31 m³/s) Sept. 8, gage height, 0.63 ft (0.192 m); minimum daily, 13 ft³/s (0.37 m³/s) 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	273	138	179	3130	417	280	726	218	102	119	39	28
2	248	138	179	900	1310	231	505	575	189	88	28	26
3	214	136	170	732	585	227	430	231	167	55	24	27
4	195	130	156	888	405	238	421	161	102	55	23	26
5	179	128	147	405	381	266	329	133	82	82	22	25
6	167	122	144	333	322	461	241	114	75	50	22	23
7	161	119	138	322	269	357	221	161	69	71	37	22
8	144	144	130	870	273	241	208	147	67	53	80	13
9	150	138	136	510	255	231	198	114	65	47	112	14
10	156	136	156	350	238	248	189	100	64	39	353	26
11	161	167	147	300	409	310	238	107	60	37	227	33
12	192	291	130	269	555	466	214	189	55	37	141	31
13	150	2140	122	252	425	1130	141	133	48	41	53	30
14	130	750	119	1280	345	680	150	104	48	38	97	28
15	130	413	119	540	273	495	144	97	48	34	141	28
16	122	326	128	377	269	369	138	95	48	32	80	44
17	114	273	125	269	550	500	136	92	234	32	53	97
18	505	241	119	204	695	302	128	102	164	30	42	84
19	1300	224	97	203	1030	302	122	295	97	28	34	42
20	762	211	102	199	600	377	122	161	67	26	32	31
21	515	443	107	195	430	280	122	182	60	25	35	28
22	439	670	102	189	680	262	119	214	55	26	31	27
23	413	329	95	180	816	234	125	141	55	31	28	27
24	373	266	92	174	466	221	107	112	51	35	33	27
25	413	245	122	164	361	214	107	97	48	30	26	25
26	349	224	1730	241	326	208	144	92	44	27	24	31
27	291	221	996	2600	310	195	147	86	41	25	33	38
28	231	227	425	3510	280	198	112	82	37	24	23	60
29	198	195	295	762	318	186	102	77	41	24	22	33
30	173	179	269	585	---	170	95	84	77	26	32	39
31	153	---	615	495	---	164	---	92	---	39	39	---
TOTAL	9001	9364	7591	21428	13593	10043	6181	4588	2360	1306	1966	1013
MEAN	290	312	245	691	469	324	205	148	78.7	42.1	63.4	33.8
MAX	1300	2140	1730	3510	1310	1130	726	575	234	119	353	97
MIN	114	119	92	164	238	164	95	77	37	24	22	13
CFSM	1.38	1.49	1.17	3.29	2.23	1.54	.98	.70	.37	.20	.30	.16
IN.	1.59	1.66	1.34	3.80	2.41	1.78	1.09	.81	.42	.23	.35	.18

CAL YR 1975	TOTAL	162204	MEAN 444	MAX 6330	MIN 77	CFSM 2.11	IN 28.73
WTR YR 1976	TOTAL	88434	MEAN 242	MAX 3510	MIN 13	CFSM 1.15	IN 15.67

DELAWARE RIVER BASIN

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01465500 NESHAMINY CREEK NEAR LANGHORNE, PA--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--October 1975 to current year.

COOPERATION.--Water-quality data were furnished by the Pennsylvania Department of Environmental Resources.

WATER QUALITY DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

DATE	TIME	CODE FOR AGENCY COL- LECTING SAMPLE	INSTAN- TANEOUS DIS- CHARGE (CFS)	SPE- CIFIC CON- DUCT- ANCE (MICRO- MHOS)	TEMPER- ATURE (DEG C)	TUR- BID- ITY (JTU)	CHEM- ICAL OXYGEN DEMAND (HIGH LEVEL) (MG/L)	HARD- NESS (CA+MG) (MG/L)	MINERAL ACIDITY (METHYL ORANGE) AS CAC03 (MG/L)
OCT									
16...	1045	9813	120	220	17.0	4	20	80	0
JAN									
14...	1030	9813	2150	150	1.0	57	--	47	0
FEB									
26...	1015	9813	333	190	7.0	5	--	88	0
MAR									
11...	0945	9813	238	250	5.0	6	--	96	0
MAY									
03...	0930	9813	227	260	16.0	8	--	100	0
11...	1030	9813	92	330	18.0	10	--	180	0
JUN									
24...	1015	9813	51	360	25.0	15	--	83	0
JUL									
15...	0715	9813	34	440	--	14	--	102	--
AUG									
24...	1330	9813	34	460	27.0	8	--	126	0
SEP									
07...	1400	9813	22	490	21.0	5	--	134	0

DATE	ACIDITY CO2 AS CAC03 (MG/L)	DIS- SOLVED CAL- CIUM (CA) (MG/L)	DIS- SOLVED MAG- NE- SIUM (MG) (MG/L)	ALKA- LINITY AS CAC03 (MG/L)	DIS- SOLVED SULFATE (SO4) (MG/L)	DIS- SOLVED CHLO- RIDE (CL) (MG/L)	TOTAL FLUO- RINE (F) (MG/L)	TOTAL FILT- RABLE RESIDUE (MG/L)	TOTAL NON- FILT- RABLE RESIDUE (MG/L)
OCT									
16...	0	24	3.5	62	80	26	.3	222	--
JAN									
14...	0	13	3.0	30	22	26	.4	214	472
FEB									
26...	0	19	10	50	32	21	<.1	168	22
MAR									
11...	0	22	10	50	42	25	.1	172	12
MAY									
03...	0	20	12	64	30	23	.1	188	18
11...	0	25	29	66	28	26	.1	194	16
JUN									
24...	0	26	4.0	70	42	31	.1	244	16
JUL									
15...	0	32	5.5	94	40	47	.1	246	22
AUG									
24...	0	34	10	92	46	50	.1	292	16
SEP									
07...	0	36	11	100	54	83	.1	324	<5

DATE	TOTAL RESI- DUE (MG/L)	TOTAL NITRATE (N) (MG/L)	TOTAL NITRITE (N) (MG/L)	TOTAL AMMONIA NITRO- GEN (MG/L)	TOTAL PHOS- PHORUS (P) (MG/L)	TOTAL IRON (FE) (UG/L)	TOTAL ORGANIC CARBON (C) (MG/L)	METHY- LENE BLUE ACTIVE SUB- STANCE (MG/L)
OCT								
16...	--	3.7	.07	.04	.47	80	5.0	.0
JAN								
14...	--	2.3	.11	.28	.67	12100	--	--
FEB								
26...	--	3.3	.12	.23	.27	200	--	.0
MAR								
11...	--	2.8	.08	.13	.34	280	--	.0
MAY								
03...	--	2.1	.17	.80	.53	900	--	.0
11...	--	3.3	.13	.13	.55	500	--	.0
JUN								
24...	--	2.4	.05	.08	.74	600	--	.0
JUL								
15...	268	2.4	.04	.07	.84	670	--	.0
AUG								
24...	--	1.3	.03	.06	1.0	350	--	.0
SEP								
07...	--	3.7	.05	.09	.99	310	--	.0

DELAWARE RIVER BASIN

01465770 POQUESSING CREEK AT TREVOSE ROAD, PHILADELPHIA, PA

LOCATION.--Lat 40°07'55", long 74°59'40", Bucks County, Hydrologic Unit 02040202, on right bank 30 ft (9 m) downstream from Trevo Road Bridge, 1 mi (1.6 km) southwest of Trevo.

DRAINAGE AREA.--5.08 mi² (13.2 km²).

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

REVISED RECORDS.--WDR PA-72: 1970(M), 1971(P). WDR PA-75: 1971(P), 1972(P), 1973(P), 1974(P).

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

REMARKS.--Records good.

AVERAGE DISCHARGE.--12 years, 7.37 ft³/s (0.209 m³/s), 19.69 in/yr (500 mm/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 2,100 ft³/s (59.5 m³/s) Aug. 28, 1971, gage height, 8.38 ft (2.554 m), in gage well, 9.10 ft (2.774 m) outside, from floodmark, from rating curve extended above 800 ft³/s (22.7 m³/s) on basis of contracted-opening measurement of peak flow; minimum daily, 0.1 ft³/s (0.003 m³/s) Aug. 31, 1966.

EXTREMES FOR CURRENT YEAR.--Peak discharges above base of 400 ft³/s (11.3 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	1915	*531 15.0	*5.25 1.600	May 1	2000	478 13.5	4.99 1.521

Minimum discharge, 0.71 ft³/s (0.020 m³/s) Sept. 14, gage height, 1.23 ft (0.375 m).

REVISIONS.--The maximum discharge for water year 1972 has been revised to 693 ft³/s (19.6 m³/s) Nov. 29, 1971, gage height, 5.91 ft (1.801 m). This figure supersedes those previously published in WDR PA-72 and WDR PA-75.

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	4.9	4.2	4.6	63	10	6.4	45	68	12	2.0	1.4	1.3
2	4.9	4.2	4.0	7.4	22	5.7	10	8.7	9.9	1.7	1.3	2.0
3	4.4	4.2	4.0	20	7.4	5.7	8.7	4.6	3.2	8.3	1.3	1.5
4	4.6	4.0	4.0	7.7	7.4	6.4	9.4	4.0	2.7	8.3	1.2	1.4
5	4.2	4.0	3.8	5.2	6.7	9.4	6.1	3.8	2.7	2.2	1.2	1.3
6	4.2	4.0	3.8	4.6	6.4	5.7	4.9	3.6	2.5	1.8	1.2	.98
7	4.2	4.0	3.8	16	5.7	4.9	4.6	3.8	2.5	26	1.2	1.4
8	4.0	8.0	3.6	19	6.4	4.6	5.4	3.4	2.3	2.5	13	.98
9	4.9	3.8	4.6	5.2	6.1	5.4	5.2	3.4	2.2	2.0	35	.86
10	4.0	6.1	4.4	4.4	7.4	8.7	4.4	3.4	2.3	1.8	12	2.5
11	6.1	4.0	3.8	4.2	11	11	4.6	16	2.2	2.7	2.0	1.0
12	4.6	109	3.6	4.6	7.0	7.7	4.4	15	2.0	1.8	1.8	.92
13	3.8	48	3.6	9.0	7.4	24	4.6	3.8	2.0	1.8	1.5	.92
14	3.8	8.3	3.6	12	7.0	6.7	4.4	3.4	2.0	2.2	13	.81
15	3.6	6.1	3.8	5.2	6.4	6.1	4.6	3.4	2.0	1.7	5.4	.86
16	3.6	5.4	3.8	4.6	6.4	12	4.4	3.8	2.0	1.7	2.0	13
17	14	4.9	3.4	4.4	8.3	8.0	4.0	3.4	6.1	1.7	1.7	2.5
18	39	4.6	3.4	4.0	11	5.7	4.0	9.0	2.2	1.5	1.7	3.8
19	54	4.6	3.2	4.0	9.4	5.7	4.0	10	2.0	1.6	1.7	1.1
20	9.9	4.4	3.2	3.8	6.4	5.4	4.0	6.7	2.0	1.5	1.6	1.2
21	6.1	22	3.4	3.8	5.7	8.0	3.8	6.7	2.3	1.4	1.6	1.3
22	5.2	7.0	3.4	3.8	20	5.0	4.0	3.6	2.3	1.3	1.5	1.1
23	4.6	5.2	3.6	3.8	7.7	4.7	3.6	3.2	2.5	13	1.5	1.0
24	4.6	4.9	3.2	3.6	6.4	4.5	3.6	3.0	3.8	2.3	1.4	.98
25	6.7	4.6	3.0	3.4	6.1	4.3	4.2	3.0	2.0	1.5	1.5	.92
26	4.6	4.4	86	25	6.1	4.2	5.7	3.0	1.9	1.4	1.7	8.7
27	4.4	4.9	7.0	107	5.7	4.0	3.4	2.8	1.7	1.4	4.9	2.2
28	4.4	4.2	4.6	19	5.7	5.0	3.4	2.8	1.8	1.3	1.8	1.3
29	4.4	4.2	4.2	8.7	6.1	3.8	3.4	2.8	1.8	1.6	1.5	1.2
30	4.4	4.2	9.4	7.4	---	3.8	3.2	4.9	2.7	1.7	1.3	16
31	4.2	---	19	6.4	---	3.7	---	3.2	---	1.4	1.4	---
TOTAL	240.3	311.4	222.8	400.2	235.3	206.2	185.0	220.2	89.6	103.1	121.3	75.03
MEAN	7.75	10.4	7.19	12.9	8.11	6.65	6.17	7.10	2.99	3.33	3.91	2.50
MAX	54	109	86	107	22	24	45	68	12	26	35	16
MIN	3.6	3.8	3.0	3.4	5.7	3.7	3.2	2.8	1.7	1.3	1.2	.81
CFSM	1.53	2.05	1.42	2.54	1.60	1.31	1.21	1.40	.59	.66	.77	.49
IN.	1.76	2.28	1.63	2.93	1.72	1.51	1.35	1.61	.66	.75	.89	.55

CAL YR 1975	TOTAL	4282.80	MEAN	11.7	MAX	260	MIN	2.2	CFSM	2.30	IN	31.36
WTR YR 1976	TOTAL	2410.43	MEAN	6.59	MAX	109	MIN	.81	CFSM	1.30	IN	17.65

DELAWARE RIVER BASIN

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01465785 WALTON RUN AT PHILADELPHIA, PA

LOCATION.--Lat 40°05'22", long 74°59'37", Philadelphia County, Hydrologic Unit 02040202, on right bank 110 ft (34 m) downstream from bridge on Decatur Road, 1 mi (1.6 km) upstream from mouth, Philadelphia.

DRAINAGE AREA.--2.17 mi² (5.62 km²).

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

REVISED RECORDS.--WDR PA-75: Datum.

GAGE.--Water-stage recorder and concrete control. Datum of gage is 75.49 ft (23.009 m) above mean sea level.

REMARKS.--Records fair.

AVERAGE DISCHARGE.--12 years, 3.36 ft³/s (0.095 m³/s), 21.01 in/yr (534 mm/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 1,430 ft³/s (40.5 m³/s) Aug. 27, 1967, gage height, 9.46 ft (2.883 m), from rating extended above 740 ft³/s (21.0 m³/s) on basis of step-backwater analysis; minimum, 0.04 ft³/s (0.001 m³/s) Oct. 2, 1972, gage height, 2.21 ft (0.674 m).

EXTREMES FOR CURRENT YEAR.--Peak discharges above base of 250 ft³/s (7.08 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	2345	341 9.66	5.16 1.573	July 7	0535	353 10.0	5.23 1.594
May 1	Unk.	339 9.60	5.15 1.570	July 23	1725	272 7.70	4.80 1.463
July 4	1805	*562 15.9	*6.50 1.981	Aug. 9	2050	276 7.82	4.82 1.469

Minimum discharge, 0.25 ft³/s (0.007 m³/s) Sept. 6, 12, 13, gage height, 2.24 ft (0.683 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	1.3	.88	.99	6.0	2.7	1.0	15	35	8.0	1.3	.47	.51
2	1.2	.80	.71	1.5	15	1.1	2.0	5.0	10	.65	.49	.87
3	1.2	.76	.67	11	1.5	1.2	1.0	1.0	1.0	6.6	.67	.53
4	1.1	.80	.64	1.5	1.2	2.0	3.0	.90	.70	31	.77	.40
5	1.1	1.5	.63	1.2	.90	4.5	1.5	.80	.80	1.5	.84	.37
6	.93	1.3	.54	1.0	.80	1.5	1.0	.80	.60	.70	.86	.27
7	.93	1.2	.51	15	.76	1.0	.90	1.2	.70	29	.87	.45
8	1.0	8.0	.64	4.5	.76	.90	1.2	.70	.90	1.4	1.8	.61
9	1.7	.80	1.9	1.5	.76	2.0	.80	.60	.70	.76	32	.60
10	1.1	2.5	.71	.98	3.0	4.0	.70	.60	1.0	.54	7.0	2.4
11	1.7	.90	.67	.90	4.0	4.5	.70	5.0	.80	1.8	1.1	.42
12	1.7	35	.54	1.5	1.5	3.5	.80	6.0	.70	.64	1.1	.29
13	.93	25	.48	7.0	1.0	10	.66	.80	.45	.61	1.1	.45
14	.93	2.0	.76	1.4	.90	1.5	.64	.70	.60	.56	6.4	.55
15	.86	1.0	.57	.97	.86	1.0	.64	.67	.90	.61	3.0	.59
16	.89	.90	1.5	.70	1.1	7.0	.64	1.0	.86	.62	1.2	9.6
17	9.0	.88	.70	.61	2.5	2.3	.64	.80	2.4	.69	1.0	1.1
18	28	.86	.60	.60	6.0	1.3	.64	6.0	.70	.44	.96	1.0
19	29	.83	.56	.60	2.0	.94	.64	1.5	.53	.60	1.0	.40
20	4.5	.80	.60	.78	1.0	.80	.64	1.9	.54	.66	1.2	.49
21	1.6	9.6	.60	.70	.90	1.1	.80	3.0	.81	.76	.55	.70
22	1.2	1.2	.68	.60	9.0	.92	1.4	1.5	.72	.71	.48	.59
23	1.1	.71	.75	.50	1.5	.78	.90	.80	.66	13	.64	.60
24	.90	.70	.60	.55	1.0	.74	.90	.75	1.4	1.1	.82	.64
25	2.0	.72	.80	.62	.90	.70	.90	.70	.82	.66	.97	.49
26	.92	.69	35	10	.90	.70	1.2	.70	.77	.74	.83	5.3
27	.90	1.1	1.5	50	.90	.77	.86	.70	.74	.85	4.0	1.3
28	.90	.61	1.0	10	.80	1.0	.88	.70	.79	.92	.75	.60
29	.90	.56	.90	2.0	.80	.70	.71	.70	.92	1.5	.62	.59
30	1.2	.55	9.0	1.5	---	.70	.80	3.0	2.1	1.3	.74	14
31	.90	---	30	1.4	---	2.0	---	1.5	---	.59	.61	---
TOTAL	101.59	103.15	95.75	137.11	64.94	62.15	43.09	85.02	42.61	102.81	74.84	46.71
MEAN	3.28	3.44	3.09	4.42	2.24	2.00	1.44	2.74	1.42	3.32	2.41	1.56
MAX	29	35	35	50	15	10	15	35	10	31	32	14
MIN	.86	.55	.48	.50	.76	.70	.64	.60	.45	.44	.47	.27
CFSM	1.51	1.59	1.42	2.04	1.03	.92	.66	1.26	.65	1.53	1.11	.72
IN.	1.74	1.77	1.64	2.35	1.11	1.06	.74	1.46	.73	1.76	1.28	.80

CAL YR 1975 TOTAL 1805.30 MEAN 4.95 MAX 89 MIN .48 CFSM 2.28 IN 30.93
WTR YR 1976 TOTAL 959.77 MEAN 2.62 MAX 50 MIN .27 CFSM 1.21 IN 16.45

DELAWARE RIVER BASIN

01465790 BYBERRY CREEK AT CHALFONT ROAD, PHILADELPHIA, PA

LOCATION.--Lat 40°05'01", long 74°58'57", Philadelphia County, Hydrologic Unit 02040202, on right bank 200 ft (61 m) downstream from Chalfont Road Bridge, 0.2 mi (0.3 km) downstream from Walton Run, Philadelphia.

DRAINAGE AREA.--5.34 mi² (13.8 km²).

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

REVISED RECORDS.--WDR PA-75: Datum.

GAGE.--Water-stage recorder and concrete control. Datum of gage is 46.84 ft (14.277 m) above mean sea level.

REMARKS.--Records fair.

AVERAGE DISCHARGE.--11 years, 8.59 ft³/s (0.243 m³/s), 21.85 in/yr (555 mm/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 1,930 ft³/s (54.7 m³/s) Aug. 28, 1971, gage height, 12.47 ft (3.801 m), from floodmark, from rating curve extended above 950 ft³/s (26.9 m³/s); minimum, 0.4 ft³/s (0.011 m³/s) August 4, 1965; minimum gage height, 1.27 ft (0.387 m) June 4, 1965, before completion of control.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 403 ft³/s (11.4 m³/s) Nov. 12, gage height, 5.94 ft (1.811 m); minimum daily, 1.0 ft³/s (0.028 m³/s) Sept. 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	3.6	3.0	5.2	24	7.0	4.1	34	90	20	4.0	2.1	1.7
2	3.4	2.8	4.4	5.6	30	4.3	7.6	20	25	3.0	2.0	2.5
3	3.2	3.2	4.4	25	4.5	4.5	5.0	3.5	3.6	10	2.3	1.9
4	3.2	3.8	4.4	5.1	4.3	5.3	7.0	3.3	3.2	70	2.3	1.5
5	3.0	4.1	4.3	4.3	4.0	12	4.2	3.3	3.3	9.0	2.4	1.5
6	3.0	4.0	4.3	3.9	4.0	4.0	4.0	3.3	2.6	3.5	2.1	1.5
7	2.9	4.1	4.2	37	4.0	3.5	3.7	5.0	2.9	60	2.3	1.7
8	3.0	18	4.4	9.7	4.0	3.5	4.4	3.0	3.6	4.6	6.0	1.5
9	4.8	2.7	6.7	4.3	4.0	4.5	3.6	3.0	2.9	3.7	48	1.7
10	3.0	7.7	5.3	4.0	7.2	9.7	3.6	3.0	4.2	3.0	22	10
11	8.0	3.4	4.0	3.9	9.2	10	3.4	10	3.5	5.6	3.3	2.0
12	5.7	83	3.8	4.6	4.8	9.2	3.5	14	3.2	2.6	3.0	1.3
13	2.8	59	4.3	17	4.7	24	3.7	2.9	2.5	2.5	2.9	1.2
14	2.8	7.2	5.6	5.9	4.4	4.5	3.2	2.8	2.7	2.4	10	1.2
15	2.8	4.2	7.5	4.0	4.2	4.1	3.1	2.8	3.6	2.3	5.5	1.2
16	3.0	3.7	7.9	3.8	4.7	16	3.1	4.5	9.7	2.4	3.0	15
17	21	3.6	7.1	3.4	5.8	5.7	3.1	3.0	3.1	2.8	2.3	5.0
18	66	3.4	4.8	3.2	13	4.1	3.1	15	2.8	2.0	1.8	2.5
19	59	3.4	4.0	3.0	6.4	4.0	3.1	4.0	3.0	2.6	1.7	1.2
20	12	3.4	4.2	3.5	4.4	3.6	3.1	4.3	2.8	2.6	1.6	1.1
21	4.7	22	4.2	3.4	4.2	4.4	3.5	8.0	2.5	2.7	1.5	2.0
22	3.9	4.5	5.1	3.3	22	3.7	6.0	3.5	3.2	2.9	1.5	1.5
23	3.7	3.4	5.2	3.3	5.1	3.6	3.5	3.4	3.9	20	1.5	1.1
24	3.4	3.4	4.3	3.3	4.4	3.5	3.5	3.3	3.2	4.7	1.8	1.0
25	6.0	3.4	13	3.5	4.2	3.5	3.5	3.2	2.7	2.5	1.5	1.0
26	3.3	3.4	84	20	4.2	3.4	5.0	3.2	2.4	2.7	3.0	10
27	3.2	4.3	5.4	100	4.1	3.6	3.0	3.1	3.1	2.6	10	3.5
28	3.1	3.2	3.9	30	3.8	4.8	3.0	3.1	2.4	3.1	2.0	1.5
29	3.0	3.1	3.8	6.0	3.7	3.4	3.2	3.0	2.4	3.3	2.2	1.4
30	3.6	3.3	22	5.4	---	3.4	3.5	8.0	5.0	4.4	1.9	20
31	3.0	---	62	5.2	---	4.7	---	4.5	---	2.6	1.7	---
TOTAL	257.1	281.7	313.7	358.6	190.3	182.6	146.7	247.0	139.0	250.1	155.2	100.2
MEAN	8.29	9.39	10.1	11.6	6.56	5.89	4.89	7.97	4.63	8.07	5.01	3.34
MAX	66	83	84	100	30	24	34	90	25	70	48	20
MIN	2.8	2.7	3.8	3.0	3.7	3.4	3.0	2.8	2.4	2.0	1.5	1.0
CFSM	1.55	1.76	1.89	2.17	1.23	1.10	.92	1.49	.87	1.51	.94	.63
IN.	1.79	1.96	2.18	2.50	1.33	1.27	1.02	1.72	.97	1.74	1.08	.70

CAL YR 1975 TOTAL 4052.9 MEAN 11.1 MAX 136 MIN 1.9 CFSM 2.08 IN 28.23
WTR YR 1976 TOTAL 2622.2 MEAN 7.16 MAX 100 MIN 1.0 CFSM 1.34 IN 18.26

DELAWARE RIVER BASIN

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01465798 POQUESSING CREEK AT GRANT AVENUE, PHILADELPHIA, PA

LOCATION.--Lat 40°03'25", long 74°59'08", Philadelphia County, Hydrologic Unit 02040202, on right bank 600 ft (183 m) upstream from Delaware River Expressway and 3,000 ft (914 m) upstream from mouth in northeast Philadelphia.

DRAINAGE AREA.--21.4 mi² (55.4 km²).

PERIOD OF RECORD.--July 1965 to September 1970, July 1974 to current year.

GAGE.--Water-stage recorder and concrete low-water control. Datum of gage is 2.68 ft (0.817 m) above mean sea level.

REMARKS.--Records fair.

AVERAGE DISCHARGE.--7 years (1965-70, 1975-76), 28.3 ft³/s (0.801 m³/s), 17.97 in/yr (456 mm/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 4,660 ft³/s (132 m³/s) Aug. 27, 1967, gage height, 10.98 ft (3.347 m), from rating curve extended above 550 ft³/s (15.6 m³/s); minimum, 1.1 ft³/s (0.031 m³/s) Aug. 29, 1966, gage height, 2.43 ft (0.741 m).

EXTREMES OUTSIDE OF PERIOD OF RECORD.--Flood of Aug. 28, 1971 reached a stage of 13.05 ft (3.978 m), from floodmark, discharge, 7,380 ft³/s (209 m³/s).

EXTREMES FOR CURRENT YEAR.--Peak discharges above base of 600 ft³/s (17.0 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)
Oct. 18	2330	1,290 36.5	7.07 2.155	May 1	2030	*2,130 60.3	*8.33 2.539
Nov. 12	2245	1,970 55.8	8.10 2.469	June 1	2230	728 20.6	5.97 1.820
Dec. 26	1000	955 27.0	6.45 1.966	July 4	1845	885 25.1	6.31 1.923
Jan. 1	0315	960 27.2	6.46 1.969	Aug. 9	2130	885 25.1	6.31 1.923
Jan. 27	1945	1,060 30.0	6.67 2.033				

Minimum discharge, 3.9 ft³/s (0.11 m³/s) Aug. 4, 6, 24, 26, gage height, 2.72 ft (0.829 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	20	17	18	274	43	20	136	375	65	14	7.2	6.0
2	18	16	15	37	127	20	26	74	103	5.0	4.3	8.0
3	16	16	15	97	33	20	18	17	12	44	4.3	7.5
4	16	15	14	39	32	23	22	14	9.2	126	4.5	6.3
5	16	15	14	21	28	41	15	12	8.8	16	4.8	5.8
6	15	15	14	20	26	26	14	12	8.3	5.7	4.3	5.5
7	14	16	13	77	24	19	14	31	7.9	103	6.3	5.8
8	14	62	13	112	27	19	16	12	8.8	9.7	27	5.0
9	21	18	18	22	27	23	14	10	10	8.3	159	6.8
10	17	35	21	20	33	44	12	9.7	9.2	6.3	109	17
11	31	22	14	18	53	50	12	35	9.2	15	8.3	8.0
12	27	333	13	22	31	31	12	94	8.3	8.3	6.6	5.0
13	14	312	12	30	28	122	12	12	8.3	6.9	6.0	4.7
14	14	43	12	75	27	22	12	10	6.6	6.9	49	5.0
15	12	26	13	22	23	17	12	10	7.5	7.2	17	5.5
16	12	21	15	20	26	57	12	18	7.5	6.9	8.3	58
17	49	20	12	17	34	33	12	13	29	9.2	5.5	16
18	284	18	12	15	46	16	12	69	8.3	6.3	4.8	8.8
19	328	18	11	15	53	15	12	62	7.2	6.6	4.5	5.7
20	70	18	12	16	26	14	12	15	6.6	7.9	5.5	5.2
21	33	88	13	18	23	15	11	33	6.9	7.9	4.3	7.2
22	22	33	14	16	92	16	16	12	6.3	7.9	4.8	7.2
23	20	20	15	14	33	15	11	9.7	6.6	53	4.8	6.0
24	19	18	12	15	25	15	9.0	9.2	7.5	17	4.8	5.7
25	30	20	12	15	24	15	9.8	9.2	7.5	6.0	5.0	6.0
26	20	17	289	77	23	15	20	9.2	5.7	5.2	5.2	33
27	18	22	36	493	22	15	8.6	8.8	5.5	5.2	21	15
28	18	17	20	127	21	21	8.0	8.8	6.0	5.5	5.2	5.7
29	17	15	17	39	20	14	8.0	8.8	6.3	5.7	6.0	4.5
30	20	15	44	31	---	14	8.0	21	12	8.3	5.8	75
31	15	---	91	27	---	15	---	14	---	6.0	5.2	---
TOTAL	1240	1321	844	1841	1030	802	516.4	1048.4	411.0	546.9	518.3	360.9
MEAN	40.0	44.0	27.2	59.4	35.5	25.9	17.2	33.8	13.7	17.6	16.7	12.0
MAX	328	333	289	493	127	122	136	375	103	126	159	75
MIN	12	15	11	14	20	14	8.0	8.8	5.5	5.0	4.3	4.5
CFSM	1.87	2.06	1.27	2.78	1.66	1.21	.80	1.58	.64	.82	.78	.56
IN.	2.16	2.30	1.47	3.20	1.79	1.39	.90	1.82	.71	.95	.90	.63

CAL YR 1975 TOTAL 16997.0 MEAN 46.6 MAX 714 MIN 5.8 CFSM 2.18 IN 29.54
WTR YR 1976 TOTAL 10479.9 MEAN 28.6 MAX 493 MIN 4.3 CFSM 1.34 IN 18.22

DELAWARE RIVER BASIN

01467030 DELAWARE RIVER AT TORRESDALE INTAKE AT PHILADELPHIA, PA.

LOCATION.--Lat 40°01'57", long 74°59'46", Philadelphia County, Hydrologic Unit 02040202, water-quality recorder (40°02'05", 74°59'57") located on right bank in inactive building at Torresdale Filter Plant, 1.7 mi (2.7 km) downstream from Poquessing Creek.

DRAINAGE AREA.--7,781 mi² (20,200 km²).

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

PERIOD OF DAILY RECORD.--

SPECIFIC CONDUCTANCE: October 1963 to current year.

pH: June 1968 to current year.

WATER TEMPERATURES: October 1956 to September 1957, November 1960 to current year.

DISSOLVED OXYGEN: January 1961 to current year.

REMARKS.--Further information on this station is given in U.S. Geological Survey Water-Supply Paper 1809-0.

EXTREMES FOR PERIOD OF DAILY RECORD.--

SPECIFIC CONDUCTANCE: Maximum, 810 micromhos Jan. 14, 1976; minimum, 71 micromhos July 24, 1970.

pH: Maximum, 8.1 Dec. 30, 1970; minimum, 4.9 Apr. 5, 1969.

WATER TEMPERATURES: Maximum, 29.0°C on many days in 1956, 1963, 1966, and 1968; minimum, freezing point on many days during winter periods.

DISSOLVED OXYGEN: Maximum, 14.5 mg/l Feb. 4-5, 1964; minimum, 0.0 mg/l on many days during 1962 and 1965.

EXTREMES FOR CURRENT YEAR.--

SPECIFIC CONDUCTANCE: Maximum, 810 micromhos Jan. 14; minimum, 97 micromhos Oct. 22, 23.

pH: Maximum, 8.5 July 27, 28; minimum, 6.1 Dec. 26.

WATER TEMPERATURES: Maximum, 28.5°C June 28, 30, July 1, 2, Aug. 1; minimum, 0.5°C on several days during Jan. and Feb.

WATER QUALITY DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

DATE	TIME	SPECIFIC CONDUCTANCE (MICROMHOS)	TEMPERATURE (DEG C)	HARDNESS (CA, MG/L)	NON-CARBONATE HARDNESS (MG/L)	DISSOLVED CALCIUM (CA) (MG/L)	DISSOLVED MAGNESIUM (MG)	DISSOLVED SODIUM (NA) (MG/L)	DISSOLVED POTASSIUM (K) (MG/L)	BICARBONATE (HCO3) (MG/L)	ALKALINITY AS CaCO3 (MG/L)	DISSOLVED SULFATE (SO4) (MG/L)
OCT 02...	1220	120	16.5	50	24	14	3.6	4.5	1.5	32	26	18
JAN 20...	1315	194	1.0	63	29	17	5.0	12	2.1	42	34	24
FEB 05...	1230	120	.5	42	19	12	3.0	5.5	1.1	28	23	18
MAR 04...	1215	121	6.5	54	31	16	3.5	4.6	1.2	29	24	17
APR 01...	1245	145	11.0	62	32	17	4.7	6.6	1.2	36	30	20
MAY 06...	1330	123	14.5	44	17	11	3.9	5.4	1.1	32	26	18
JUN 10...	1215	161	21.5	56	22	14	5.1	8.5	1.7	42	34	23
JUL 01...	1240	161	26.0	58	23	16	4.4	8.1	1.6	43	35	22
AUG 13...	1225	146	23.5	55	21	15	4.2	7.0	1.5	41	34	22
SEP 02...	1325	184	24.5	65	29	17	5.5	10	1.8	44	36	27

DATE	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)	DISSOLVED NITRATE (N) (MG/L)	DISSOLVED NITRITE (N) (MG/L)	DISSOLVED NITRITE PLUS NITRATE (N) (MG/L)	DISSOLVED ORTHO. PHOSPHORUS (P) (MG/L)	DISSOLVED IRON (FE) (UG/L)	DISSOLVED MANGANESE (MN) (UG/L)
OCT 02...	8.1	.2	5.0	67	77	1.4	.03	1.4	.05	140	50
JAN 20...	19	.1	5.0	110	114	1.9	.06	2.0	.07	30	90
FEB 05...	9.1	.1	4.6	62	72	1.1	.01	1.1	.04	80	50
MAR 04...	6.9	.1	4.2	65	75	1.4	.11	1.5	.04	90	50
APR 01...	11	.1	3.0	85	87	1.2	.03	1.2	.06	100	80
MAY 06...	7.7	.1	3.3	66	69	.63	.04	.67	.04	90	30
JUN 10...	12	.1	.2	107	90	.90	.07	.97	.05	70	20
JUL 01...	10	.1	.3	102	88	.95	.00	.95	.05	70	0
AUG 13...	8.5	.1	3.4	96	86	.75	.08	.83	.05	60	10
SEP 02...	14	.1	.2	133	102	.87	.13	1.0	.05	50	0

01467030 DELAWARE RIVER AT TORRESDALE INTAKE AT PHILADELPHIA, PA--Continued

SPECIFIC CONDUCTANCE (MICROMHOS/CM AT 25°C), 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	191	107	129	451	156	272	229	138	169	526	111	206
2	213	122	138	450	313	387	258	172	188	343	170	217
3	177	120	141	531	353	397	263	168	184	377	169	207
4	170	134	145	509	350	378	242	169	182	375	170	203
5	179	141	150	437	359	376	232	172	183	262	171	192
6	189	147	156	501	366	392	257	177	192	310	172	214
7	207	153	165	507	377	403	257	178	193	362	209	245
8	211	160	173	786	388	424	251	179	192	289	200	233
9	200	165	174	554	394	417	260	180	191	321	218	240
10	215	168	177	763	407	450	292	182	203	353	219	248
11	215	172	181	516	410	439	264	187	208	333	222	---
12	233	178	190	520	412	438	262	192	209	494	234	---
13	233	185	195	445	317	409	274	199	214	457	238	291
14	260	189	204	462	350	399	298	205	222	810	238	323
15	275	200	221	444	310	353	297	207	224	339	260	282
16	286	200	228	432	200	313	256	205	219	318	251	268
17	254	200	222	419	260	295	287	204	219	314	244	260
18	231	194	214	402	257	294	266	203	216	316	247	256
19	217	185	196	446	263	301	250	205	216	310	247	259
20	190	138	171	458	155	238	251	204	214	328	241	262
21	151	100	123	308	164	187	257	200	217	319	240	260
22	162	97	109	269	166	186	272	183	207	408	241	278
23	171	97	110	215	113	181	243	186	199	470	256	295
24	211	107	124	221	175	186	358	190	218	426	260	290
25	276	115	135	282	141	177	277	191	210	403	259	288
26	264	120	145	228	131	150	292	196	219	574	257	290
27	219	129	147	232	128	149	268	199	219	573	258	304
28	288	130	161	217	132	151	288	200	231	262	125	174
29	236	143	164	194	134	148	271	202	226	205	110	128
30	208	150	163	190	136	148	299	197	220	226	109	129
31	189	152	161	---	---	---	308	200	226	241	110	135
MONTH	288	97	165	786	113	301	358	138	207	810	109	241
DAY	FEBRUARY			MARCH			APRIL			MAY		
	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	252	117	133	268	185	205	322	233	252	361	293	314
2	258	140	170	252	180	193	267	200	237	302	178	263
3	356	144	183	320	178	199	285	208	230	264	206	235
4	411	169	---	323	103	210	271	184	213	314	200	214
5	287	162	197	366	189	213	278	171	196	424	202	221
6	424	163	204	298	199	218	282	172	192	370	188	213
7	441	161	204	332	208	231	266	173	188	265	119	192
8	397	167	212	272	194	214	276	181	201	259	177	195
9	395	182	218	236	188	---	257	188	206	239	177	190
10	331	185	---	476	191	245	312	194	216	230	178	190
11	402	195	231	762	204	320	307	200	217	326	180	203
12	375	197	227	462	207	263	275	209	229	246	185	198
13	274	200	217	505	220	273	290	220	237	216	190	196
14	270	202	218	371	239	277	362	226	245	241	194	203
15	312	202	219	345	240	262	341	230	246	256	203	213
16	277	202	219	400	238	267	315	231	249	252	211	220
17	330	202	223	300	257	264	304	243	252	263	213	226
18	382	205	230	368	244	271	272	241	252	306	212	231
19	354	245	---	530	245	273	286	248	256	223	209	214
20	281	179	220	405	246	272	306	251	265	250	210	221
21	476	162	215	341	246	259	315	260	275	274	219	232
22	344	163	203	398	250	279	298	250	---	244	213	225
23	313	175	---	338	267	283	258	228	---	228	193	207
24	288	174	203	363	267	289	262	220	235	211	181	193
25	282	148	186	408	263	290	253	231	235	245	174	---
26	287	150	179	379	258	281	270	237	245	240	162	181
27	308	157	188	551	234	280	306	244	263	224	156	172
28	469	168	202	319	226	247	305	217	276	232	141	170
29	334	177	205	288	224	241	337	277	294	211	159	171
30	---	---	---	318	220	240	384	295	311	220	164	179
31	---	---	---	339	209	241	---	---	---	230	172	181
MONTH	476	117	204	762	103	253	384	171	240	424	119	209

DELAWARE RIVER BASIN

01467030 DELAWARE RIVER AT TORRESDALE INTAKE AT PHILADELPHIA, PA--Continued

SPECIFIC CONDUCTANCE (MICROMHOS/CM AT 25°C), WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

DAY	JUNE			JULY			AUGUST			SEPTEMBER		
	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	235	177	185	351	224	249	---	---	---	234	194	215
2	204	182	189	262	220	232	---	---	---	247	199	219
3	241	189	202	271	220	236	---	---	---	249	205	225
4	241	198	208	246	218	236	---	---	---	240	208	224
5	270	205	217	222	193	209	---	---	---	244	211	228
6	252	200	219	207	180	---	---	---	---	244	209	227
7	269	216	226	---	---	---	---	---	---	253	208	227
8	282	222	235	---	---	---	---	---	---	255	205	225
9	267	230	240	---	---	---	---	---	---	252	204	227
10	292	231	245	---	---	---	---	---	---	261	204	230
11	299	240	251	---	---	---	---	---	---	250	203	228
12	282	219	250	215	172	---	---	---	---	251	206	229
13	283	212	251	195	166	175	---	---	---	249	207	228
14	290	250	258	197	164	---	---	---	---	267	208	235
15	342	251	265	---	---	---	---	---	---	294	213	242
16	340	255	271	---	---	---	---	---	---	296	214	235
17	347	256	275	---	---	---	---	---	---	282	215	233
18	307	259	270	---	---	---	---	---	---	256	219	237
19	291	262	270	192	181	---	---	---	---	264	225	244
20	308	217	270	224	182	192	---	---	---	266	233	250
21	324	211	273	239	187	196	---	---	---	275	233	249
22	309	210	271	218	191	195	---	---	---	273	234	250
23	324	269	288	218	194	199	205	160	---	285	234	255
24	322	284	299	209	190	198	200	161	176	278	234	253
25	334	292	301	210	195	199	206	162	180	275	234	254
26	324	200	288	214	195	201	211	165	182	274	233	254
27	297	248	276	220	195	202	231	168	186	274	236	254
28	284	212	257	215	195	---	215	174	191	272	234	254
29	286	234	257	---	---	---	248	177	198	272	231	253
30	295	231	256	---	---	---	235	182	203	274	228	248
31	---	---	---	---	---	---	230	188	210	---	---	---
MONTH	347	177	252	---	---	---	---	---	---	296	194	238

PH (UNITS), 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	6.5	6.2	6.3	6.6	6.4	6.5	6.9	6.6	6.8	6.6	6.4	6.6
2	6.6	6.4	6.5	6.5	6.4	6.5	7.0	6.8	6.9	6.6	6.5	6.6
3	6.6	6.4	6.5	7.0	6.4	6.6	7.0	6.8	6.9	6.6	6.5	6.6
4	6.6	6.5	6.5	6.9	6.8	6.8	6.9	6.4	6.6	6.8	6.6	6.7
5	6.6	6.5	6.5	6.9	6.8	6.8	6.5	6.3	6.4	7.0	6.8	6.9
6	6.9	6.5	6.7	6.9	6.8	6.8	6.6	6.4	6.5	7.0	6.8	6.9
7	7.0	6.7	6.8	6.9	6.8	6.9	6.8	6.5	6.7	6.8	6.7	6.8
8	6.9	6.8	6.8	7.1	6.9	6.9	7.0	6.8	6.9	6.9	6.8	6.9
9	6.9	6.7	6.8	6.9	6.8	6.9	7.2	7.0	7.1	6.9	6.9	6.9
10	6.9	6.8	6.8	6.9	6.7	6.8	7.1	7.0	7.0	6.9	6.9	6.9
11	6.9	6.8	6.8	6.9	6.5	6.6	7.1	7.0	7.1	6.9	6.8	---
12	6.9	6.8	6.8	6.6	6.3	6.5	7.1	7.0	7.1	7.0	6.9	---
13	7.0	6.8	6.9	6.6	6.3	6.5	7.1	7.0	7.1	7.3	6.9	7.1
14	7.0	6.9	6.9	6.6	6.5	6.5	7.1	7.0	7.0	7.4	7.3	7.3
15	7.2	6.9	7.0	6.6	6.4	6.5	7.2	7.0	7.0	7.4	7.0	7.3
16	7.1	6.9	7.0	6.5	6.5	6.5	7.1	7.1	7.1	7.4	7.3	7.4
17	7.1	6.9	7.0	6.5	6.3	6.5	7.1	7.0	7.1	7.4	7.3	7.4
18	7.0	6.7	7.0	6.6	6.3	6.5	7.2	7.0	7.1	7.4	7.3	7.3
19	7.0	6.9	6.9	6.8	6.6	6.7	7.2	7.1	7.1	7.3	7.3	7.3
20	6.9	6.7	6.8	7.0	6.8	6.9	7.2	7.1	7.1	7.3	7.2	7.3
21	6.8	6.7	6.7	7.1	6.9	6.9	7.2	7.1	7.1	7.3	7.3	7.3
22	6.8	6.6	6.7	7.0	6.9	6.9	7.2	6.4	6.9	7.3	6.9	7.1
23	6.9	6.6	6.7	7.0	6.9	6.9	6.7	6.3	6.4	7.0	6.6	6.8
24	6.9	6.6	6.8	7.1	6.9	7.0	6.8	6.2	6.6	6.7	6.7	6.7
25	6.9	6.8	6.9	7.2	6.7	6.9	6.7	6.3	6.6	6.7	6.7	6.7
26	7.0	6.7	6.8	6.7	6.6	6.6	6.6	6.1	6.3	7.7	6.6	7.0
27	7.0	6.3	6.6	6.7	6.5	6.6	6.6	6.2	6.4	7.7	6.9	7.3
28	6.7	6.3	6.4	6.6	6.5	6.6	6.9	6.4	6.7	7.4	6.7	7.0
29	6.6	6.3	6.4	6.7	6.6	6.6	6.7	6.5	6.6	7.2	6.6	6.9
30	6.6	6.4	6.5	6.7	6.6	6.6	6.8	6.6	6.7	7.4	7.1	7.2
31	6.6	6.4	6.5	---	---	---	6.7	6.6	6.6	7.4	6.6	6.9
MONTH	7.2	6.2	6.7	7.2	6.3	6.7	7.2	6.1	6.8	7.7	6.4	7.0

01467030 DELAWARE RIVER AT TORRESDALE INTAKE AT PHILADELPHIA, PA--Continued

PH (UNITS), WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

DAY	FEBRUARY			MARCH			APRIL			MAY		
	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	7.3	6.6	6.7	7.2	7.0	7.1	7.3	6.3	6.8	6.8	6.6	6.7
2	7.3	6.7	7.0	7.1	6.6	6.8	7.4	7.2	7.3	6.8	6.4	6.7
3	6.9	6.6	6.7	6.8	6.6	6.7	7.2	7.0	7.2	6.9	6.6	6.7
4	7.2	6.7	---	6.8	6.6	6.6	7.2	7.0	7.1	6.9	6.5	6.7
5	7.2	6.8	7.1	6.7	6.6	6.6	7.2	7.0	7.1	6.7	6.5	6.6
6	7.3	7.1	7.2	6.7	6.6	6.6	7.2	7.0	7.1	6.7	6.6	6.7
7	7.3	6.9	7.2	6.7	6.6	6.7	7.3	7.1	7.1	6.8	6.6	6.7
8	7.3	6.6	7.0	6.7	6.6	6.6	7.3	7.0	7.2	6.9	6.6	6.8
9	6.6	6.5	6.6	6.7	6.3	---	7.3	7.2	7.2	7.1	6.9	7.0
10	7.1	6.4	---	7.9	6.4	7.3	7.4	7.2	7.2	7.2	7.0	7.1
11	7.1	6.5	6.6	7.4	7.0	7.2	7.4	7.2	7.2	7.2	6.4	6.8
12	7.2	6.5	6.7	7.1	6.2	6.5	7.5	7.2	7.4	6.5	6.3	6.4
13	7.2	6.5	6.6	7.4	6.2	6.8	7.9	7.1	7.4	7.5	6.3	7.0
14	7.1	6.5	6.7	7.1	6.9	7.0	7.1	6.3	6.5	7.5	7.3	7.4
15	7.2	6.5	7.0	7.5	6.9	7.1	6.5	6.3	6.4	7.4	7.3	7.4
16	7.2	6.5	6.6	7.2	6.3	6.9	6.4	6.3	6.3	7.4	7.3	7.4
17	6.6	6.5	6.5	7.3	6.4	---	6.4	6.3	6.4	7.4	6.4	7.0
18	6.6	6.5	6.6	7.2	6.4	6.6	6.4	6.3	6.3	6.6	6.4	6.5
19	7.2	7.0	---	7.2	6.5	6.9	6.5	6.3	---	6.7	6.5	6.6
20	7.1	6.6	6.8	7.2	7.2	7.2	---	---	---	6.7	6.6	6.6
21	6.9	6.7	6.7	7.2	6.3	---	---	---	---	6.7	6.6	6.7
22	6.7	6.6	6.6	7.1	6.3	6.4	---	---	---	6.7	6.6	6.7
23	7.0	6.9	---	6.6	6.4	6.5	7.0	6.9	---	6.7	6.6	6.6
24	7.2	7.0	7.1	6.6	6.4	6.5	7.1	6.5	7.0	6.6	6.6	6.6
25	7.1	7.0	7.1	6.7	6.4	6.5	7.2	7.1	7.1	7.2	6.6	---
26	7.1	6.9	7.0	6.6	6.5	6.5	7.2	7.0	7.1	7.1	6.9	7.0
27	7.1	6.9	7.0	7.0	6.4	6.5	7.2	6.4	6.9	6.9	6.8	6.9
28	7.2	7.0	7.0	6.5	6.3	6.4	6.6	6.5	6.5	6.8	6.5	6.7
29	7.3	7.0	7.1	6.6	6.4	6.4	6.6	6.5	6.6	6.7	6.6	6.6
30	---	---	---	6.7	6.4	6.5	6.8	6.6	6.7	6.6	6.4	6.5
31	---	---	---	6.7	6.4	6.5	---	---	---	6.6	6.4	6.5
MONTH	7.3	6.4	6.8	7.9	6.2	6.7	7.9	6.3	6.9	7.5	6.3	6.8
DAY	JUNE			JULY			AUGUST			SEPTEMBER		
	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	6.5	6.4	6.4	---	---	---	---	---	---	7.2	6.9	7.1
2	6.4	6.2	---	---	---	---	---	---	---	7.1	6.9	7.0
3	---	---	---	---	---	---	---	---	---	7.3	6.9	7.0
4	---	---	---	---	---	---	---	---	---	7.2	7.0	7.1
5	---	---	---	---	---	---	---	---	---	7.2	7.0	7.1
6	7.5	6.8	7.1	---	---	---	---	---	---	7.2	7.0	7.1
7	7.5	6.8	7.2	---	---	---	---	---	---	7.2	7.0	7.1
8	7.5	6.6	7.1	---	---	---	---	---	---	7.2	7.0	7.1
9	7.7	7.0	---	---	---	---	---	---	---	7.2	7.0	7.1
10	---	---	---	---	---	---	---	---	---	7.2	6.9	7.1
11	---	---	---	---	---	---	---	---	---	7.2	7.0	7.1
12	---	---	---	7.4	6.6	---	---	---	---	7.1	7.0	7.1
13	7.1	6.6	6.9	7.5	7.1	7.3	---	---	---	7.3	7.0	7.1
14	7.2	6.9	7.0	7.4	7.0	7.2	---	---	---	7.3	7.0	7.1
15	7.7	6.8	7.3	7.6	7.2	7.4	---	---	---	7.3	6.8	7.1
16	7.7	7.2	7.5	7.6	7.3	7.5	---	---	---	7.3	7.0	7.1
17	7.8	7.1	7.5	7.7	7.4	7.6	---	---	---	7.3	7.0	7.1
18	7.8	7.1	7.5	7.7	7.5	7.6	---	---	---	7.2	7.1	7.1
19	7.9	7.4	7.5	7.8	7.6	---	---	---	---	7.1	6.9	7.1
20	8.1	7.3	7.6	---	---	---	---	---	---	7.2	6.9	7.1
21	8.2	7.0	7.3	---	---	---	---	---	---	7.2	7.0	7.1
22	7.7	6.9	7.2	---	---	---	---	---	---	7.2	7.0	7.1
23	7.5	6.9	7.2	---	---	---	7.3	7.1	---	7.3	7.0	7.2
24	7.7	7.2	7.4	---	---	---	7.3	7.0	7.1	7.3	6.9	7.2
25	7.9	7.2	7.5	---	---	---	7.3	6.9	7.1	7.2	7.0	7.2
26	8.1	7.0	7.4	8.4	7.4	---	7.3	7.0	7.1	7.2	7.0	7.1
27	8.2	7.1	7.5	8.5	8.0	8.3	7.2	7.0	7.1	7.2	6.8	7.0
28	8.0	7.2	7.6	8.5	8.0	---	7.2	6.9	7.0	7.1	6.8	7.0
29	7.5	7.0	---	---	---	---	7.3	6.9	7.0	7.2	7.0	7.1
30	---	---	---	---	---	---	7.4	7.0	7.1	7.2	6.8	7.0
31	---	---	---	---	---	---	7.3	6.9	7.1	---	---	---
MONTH	---	---	---	---	---	---	---	---	---	7.3	6.8	7.1

DELAWARE RIVER BASIN

01467030 DELAWARE RIVER AT TORRESDALE INTAKE AT PHILADELPHIA, PA--Continued

TEMPERATURE (°C) OF WATER, 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	18.0	16.5	17.0	14.5	13.5	14.5	9.0	6.0	7.5	4.0	3.5	3.5
2	17.0	16.0	17.0	14.5	14.0	14.5	6.5	6.0	6.5	3.5	3.0	3.5
3	16.5	15.5	16.5	14.5	13.0	14.0	6.0	5.5	6.0	3.5	3.0	3.5
4	16.5	16.0	16.0	13.5	13.0	13.0	6.0	5.5	6.0	4.5	3.0	3.5
5	16.5	16.0	16.5	13.5	12.0	13.0	6.5	5.5	6.0	3.0	1.5	3.0
6	17.0	16.0	16.5	13.5	12.0	13.0	6.5	5.5	6.0	2.0	1.5	2.0
7	17.0	16.0	16.5	13.5	12.0	13.0	6.0	5.5	5.5	4.0	2.0	3.0
8	17.0	16.0	16.5	15.5	13.5	14.0	5.0	4.5	5.0	2.0	1.0	1.5
9	16.5	16.0	16.0	15.0	14.0	14.5	5.5	4.5	5.5	1.5	1.0	1.5
10	16.0	15.5	16.0	16.5	14.5	15.0	6.0	5.5	5.5	1.5	1.0	1.0
11	16.0	15.5	16.0	15.0	14.5	14.5	5.5	5.0	5.0	1.5	1.0	---
12	16.0	15.5	16.0	15.0	14.0	14.5	5.0	5.0	5.0	1.0	1.0	---
13	16.5	15.5	16.0	15.0	12.0	14.0	5.5	5.0	5.0	1.5	0.5	1.0
14	16.5	16.0	16.5	14.0	10.5	12.5	6.0	5.0	5.5	4.0	1.5	2.0
15	17.0	16.0	16.5	11.0	9.5	10.5	6.5	4.5	5.5	2.0	1.5	2.0
16	16.5	16.5	16.5	10.0	9.0	9.5	6.0	5.5	6.0	2.0	1.5	2.0
17	16.5	15.5	16.0	9.5	9.0	9.5	6.0	5.5	5.5	2.0	1.5	2.0
18	17.0	16.0	16.5	9.5	9.0	9.0	6.0	4.5	5.5	1.5	1.0	1.5
19	16.5	15.5	16.5	9.5	9.0	9.0	5.0	4.0	5.0	1.5	1.0	1.0
20	16.5	14.0	15.5	9.5	9.0	9.5	5.0	3.5	4.5	1.0	0.5	1.0
21	14.5	13.5	14.0	10.5	9.5	10.0	4.5	4.0	4.5	1.0	0.5	1.0
22	14.5	13.0	13.5	10.5	9.5	9.5	4.5	4.0	4.5	1.5	0.5	0.5
23	14.5	13.5	14.0	10.0	9.0	9.5	4.5	4.0	4.5	1.0	0.5	0.5
24	15.0	14.0	14.5	9.5	9.0	9.5	4.0	3.5	4.0	0.5	0.5	0.5
25	16.0	14.5	15.0	9.5	9.0	9.5	3.5	3.0	3.5	0.5	0.5	0.5
26	15.5	15.0	15.0	9.0	8.5	9.0	4.5	3.0	3.5	1.0	0.5	1.0
27	16.0	14.5	15.5	9.5	8.5	8.5	4.5	3.0	3.5	6.0	1.0	2.5
28	16.5	15.5	16.0	8.5	8.0	8.5	3.0	2.0	3.0	2.0	0.5	1.5
29	16.5	15.5	16.0	8.0	7.0	8.0	3.5	3.0	3.0	1.5	0.5	1.0
30	16.0	14.5	15.5	8.5	7.0	8.0	3.5	3.0	3.0	2.0	1.0	1.5
31	15.0	14.0	14.5	---	---	---	5.0	3.5	4.0	2.0	1.5	1.5
MONTH	18.0	13.0	16.0	16.5	7.0	11.5	9.0	2.0	5.0	6.0	0.5	1.5
DAY	FEBRUARY			MARCH			APRIL			MAY		
	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	3.5	1.5	1.5	9.0	7.0	8.0	12.0	10.5	11.0	16.5	15.5	16.0
2	2.0	0.5	1.0	8.0	7.0	8.0	11.5	10.5	11.5	16.0	14.5	15.5
3	2.0	0.5	1.0	8.0	7.0	7.5	11.0	10.0	10.5	15.5	15.0	15.0
4	1.5	1.5	1.5	8.0	7.0	7.5	10.0	9.5	10.0	16.0	14.5	14.5
5	1.5	1.0	1.0	10.0	7.0	8.0	10.5	8.5	9.0	17.0	14.0	15.0
6	1.5	1.0	1.0	8.5	6.5	7.5	10.5	9.0	9.0	16.5	15.0	15.5
7	2.0	1.0	1.5	9.0	7.0	7.5	10.5	9.0	9.5	18.0	15.5	16.0
8	2.0	1.0	1.5	8.5	6.5	7.5	10.5	9.0	9.5	17.0	15.0	15.5
9	3.0	1.0	1.5	6.5	5.5	---	10.0	9.0	9.5	17.0	15.0	16.0
10	3.0	1.0	1.5	6.0	4.5	6.0	10.5	9.0	9.5	18.0	16.0	16.5
11	4.0	2.0	2.5	6.5	5.5	6.0	10.0	9.5	10.0	17.0	16.5	17.0
12	3.5	3.0	3.0	6.0	5.0	5.5	10.0	9.0	9.5	17.0	16.5	17.0
13	4.5	3.5	4.0	6.5	5.0	5.5	10.0	9.5	9.5	18.5	16.5	17.5
14	4.5	4.0	4.0	6.5	5.5	6.0	10.5	9.5	10.0	19.0	17.0	18.0
15	5.0	4.0	4.5	6.5	5.5	6.0	12.0	10.0	10.5	20.5	18.5	19.0
16	6.0	4.5	5.0	6.0	5.5	5.5	12.0	10.5	11.0	20.0	19.0	19.5
17	8.0	5.5	6.0	5.5	5.0	---	14.5	11.0	12.0	20.5	19.5	19.5
18	8.0	5.5	6.0	5.5	4.5	5.0	14.5	12.0	13.0	21.0	19.0	19.5
19	8.5	6.0	---	7.0	4.5	5.5	15.5	13.5	14.0	19.0	16.5	18.5
20	7.0	5.0	6.0	8.5	5.0	6.0	16.5	14.5	15.0	19.0	18.0	18.5
21	8.5	5.0	6.0	7.0	5.5	---	18.5	15.5	16.5	19.5	18.0	18.5
22	8.5	5.5	6.5	9.0	5.5	7.0	16.5	16.0	---	19.0	17.0	18.0
23	6.0	5.5	---	9.0	6.5	7.5	19.5	18.0	---	18.5	17.0	18.0
24	5.5	4.5	5.5	10.0	8.0	9.0	20.0	18.5	19.0	18.5	17.0	18.0
25	6.0	5.0	5.0	10.5	9.0	9.5	19.5	18.5	19.0	18.0	17.0	---
26	5.5	4.5	5.0	10.5	9.5	10.0	19.0	16.5	18.5	18.0	17.0	17.5
27	6.5	5.0	5.5	13.5	9.5	10.5	18.5	15.5	17.5	18.0	17.0	17.5
28	8.0	5.5	6.5	11.0	10.0	10.5	18.0	16.5	17.0	19.0	18.0	18.5
29	8.5	6.0	7.0	10.5	10.0	10.5	18.0	16.5	17.0	19.0	18.0	18.5
30	---	---	---	11.5	10.5	11.0	18.0	16.0	16.5	18.5	18.0	18.0
31	---	---	---	11.0	10.5	10.5	---	---	---	19.5	18.0	18.5
MONTH	8.5	0.5	3.5	13.5	4.5	7.5	20.0	8.5	12.5	21.0	14.0	17.5

DELAWARE RIVER BASIN

01467030 DELAWARE RIVER AT TORRESDALE INTAKE AT PHILADELPHIA, PA--Continued

DISSOLVED OXYGEN (DO), MG/L, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

DAY	FEBRUARY			MARCH			APRIL			MAY		
	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	---	---	---	11.4	10.5	10.9	9.4	8.9	---	7.6	5.3	6.6
2	---	---	---	11.1	10.3	10.8	9.5	9.1	9.4	8.3	6.8	7.7
3	---	---	---	10.8	10.2	10.6	9.8	9.2	9.5	8.4	7.8	8.1
4	13.7	12.9	---	10.8	10.3	10.5	10.7	9.6	10.0	8.3	7.7	8.1
5	15.8	13.6	14.6	10.8	8.4	9.7	11.1	10.4	10.8	8.4	7.9	8.1
6	16.2	13.8	15.3	10.0	8.4	9.5	11.2	10.5	11.0	8.4	8.0	8.3
7	16.0	12.3	14.3	10.0	8.8	9.6	11.4	10.8	11.1	8.3	7.8	8.1
8	15.6	11.2	13.8	10.3	9.1	9.7	11.3	10.5	11.0	8.3	7.4	8.0
9	14.7	10.8	13.1	12.5	9.8	---	11.3	10.9	11.1	8.2	7.7	8.0
10	---	---	---	14.0	12.0	12.5	11.1	10.5	10.8	8.1	7.6	7.8
11	---	---	---	12.9	11.8	12.2	10.7	9.8	10.4	7.7	6.7	7.4
12	---	---	---	14.2	12.3	13.3	11.0	10.5	10.7	7.1	6.1	6.7
13	---	---	---	14.2	11.7	13.1	10.7	10.1	10.4	7.2	6.1	6.8
14	---	---	---	13.6	12.0	13.0	10.2	9.4	9.9	7.1	6.4	6.8
15	---	---	---	13.4	11.9	12.7	9.8	9.0	9.6	6.7	6.2	6.5
16	---	---	---	12.6	10.4	11.6	10.3	8.7	9.3	---	---	---
17	---	---	---	11.5	10.9	---	9.3	8.7	9.0	---	---	---
18	---	---	---	12.3	11.0	11.5	8.9	8.5	8.7	---	---	---
19	12.0	10.7	---	12.0	10.0	11.2	8.5	8.0	8.3	---	---	---
20	14.4	11.7	12.6	11.2	9.5	10.7	8.0	7.1	7.8	---	---	---
21	13.7	10.5	12.8	10.8	9.7	---	7.6	6.9	7.3	---	---	---
22	13.3	10.2	12.5	11.0	9.4	10.4	7.2	6.6	---	---	---	---
23	13.3	11.9	---	10.4	9.1	9.8	6.6	5.9	---	---	---	---
24	14.0	13.0	13.3	9.7	8.0	8.8	6.1	5.6	5.9	---	---	---
25	14.5	13.6	14.0	8.5	8.0	---	5.9	5.4	5.7	---	---	---
26	15.2	13.2	14.5	---	---	---	5.7	4.7	5.2	---	---	---
27	15.2	12.0	14.1	---	---	---	6.0	5.0	5.4	---	---	---
28	14.0	10.8	12.9	---	---	---	5.9	4.2	5.5	---	---	---
29	12.6	10.9	11.7	---	---	---	6.0	5.3	5.6	---	---	---
30	---	---	---	---	---	---	6.9	5.1	6.0	---	---	---
31	---	---	---	---	---	---	---	---	---	---	---	---
MONTH	---	---	---	14.2	8.0	---	11.4	4.2	8.7	---	---	---
DAY	JUNE			JULY			AUGUST			SEPTEMBER		
	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	---	---	---	8.0	5.3	6.7	---	---	---	4.4	3.8	---
2	---	---	---	---	---	---	---	---	---	---	---	---
3	---	---	---	---	---	---	---	---	---	7.4	4.2	---
4	9.6	8.7	---	---	---	---	---	---	---	7.1	4.9	6.1
5	10.7	9.1	9.8	---	---	---	---	---	---	7.1	4.4	6.2
6	10.4	8.2	9.5	---	---	---	---	---	---	7.4	4.9	6.5
7	11.0	9.0	9.8	---	---	---	---	---	---	7.7	5.2	6.7
8	10.2	9.2	---	---	---	---	---	---	---	8.0	5.5	6.9
9	---	---	---	---	---	---	---	---	---	7.9	5.4	6.9
10	---	---	---	---	---	---	---	---	---	7.5	4.4	6.5
11	---	---	---	---	---	---	---	---	---	7.5	5.5	6.7
12	---	---	---	7.3	6.6	---	---	---	---	7.5	5.7	6.7
13	7.7	6.5	---	7.3	5.9	6.6	---	---	---	7.5	5.8	6.7
14	8.0	6.2	7.3	8.2	4.9	6.7	---	---	---	7.9	5.8	6.7
15	8.3	6.1	7.2	9.0	5.3	6.9	---	---	---	8.0	6.0	6.7
16	7.8	5.8	6.9	8.0	5.7	6.6	---	---	---	7.6	5.6	6.5
17	7.5	5.9	6.8	7.7	5.6	6.5	---	---	---	7.3	5.9	6.4
18	7.2	5.0	6.4	8.1	5.9	6.8	---	---	---	7.1	5.8	6.4
19	7.2	4.5	6.3	7.7	6.3	---	---	---	---	6.8	5.6	6.3
20	7.2	5.3	6.3	---	---	---	---	---	---	7.0	5.7	6.3
21	7.5	5.8	6.5	---	---	---	---	---	---	6.6	5.5	6.2
22	7.8	6.1	6.8	---	---	---	---	---	---	6.6	4.5	6.0
23	8.1	6.3	7.0	---	---	---	8.3	6.9	---	7.6	4.6	6.5
24	8.3	6.1	7.4	---	---	---	8.2	5.7	7.2	7.7	4.9	6.8
25	8.2	6.1	7.3	---	---	---	7.9	5.1	6.6	7.2	4.8	6.4
26	8.8	5.8	7.2	8.3	6.9	---	6.7	4.6	5.8	7.0	4.9	6.2
27	9.1	5.8	7.5	8.5	6.0	7.3	5.5	4.0	4.9	7.1	5.1	6.3
28	9.4	6.0	7.6	7.6	6.1	---	5.0	3.1	4.0	7.2	5.4	6.2
29	8.4	5.6	7.2	---	---	---	7.4	4.0	5.1	7.6	5.7	6.4
30	8.0	5.2	6.8	---	---	---	7.3	4.7	5.3	7.6	5.6	6.7
31	---	---	---	---	---	---	6.0	3.3	4.6	---	---	---
MONTH	---	---	---	---	---	---	---	---	---	8.0	3.8	6.5

DELAWARE RIVER BASIN

129

01467041 PENNYPACK CREEK AT WELSH ROAD NEAR ABINGTON, PA

LOCATION.--Lat 40°07'14", long 75°04'21", Montgomery County, Hydrologic Unit 02040202, 300 ft (91 m) downstream of bridge on State Route 63, 0.3 mi (0.5 km) west of Huntingdon Valley, 0.7 mi (1.1 km) upstream from Meadow Brook Brook, and 2.2 mi (3.5 km) east of Abington.

DRAINAGE AREA.--not available.

PERIOD OF RECORD.--November 1975 to current year.

COOPERATION.--Water-quality data were furnished by the Pennsylvania Department of Environmental Resources.

WATER QUALITY DATA, NOVEMBER 1975 TO SEPTEMBER 1976

DATE	TIME	CODE FOR AGENCY COL- LECTING SAMPLE	SPE- CIFIC CON- DUCT- ANCE (MICRO- MHOS)	PH (UNITS)	TEMPER- ATURE (DEG C)	TUR- BID- ITY (JTU)	CHEM- ICAL OXYGEN DEMAND (HIGH LEVEL) (MG/L)	BIO- CHEM- ICAL OXYGEN DEMAND 5 DAY (MG/L)	HARD- NESS (CA+MG) (MG/L)
NOV 05...	0930	9813	280	--	15.0	2	22	--	99
FFB 04...	0915	9813	340	--	1.0	4	--	--	176
24...	0900	9813	260	--	4.0	5	--	--	198
MAR 11...	0900	9813	900	--	5.0	8	--	--	275
APR 04...	1045	9813	290	7.6	8.0	2	--	.6	78
MAY 03...	0900	9813	330	--	15.0	4	--	--	116
JUN 22...	1130	9813	450	--	24.0	4	--	--	100
JUL 21...	1030	9813	500	7.3	24.0	2	--	--	130
AUG 24...	0900	9813	500	--	24.0	4	--	--	116

DATE	MINERAL ACIDITY (METHYL ORANGE) AS CAC03 (MG/L)	ACIDITY CO2 AS CAC03 (MG/L)	DIS- SOLVED CAL- CIUM (CA) (MG/L)	DIS- SOLVED MAG- NE- SIUM (MG) (MG/L)	ALKA- LINITY AS CAC03 (MG/L)	DIS- SOLVED SULFATE (SO4) (MG/L)	DIS- SOLVED CHLO- RIDE (CL) (MG/L)	TOTAL RESI- DUAL CHLO- RINE (MG/L)	TOTAL FLUO- RIDE (F) (MG/L)
NOV 05...	--	--	27	7.5	88	44	35	--	--
FFB 04...	0	0	28	26	70	36	96	--	.1
24...	0	0	27	32	78	38	39	--	.1
MAR 11...	0	0	32	48	64	20	204	--	.1
APR 04...	0	0	25	3.5	78	42	31	.10	<.1
MAY 03...	0	0	24	14	84	34	30	--	.1
JUN 22...	0	0	27	8.0	94	30	45	--	.2
JUL 21...	0	0	28	15	96	50	4.0	--	.1
AUG 24...	--	0	32	9.0	122	42	56	--	.1

DELAWARE RIVER BASIN

01467041 PENNYPACK CREEK AT WELSH ROAD NEAR ABINGTON, PA--Continued

WATER QUALITY DATA, NOVEMBER 1975 TO SEPTEMBER 1976

	TOTAL FILT- RABLE RESIDUE	TOTAL NON- FILT- RABLE RESIDUE	TOTAL RESI- DUE (MG/L)	TOTAL NITRATE (N) (MG/L)	TOTAL NITRITE (N) (MG/L)	TOTAL AMMONIA NITRO- GEN (N) (MG/L)	TOTAL PHOS- PHORUS (P) (MG/L)	TOTAL IRON (FE) (UG/L)	METHY- LENE BLUE ACTIVE SUR- STANCE (MG/L)
DATE	(MG/L)	(MG/L)	(MG/L)	(MG/L)	(MG/L)	(MG/L)	(MG/L)	(UG/L)	(MG/L)
NOV 05...	234	2	--	3.5	.39	1.9	2.5	330	.1
FEB 04...	364	16	--	2.6	.20	1.0	.77	310	.0
24...	250	10	--	2.8	.28	1.7	1.6	400	.0
MAR 11...	592	16	--	1.7	.12	1.3	1.4	460	.0
APR 04...	220	4	--	3.7	.48	1.7	1.6	310	.0
MAY 03...	212	12	--	2.1	.26	1.6	1.3	340	.1
JUN 22...	272	4	--	3.2	.50	1.0	3.0	440	.0
JUL 21...	314	12	326	.36	.05	.30	5.1	380	.0
AUG 24...	324	16	--	3.5	.66	4.0	3.2	570	.1

	CODE FOR AGENCY COL- LECTING SAMPLE	TOTAL ALUM- INUM (AL) (UG/L)	TOTAL CAD- MIUM (CD) (UG/L)	TOTAL CHRO- MIUM (CR) (UG/L)	TOTAL COPPER (CU) (UG/L)	TOTAL LEAD (PB) (UG/L)	TOTAL MAN- GANESE (MN) (UG/L)	TOTAL NICKEL (NI) (UG/L)	TOTAL ZINC (ZN) (UG/L)
DATE	TIME	(UG/L)	(UG/L)	(UG/L)	(UG/L)	(UG/L)	(UG/L)	(UG/L)	(UG/L)
APR 04...	1045	9813	120	<3	<10	20	<50	110	40
									10

DELAWARE RIVER BASIN

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01467042 PENNYPACK CREEK AT PINE ROAD, PHILADELPHIA, PA

LOCATION.--Lat 40°05'23", long 75°04'10", Philadelphia County, Hydrologic Unit 02040202, on right bank 20 ft (6 m) below Pine Road, 300 ft (91 m) upstream from Stream "A" at north city limits of Philadelphia.

DRAINAGE AREA.--37.9 mi² (98.2 km²).

PERIOD OF RECORD.--August 1964 to September 1970, July 1974 to current year.

GAGE.--Water-stage recorder. Datum of gage is 80.41 ft (24.509 m) above mean sea level.

REMARKS.--Records good, except those for the period Oct. 25 to Feb. 25, which are fair.

AVERAGE DISCHARGE.--8 years (1964-1970, 1975-76), 58.5 ft³/s (1.657 m³/s), 20.97 in/yr (533 mm/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 3,770 ft³/s (107 m³/s) Dec. 21, 1973, gage height, 10.02 ft (3.054 m), from rating curve extended above 720 ft³/s (20.4 m³/s) on basis of step-backwater analysis; minimum, 5.2 ft³/s (0.15 m³/s) July 26, 27, 1966, gage height, 2.47 ft (0.753 m).

EXTREMES OUTSIDE OF PERIOD OF RECORD.--Flood of Aug. 28, 1971 reached a stage of 11.08 ft (3.377 m), from floodmark, discharge, 5,160 ft³/s (146 m³/s).

EXTREMES FOR CURRENT YEAR.--Peak discharges above base of 1,000 ft³/s (28.3 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	2245	1,060 30.0	6.40 1.951	Jan. 27	Unk.	1,300 37	Unknown
Dec. 26	Unk.	1,400 40	Unknown	May 1	2100	1,400 39.6	6.64 2.024
Jan. 1	Unk.	1,100 31	Unknown	Aug. 10	0015	1,140 32.3	6.09 1.856

Minimum discharge, 9.3 ft³/s (0.26 m³/s) Sept. 6, 12, gage height, 2.84 ft (0.866 m).

/ About.

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	47	58	540	100	63	374	388	56	33	15	12
2	61	47	52	110	230	60	97	158	110	20	19	19
3	58	47	51	185	110	60	78	55	37	45	14	14
4	54	45	49	130	90	77	82	47	33	53	13	13
5	52	45	49	80	84	99	70	44	31	23	13	13
6	52	45	52	90	78	68	65	42	30	21	21	12
7	54	45	51	150	74	57	62	52	31	51	37	13
8	52	75	49	250	74	56	63	46	31	24	223	14
9	54	41	47	80	74	60	60	38	31	23	143	13
10	54	67	44	75	80	82	57	37	30	18	228	20
11	67	51	42	68	110	114	56	122	30	26	23	14
12	56	272	37	67	90	81	55	149	28	21	18	12
13	49	452	35	70	72	249	56	42	26	18	16	13
14	47	109	35	210	70	80	55	39	25	18	136	12
15	45	75	36	70	68	70	53	39	26	18	142	13
16	43	65	41	65	68	116	51	37	26	18	27	92
17	81	60	36	58	80	95	48	38	70	18	19	52
18	263	56	35	56	90	67	45	181	26	16	17	21
19	334	54	33	54	120	66	44	133	26	15	15	14
20	109	52	32	54	80	63	43	46	25	15	15	15
21	71	210	32	55	70	75	43	87	26	16	14	19
22	60	107	34	54	190	62	65	43	26	16	13	17
23	56	67	35	52	110	58	46	37	24	36	15	15
24	52	63	33	50	80	59	40	36	23	24	15	17
25	69	61	31	49	74	59	41	35	22	18	14	15
26	51	58	600	200	70	57	81	34	22	16	16	34
27	49	67	100	570	67	57	41	34	20	15	48	22
28	49	56	60	300	65	65	40	32	20	14	18	17
29	49	51	50	120	63	55	40	31	31	15	13	16
30	52	51	80	105	---	54	38	45	42	20	12	84
31	49	---	200	86	---	57	---	37	---	15	12	---
TOTAL	2257	2541	2119	4103	2631	2341	1989	2184	984	699	1344	657
MEAN	72.8	84.7	68.4	132	90.7	75.5	66.3	70.5	32.8	22.5	43.4	21.9
MAX	334	452	600	570	230	249	374	388	110	53	228	92
MIN	43	41	31	49	63	54	38	31	20	14	12	12
CFSM	1.92	2.23	1.80	3.48	2.39	1.99	1.75	1.86	.87	.59	1.15	.58
IN.	2.22	2.49	2.08	4.03	2.58	2.30	1.95	2.14	.97	.69	1.32	.64

CAL YR 1975	TOTAL	37520	MEAN	103	MAX	1150	MIN	27	CFSM	2.72	IN	36.83
WTR YR 1976	TOTAL	23849	MEAN	65.2	MAX	600	MIN	12	CFSM	1.72	IN	23.41

DELAWARE RIVER BASIN

01467048 PENNYPACK CREEK AT LOWER RHAWN STREET BRIDGE, PHILADELPHIA, PA

LOCATION.--Lat 49°03'00", long 75°01'59", Philadelphia County, Hydrologic Unit 02040202, on left bank at downstream side of footbridge pier, 400 ft (122 m) downstream from Rhawn Street Bridge, 0.8 mi (1.3 km) upstream from Wooden Bridge Run, in Philadelphia.

DRAINAGE AREA.--49.8 mi² (129 km²).

PERIOD OF RECORD.--June 1965 to September 1970, July 1974 to current year.

GAGE.--Water-stage recorder. Datum of gage is 21.27 ft (6.483 m) above mean sea level.

REMARKS.--Records good.

AVERAGE DISCHARGE.--7 years (1965-1970, 1975-76), 76.0 ft³/s (2.152 m³/s), 20.73 in/yr (527 mm/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 5,160 ft³/s (146 m³/s) Aug. 27, 1967, gage height, 10.54 ft (3.213 m); minimum, 6.0 ft³/s (0.17 m³/s) Oct. 11, 1966, gage height, 1.97 ft (0.600 m).

EXTREMES FOR CURRENT YEAR.--Peak discharges above base of 1,250 ft³/s (35.4 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	1200	1,690 47.9	5.74 1.750	Jan. 27	2115	1,600 45.3	5.62 1.713
Jan. 1	0530	1,340 37.9	5.24 1.597	May 1	2000	*1,840 52.1	*5.93 1.807

Minimum discharge, 9.6 ft³/s (0.27 m³/s) Aug. 4, 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	78	53	77	640	122	74	409	491	96	60	17	16
2	73	53	64	147	286	72	111	244	189	25	18	22
3	67	52	63	239	126	72	83	64	44	54	16	23
4	63	48	61	162	104	89	89	52	37	189	15	17
5	61	49	60	94	98	109	72	49	35	38	16	16
6	61	47	64	107	95	93	67	46	33	24	15	15
7	60	48	62	171	88	70	64	54	33	128	40	16
8	57	94	60	313	89	67	67	63	34	31	193	18
9	64	50	57	106	89	73	63	43	33	28	177	17
10	61	83	54	92	93	102	59	42	32	23	297	27
11	84	62	48	83	130	123	58	138	31	49	29	25
12	71	330	45	83	100	108	56	219	30	28	23	16
13	53	500	44	89	88	250	56	48	27	21	21	16
14	52	110	43	252	87	95	56	44	26	20	139	16
15	51	80	45	89	77	82	54	42	29	20	151	17
16	50	75	53	79	81	131	53	43	29	20	33	125
17	90	70	45	72	104	115	51	41	101	19	25	83
18	306	66	44	70	110	79	51	185	31	18	22	35
19	373	63	41	66	147	77	49	168	34	17	19	18
20	128	60	40	68	87	75	51	48	28	17	18	17
21	84	250	41	68	79	83	51	93	33	18	18	24
22	71	130	43	66	225	81	77	48	26	19	18	19
23	66	80	44	64	120	71	63	37	26	90	17	16
24	62	76	40	63	89	70	45	36	26	25	18	16
25	88	70	38	61	85	69	47	35	26	20	17	16
26	65	68	708	148	81	67	93	33	24	16	17	49
27	60	88	139	674	79	68	44	33	23	16	61	33
28	59	70	73	387	76	81	42	32	22	16	27	19
29	52	63	60	137	74	62	41	31	31	17	18	17
30	56	62	95	115	---	60	39	54	32	25	16	110
31	51	---	219	101	---	68	---	39	---	18	16	---
TOTAL	2617	2950	2570	4906	3109	2736	2161	2595	1201	1109	1527	874
MEAN	84.4	98.3	82.9	158	107	88.3	72.0	83.7	40.0	35.8	49.3	29.1
MAX	373	500	708	674	286	250	409	491	189	189	297	125
MIN	50	47	38	61	74	60	39	31	22	16	15	15
CFSM	1.69	1.97	1.66	3.17	2.15	1.77	1.45	1.68	.80	.72	.99	.58
IN.	1.95	2.20	1.92	3.66	2.32	2.04	1.61	1.94	.90	.83	1.14	.65

CAL YR 1975	TOTAL	48559	MEAN 133	MAX 1750	MIN 26	CFSM 2.67	IN 36.27
WTR YR 1976	TOTAL	28355	MEAN 77.5	MAX 708	MIN 15	CFSM 1.56	IN 21.18

DELAWARE RIVER BASIN

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01467049 WOODEN BRIDGE RUN AT GRANT AVENUE, PHILADELPHIA, PA

LOCATION.--Lat 40°04'36", long 75°01'19", Philadelphia County, Hydrologic Unit 02040202, on left bank 20 ft (6 m) downstream from Grant Avenue Bridge in northeast Philadelphia.

DRAINAGE AREA.--1.06 mi² (2.75 km²).

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

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

REMARKS.--Records fair.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 709 ft³/s (20.1 m³/s) Sept. 26, 1975, gage height, 7.68 ft (2.341 m); minimum, 0.06 ft³/s (0.002 m³/s) Sept. 29, 1975, gage height, 2.05 ft (0.625 m).

EXTREMES FOR CURRENT YEAR.--Peak discharges above base of 150 ft³/s (4.25 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	2340	178 5.04	4.81 1.466	July 23	1705	229 6.49	5.17 1.576
July 4	1745	*409 11.6	*6.28 1.914				

Minimum discharge, 0.08 ft³/s (0.002 m³/s) Sept. 5, 8, but may have been less during period of plugged intakes Sept. 13-26; minimum gage height, 1.48 ft (0.451 m) July 9, caused by destruction of control.

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	.34	.50	11	1.7	.34	7.0	15	4.0	.15	.15	.14
2	.37	.34	.40	.62	3.8	.34	1.0	1.5	5.0	.15	.13	.26
3	.39	.38	.30	3.5	.56	.34	4.5	.20	.30	.52	.14	.13
4	.38	.38	.28	.76	.53	.34	.80	.18	.20	25	.15	.12
5	.37	.38	.28	.30	.49	.49	.50	.17	.15	.70	.16	.10
6	.38	.38	.32	.26	.47	.34	.50	.17	.19	.25	.18	.10
7	.40	.30	.28	5.2	.43	.34	.50	.25	.21	7.0	.18	.10
8	.40	2.6	.28	2.8	.43	.30	.60	.23	.20	.30	.54	.10
9	.76	.30	.52	.30	.73	.55	.45	.17	.15	.25	14	.11
10	.41	1.2	.45	.23	1.1	1.3	.30	.16	.40	.24	3.7	3.6
11	1.8	.34	.30	.26	1.3	1.6	.23	.18	.25	3.1	.15	.11
12	.69	15	.29	.43	.57	1.7	.23	1.8	.21	.25	.15	.12
13	.47	7.0	.29	1.2	.54	4.9	.26	.20	.20	.19	.14	.17
14	.47	.55	.29	1.6	.46	.50	.26	.17	.20	.19	3.1	.10
15	.52	.38	.45	.30	.44	.60	.26	.16	.23	.19	1.9	.11
16	.57	.34	.50	.30	.47	3.5	.26	.30	.23	.19	.15	12
17	4.4	.34	.35	.26	.68	.80	.26	1.2	.20	.25	.12	.15
18	12	.34	.23	.23	1.9	.34	.23	3.1	.15	.15	.12	.12
19	10	.34	.23	.23	.55	.34	.23	.90	.17	.13	.14	.10
20	1.3	.34	.23	.26	.34	.43	.26	.18	.20	.13	.12	.10
21	.49	3.9	.23	.34	.34	.38	.26	.70	.20	.14	.13	.30
22	.43	.49	.26	.23	3.7	.30	.33	.20	.23	.14	.13	.15
23	.43	.34	.30	.23	.49	.30	.17	.15	.26	7.7	.12	.10
24	.38	.34	.23	.23	.34	.30	.17	.14	.26	.20	.15	.09
25	1.1	.34	.23	.23	.34	.30	.23	.16	.23	.13	.17	.09
26	.38	.34	13	2.4	.34	.30	.29	.14	.26	.13	.18	4.0
27	.38	.55	.49	20	.34	.37	.17	.14	.26	.14	2.9	.43
28	.38	.30	.30	6.0	.34	.30	.17	.14	.30	.14	1.4	.12
29	.38	.30	.26	1.2	.34	.30	.17	.14	.30	.47	1.7	.12
30	.49	.30	3.3	.60	---	.35	.15	.30	.34	.19	1.4	10
31	.38	---	4.4	.46	---	.35	---	.15	---	.15	.13	---
TOTAL	41.63	38.77	29.77	61.96	24.06	22.94	20.74	28.58	15.48	48.86	33.83	33.24
MEAN	1.34	1.29	.96	2.00	.83	.74	.69	.92	.52	1.58	1.09	1.11
MAX	12	15	13	20	3.8	4.9	7.0	15	5.0	25	14	12
MIN	.33	.30	.23	.23	.34	.30	.15	.14	.15	.13	.12	.09
CFSM	1.26	1.22	.91	1.89	.78	.70	.65	.87	.49	1.49	1.03	1.05
IN.	1.46	1.36	1.04	2.17	.84	.80	.73	1.00	.54	1.71	1.19	1.17

CAL YR 1975 TOTAL 626.61 MEAN 1.72 MAX 27 MIN .13 CFSM 1.62 IN 21.97
WTR YR 1976 TOTAL 399.86 MEAN 1.09 MAX 25 MIN .09 CFSM 1.03 IN 14.02

DELAWARE RIVER BASIN

01467050 WOODEN BRIDGE RUN AT PHILADELPHIA, PA

LOCATION.--Lat 40°03'19", long 75°01'22", Philadelphia County, Hydrologic Unit 02040203, on left bank 200 ft (61 m) upstream from Penn Central Railroad bridge, 600 ft (183 m) southeast of Holme Avenue and 1,500 ft (457 m) upstream from mouth in Philadelphia.

DRAINAGE AREA.--3.35 mi² (8.68 km²).

PERIOD OF RECORD.--June 1965 to September 1970, October 1974 to current year.

GAGE.--Water-stage recorder and concrete control. Datum of gage is 29.69 ft (9.050 m) above mean sea level. Prior to July 6, 1966 water-stage recorder at site 300 ft (91 m) downstream at same datum.

REMARKS.--Records fair.

AVERAGE DISCHARGE.--7 years (1965-70, 1975-76), 5.02 ft³/s (0.142 m³/s), 20.34 in/yr (517 mm/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 1,860 ft³/s (52.7 m³/s) Aug. 27, 1967, gage height, 12.20 ft (3.719 m), from rating curve extended above 300 ft³/s (8.5 m³/s) on basis of flow through culvert at gage height 11.96 ft (3.645 m); minimum, 0.1 ft³/s (0.003 m³/s) Aug. 14, 15, 22, 1966, gage height, 1.44 ft (0.439 m) at former site, 3.28 ft (1.000 m) at present site.

EXTREMES FOR CURRENT YEAR.--Peak discharges above base of 300 ft³/s (8.50 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	0030	351 9.94	6.35 1.935	July 4	1830	*572 16.2	*7.51 2.289
May 1	2000	486 13.8	7.08 2.158	Aug. 9	2115	345 9.77	6.24 1.902

Minimum discharge, 0.33 ft³/s (0.009 m³/s) Sept. 15, gage height, 3.15 ft (0.960 m); minimum gage height, 3.02 ft (0.920 m) July 18, 19, 21, caused by destruction of control.

REVISIONS.--Revised figures for July-Sept. 1974, superseding those published in the report for 1975 are given herein.

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1										6.0	2.8	.99
2										3.0	24	9.5
3										3.0	4.7	35
4										3.0	20	14
5										6.0	2.3	1.6
6										3.0	1.3	1.6
7										3.0	8.8	37
8										3.0	1.5	2.1
9										3.0	9.3	1.4
10										6.2	2.7	1.5
11										3.0	1.1	1.4
12										3.1	1.1	1.3
13										2.9	1.3	1.5
14										2.8	1.3	17
15										2.8	1.2	1.1
16										2.9	1.2	.98
17										2.8	3.7	.98
18										2.8	1.3	1.0
19										2.8	.93	1.1
20										2.6	.98	1.1
21										2.0	.95	5.3
22										2.1	6.5	2.3
23										2.1	31	.91
24										12	1.7	.88
25										2.3	.97	.98
26										2.3	.99	1.3
27										2.7	1.3	1.2
28										2.7	8.0	19
29										2.8	2.8	13
30										16	1.0	3.0
31										2.8	1.0	---
TOTAL										117.5	147.72	180.02
MEAN										3.79	4.77	6.00
MAX										16	31	37
MIN										2.0	.93	.88
CFSM										1.13	1.42	1.79
IN.										1.30	1.64	2.00

DELAWARE RIVER BASIN

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01467050 WOODEN BRIDGE RUN AT PHILADELPHIA, PA.--Continued

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	1.9	1.4	1.9	50	4.2	1.9	24	62	13	2.3	1.3	.90
2	1.9	1.4	1.4	2.5	19	1.9	3.6	7.4	17	1.7	.80	1.3
3	1.9	1.4	1.2	16	2.5	1.9	2.3	1.9	2.1	10	.87	1.1
4	2.1	1.4	1.1	3.2	2.3	1.9	3.9	1.7	1.7	48	.74	.80
5	1.9	1.4	1.1	1.9	2.1	3.9	2.5	1.7	1.4	3.0	.74	.70
6	1.9	1.7	1.2	1.9	1.9	1.9	2.5	1.7	1.7	1.7	.74	.60
7	1.9	1.4	1.1	13	1.9	1.9	2.5	2.5	1.7	21	.57	.80
8	1.9	6.2	1.1	17	1.9	1.9	3.0	1.7	1.9	2.1	2.2	.70
9	2.1	1.9	1.9	1.9	2.3	1.9	2.8	1.4	1.6	2.1	36	1.0
10	1.9	4.2	1.9	1.9	3.6	4.4	2.2	1.4	2.5	1.7	10	6.0
11	3.4	1.9	1.4	1.9	5.6	5.0	2.1	7.0	1.9	6.2	1.2	1.0
12	2.1	48	1.2	1.9	1.9	2.5	2.1	9.7	1.7	1.9	.91	.65
13	1.7	34	1.2	2.3	1.9	20	2.1	1.4	1.4	1.4	.83	.50
14	1.4	2.5	1.2	9.3	1.9	1.9	2.1	1.3	1.4	1.3	6.6	.44
15	1.1	1.9	1.7	1.9	1.9	2.3	2.1	1.3	1.5	1.1	3.6	.43
16	.95	1.9	1.9	1.9	1.9	13	1.9	2.5	1.7	1.4	1.4	10
17	6.6	1.9	1.4	1.9	2.1	3.4	2.1	1.5	5.6	1.9	.86	2.0
18	48	1.9	1.2	1.7	5.6	2.1	2.1	10	1.9	1.4	.83	.74
19	57	1.9	1.2	1.7	3.4	1.9	2.1	9.0	1.7	1.2	.79	.56
20	5.6	1.9	1.2	1.7	1.9	1.9	2.1	2.0	1.7	1.4	.78	.54
21	1.9	12	1.2	1.9	1.9	1.9	2.1	5.0	1.9	1.4	.68	1.4
22	1.9	1.9	1.4	1.9	14	1.9	3.9	1.9	1.7	1.4	.61	.69
23	1.9	1.9	1.7	1.7	1.9	1.9	2.1	1.7	1.7	17	.72	.43
24	1.9	1.9	1.4	1.4	1.9	1.9	2.1	1.6	1.9	2.1	.92	.39
25	3.0	1.7	1.2	1.2	1.9	1.9	2.1	1.5	1.9	1.4	.80	.39
26	1.9	1.7	52	14	1.9	1.9	3.2	1.4	1.7	1.3	2.5	6.4
27	1.9	1.9	2.3	78	1.9	1.9	1.4	1.4	1.7	1.1	6.0	2.0
28	1.9	1.9	1.9	17	1.9	1.9	1.4	1.4	1.7	1.0	1.0	.67
29	1.9	1.4	1.9	3.6	1.9	1.7	1.7	1.4	1.7	3.9	1.1	.58
30	1.9	1.4	6.2	3.2	---	1.9	1.7	4.2	3.0	1.1	1.0	14
31	1.4	---	14	2.3	---	1.9	---	2.1	---	1.2	.70	---
TOTAL	168.75	147.9	112.7	261.7	99.0	98.2	91.8	152.7	84.0	145.7	87.79	57.71
MEAN	5.44	4.93	3.64	8.44	3.41	3.17	3.06	4.93	2.80	4.70	2.83	1.92
MAX	57	48	52	78	19	20	24	62	17	48	36	14
MIN	.95	1.4	1.1	1.2	1.9	1.7	1.4	1.3	1.4	1.0	.57	.39
CFSM	1.62	1.47	1.09	2.52	1.02	.95	.91	1.47	.84	1.40	.84	.57
IN.	1.87	1.64	1.25	2.91	1.10	1.09	1.02	1.70	.93	1.62	.97	.64

CAL YR 1975 TOTAL 2733.95 MFAN 7.49 MAX 98 MIN .95 CFSM 2.24 IN 30.35
WTR YR 1976 TOTAL 1507.95 MEAN 4.12 MAX 78 MIN .39 CFSM 1.23 IN 16.74

DELAWARE RIVER BASIN

01467053 PENNYPACK CREEK AT FRANKFORD AVENUE, PHILADELPHIA, PA

LOCATION.--Lat 40°02'38", long 75°01'15", Philadelphia County, Hydrologic Unit 02040202, 210 ft (64 m)
upstream from bridge on Frankford Avenue in Pennypack Park, Philadelphia.

DRAINAGE AREA.--not available.

PERIOD OF RECORD.--November 1975 to current year.

COOPERATION.--Water-quality data were furnished by the Pennsylvania Department of Environmental Resources.

WATER QUALITY DATA, NOVEMBER 1975 TO SEPTEMBER 1976

DATE	TIME	CODE FOR AGENCY COL- LECTING SAMPLE	SPE- CIFIC CON- DUCT- ANCE (MICRO- MHOS)	PH (UNITS)	TEMPER- ATURE (DEG C)	TUR- BID- ITY (JTU)	CHEM- ICAL OXYGEN DEMAND (HIGH LEVEL) (MG/L)	BIO- CHEM- ICAL OXYGEN DEMAND 5 DAY (MG/L)	HARD- NESS (CA+MG) (MG/L)
NOV									
05...	1045	9813	230	--	15.0	2	20	--	97
FEB									
04...	1130	9813	320	--	1.0	6	--	--	143
26...	1145	9813	270	--	8.0	5	--	--	102
MAR									
11...	1130	9813	600	--	6.0	7	--	--	275
APR									
04...	1505	9813	270	8.0	11.5	<5	--	1.5	154
MAY									
03...	1100	9813	210	--	16.0	15	--	--	67
JUN									
22...	1100	9813	360	--	25.0	6	--	--	92
JUL									
27...	0930	9813	420	--	--	3	--	--	122
AUG									
24...	1100	9813	440	--	25.0	2	--	--	134

DATE	MINERAL ACIDITY (METHYL ORANGE) AS CAC03 (MG/L)	ACIDITY CO2 AS CAC03 (MG/L)	DIS- SOLVED CAL- CIUM (CA) (MG/L)	DIS- SOLVED MAG- NE- SIUM (MR) (MG/L)	ALKA- LINITY AS CAC03 (MG/L)	DIS- SOLVED SULFATE (SO4) (MG/L)	DIS- SOLVED CHLO- RIDE (CL) (MG/L)	TOTAL RESI- DUAL CHLO- RINE (MG/L)	TOTAL FLUO- RIDE (F) (MG/L)
NOV									
05...	--	--	27	7.0	70	40	29	--	--
FEB									
04...	0	0	26	19	60	36	74	--	<.1
26...	0	0	25	9.5	62	36	42	--	.1
MAR									
11...	0	0	24	53	56	30	123	--	.2
APR									
04...	--	0	25	22	60	42	29	.00	.1
MAY									
03...	0	0	18	5.0	52	24	18	--	.1
JUN									
22...	0	0	28	5.0	70	30	37	--	.2
JUL									
27...	0	0	27	13	76	30	46	--	.1
AUG									
24...	0	0	30	14	78	38	49	--	.2

DELAWARE RIVER BASIN

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01467053 PENNYPACK CREEK AT FRANKFORD AVENUE, PHILADELPHIA, PA--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

	TOTAL FILT- RABLE RESIDUE	TOTAL NON- FILT- RABLE RESIDUE	TOTAL NITRATE (N) (MG/L)	TOTAL NITRITE (N) (MG/L)	TOTAL AMMONIA NITRO- GEN (N) (MG/L)	TOTAL PHOS- PHORUS (P) (MG/L)	TOTAL IRON (FE) (UG/L)	METHY- LENE BLUE ACTIVE SUB- STANCE (MG/L)
DATE	(MG/L)	(MG/L)	(MG/L)	(MG/L)	(MG/L)	(MG/L)	(UG/L)	(MG/L)
NOV 05...	204	10	4.1	.13	.05	.91	280	.1
FEB 04...	324	26	2.8	.10	.75	.77	360	.0
26...	210	26	3.2	.14	.60	.60	270	.0
MAR 11...	392	22	2.4	.07	.83	.62	470	.0
APR 04...	180	<5	3.2	.12	.44	.76	310	.0
MAY 03...	162	24	1.9	.08	.23	.13	880	.0
JUN 22...	248	2	2.5	.09	.13	1.0	470	.0
JUL 27...	242	20	3.7	.12	.11	1.8	270	.0
AUG 24...	246	24	3.7	.10	.05	1.8	330	.0

DATE	TIME	CODE FOR AGENCY COL- LECTING SAMPLE	TOTAL ALUM- INUM (AL) (UG/L)	TOTAL CAD- MIUM (CD) (UG/L)	TOTAL CHRO- MIUM (CR) (UG/L)	TOTAL COPPER (CU) (UG/L)	TOTAL LEAD (PB) (UG/L)	TOTAL MAN- GANESE (MN) (UG/L)	TOTAL NICKEL (NI) (UG/L)	TOTAL ZINC (ZN) (UG/L)
APR 04...	1505	9813	110	<10	<10	<10	<50	70	50	10

DELAWARE RIVER BASIN

01467083 TACONY CREEK NEAR JENKINTOWN, PA

LOCATION.--Lat 40°05'08", long 75°08'08", Montgomery County, Hydrologic Unit 02040202, on right bank 700 ft (213 m) downstream from State Highway 73 (Washington Lane) and 0.5 mi (0.8 km) south of Jenkintown Railroad Station.

DRAINAGE AREA.--5.25 mi² (13.6 km²).

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

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

REMARKS.--Records good.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 2,560 ft³/s (72.5 m³/s) Aug. 23, 1974, gage height, 7.54 ft (2.298 m), from rating curve extended above 150 ft³/s (4.25 m³/s) on basis of slope-area measurement of peak flow; minimum recorded, 1.6 ft³/s (0.045 m³/s) Sept. 13, 15, 1976, gage height, 0.65 ft (0.198 m).

EXTREMES FOR CURRENT YEAR.--Peak discharges above base of 400 ft³/s (11.3 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)
May 1	1830	448 12.7	3.18 0.969	Aug. 14	2200	*626 17.7	*3.59 1.094

Minimum discharge, 1.6 ft³/s (0.045 m³/s) Sept. 13, 15, gage height, 0.65 ft³/s (0.198 m), but may have been less during period of no gage-height record Aug. 19 to Sept. 7.

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	7.2	7.7	7.2	50	14	7.2	44	78	14	3.4	2.8	2.0
2	7.2	7.7	6.2	8.2	27	6.7	8.2	9.2	13	3.0	2.8	4.0
3	7.2	7.2	5.7	22	9.2	6.7	6.2	6.2	3.6	8.3	2.6	3.0
4	6.7	7.7	5.7	7.7	8.8	8.7	8.2	5.7	3.6	3.3	3.0	2.4
5	6.2	7.7	5.7	6.2	8.4	16	6.2	5.2	3.6	2.8	2.7	2.0
6	6.7	7.7	5.2	5.7	8.0	7.2	6.2	5.2	3.3	2.8	3.3	2.0
7	6.7	7.7	5.2	23	7.7	6.2	6.2	5.2	3.3	9.6	3.0	1.7
8	6.7	13	5.2	21	7.8	6.2	6.7	4.7	3.3	3.0	23	2.0
9	8.7	5.7	8.7	6.2	8.2	8.2	5.7	4.7	3.3	2.7	39	1.8
10	6.7	11	6.7	5.7	9.7	12	5.2	4.7	3.0	2.7	8.2	3.9
11	13	6.2	5.2	5.7	14	12	5.2	23	3.0	13	2.6	2.1
12	7.7	53	4.7	6.7	8.2	13	5.2	17	3.0	3.3	2.6	2.0
13	6.7	36	4.7	13	8.2	23	5.2	5.2	3.0	2.7	2.4	2.0
14	7.2	9.2	4.7	14	8.2	6.7	5.2	4.7	3.0	2.7	39	1.8
15	7.7	7.7	6.2	6.2	7.7	6.7	5.7	4.3	3.3	2.7	6.7	2.0
16	8.2	6.7	5.7	5.7	7.7	15	6.7	4.3	3.3	2.6	2.8	20
17	26	6.7	5.2	5.7	9.2	7.2	5.2	4.3	13	2.4	2.6	4.9
18	26	6.7	5.2	5.2	17	5.7	5.2	26	3.0	2.5	2.6	2.8
19	44	6.7	5.2	4.7	10	6.2	5.0	9.7	2.8	2.7	1.9	2.2
20	15	6.7	5.7	5.2	8.2	5.7	5.2	6.2	3.6	2.9	1.9	2.7
21	8.2	31	5.2	5.2	7.7	8.7	5.2	8.7	2.6	3.1	1.9	4.0
22	7.7	7.7	5.7	4.7	27	5.2	8.0	4.3	2.8	3.1	1.7	2.3
23	7.7	6.2	5.7	4.3	8.7	5.2	4.3	3.9	3.6	5.4	1.6	2.4
24	7.7	6.2	4.7	4.3	7.7	5.2	4.3	4.3	2.8	3.2	1.6	2.4
25	12	6.2	4.7	4.3	7.7	5.7	8.2	4.3	2.6	2.9	1.8	2.4
26	7.2	6.2	75	26	7.7	5.7	7.2	4.3	2.6	2.9	2.0	11
27	6.7	7.7	6.7	72	7.7	6.2	4.3	4.3	3.6	2.8	8.0	3.3
28	6.7	5.2	4.7	21	7.2	6.2	4.3	3.9	2.6	3.6	2.5	2.3
29	7.2	5.2	4.3	10	7.2	5.2	4.7	3.9	3.3	6.9	1.9	2.4
30	8.2	5.7	18	9.2	---	5.7	4.7	9.7	12	3.8	1.8	22
31	7.7	---	21	8.7	---	7.7	---	3.6	---	2.8	1.9	---
TOTAL	318.5	316.0	269.7	397.5	295.8	253.0	211.8	288.7	133.5	119.6	182.2	121.8
MEAN	10.3	10.5	8.70	12.8	10.2	8.16	7.06	9.31	4.45	3.86	5.88	4.06
MAX	44	53	75	72	27	23	44	78	14	13	39	22
MIN	6.2	5.2	4.3	4.3	7.2	5.2	4.3	3.6	2.6	2.4	1.6	1.7
CFSM	1.96	2.00	1.66	2.44	1.94	1.55	1.34	1.77	.85	.74	1.12	.77
IN.	2.26	2.24	1.91	2.82	2.10	1.79	1.50	2.05	.95	.85	1.29	.86

CAL YR 1975	TOTAL	4472.6	MEAN	12.3	MAX	149	MIN	3.0	CFSM	2.34	IN	31.69
WTR YR 1976	TOTAL	2908.1	MEAN	7.95	MAX	78	MIN	1.6	CFSM	1.51	IN	20.60

DELAWARE RIVER BASIN

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01467084 ROCK CREEK ABOVE CURTIS ARBORETUM NEAR PHILADELPHIA, PA

LOCATION.--Lat 40°04'54", long 75°09'03", Montgomery County, Hydrologic Unit 02040203, on right bank 60 ft (18 m) upstream from stone arch bridge, 1,600 ft (488 m) upstream from Washington Lane, Cheltenham Township and about 1.2 mi (1.9 km) upstream from mouth.

DRAINAGE AREA.--1.15 mi² (2.98 km²).

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

REVISED RECORDS.--WDR PA-75: 1971(M), 1973(P), 1974(P).

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

REMARKS.--Records fair.

AVERAGE DISCHARGE.--5 years, 2.54 ft³/s (0.072 m³/s), 30.02 in/yr (763 mm/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 796 ft³/s (22.5 m³/s) Aug. 23, 1974, gage height, 6.56 ft (1.999 m), from rating curve extended above 130 ft³/s (3.7 m³/s); minimum, 0.24 ft³/s (0.007 m³/s) June 20, 1976; minimum gage height, 2.07 ft (0.631 m) Apr. 24, 1976.

EXTREMES FOR CURRENT YEAR.--Peak discharges above base of 250 ft³/s (7.08 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)
June 1	2145	315 8.92	4.36 1.329	Aug. 14	2135	*360 10.2	*4.55 1.387

Minimum discharge, 0.24 ft³/s (0.007 m³/s) June 20; minimum gage height, 2.07 ft (0.631 m) Apr. 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	1.2	1.6	1.4	14	2.7	.99	15	28	8.0	.61	.76	.75
2	1.2	1.5	.99	1.6	4.0	.92	1.5	1.5	3.7	.41	.68	1.5
3	1.2	1.4	.92	5.8	.99	.92	1.1	.85	.73	2.1	.58	.87
4	1.1	1.4	.92	1.5	.90	2.4	1.5	.79	.65	.79	.58	1.0
5	1.1	1.4	.85	1.2	.82	6.1	1.1	.74	.64	.71	.57	1.0
6	1.1	1.4	.92	1.1	.75	2.0	1.1	.65	.64	.58	.57	1.1
7	1.1	1.4	.85	7.4	.69	1.4	1.1	.64	.64	2.4	.74	.84
8	.99	4.4	.85	6.3	.79	1.1	1.2	.65	.64	.71	6.5	.61
9	2.1	1.6	1.4	1.4	.99	1.1	1.0	1.3	.58	.71	18	.63
10	1.1	4.2	.99	1.2	2.0	3.4	.90	2.1	.58	.71	2.1	1.4
11	4.8	1.6	.79	1.1	3.1	4.4	.90	12	.58	5.3	.64	.71
12	1.6	1.9	.79	1.5	1.5	6.3	.90	3.3	.52	.64	.58	.64
13	.92	9.7	.79	4.4	.85	6.3	.85	.75	.52	.64	.64	.64
14	1.1	1.7	.79	4.4	.69	2.4	.85	.73	.46	.64	13	.71
15	.99	1.4	1.1	1.1	.61	1.6	.85	.76	.46	.64	2.6	.87
16	.92	1.2	.85	1.1	.61	4.6	.85	.76	.52	.79	.99	4.2
17	11	1.2	.79	.99	1.6	2.8	.92	.67	3.7	.76	.86	.58
18	6.1	1.2	.74	.92	4.6	1.7	.92	7.5	.54	.78	.81	.58
19	12	1.1	.74	.90	1.0	1.4	.90	2.1	.53	.63	.76	.58
20	3.3	1.1	.74	.99	.90	1.1	.94	1.1	.50	.63	.74	.58
21	1.9	10	.74	1.2	3.6	1.4	.94	2.1	.59	.62	.77	.87
22	1.9	1.4	.74	1.1	9.4	.99	2.0	.70	.67	.65	.72	.68
23	1.7	1.1	.74	.92	2.7	.99	1.9	.66	1.6	1.9	.64	.65
24	1.4	1.1	.65	.90	2.0	1.1	1.5	.58	.83	.86	.71	.75
25	3.1	.99	.65	.90	1.5	.99	1.9	.62	.61	.78	.82	.64
26	1.5	.99	25	10	1.2	1.1	1.9	.61	.75	.66	.78	5.2
27	1.4	1.4	1.2	21	1.1	1.1	.54	.59	.69	.58	3.3	1.1
28	1.4	.99	.85	4.2	.99	1.1	.54	.53	.49	.64	.92	.68
29	1.4	.99	.79	1.1	.99	.90	.54	.69	.68	2.5	.76	.63
30	1.7	.99	5.8	.85	---	1.0	.54	2.7	3.1	1.0	.73	8.5
31	1.6	---	7.2	.69	---	1.5	---	.71	---	.81	.71	---
TOTAL	73.92	79.45	62.57	101.76	53.57	65.10	46.68	77.38	35.14	32.18	63.56	39.49
MEAN	2.38	2.65	2.02	3.28	1.85	2.10	1.56	2.50	1.17	1.04	2.05	1.32
MAX	12	19	25	21	9.4	6.3	15	28	8.0	5.3	18	8.5
MIN	.92	.99	.65	.69	.61	.90	.54	.53	.46	.41	.57	.58
CFSM	2.07	2.30	1.76	2.85	1.61	1.83	1.36	2.17	1.02	.90	1.78	1.15
IN.	2.39	2.57	2.02	3.29	1.73	2.10	1.51	2.50	1.14	1.04	2.05	1.28

CAL YR 1975	TOTAL	1156.70	MEAN	3.17	MAX	87	MIN	.60	CFSM	2.76	IN	37.38
WTR YR 1976	TOTAL	730.80	MEAN	2.00	MAX	28	MIN	.41	CFSM	1.74	IN	23.62

DELAWARE RIVER BASIN

01467085 JENKINTOWN CREEK AT ELKINS PARK, PA

LOCATION.--Lat 40°04'45", long 75°06'36", Montgomery County, Hydrologic Unit 02040202, on right bank 20 ft (6 m) downstream from Cedar Road bridge, 0.5 mi (0.8 km) east of Elkins Park, and 1 mi (1.6 km) west of Rockledge.

DRAINAGE AREA.--1.17 mi² (3.03 km²).

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

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

REMARKS.--Records fair, except those below 1 ft³/s (0.028 m³/s), which are poor.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 315 ft³/s (8.92 m³/s) Jan. 27, 1976, gage height, 3.35 ft (1.021 m), from magnet; minimum, 0.06 ft³/s (0.002 m³/s) Aug. 21, 1976, gage height, 1.15 ft (0.351 m).

EXTREMES FOR CURRENT YEAR.--Peak discharges above base of 80 ft³/s (2.27 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	Unk.	91 2.58	2.38 0.725	June 1	2400	84 2.38	2.33 0.710
Jan. 27	Unk.	*315 8.92	*3.35 1.021	Aug. 8	0950	160 4.53	2.76 0.841
May 1	1920	80 2.27	2.30 0.701				

Minimum discharge, 0.06 ft³/s (0.002 m³/s) Aug. 21, 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	1.8	2.0	2.8	9.0	1.7	2.0	9.1	15	1.4	.60	.22	.22
2	1.8	1.8	2.0	2.5	3.0	2.0	2.3	2.4	3.6	.29	.19	.30
3	1.5	1.5	1.8	4.5	1.8	2.0	2.0	1.6	1.0	1.3	.14	.14
4	1.8	1.5	1.8	2.5	1.6	2.0	2.2	1.4	.92	1.0	.14	.15
5	1.8	1.5	1.8	1.8	1.5	4.0	1.8	1.3	.76	.37	.14	.15
6	1.5	1.5	2.0	2.0	1.5	2.5	1.7	1.4	.76	.32	.14	.21
7	1.5	1.5	1.8	6.0	1.5	2.3	1.6	1.5	.76	1.4	.14	.22
8	1.5	4.0	1.8	5.0	1.5	2.3	1.7	1.2	.73	.38	9.2	.22
9	1.8	2.0	3.0	2.0	1.5	2.3	1.6	1.1	.76	.33	6.2	.27
10	1.5	4.0	2.0	1.8	1.5	3.5	1.6	1.1	.76	.28	2.1	.46
11	2.4	2.2	1.8	1.7	2.5	4.5	1.6	3.0	.72	1.1	.42	.22
12	1.5	15	1.8	1.8	1.7	6.0	1.5	3.8	.60	.46	.26	.32
13	1.3	8.0	1.8	3.0	1.5	5.2	1.5	1.2	.57	.34	.21	.27
14	1.5	1.8	1.8	3.5	1.5	2.2	1.5	1.1	.56	.32	3.6	.21
15	1.3	1.8	2.5	1.6	1.5	2.0	1.5	1.1	.60	.32	1.2	.31
16	1.3	1.8	2.0	1.5	1.5	3.3	1.4	1.1	.60	.47	.31	2.2
17	6.0	1.6	1.9	1.5	1.5	2.4	1.3	1.2	2.2	.42	.22	.71
18	5.0	1.6	1.8	1.5	4.0	2.0	1.4	2.5	.60	.28	.20	.60
19	7.0	1.6	1.8	1.5	2.9	2.0	1.5	1.9	.60	.25	.16	.33
20	3.0	1.6	1.8	1.5	2.0	2.0	1.3	1.2	.67	.22	.20	.39
21	2.0	7.0	1.8	1.6	2.0	2.2	1.4	1.6	.60	.24	.14	.34
22	1.9	1.6	1.8	1.5	5.3	2.0	1.9	1.1	.60	.32	.15	.35
23	1.9	1.6	1.8	1.5	2.3	1.8	1.4	1.1	.60	.50	.15	.25
24	1.8	1.6	1.5	1.5	2.0	1.8	1.3	1.0	.58	.40	.14	.29
25	2.7	1.5	1.5	1.5	2.0	2.0	1.6	.96	.56	.32	.18	.29
26	2.0	1.5	15	5.0	2.0	2.0	1.7	.94	.51	.32	.22	1.0
27	1.8	3.0	1.8	15	2.0	2.1	1.3	.88	.56	.26	.80	.27
28	1.8	1.5	1.7	6.0	2.0	2.1	1.2	.79	.47	.22	.22	.33
29	1.8	1.5	2.0	1.6	2.0	1.8	1.4	.76	.43	.33	.22	.32
30	2.0	1.5	3.0	1.6	---	1.7	1.3	1.6	.96	.36	.22	2.1
31	2.0	---	6.0	1.6	---	1.9	---	1.0	---	.22	.22	---
TOTAL	68.5	80.6	77.7	94.6	59.3	77.9	54.6	57.83	25.04	13.94	28.05	13.44
MEAN	2.21	2.69	2.51	3.05	2.04	2.51	1.82	1.87	.83	.45	.90	.45
MAX	7.0	15	15	15	5.3	6.0	9.1	15	3.6	1.4	9.2	2.2
MIN	1.3	1.5	1.5	1.5	1.5	1.7	1.2	.76	.43	.22	.14	.14
CFSM	1.89	2.30	2.15	2.61	1.74	2.15	1.56	1.60	.71	.38	.77	.38
IN.	2.18	2.56	2.47	3.01	1.88	2.47	1.73	1.84	.80	.44	.89	.43

CAL YR 1975 TOTAL 964.52 MEAN 2.64 MAX 35 MIN .32 CFSM 2.26 IN 30.64
WTR YR 1976 TOTAL 651.50 MEAN 1.78 MAX 15 MIN .14 CFSM 1.52 IN 20.70

DELAWARE RIVER BASIN

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01467086 TACONY CREEK AT COUNTY LINE, PHILADELPHIA, PA

LOCATION.--Lat 40°02'33", long 75°06'47", Philadelphia County, Hydrologic Unit 02040203, on left bank 20 ft (6 m) upstream from dam, 120 ft (37 m) upstream from Adams Avenue bridge in Philadelphia.

DRAINAGE AREA.--About 16.7 mi² (43.2 km²).

PERIOD OF RECORD.--October 1965 to September 1970, July 1974 to current year.

GAGE.--Water-stage recorder and concrete control. Datum of gage is 61.11 ft (18.626 m) above mean sea level. Prior to June 1972 recording gage at site 1,600 ft (490 m) upstream at same datum.

REMARKS.--Records good.

AVERAGE DISCHARGE.--7 years (1965-70, 1975-76), 24.8 ft³/s (0.702 m³/s) 20.17 in/yr (512 mm/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 4,550 ft³/s (129 m³/s) Aug. 27, 1967, gage height, 13.19 ft (4.020 m), from rating curve extended above 350 ft³/s (9.91 m³/s) on basis of slope-area measurement at gage height 9.06 ft (2.761 m); minimum, 1.8 ft³/s (0.051 m³/s) Sept. 12, 1966, gage height, 2.82 ft (0.860 m).

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 1,100 ft³/s (31.2 m³/s) May 1, gage height, 5.55 ft (1.692 m), from rating curve extended above 150 ft³/s (4.25 m³/s) on basis of step-backwater study by U.S. Corps of Engineers; minimum, 4.0 ft³/s (0.11 m³/s) Aug. 23, Sept. 14, gage height, 2.16 ft (0.658 m).

REVISIONS.--Revised figures for June-Sept. 1974, superseding those published in the report for 1975 are given herein.

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1									30	30	7.2	10
2									50	12	85	15
3									17	12	23	150
4									16	11	98	50
5									15	45	28	17
6									15	13	10	22
7									13	10	33	130
8									14	9.6	10	19
9									15	10	33	14
10									12	20	14	14
11									12	11	8.9	13
12									12	8.9	8.0	13
13									12	8.8	8.2	16
14									11	8.4	8.3	55
15									11	8.3	7.0	12
16									53	8.2	6.8	12
17									20	8.2	39	12
18									11	8.6	11	12
19									10	9.9	7.2	12
20									11	8.2	6.9	12
21									45	7.8	6.4	35
22									14	7.4	11	14
23									103	8.2	219	10
24									16	58	16	9.8
25									13	10	11	9.2
26									12	9.4	11	9.7
27									11	9.4	11	8.3
28									34	8.2	62	119
29									22	7.1	15	46
30									11	50	13	12
31									---	8.0	12	---
TOTAL									641	444.6	839.9	883.0
MEAN									21.4	14.3	27.1	29.4
MAX									103	58	219	150
MIN									10	7.1	6.4	8.3
CFSM									1.28	.86	1.62	1.76
IN.									1.43	.99	1.87	1.97

DELAWARE RIVER BASIN

01467086 TACONY CREEK AT COUNTY LINE, PHILADELPHIA, PA.--Continued

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	20	17	24	136	37	21	125	193	54	13	8.1	6.3
2	19	17	19	27	75	21	34	34	57	9.1	6.3	13
3	17	17	19	59	32	21	27	21	15	20	5.5	9.1
4	17	17	19	27	29	26	34	19	13	57	6.3	8.1
5	17	19	19	23	26	42	27	17	13	10	5.5	7.2
6	17	17	19	21	24	24	26	17	13	9.1	5.5	7.2
7	19	17	19	66	23	23	26	17	12	39	7.2	6.3
8	19	35	19	63	23	23	29	16	12	10	9.2	6.3
9	26	13	24	23	24	27	26	16	12	9.1	9.2	7.2
10	19	29	24	23	29	37	26	15	11	8.1	47	17
11	34	16	17	21	39	39	27	59	11	43	10	8.1
12	24	140	13	24	24	32	29	61	11	13	8.1	7.2
13	15	99	13	34	24	73	29	17	11	8.1	7.2	6.3
14	15	26	13	45	23	26	27	16	11	8.1	73	6.3
15	16	21	15	20	23	24	23	15	12	7.2	37	7.2
16	16	20	16	20	23	48	24	16	12	9.1	11	59
17	52	19	15	20	27	29	21	15	39	8.1	8.1	19
18	82	19	15	19	45	23	21	59	12	7.2	7.2	20
19	118	17	13	19	32	23	20	37	12	6.3	6.3	8.1
20	37	17	15	21	23	23	21	19	12	6.3	6.3	7.2
21	21	77	15	19	21	29	21	32	10	6.3	6.3	11
22	19	23	15	17	75	23	35	15	10	7.2	6.3	10
23	19	19	16	16	26	21	21	15	12	26	5.5	9.1
24	19	19	13	16	23	21	20	13	11	9.1	5.5	9.1
25	32	17	13	16	23	21	23	13	10	7.2	6.3	9.1
26	17	17	186	70	23	21	35	15	9.1	6.3	6.3	35
27	17	20	23	196	21	23	20	13	9.1	6.3	26	12
28	17	17	17	61	21	29	20	12	10	6.3	8.1	8.1
29	17	19	16	30	21	21	20	13	10	11	6.3	7.2
30	20	20	40	27	---	21	20	34	24	15	6.3	61
31	16	---	54	26	---	26	---	15	---	8.1	6.3	---
TOTAL	813	840	758	1205	859	861	857	869	470.2	409.6	538.8	407.7
MEAN	26.2	28.0	24.5	38.9	29.6	27.8	28.6	28.0	15.7	13.2	17.4	13.6
MAX	118	140	186	196	75	73	125	193	57	57	92	61
MIN	15	13	13	16	21	21	20	12	9.1	6.3	5.5	6.3
CFSM	1.57	1.68	1.47	2.33	1.77	1.66	1.71	1.68	.94	.79	1.04	.81
IN.	1.81	1.87	1.69	2.68	1.91	1.92	1.91	1.94	1.05	.91	1.20	.91

CAL YR 1975	TOTAL	12764.0	MEAN	35.0	MAX	306	MIN	10	CFSM	2.10	IN	28.43
WTR YR 1976	TOTAL	8888.3	MEAN	24.3	MAX	196	MIN	5.5	CFSM	1.46	IN	19.80

DELAWARE RIVER BASIN

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01467089 FRANKFORD CREEK AT TORRESDALE AVENUE, PHILADELPHIA, PA

LOCATION.--Lat 40°00'25", long 75°05'33", Philadelphia County, Hydrologic Unit 02040203, on left bank at Worrel Avenue, 400 ft (122 m) upstream from Torresdale Avenue, 1.5 mi (2.4 km) west of Frankford Arsenal in Philadelphia.

DRAINAGE AREA.--33.8 mi² (87.5 km²).

PERIOD OF RECORD.--October 1965 to September 1970, October 1974 to current year.

REVISED RECORDS.--WDR PA-67: 1966(M).

GAGE.--Water-stage recorder, concrete control, and crest-stage gage. Datum of gage is 1.08 ft (0.329 m) above mean sea level.

REMARKS.--Records poor.

AVERAGE DISCHARGE.--7 years (1965-70, 1975-76), 54.5 ft³/s (1.54 m³/s), 21.91 in/yr (557 mm/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 8,550 ft³/s (242 m³/s) July 14, 1975, gage height, 13.47 ft (4.106 m), from rating curve extended above 1,300 ft³/s (36.8 m³/s); minimum, 3.3 ft³/s (0.093 m³/s) Sept. 29, 1968, gage height, 3.31 ft (1.009 m); minimum daily, 4.8 ft³/s (0.14 m³/s) Aug. 26, 1966.

EXTREMES FOR CURRENT YEAR.--Peak discharges above base of 3,000 ft³/s (85.0 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)
May 1	1915	4,490 127	10.22 3.115	July 4	1900	4,490 127	10.22 3.115
June 1	2230	*4,790 136	*10.49 3.197	Aug. 9	Unk.	3,330 94.3	9.10 2.774

Minimum daily discharge, 6.0 ft³/s (0.17 m³/s) Aug. 23, 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	35	20	35	300	80	23	393	648	100	22	9.0	6.8
2	25	20	25	35	200	23	45	409	150	10	9.0	15
3	23	20	25	150	60	23	30	35	25	55	7.0	10
4	23	20	25	50	30	30	45	22	20	191	9.0	9.0
5	23	30	25	30	27	60	30	21	15	13	7.0	8.0
6	23	20	25	25	26	40	32	20	15	12	7.0	8.0
7	30	20	25	150	26	30	35	20	14	137	7.0	7.0
8	30	70	25	200	26	25	50	20	13	15	250	7.0
9	45	15	40	40	28	50	28	19	13	12	190	8.0
10	35	50	40	30	35	70	32	18	13	9.4	100	40
11	100	25	25	25	60	80	40	150	13	157	20	15
12	45	350	17	50	35	40	45	200	13	20	9.0	8.0
13	25	300	15	80	30	200	38	30	13	8.6	9.0	7.6
14	20	50	15	100	27	50	30	20	13	17	200	7.6
15	20	35	22	35	26	25	35	16	15	8.7	40	10
16	25	32	22	25	26	100	60	20	30	27	15	150
17	100	30	24	21	30	30	45	15	80	9.0	10	25
18	500	30	19	21	80	28	35	150	15	8.0	8.0	50
19	250	28	21	21	50	26	32	60	13	8.0	7.0	10
20	60	25	16	22	30	27	30	25	13	8.0	7.0	9.0
21	30	200	16	20	25	39	45	70	15	8.0	7.0	10
22	25	45	16	18	200	25	70	25	12	15	7.0	12
23	25	30	20	17	50	27	31	41	20	35	6.0	10
24	25	30	15	17	35	26	29	15	15	15	6.0	10
25	45	20	15	17	30	25	35	14	11	10	8.0	12
26	20	20	600	200	25	25	70	20	11	8.0	10	114
27	20	30	50	500	24	41	40	15	13	8.0	70	27
28	20	20	25	150	23	60	37	14	14	8.0	15	9.0
29	20	25	20	50	23	25	34	20	13	15	8.0	8.0
30	35	30	100	30	---	26	29	70	58	20	7.0	202
31	20	---	150	27	---	61	---	20	---	10	6.8	---
TOTAL	1722	1640	1513	2456	1367	1360	1530	2242	778	899.7	1070.8	825.0
MEAN	55.5	54.7	48.8	79.2	47.1	43.9	51.0	72.3	25.9	29.0	34.5	27.5
MAX	500	350	600	500	200	200	393	648	150	191	250	202
MIN	20	15	15	17	23	23	28	14	11	8.0	6.0	6.8
CFSM	1.64	1.62	1.44	2.34	1.39	1.30	1.51	2.14	.77	.86	1.02	.81
IN.	1.90	1.80	1.67	2.70	1.50	1.50	1.68	2.47	.86	.99	1.18	.91

CAL YR 1975	TOTAL	28896.0	MEAN 79.2	MAX 1080	MIN 10	CFSM 2.34	IN 31.80
WTR YR 1976	TOTAL	17403.5	MEAN 47.6	MAX 648	MIN 6.0	CFSM 1.41	IN 19.15

DELAWARE RIVER BASIN

01467100 DELAWARE RIVER AT LEHIGH AVENUE, PHILADELPHIA, PA

LOCATION.--Lat 39°58'09", long 75°06'41", Philadelphia County, Hydrologic Unit 02040202, at center of river on a line midway between piers 14 and 18 Port Richmond Terminal through channel station +5.0 to a pierhead line on west bank of Petty Island.

DRAINAGE AREA.--7,940 mi² (20,600 km²).

PERIOD OF RECORD.--August 1949 to September 1970, February 1974 to current year.

REMARKS.--Samples collected about 5 to 15 ft (2 to 5 m) from bottom. Further information on this station is given in U.S. Geological Survey Water-Supply Paper 1262.

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

DATE	TIME	SPECIFIC CONDUCTANCE (MICRO-MHOS)	TEMPERATURE (DEG C)	HARDNESS (CA, MG) (MG/L)	NON-CARBONATE HARDNESS (MG/L)	DISSOLVED CALCIUM (CA) (MG/L)	DISSOLVED MAGNESIUM (MG/L)	DISSOLVED SODIUM (NA) (MG/L)	DISSOLVED POTASSIUM (K) (MG/L)	BICARBONATE (HCO3) (MG/L)	ALKALINITY AS CaCO3 (MG/L)	DISSOLVED SULFATE (SO4) (MG/L)
OCT 02...	1120	128	17.0	50	24	14	3.6	5.3	1.7	31	25	19
JAN 20...	1200	220	1.0	70	29	18	6.1	13	2.1	50	41	27
FEB 05...	1130	126	1.0	48	27	14	3.2	6.6	1.4	26	21	18
MAR 04...	1120	118	7.0	52	31	15	3.5	4.7	1.2	26	21	17
APR 01...	1200	148	11.0	52	23	14	4.2	7.1	1.4	36	30	20
MAY 06...	1245	145	14.5	52	21	13	4.7	7.2	1.4	38	31	21
JUN 10...	1120	169	20.5	55	26	14	4.8	10	1.9	35	29	25
JUL 01...	1140	175	25.5	65	30	18	4.9	9.7	1.8	43	35	25
AUG 13...	1130	185	24.5	65	28	17	5.5	10	1.9	45	37	27
SEP 02...	1230	193	24.0	64	31	17	5.2	12	2.1	40	33	31

DATE	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)	DISSOLVED NITRATE (N) (MG/L)	DISSOLVED NITRITE (N) (MG/L)	DISSOLVED NITRATE PLUS NITRITE (N) (MG/L)	DISSOLVED ORTHO. PHOSPHORUS (P) (MG/L)	DISSOLVED IRON (FE) (UG/L)	DISSOLVED MANGANESE (MN) (UG/L)
OCT 02...	9.3	.1	5.1	88	77	.72	.03	.75	.07	120	40
JAN 20...	20	.1	5.4	136	123	1.3	.03	1.3	.11	140	100
FEB 05...	11	.2	4.5	68	109	8.4	.05	8.4	.04	160	70
MAR 04...	7.2	.1	4.3	65	73	1.5	.03	1.5	.05	150	60
APR 01...	11	.1	3.2	87	86	1.5	.04	1.5	.07	90	70
MAY 06...	9.4	.1	3.2	78	83	.77	.05	.82	.06	110	30
JUN 10...	14	.1	.2	109	92	.85	.09	.94	.08	110	70
JUL 01...	12	.1	.1	122	106	2.9	.10	3.0	.06	80	0
AUG 13...	12	.1	.8	123	102	1.1	.12	1.2	.06	30	10
SEP 02...	16	.2	.4	119	108	.86	.14	1.0	.10	10	10

01467200 DELAWARE RIVER AT BENJAMIN FRANKLIN BRIDGE AT PHILADELPHIA, PA

LOCATION.--Lat 39°57'11", long 75°08'05", Philadelphia County, Hydrologic Unit 02040202, at center of river on a line 200 ft (61 m) upstream of bridge from the north side of pier 12 north through channel station +14.3 to pierhead line on New Jersey side of river.

DRAINAGE AREA.--7,993 mi² (20,700 km²).

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

PERIOD OF DAILY RECORD.--

SPECIFIC CONDUCTANCE: November 1963 to current year.

pH: October 1967 to current year.

WATER TEMPERATURES: November 1960 to current year.

DISSOLVED OXYGEN: November 1960 to current year.

REMARKS.--Water-quality recorder (30°57'10", 75°08'18") located at river end of pier 11 north about 100 ft (30 m) downstream from bridge. Samples collected approximately 5 to 15 ft (2 to 5 m) from bottom. Records of discharge are given for 01463500 Delaware River at Trenton, N.J. Further information on this station is given in U.S. Geological Survey Water-Supply Paper 1809-0.

EXTREMES FOR PERIOD OF DAILY RECORD.--

SPECIFIC CONDUCTANCE: Maximum, 1,450 micromhos Nov. 20, 1964; minimum, 80 micromhos Aug. 30, 1971.

pH: Maximum, 8.1 Mar. 19, 1975; minimum, 5.6 Feb. 27, 1970.

WATER TEMPERATURES: Maximum, 31.0°C July 13-15, 1966; minimum, freezing point on many days during winter periods.

DISSOLVED OXYGEN: Maximum, 14.1 mg/l Dec. 14, 1962; minimum, 0.0 mg/l on many days each year.

EXTREMES FOR CURRENT YEAR.--

SPECIFIC CONDUCTANCE: Maximum, 354 micromhos Jan. 26; minimum, 111 micromhos Feb. 26.

pH: Maximum, 7.7 Nov. 14; minimum, 6.2 on several days during June and August.

WATER TEMPERATURES: Maximum, 27.0°C June 30, July 1, Aug. 21, 22; minimum, 0.5°C on several days during Jan.

WATER QUALITY DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

DATE	TIME	SPECIFIC CONDUCTANCE (MICROMHOS)	TEMPERATURE (DEG C)	HARDNESS (CA, MG/L)	NON-CARBONATE HARDNESS (MG/L)	DISSOLVED CALCIUM (CA) (MG/L)	DISSOLVED MAGNESIUM (MG)	DISSOLVED SODIUM (NA) (MG/L)	DISSOLVED POTASSIUM (K) (MG/L)	BICARBONATE (HCO3) (MG/L)	ALKALINITY AS CaCO3 (MG/L)	DISSOLVED SULFATE (SO4) (MG/L)
OCT 02...	1100	130	17.0	58	33	16	4.3	5.6	1.8	30	25	20
JAN 20...	1145	226	1.0	88	47	25	6.3	13	2.0	50	41	28
FEB 05...	1115	128	1.0	43	21	12	3.1	6.7	1.5	26	21	19
MAR 04...	1100	118	7.0	42	20	11	3.5	5.4	1.2	27	22	18
APR 01...	1115	150	11.0	56	26	14	5.1	7.8	1.4	36	30	20
MAY 06...	1200	154	15.0	52	21	13	4.8	7.8	1.5	38	31	22
JUN 10...	1100	171	20.5	55	26	14	4.8	10	2.0	35	29	26
JUL 01...	1120	195	25.5	--	--	--	--	11	2.0	44	36	29
AUG 13...	1110	187	25.0	69	32	19	5.3	10	1.9	45	37	28
SEP 02...	1205	204	24.0	66	36	17	5.8	13	2.2	37	30	35

DATE	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)	DISSOLVED NITRATE (N) (MG/L)	DISSOLVED NITRITE (N) (MG/L)	DISSOLVED NITRITE PLUS NITRATE (N) (MG/L)	DISSOLVED ORTHOPHOSPHORUS (P) (MG/L)	DISSOLVED IRON (FE) (UG/L)	DISSOLVED MANGANESE (MN) (UG/L)
OCT 02...	9.3	.1	5.1	99	84	1.5	.03	1.5	.08	160	50
JAN 20...	20	.1	5.6	133	134	1.9	.03	1.9	.11	60	100
FEB 05...	11	.0	4.4	64	76	1.1	.02	1.1	.04	150	70
MAR 04...	7.9	.1	4.4	83	71	1.4	.03	1.4	.05	140	60
APR 01...	12	.1	3.3	92	104	5.0	.04	5.0	.07	110	80
MAY 06...	10	.1	2.8	75	85	.78	.05	.83	.07	50	30
JUN 10...	15	.1	.3	110	95	1.1	.09	1.2	.05	40	80
JUL 01...	14	.2	.3	121	--	.94	.26	1.2	.08	50	0
AUG 13...	12	.1	.4	123	105	1.1	.18	1.3	.06	30	10
SEP 02...	18	.2	.5	130	114	.83	.12	.95	.08	40	40

DELAWARE RIVER BASIN

01467200 DELAWARE RIVER AT BENJAMIN FRANKLIN BRIDGE AT PHILADELPHIA, PA--Continued

SPECIFIC CONDUCTANCE (MICROMHOS/CM AT 25°C), 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	---	---	---	---	---	---	183	175	178	238	215	231
2	---	---	---	---	---	---	208	177	197	233	207	220
3	---	---	---	224	214	---	215	201	208	236	204	218
4	---	---	---	231	216	223	213	201	207	226	204	213
5	---	---	---	232	222	227	214	201	209	205	193	200
6	171	161	---	241	225	235	214	203	209	214	186	205
7	178	164	171	242	227	236	212	200	207	219	199	211
8	190	170	179	246	233	239	243	203	213	220	204	211
9	231	180	190	249	235	242	241	201	216	216	202	211
10	239	200	210	251	241	246	216	199	205	217	204	212
11	213	200	206	251	219	234	204	194	200	221	207	215
12	213	200	206	234	214	227	206	196	201	243	218	227
13	215	204	209	223	212	217	208	200	204	240	225	233
14	217	206	211	219	204	213	210	202	206	251	231	240
15	222	211	216	210	185	198	213	205	209	255	237	244
16	234	217	223	193	172	182	221	210	214	258	242	250
17	239	222	230	179	158	172	222	212	218	263	249	256
18	236	226	232	170	154	162	227	216	222	279	250	258
19	---	---	---	169	155	162	227	215	220	276	253	265
20	---	---	---	166	155	162	234	214	224	284	264	275
21	---	---	---	172	156	163	241	219	228	291	271	280
22	---	---	---	176	158	165	241	223	233	291	273	284
23	---	---	---	179	166	171	258	230	242	286	257	277
24	---	---	---	193	171	176	251	236	245	294	268	283
25	---	---	---	196	178	184	250	232	242	295	278	287
26	---	---	---	192	177	186	290	237	255	354	279	297
27	---	---	---	192	182	187	250	228	241	306	288	---
28	---	---	---	185	171	178	235	224	232	---	---	---
29	---	---	---	182	169	176	257	229	239	147	126	---
30	---	---	---	185	172	178	246	236	242	134	119	127
31	---	---	---	---	---	---	247	228	239	127	113	122
MONTH	---	---	---	251	154	198	290	175	220	354	113	234
DAY	FEBRUARY			MARCH			APRIL			MAY		
	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	132	119	123	219	201	209	285	270	---	325	298	315
2	139	123	133	230	212	219	280	259	274	314	291	300
3	176	134	142	231	217	225	264	257	---	304	274	291
4	170	147	153	233	217	226	---	---	---	288	251	---
5	---	---	---	232	219	226	---	---	---	---	---	---
6	---	---	---	235	222	227	---	---	---	244	229	---
7	---	---	---	238	224	229	---	---	---	249	225	238
8	---	---	---	258	227	237	---	---	---	240	211	228
9	---	---	---	263	241	251	---	---	---	235	216	226
10	202	194	---	293	247	268	---	---	---	236	213	224
11	204	196	200	290	257	269	---	---	---	235	217	227
12	210	194	204	267	246	257	---	---	---	242	214	227
13	217	205	209	268	244	253	260	240	---	238	219	229
14	215	205	210	270	249	259	271	240	259	245	222	233
15	241	211	222	283	262	274	288	263	270	244	223	234
16	238	214	230	292	277	---	290	260	278	244	226	235
17	237	216	228	294	276	284	298	278	286	252	221	235
18	229	216	---	294	280	287	303	286	294	241	223	233
19	306	298	---	302	287	296	301	280	294	239	221	231
20	303	257	288	302	291	---	308	295	302	234	222	228
21	261	215	235	---	---	---	316	297	305	243	222	231
22	221	198	210	299	289	---	332	307	315	240	222	230
23	199	183	190	312	290	302	323	310	318	---	---	---
24	198	186	192	313	298	306	330	313	324	---	---	---
25	211	184	197	313	298	306	340	321	332	190	171	---
26	193	111	184	315	296	306	344	330	336	190	163	178
27	199	182	189	316	296	306	338	286	314	181	154	168
28	198	187	192	314	288	304	329	292	303	176	149	163
29	210	192	200	306	283	298	320	299	309	177	153	165
30	---	---	---	306	280	293	334	306	322	177	158	167
31	---	---	---	306	273	---	---	---	---	178	155	166
MONTH	306	111	---	316	201	266	---	---	---	325	149	224

01467200 DELAWARE RIVER AT BENJAMIN FRANKLIN BRIDGE AT PHILADELPHIA, PA--Continued

SPECIFIC CONDUCTANCE (MICROMHOS/CM AT 25°C), WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

DAY	JUNE			JULY			AUGUST			SEPTEMBER		
	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	175	154	163	287	262	276	267	247	256	313	236	248
2	174	154	166	284	238	257	266	239	255	253	237	244
3	176	160	170	258	215	230	269	240	256	273	250	---
4	180	164	173	236	204	218	274	250	260	273	251	263
5	186	170	179	224	202	212	277	253	263	277	257	266
6	184	173	179	217	191	209	278	253	265	275	256	266
7	185	175	181	224	183	208	279	257	268	278	261	269
8	215	176	197	224	182	202	287	260	274	284	268	276
9	217	207	213	217	178	198	291	260	276	291	272	281
10	225	213	219	217	177	196	268	258	---	295	272	286
11	231	220	226	214	181	196	---	---	---	294	275	285
12	236	221	230	221	182	197	---	---	---	294	279	286
13	245	224	235	210	187	200	---	---	---	299	279	290
14	245	229	239	214	190	204	---	---	---	308	279	295
15	248	238	243	217	193	207	---	---	---	312	289	303
16	256	237	248	220	201	210	---	---	---	319	292	305
17	260	241	254	217	199	211	---	---	---	322	292	306
18	274	243	259	221	202	211	---	---	---	320	294	310
19	273	248	262	219	202	210	---	---	---	318	287	304
20	274	249	262	220	203	211	---	---	---	325	290	306
21	276	251	265	225	209	216	---	---	---	327	294	309
22	273	254	265	224	209	219	---	---	---	333	298	313
23	273	246	261	230	220	224	230	204	---	333	297	315
24	270	247	258	232	217	226	236	207	221	330	302	316
25	269	251	259	236	223	230	242	219	229	334	301	321
26	270	259	264	244	228	235	249	216	233	343	299	325
27	277	256	267	253	234	242	251	219	237	342	312	327
28	278	260	270	252	239	246	254	228	241	337	305	322
29	290	262	271	258	244	252	252	230	240	343	307	324
30	287	269	280	259	248	255	249	222	236	334	302	319
31	---	---	---	268	248	257	260	225	242	---	---	---
MONTH	290	154	232	287	177	221	---	---	---	343	236	296

PH (UNITS), 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	---	---	---	---	---	---	7.0	6.9	7.0	7.3	7.2	7.2
2	---	---	---	---	---	---	7.0	6.8	6.9	7.3	7.2	7.3
3	---	---	---	6.8	6.6	---	7.0	6.8	6.9	7.3	7.2	7.2
4	---	---	---	6.9	6.7	6.8	7.0	6.8	6.9	7.3	7.2	7.2
5	---	---	---	7.0	6.7	6.8	6.9	6.7	6.9	7.3	7.1	7.2
6	6.7	6.5	---	7.0	6.7	6.8	6.9	6.7	6.8	7.2	7.0	7.1
7	6.8	6.6	6.7	7.0	6.7	6.9	6.9	6.7	6.8	7.1	7.0	7.1
8	6.8	6.6	6.7	7.0	6.8	6.9	6.9	6.8	6.8	7.2	7.0	7.1
9	6.8	6.6	6.7	7.0	6.8	6.9	6.9	6.7	6.8	7.2	7.1	7.1
10	6.8	6.6	6.7	7.0	6.8	6.9	6.9	6.7	6.8	7.2	7.1	7.2
11	6.8	6.6	6.7	7.4	6.8	7.1	6.9	6.8	6.9	7.2	7.0	7.1
12	6.9	6.7	6.8	7.4	7.2	7.3	7.0	6.8	6.9	7.2	7.0	7.1
13	6.9	6.7	6.8	7.4	7.3	7.4	6.9	6.8	6.8	7.2	6.9	7.0
14	6.9	6.6	6.8	7.7	7.4	7.5	7.0	6.8	6.9	7.2	6.9	7.1
15	6.9	6.7	6.8	7.6	7.6	7.6	6.9	6.8	6.9	7.5	7.1	7.2
16	6.9	6.7	6.8	7.6	7.6	7.6	6.9	6.8	6.9	7.3	7.0	7.2
17	6.9	6.7	6.8	7.6	7.5	7.6	6.9	6.7	6.8	7.3	7.0	7.2
18	6.9	6.7	6.8	7.6	7.5	7.5	6.9	6.7	6.8	7.3	7.1	7.2
19	---	---	---	7.5	7.4	7.5	6.9	6.8	6.8	7.3	6.8	7.2
20	---	---	---	7.5	7.4	7.4	6.9	6.7	6.8	7.2	7.0	7.1
21	---	---	---	7.5	7.3	7.4	6.9	6.7	6.8	7.1	6.9	7.0
22	---	---	---	7.5	7.4	7.4	6.9	6.8	6.8	7.1	7.0	7.1
23	---	---	---	7.5	7.4	7.5	7.0	6.8	6.9	7.2	7.0	7.1
24	---	---	---	7.5	6.8	7.1	7.1	6.9	7.0	7.1	6.9	7.0
25	---	---	---	6.9	6.8	6.9	7.1	6.9	7.0	7.1	6.8	6.9
26	---	---	---	7.0	6.9	6.9	7.1	6.9	7.0	7.1	6.8	7.0
27	---	---	---	7.0	6.8	6.9	7.1	7.0	7.0	7.0	7.0	7.0
28	---	---	---	7.0	6.9	6.9	7.2	7.1	7.1	7.0	7.0	7.0
29	---	---	---	7.0	6.9	6.9	7.4	7.1	7.2	7.4	6.8	6.9
30	---	---	---	7.0	6.9	6.9	7.4	7.2	7.3	6.9	6.8	6.8
31	---	---	---	---	---	---	7.3	7.2	7.3	6.9	6.8	6.8
MONTH	---	---	---	7.7	6.6	7.2	7.4	6.7	6.9	7.5	6.8	7.1

DELAWARE RIVER BASIN

01467200 DELAWARE RIVER AT BENJAMIN FRANKLIN BRIDGE AT PHILADELPHIA, PA--Continued

PH (UNITS), WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

DAY	FEBRUARY			MARCH			APRIL			MAY		
	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	6.9	6.8	6.9	6.9	6.8	6.9	6.8	6.6	---	6.7	6.5	6.6
2	7.0	6.9	6.9	6.9	6.8	6.9	7.0	6.7	6.8	6.7	6.5	6.6
3	7.1	7.0	7.0	6.9	6.7	6.8	7.0	6.9	---	6.8	6.6	6.7
4	7.0	7.0	7.0	6.9	6.8	6.8	---	---	---	6.8	6.7	---
5	---	---	---	6.9	6.8	6.8	---	---	---	---	---	---
6	---	---	---	7.0	6.8	6.9	---	---	---	6.7	6.7	---
7	---	---	---	7.0	6.8	6.9	---	---	---	6.8	6.6	6.7
8	---	---	---	7.0	6.9	7.0	---	---	---	6.7	6.6	6.7
9	---	---	---	7.0	6.9	6.9	---	---	---	6.7	6.6	6.6
10	6.9	6.8	---	7.0	6.9	6.9	---	---	---	6.7	6.5	6.6
11	7.0	6.9	6.9	7.0	6.9	6.9	---	---	---	6.6	6.4	6.5
12	7.1	6.9	7.0	7.0	6.8	6.9	---	---	---	6.6	6.4	6.5
13	7.1	6.9	7.0	7.0	6.8	7.0	6.8	6.7	---	6.5	6.4	6.5
14	7.1	6.9	7.0	7.1	6.9	7.0	6.8	6.7	6.8	6.6	6.3	6.5
15	7.1	6.9	7.0	7.1	6.9	7.0	6.8	6.7	6.8	6.5	6.3	6.4
16	7.1	6.9	7.0	7.0	6.8	---	6.8	6.7	6.8	6.6	6.3	6.4
17	7.0	6.9	6.9	7.1	6.9	7.0	6.8	6.7	6.7	6.5	6.3	6.4
18	7.0	6.9	---	7.1	6.9	7.0	6.8	6.7	6.7	6.5	6.3	6.4
19	7.0	6.9	---	7.0	6.8	7.0	6.8	6.7	6.7	6.5	6.4	6.5
20	7.0	7.0	7.0	7.0	6.8	---	6.8	6.6	6.6	6.6	6.5	6.6
21	7.0	6.9	6.9	---	---	---	6.7	6.6	6.6	6.6	6.5	6.5
22	6.9	6.8	6.9	6.9	6.6	---	6.7	6.5	6.6	6.7	6.5	6.6
23	6.9	6.8	6.8	6.9	6.8	6.8	6.6	6.5	6.6	7.1	6.8	7.0
24	6.9	6.8	6.9	6.9	6.8	6.8	6.6	6.5	6.5	7.0	6.6	6.7
25	7.0	6.9	6.9	6.9	6.8	6.9	6.6	6.5	6.5	6.6	6.3	6.5
26	6.9	6.8	6.8	6.9	6.8	6.9	6.6	6.5	6.5	6.6	6.5	6.5
27	6.9	6.8	6.8	6.9	6.7	6.8	6.6	6.5	6.6	6.6	6.5	6.5
28	6.9	6.8	6.8	6.9	6.7	6.8	6.7	6.5	6.6	6.5	6.4	6.5
29	6.9	6.8	6.8	6.9	6.8	6.8	6.7	6.5	6.6	6.5	6.4	6.4
30	---	---	---	6.8	6.7	6.8	6.7	6.5	6.6	6.5	6.3	6.4
31	---	---	---	6.8	6.7	---	---	---	---	6.5	6.3	6.4
MONTH	7.1	6.8	---	7.1	6.6	6.9	---	---	---	7.1	6.3	6.5
DAY	JUNE			JULY			AUGUST			SEPTEMBER		
	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	6.4	6.3	6.4	6.9	6.8	6.9	6.8	6.6	6.6	6.5	6.3	6.4
2	6.5	6.2	6.3	7.0	6.8	6.9	6.6	6.5	6.6	6.5	6.3	6.4
3	6.4	6.2	6.3	7.0	6.9	6.9	6.6	6.5	6.6	6.5	6.3	---
4	6.4	6.3	6.3	7.0	6.8	6.9	6.6	6.5	6.6	6.5	6.3	6.4
5	6.5	6.3	6.4	7.0	6.8	6.9	6.6	6.4	6.5	6.5	6.3	6.4
6	6.5	6.3	6.4	6.9	6.8	6.9	6.5	6.4	6.5	6.6	6.4	6.5
7	6.4	6.2	6.3	7.1	6.8	6.9	6.5	6.4	6.4	6.6	6.4	6.5
8	6.4	6.2	6.3	7.0	6.8	6.9	6.5	6.4	6.5	6.6	6.4	6.5
9	6.5	6.2	6.3	6.9	6.8	6.9	6.7	6.4	6.5	6.6	6.3	6.4
10	6.4	6.2	6.3	6.9	6.8	6.8	6.7	6.7	---	6.5	6.4	6.5
11	6.4	6.2	6.3	6.9	6.7	6.8	---	---	---	6.5	6.4	6.5
12	6.4	6.2	6.3	6.9	6.7	6.8	---	---	---	6.5	6.4	6.5
13	6.5	6.2	6.3	6.9	6.7	6.8	---	---	---	6.5	6.3	6.4
14	6.7	6.4	6.5	6.9	6.7	6.8	---	---	---	6.6	6.3	6.5
15	6.8	6.6	6.7	6.9	6.7	6.8	---	---	---	6.6	6.4	6.5
16	6.9	6.7	6.8	7.1	6.8	6.9	---	---	---	6.5	6.3	6.4
17	6.9	6.7	6.8	6.8	6.8	6.8	---	---	---	6.6	6.3	6.5
18	6.9	6.7	6.8	6.9	6.8	6.8	---	---	---	6.6	6.4	6.5
19	6.9	6.7	6.8	6.9	6.8	6.8	---	---	---	6.6	6.4	6.5
20	6.9	6.7	6.8	6.9	6.8	6.8	---	---	---	6.6	6.4	6.5
21	6.9	6.8	6.8	6.9	6.5	6.7	---	---	---	6.6	6.4	6.5
22	6.9	6.8	6.9	6.7	6.5	6.6	---	---	---	6.6	6.4	6.5
23	6.9	6.8	6.9	6.6	6.5	6.5	6.5	6.4	---	6.6	6.4	6.5
24	7.0	6.8	6.9	6.6	6.3	6.5	6.5	6.3	6.4	6.6	6.4	6.5
25	7.0	6.8	6.9	6.7	6.5	6.6	6.4	6.3	6.4	6.6	6.4	6.5
26	7.0	6.9	6.9	6.7	6.5	6.6	6.5	6.2	6.3	6.6	6.3	6.5
27	7.0	6.9	6.9	6.6	6.6	6.6	6.4	6.2	6.3	6.6	6.4	6.5
28	7.0	6.9	7.0	6.6	6.6	6.6	6.4	6.2	6.3	6.6	6.4	6.5
29	7.0	6.8	6.9	6.6	6.6	6.6	6.4	6.3	6.4	6.6	6.4	6.5
30	7.0	6.8	6.9	6.6	6.6	6.6	6.5	6.3	6.4	6.7	6.5	6.6
31	---	---	---	6.6	6.5	6.6	6.5	6.3	6.4	---	---	---
MONTH	7.0	6.2	6.6	7.1	6.3	6.8	---	---	---	6.7	6.3	6.5

01467200 DELAWARE RIVER AT BENJAMIN FRANKLIN BRIDGE AT PHILADELPHIA, PA--Continued

TEMPERATURE (°C) OF WATER, 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	18.0	18.0	18.0	---	---	---	8.0	7.0	7.5	4.0	3.5	4.0
2	18.0	17.0	18.0	---	---	---	7.0	6.0	6.5	4.0	3.5	3.5
3	17.0	17.0	17.0	14.5	14.0	---	6.5	6.0	6.0	4.0	3.5	3.5
4	17.0	16.5	17.0	14.5	14.0	14.0	6.0	5.5	6.0	4.0	3.5	3.5
5	17.0	16.5	17.0	14.5	14.0	14.5	6.0	5.5	6.0	3.5	2.0	3.0
6	17.0	17.0	17.0	14.5	14.0	14.5	6.0	5.5	6.0	2.0	1.5	2.0
7	17.0	17.0	17.0	14.5	14.0	14.5	5.5	5.5	5.5	2.0	2.0	2.0
8	17.0	17.0	17.0	14.5	14.0	14.5	5.5	5.0	5.5	2.0	1.5	2.0
9	18.0	17.0	17.0	15.0	14.0	14.5	7.0	5.0	6.0	2.0	1.5	1.5
10	17.0	17.0	17.0	15.0	14.0	14.5	6.5	6.5	6.5	1.5	1.0	1.5
11	17.0	16.5	17.0	15.0	14.0	14.5	6.5	6.0	6.0	1.5	0.5	1.0
12	17.0	16.5	16.5	14.5	14.0	14.0	6.0	6.0	6.0	1.5	1.0	1.0
13	16.5	16.0	16.5	14.5	14.0	14.0	6.0	5.5	6.0	1.5	0.5	1.0
14	17.0	16.5	16.5	14.0	13.0	14.0	6.0	5.5	6.0	3.0	1.5	2.0
15	17.0	16.5	17.0	13.5	10.5	12.0	6.0	5.5	6.0	3.0	2.0	2.5
16	17.0	17.0	17.0	11.5	10.0	10.5	6.5	6.0	6.0	3.0	2.0	2.5
17	17.0	16.5	17.0	10.0	9.0	10.0	6.0	6.0	6.0	3.0	2.0	3.0
18	17.0	17.0	17.0	9.5	9.0	9.5	6.0	5.5	6.0	2.0	1.5	2.0
19	---	---	---	9.5	9.0	9.5	6.0	5.0	5.5	2.0	1.0	1.5
20	---	---	---	9.5	9.0	9.5	5.5	5.0	5.0	2.0	1.0	1.5
21	---	---	---	9.5	9.0	9.5	5.0	4.5	5.0	1.5	1.0	1.5
22	---	---	---	9.5	9.0	9.5	5.0	4.5	4.5	1.5	1.0	1.5
23	---	---	---	9.5	9.0	9.0	5.5	4.5	5.0	1.0	0.5	1.0
24	---	---	---	9.5	9.0	9.0	5.0	4.5	5.0	1.0	0.5	1.0
25	---	---	---	9.5	9.0	9.0	4.5	4.0	4.5	1.0	0.5	1.0
26	---	---	---	9.5	9.0	9.0	5.0	4.5	4.5	2.0	0.5	1.0
27	---	---	---	9.0	8.5	9.0	4.5	4.0	4.5	---	---	---
28	---	---	---	8.5	8.0	8.5	4.0	3.5	4.0	---	---	---
29	---	---	---	8.5	8.0	8.0	4.0	3.0	3.5	1.0	0.5	---
30	---	---	---	8.0	7.0	7.5	3.5	3.0	3.5	1.5	0.5	1.0
31	---	---	---	---	---	---	4.0	3.5	3.5	1.5	1.0	1.5
MONTH	---	---	---	15.0	7.0	11.5	8.0	3.0	5.5	4.0	0.5	2.0
DAY	FEBRUARY			MARCH			APRIL			MAY		
	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	2.0	1.5	1.5	8.0	6.0	6.5	11.0	11.0	---	16.5	16.0	16.0
2	3.0	1.5	2.0	8.0	6.5	7.5	11.5	11.0	11.0	16.0	15.5	16.0
3	2.0	1.5	1.5	8.0	7.0	8.0	11.0	11.0	---	16.0	15.0	15.5
4	2.0	1.5	1.5	8.0	8.0	8.0	---	---	---	15.5	14.5	---
5	---	---	---	8.5	8.0	8.5	---	---	---	---	---	---
6	---	---	---	8.5	8.0	8.5	---	---	---	15.0	15.0	---
7	---	---	---	8.0	8.0	8.0	---	---	---	15.5	15.0	15.5
8	---	---	---	8.0	7.0	7.5	---	---	---	15.5	15.0	15.5
9	---	---	---	8.0	7.0	7.0	---	---	---	15.5	15.0	15.5
10	1.5	1.5	---	7.0	6.5	7.0	---	---	---	16.0	15.0	15.5
11	2.0	1.5	2.0	7.0	6.5	7.0	---	---	---	16.0	15.5	16.0
12	3.0	2.0	2.5	7.0	6.0	6.5	---	---	---	16.5	16.0	16.5
13	3.5	3.0	3.0	7.0	5.5	6.0	10.0	9.5	---	16.5	16.0	16.5
14	3.5	3.0	3.5	6.0	5.5	6.0	10.0	9.5	10.0	17.0	16.5	17.0
15	4.5	3.5	4.0	6.0	6.0	6.0	10.5	10.0	10.5	18.5	17.0	17.5
16	5.0	4.0	4.5	6.0	5.5	---	11.5	10.5	11.0	18.5	18.0	18.5
17	5.5	4.5	5.0	6.0	5.5	5.5	11.5	11.0	11.5	19.0	18.5	18.5
18	6.0	5.5	---	5.5	5.5	5.5	13.0	11.5	12.0	19.5	19.0	---
19	6.5	6.0	---	6.0	5.5	6.0	13.5	12.0	13.0	19.0	18.5	18.5
20	6.5	6.0	6.5	6.0	6.0	---	14.5	13.5	14.0	18.5	18.0	18.0
21	6.0	5.5	5.5	---	---	---	15.5	14.0	14.5	18.5	18.0	18.0
22	6.0	5.5	5.5	7.0	6.5	---	16.0	15.0	15.5	18.5	18.0	18.5
23	5.5	5.0	5.5	7.0	6.5	7.0	16.5	15.5	16.0	---	---	---
24	5.5	5.0	5.5	8.0	7.0	7.5	16.5	16.0	16.0	---	---	---
25	5.5	5.0	5.5	9.0	8.0	8.5	16.5	16.0	16.0	18.5	18.0	---
26	5.5	5.0	5.0	10.0	8.5	9.0	16.5	16.0	16.0	18.0	17.0	18.0
27	5.5	5.0	5.0	10.5	9.0	10.0	16.5	15.5	16.0	18.0	17.0	18.0
28	5.5	5.0	5.5	10.5	10.0	10.5	16.0	15.5	16.0	18.5	18.0	18.0
29	6.5	5.5	6.0	11.0	10.0	10.5	16.0	15.5	16.0	18.5	18.0	18.0
30	---	---	---	11.0	10.5	11.0	16.5	15.5	16.0	18.5	18.0	18.0
31	---	---	---	11.0	10.5	---	---	---	---	18.5	18.0	18.0
MONTH	6.5	1.5	---	11.0	5.5	7.5	---	---	---	19.5	14.5	---

DELAWARE RIVER BASIN

01467200 DELAWARE RIVER AT BENJAMIN FRANKLIN BRIDGE AT PHILADELPHIA, PA--Continued

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

DAY	JUNE			JULY			AUGUST			SEPTEMBER		
	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	19.0	18.5	18.5	27.0	26.5	26.5	25.5	24.0	25.0	25.0	24.5	24.5
2	19.0	18.5	19.0	26.5	26.5	26.5	25.5	25.0	25.0	24.5	24.0	24.5
3	19.0	18.5	19.0	26.5	26.0	26.5	25.5	25.0	25.0	24.5	24.0	---
4	19.0	18.5	19.0	26.5	25.5	26.0	25.5	25.0	25.0	24.0	24.0	24.0
5	19.5	19.0	19.0	26.0	25.5	26.0	25.5	25.0	25.0	24.0	23.5	24.0
6	19.0	19.0	19.0	26.0	25.5	26.0	25.5	25.0	25.5	23.5	23.5	23.5
7	19.5	19.0	19.5	26.0	25.0	25.5	25.5	25.5	25.5	23.5	23.0	23.5
8	20.0	19.5	20.0	25.5	25.0	25.5	25.5	25.0	25.5	23.5	23.0	23.5
9	21.0	20.0	20.5	25.5	24.5	25.0	25.0	24.5	25.0	24.0	23.5	23.5
10	21.5	20.5	21.0	25.5	24.5	25.0	25.5	21.5	23.5	23.5	23.5	23.5
11	21.5	21.0	21.5	25.5	24.5	25.0	26.5	24.0	25.5	23.0	23.0	23.0
12	22.0	21.5	22.0	25.0	24.5	25.0	26.0	24.0	25.0	23.0	22.0	22.5
13	22.0	21.5	22.0	24.5	24.0	24.5	25.0	23.0	24.0	23.0	22.0	22.5
14	22.0	21.5	22.0	24.0	24.0	24.0	24.0	23.0	23.5	23.5	23.0	23.0
15	23.0	21.5	22.0	24.0	23.5	24.0	25.0	23.0	24.0	23.0	23.0	23.0
16	23.5	22.0	23.0	24.5	22.0	24.0	24.0	22.0	23.5	23.0	23.0	23.0
17	23.5	23.0	23.5	24.5	24.0	24.0	24.5	23.0	---	23.5	23.0	23.0
18	24.0	23.0	23.5	24.5	24.0	24.0	24.5	20.5	22.5	23.5	23.0	23.0
19	24.0	23.5	24.0	24.5	24.0	24.5	23.5	20.5	22.0	23.0	23.0	23.0
20	24.5	24.0	24.5	25.0	24.0	24.5	26.0	22.0	24.0	23.0	23.0	23.0
21	25.0	24.5	24.5	24.5	24.5	24.5	27.0	24.5	25.5	23.0	23.0	23.0
22	25.0	24.5	24.5	24.5	24.5	24.5	27.0	24.5	26.0	23.0	22.0	22.0
23	25.5	24.5	25.0	24.5	24.0	24.5	25.0	23.5	24.5	22.0	21.5	21.5
24	26.0	25.0	25.5	24.5	23.5	24.5	25.0	25.0	25.0	21.5	21.5	21.5
25	26.0	25.5	25.5	24.5	23.5	24.5	25.5	25.0	25.0	21.5	21.0	21.0
26	26.0	25.5	26.0	24.5	24.0	24.5	25.5	25.0	25.5	21.0	21.0	21.0
27	26.0	25.5	26.0	24.5	24.5	24.5	25.5	25.5	25.5	21.0	21.0	21.0
28	26.5	26.0	26.5	25.0	24.5	24.5	25.5	25.5	25.5	21.0	21.0	21.0
29	26.5	26.0	26.5	25.0	24.5	25.0	25.5	25.5	25.5	20.5	20.5	20.5
30	27.0	26.5	26.5	25.5	25.0	25.0	25.5	25.0	25.0	20.5	20.0	20.5
31	---	---	---	25.5	25.0	25.5	25.0	24.5	25.0	---	---	---
MONTH	27.0	18.5	22.5	27.0	22.0	25.0	27.0	20.5	24.5	25.0	20.0	22.5

DISSOLVED OXYGEN (DO), MG/L, 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	---	---	---	---	---	---	---	---	---	11.6	10.7	10.9
2	---	---	---	---	---	---	9.7	8.7	---	12.1	10.8	11.3
3	---	---	---	6.4	5.6	---	---	---	---	11.9	11.0	11.4
4	---	---	---	6.4	5.2	5.7	---	---	---	11.7	11.1	11.5
5	---	---	---	6.4	4.8	5.6	---	---	---	12.4	11.7	12.1
6	5.3	4.5	---	6.3	4.6	5.2	---	---	---	12.6	11.7	11.9
7	5.4	4.3	4.8	6.0	4.1	5.0	---	---	---	12.2	11.0	11.6
8	5.1	4.0	4.4	5.5	3.9	4.6	---	---	---	11.9	10.8	11.2
9	4.9	3.3	3.9	5.5	3.6	4.5	9.9	8.7	---	11.8	10.7	11.1
10	4.3	2.9	3.4	5.2	3.5	4.4	9.6	8.5	9.0	11.6	10.4	10.9
11	4.0	2.4	3.2	4.7	3.8	---	10.1	8.9	9.5	11.5	9.9	10.5
12	3.9	2.6	3.1	---	---	---	9.9	8.3	---	10.7	9.6	10.1
13	4.0	2.9	3.4	---	---	---	---	---	---	10.4	9.1	9.6
14	5.4	2.8	4.0	---	---	---	---	---	---	11.7	9.0	10.4
15	5.4	3.6	4.3	---	---	---	---	---	---	11.8	11.0	11.4
16	5.0	3.5	4.2	---	---	---	---	---	---	11.8	10.5	11.0
17	5.2	3.5	4.2	---	---	---	---	---	---	11.1	10.4	10.7
18	4.2	3.0	3.6	---	---	---	---	---	---	11.1	10.4	10.6
19	---	---	---	10.0	8.9	---	---	---	---	10.7	10.1	10.4
20	---	---	---	10.0	8.6	9.3	---	---	---	10.5	9.7	10.1
21	---	---	---	10.3	8.5	9.3	---	---	---	10.1	9.4	9.7
22	---	---	---	9.9	8.8	9.3	---	---	---	9.8	9.1	9.5
23	---	---	---	9.5	8.5	9.0	10.3	9.6	---	10.2	9.0	9.5
24	---	---	---	9.5	7.9	8.8	10.7	9.4	10.0	9.6	8.6	9.0
25	---	---	---	9.0	7.9	8.4	10.7	9.2	9.8	9.1	8.2	---
26	---	---	---	8.7	7.7	8.2	11.0	9.3	10.0	9.7	9.2	---
27	---	---	---	8.4	6.9	7.7	11.2	9.5	10.3	---	---	---
28	---	---	---	8.0	7.3	---	11.2	9.9	10.6	---	---	---
29	---	---	---	---	---	---	12.1	10.6	11.3	12.9	11.6	---
30	---	---	---	---	---	---	12.1	10.9	11.5	12.8	12.1	12.4
31	---	---	---	---	---	---	11.6	10.8	11.2	12.9	12.1	12.5
MONTH	---	---	---	---	---	---	---	---	---	12.9	8.2	10.8

DELAWARE RIVER BASIN

151

01467200 DELAWARE RIVER AT BENJAMIN FRANKLIN BRIDGE AT PHILADELPHIA, PA--Continued

DISSOLVED OXYGEN (DO), MG/L, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

DAY	FEBRUARY			MARCH			APRIL			MAY		
	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	13.0	12.6	12.9	12.2	11.8	12.0	8.4	7.8	---	4.3	2.6	3.3
2	13.4	12.0	12.9	11.8	10.4	11.2	9.4	7.4	8.2	4.7	2.4	3.3
3	13.6	12.9	13.4	10.9	10.3	10.6	9.2	8.7	---	5.1	2.9	4.2
4	13.6	13.0	---	10.8	9.9	10.3	---	---	---	6.8	3.9	---
5	---	---	---	10.3	9.5	9.8	---	---	---	---	---	---
6	---	---	---	9.8	9.2	9.5	---	---	---	7.4	6.5	---
7	---	---	---	9.6	8.9	9.3	---	---	---	7.2	5.7	6.5
8	---	---	---	9.4	8.7	9.1	---	---	---	7.0	5.3	6.1
9	---	---	---	10.1	8.1	9.1	---	---	---	6.5	5.0	5.7
10	12.9	12.5	---	10.0	9.2	9.5	---	---	---	6.4	4.6	5.5
11	12.8	12.2	12.5	10.2	8.9	9.4	---	---	---	5.8	4.5	5.1
12	12.7	11.9	12.3	9.9	8.6	9.4	---	---	---	5.4	4.1	4.7
13	12.3	11.7	12.0	10.4	8.7	9.7	9.1	8.3	---	5.0	4.1	4.5
14	12.0	11.5	11.8	10.1	9.4	9.7	8.7	7.6	8.2	5.2	3.9	4.4
15	11.8	11.3	11.5	9.6	9.0	9.3	8.4	7.1	7.8	5.0	3.7	4.2
16	11.6	10.9	11.2	10.2	9.7	---	7.9	6.7	7.4	5.0	3.6	4.1
17	11.3	10.7	11.0	10.2	9.8	9.9	7.8	6.6	7.0	4.5	3.0	3.7
18	11.1	10.5	---	10.1	9.3	9.6	7.6	5.9	6.6	3.7	2.2	2.8
19	11.4	10.9	---	9.7	8.7	9.1	7.5	5.9	6.5	3.9	2.5	3.1
20	11.5	11.0	11.2	9.2	7.7	8.4	7.0	5.4	6.3	4.1	2.9	3.4
21	11.6	10.6	11.2	8.8	7.6	7.9	7.2	5.0	5.9	3.7	2.4	3.1
22	12.0	11.5	11.8	10.4	9.1	9.5	6.5	4.0	5.1	3.5	2.5	3.0
23	12.1	11.5	11.8	10.6	9.3	9.9	5.0	3.4	4.1	---	---	---
24	11.6	10.7	11.1	10.2	9.0	9.7	4.5	2.6	3.4	---	---	---
25	10.7	10.3	---	10.1	8.8	9.4	3.7	2.1	2.8	5.7	2.3	---
26	12.2	11.8	---	9.7	7.7	8.9	3.5	2.1	2.6	5.5	3.7	4.5
27	12.5	11.7	12.0	9.1	7.7	8.4	4.8	2.5	3.4	5.4	3.7	4.5
28	12.7	12.0	12.3	8.6	7.4	8.0	4.8	3.3	3.9	5.2	3.5	4.2
29	12.4	12.0	12.2	8.4	7.4	7.9	4.9	3.2	3.8	4.3	3.0	3.6
30	---	---	---	8.2	7.1	7.7	4.3	3.0	3.4	3.9	2.7	3.3
31	---	---	---	8.0	6.5	---	---	---	---	4.4	2.7	3.4
MONTH	13.6	10.3	---	12.2	6.5	9.4	---	---	---	7.4	2.2	4.2
DAY	JUNE			JULY			AUGUST			SEPTEMBER		
	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	4.0	2.7	3.4	2.4	.9	1.5	1.6	.8	1.1	1.0	.1	.4
2	4.3	2.6	3.2	3.6	1.0	2.3	2.1	1.0	1.4	.4	0	.1
3	3.5	2.1	2.5	5.3	1.9	3.6	2.0	1.0	1.3	1.6	.5	.9
4	3.6	1.7	2.3	5.8	2.6	4.0	1.3	.9	1.1	1.5	.2	.6
5	2.4	1.3	1.7	5.8	2.9	3.9	1.1	.1	.6	1.5	.3	.7
6	2.1	1.0	1.5	6.6	2.8	4.1	.3	0	.1	2.4	.6	1.3
7	2.4	1.1	1.6	6.5	2.9	4.0	.3	0	.1	3.2	1.2	1.9
8	3.7	1.0	2.1	5.4	2.7	4.0	.1	0	---	2.5	1.1	1.7
9	3.5	1.6	2.2	4.8	2.7	3.5	---	---	---	2.2	.8	1.3
10	3.1	1.6	2.2	4.9	2.5	3.4	---	---	---	1.5	1.5	---
11	2.6	1.5	1.8	4.7	2.6	3.2	---	---	---	---	---	---
12	2.6	1.3	1.7	4.1	2.3	3.0	---	---	---	---	---	---
13	2.4	1.4	1.7	3.8	2.2	2.8	---	---	---	2.2	.8	---
14	2.1	1.3	1.5	3.7	2.1	2.6	---	---	---	2.4	.5	1.1
15	1.9	1.0	1.3	3.1	.8	2.0	---	---	---	1.5	.3	.7
16	2.1	.9	1.3	2.2	.8	1.3	---	---	---	1.0	.2	.4
17	2.2	1.0	1.4	2.2	1.0	1.5	---	---	---	1.2	.2	.4
18	1.9	1.0	1.2	2.5	1.1	1.7	---	---	---	1.5	.2	.5
19	1.3	.9	1.1	3.0	1.3	2.0	---	---	---	1.9	.2	.7
20	1.4	.9	1.0	3.6	1.4	2.2	---	---	---	1.7	.3	.8
21	2.1	.9	1.2	3.5	1.6	2.4	---	---	---	1.3	.3	.6
22	1.8	.8	1.2	3.4	1.3	2.1	---	---	---	1.6	.2	.8
23	2.2	.8	1.2	2.8	1.1	1.8	2.6	.9	---	1.6	.4	.9
24	3.4	.8	1.5	2.3	.9	1.5	2.2	.6	1.2	1.5	.6	1.0
25	3.2	1.0	1.8	2.9	.9	1.8	1.2	.3	.7	1.2	.3	.5
26	3.2	1.0	1.7	3.2	1.5	2.2	1.2	.1	.5	.5	.1	---
27	3.4	1.0	1.7	2.8	1.6	2.0	.9	0	.2	---	---	---
28	3.3	1.1	1.8	2.6	1.2	1.7	.5	0	.2	---	---	---
29	3.1	1.2	2.1	1.9	1.0	1.3	.5	.1	.3	1.9	.9	---
30	2.3	.9	1.4	1.6	.9	1.1	1.3	.2	.7	2.5	.4	1.2
31	---	---	---	1.3	.8	1.0	1.2	.3	.7	---	---	---
MONTH	4.3	.8	1.7	6.6	.8	2.4	---	---	---	3.2	0	---

DELAWARE RIVER BASIN

01467300 DELAWARE RIVER AT WHARTON STREET, PHILADELPHIA, PA

LOCATION.--Lat 39°44'54", long 75°08'11", Philadelphia County, Hydrologic Unit 02040202, at center of river on a line between piers 53 and 55 South through channel station +22.6 to coal pier on New Jersey side of river.

DRAINAGE AREA.--8,000 mi² (20,700 km²).

PERIOD OF RECORD.--August 1949 to September 1970, February 1974 to current year.

REMARKS.--Samples collected about 5 to 15 ft (2 to 5 m) from bottom.

WATER QUALITY DATA, WATER YEAR OCTOBER 1975 TO SEPTFMRER 1976

DATE	TIME	SPE- CIFIC CON- DUCT- ANCE (MICRO- MHOS)	TEMPER- ATURE (DEG C)	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)	DIS- SOLVED PO- TAS- SIUM (K) (MG/L)	BICAR- BONATE (HCO3) (MG/L)	ALKA- LINITY AS CACO3 (MG/L)	DIS- SOLVED SULFATE (SO4) (MG/L)
OCT												
02...	1030	135	17.0	61	35	18	4.0	5.6	1.9	32	26	22
JAN												
20...	1130	213	1.0	69	28	18	5.8	13	2.0	50	41	28
FEB												
05...	1030	131	1.0	45	24	13	3.1	6.8	1.5	26	21	18
MAR												
04...	1040	123	7.0	41	20	11	3.3	5.4	1.3	26	21	18
APR												
01...	1050	150	11.0	61	34	17	4.6	7.7	1.4	34	28	21
MAY												
06...	1145	161	15.0	56	22	14	5.2	8.8	1.6	42	34	23
JUN												
10...	1045	177	20.5	55	29	14	4.9	11	2.1	32	26	27
JUL												
01...	1100	212	26.0	75	39	20	6.1	12	2.1	44	36	31
AUG												
13...	1045	191	25.0	68	31	18	5.6	11	1.9	45	37	29
SEP												
02...	1130	218	24.0	76	58	20	6.4	14	2.4	22	18	45

DATE	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)	DIS- SOLVED NITRATE (N) (MG/L)	DIS- SOLVED NITRITE (N) (MG/L)	DIS- SOLVED NITRATE PLUS NITRITE (N) (MG/L)	DIS- SOLVED ORTHO. PHOS- PHORUS (P) (MG/L)	DIS- SOLVED IRON (FE) (UG/L)	DIS- SOLVED MAN- GANESE (MN) (UG/L)
OCT											
02...	9.4	.1	5.2	94	90	1.6	.05	1.6	.07	190	70
JAN											
20...	20	.1	5.6	130	124	1.5	.04	1.5	.13	60	100
FEB											
05...	11	.1	4.4	68	77	1.3	.01	1.3	.05	170	80
MAR											
04...	7.9	.1	4.4	73	70	1.3	.03	1.3	.06	90	60
APR											
01...	12	.1	3.4	91	89	.96	.04	1.0	.08	100	80
MAY											
06...	11	.1	2.4	96	91	.87	.07	.94	.08	80	30
JUN											
10...	15	.2	.3	106	95	.87	.06	.93	.09	70	100
JUL											
01...	16	.2	.2	145	121	2.5	.01	2.5	.10	40	10
AUG											
13...	13	.1	.3	124	107	1.1	.18	1.3	.07	40	10
SEP											
02...	19	.2	.5	142	123	.86	.11	.97	.05	60	90

DELAWARE RIVER BASIN

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01467400 DELAWARE RIVER AT LEAGUE ISLAND, PHILADELPHIA, PA

LOCATION.--Lat 39°52'56", long 75°10'43", Philadelphia County, Hydrologic Unit 02040202, at center of river on a line from north side of naval yard pier 4 through channel station +51.3 to covered wharf at Red Bank, N.J. (below ferry slip).

DRAINAGE AREA.--8,070 mi² (20,900 km²).

PERIOD OF RECORD.--August 1949 to September 1970, February 1974 to current year.

REMARKS.--Samples collected about 5 to 15 ft (2 to 5 m) from bottom.

WATER QUALITY DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

DATE	TIME	SPECIFIC CONDUCTANCE (MICRO-MHOS)	TEMPERATURE (DEG C)	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)	DISSOLVED POTASSIUM (K) (MG/L)	BICARBONATE (HCO3) (MG/L)	ALKALINITY AS CaCO3 (MG/L)	DISSOLVED SULFATE (SO4) (MG/L)
OCT 02...	1000	149	17.5	58	34	16	4.3	6.2	2.0	29	24	27
JAN 20...	1000	232	1.0	74	38	20	5.8	15	2.2	44	36	35
FEB 05...	1000	134	1.0	44	27	12	3.5	7.3	1.4	21	17	25
MAR 04...	1000	137	7.0	49	26	14	3.5	7.0	1.4	28	23	20
APR 01...	1015	178	10.5	60	29	15	5.4	10	1.7	37	30	26
MAY 06...	1100	221	15.5	73	36	18	6.7	12	2.1	44	36	36
JUN 10...	1000	198	20.0	60	42	15	5.4	13	2.3	21	17	36
JUL 01...	1015	249	25.5	81	46	21	6.9	15	2.6	42	34	45
AUG 13...	1010	223	25.0	78	43	21	6.3	14	2.3	43	35	38
SEP 02...	1100	253	24.0	75	56	19	6.6	17	2.6	23	19	52

DATE	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)	DISSOLVED NITRATE (N) (MG/L)	DISSOLVED NITRITE (N) (MG/L)	DISSOLVED NITRATE PLUS NITRITE (N) (MG/L)	DISSOLVED ORTHO. PHOSPHORUS (P) (MG/L)	DISSOLVED IRON (FE) (UG/L)	DISSOLVED MANGANESE (MN) (UG/L)
OCT 02...	11	.1	5.7	110	91	.91	.05	.96	.06	160	80
JAN 20...	22	.1	6.1	140	135	1.5	.03	1.5	.07	20	130
FEB 05...	12	.1	4.7	73	82	1.1	.02	1.1	.02	150	100
MAR 04...	10	.1	4.7	81	83	1.7	.03	1.7	.07	190	80
APR 01...	15	.1	4.0	101	106	2.1	.07	2.2	.09	130	100
MAY 06...	16	.1	1.9	117	119	.93	.07	1.0	.06	40	70
JUN 10...	18	.2	.5	134	105	.85	.07	.92	.05	90	130
JUL 01...	19	.2	.4	169	137	1.3	.01	1.3	.07	50	-50
AUG 13...	17	.2	.5	136	127	1.3	.13	1.4	.07	60	40
SEP 02...	23	.2	.8	168	138	1.1	.14	1.2	.04	30	110

DELAWARE RIVER BASIN

01467470 SCHUYLKILL RIVER AT PORT CARBON, PA

LOCATION.--Lat 40°41'42", long 76°09'37", Schuylkill County, Hydrologic Unit 02040203, on left bank, 1,500 ft (457 m) upstream from Mill Creek, 2 mi (3.2 km) east of Pottsville.

DRAINAGE AREA.--27.1 mi² (70.2 km²).

PERIOD OF RECORD.--April 1975 to current year.

PERIOD OF DAILY RECORD.--

SUSPENDED SEDIMENT DISCHARGE: April 1975 to current year.

EXTREMES FOR PERIOD OF DAILY RECORD.--

SEDIMENT CONCENTRATIONS: Maximum, 2,570 mg/l Sept. 24, 1975; minimum 4 mg/l June 18, Sept. 1, 1976.

SEDIMENT LOADS: Maximum, 1,780 tons (1,615 t) Jan. 27, 1976; minimum, 0.29 tons (0.26 t) Sept. 5, 6, 1976.

EXTREMES FOR CURRENT YEAR.--

SEDIMENT CONCENTRATIONS: Maximum, 1,090 mg/l Jan. 27; minimum, 4 mg/l June 18, Sept. 1.

SEDIMENT LOADS: Maximum, 1,780 tons (1,615 t) Jan. 27; minimum, 0.29 tons (0.26 t) Sept. 5, 6.

WATER QUALITY DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	SPECIFIC CONDUCTANCE (MICRO-MHOS)	TURBIDITY (JTU)	HARDNESS (CA, MG/L)	NON-CARBONATE HARDNESS (MG/L)	DIS-SOLVED CALCIUM (CA) (MG/L)	DIS-SOLVED MAGNESIUM (MG)	DIS-SOLVED SODIUM (NA) (MG/L)	SODIUM ADSORPTION RATIO
MAY 05...	1400	47	316	7	120	120	23	14	4.2	.2

DATE	DIS-SOLVED PHOSPHATE (K) (MG/L)	BICARBONATE (HCO3) (MG/L)	ALKALINITY AS CaCO3 (MG/L)	DIS-SOLVED SULFATE (SO4) (MG/L)	DIS-SOLVED CHLORIDE (CL) (MG/L)	DIS-SOLVED FLUORIDE (F) (MG/L)	DIS-SOLVED SOLIDS (RESIDUE AT 180 C) (MG/L)	TOTAL NON-FILTERABLE RESIDUE (MG/L)	TOTAL NITRITE PLUS NITRATE (N) (MG/L)	TOTAL AMMONIA NITROGEN (N) (MG/L)
MAY 05...	1.1	0	0	130	1.7	.1	193	15	.09	.15

DATE	TOTAL ORGANIC NITROGEN (N) (MG/L)	TOTAL KjELDAHL NITROGEN (N) (MG/L)	TOTAL NITROGEN (N) (MG/L)	TOTAL PHOSPHORUS (P) (MG/L)	DIS-SOLVED ALUMINUM (AL) (UG/L)	DIS-SOLVED ARSENIC (AS) (UG/L)	DIS-SOLVED CADMIUM (CD) (UG/L)	DIS-SOLVED CHROMIUM (CR) (UG/L)	DIS-SOLVED COBALT (CO) (UG/L)
MAY 05...	.35	.50	.59	.12	180	0	1	<10	48

DATE	DIS-SOLVED COPPER (CU) (UG/L)	DIS-SOLVED IRON (FE) (UG/L)	DIS-SOLVED LEAD (PB) (UG/L)	DIS-SOLVED MANGANESE (MN) (UG/L)	DIS-SOLVED MERCURY (HG) (UG/L)	DIS-SOLVED NICKEL (SE) (UG/L)	DIS-SOLVED SILVER (AG) (UG/L)	DIS-SOLVED ZINC (ZN) (UG/L)	OIL AND GREASE (MG/L)
MAY 05...	10	2400	110	1800	<.5	0	0	150	0

01467470 SCHUYLKILL RIVER AT PORT CARBON, PA--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	105	68	18	48	28	3.6	53	?	4.8
2	90	54	13	48	18	2.2	50	.	1.9
3	76	40	7.8	46	72	8.8	47	43	5.4
4	68	35	6.1	42	91	11	45	32	3.4
5	60	36	5.6	41	238	27	43	14	2.0
6	56	156	24	39	21	1.4	42	17	1.8
7	53	102	14	39	12	1.3	42	14	1.5
8	48	65	8.4	47	84	12	40	12	1.2
9	45	54	6.2	38	14	1.7	39	19	2.0
10	44	35	4.5	62	522	121	43	38	4.3
11	58	96	18	56	360	52	39	10	1.3
12	48	13	2.1	97	281	136	38	12	1.1
13	43	11	1.6	146	194	77	37	11	1.1
14	48	9	1.4	131	148	52	36	11	1.0
15	41	13	1.4	117	38	12	34	5	.91
16	38	12	1.1	105	36	11	35	15	1.4
17	41	16	1.6	91	47	11	32	13	1.5
18	125	963	470	82	95	22	33	18	1.6
19	171	491	305	74	43	8.6	31	18	1.5
20	170	217	104	68	190	36	30	16	1.5
21	147	120	47	94	278	84	30	15	1.4
22	125	78	27	77	27	5.3	30	15	1.2
23	108	50	15	68	17	3.8	30	15	1.2
24	96	60	15	65	33	5.6	27	14	1.0
25	88	35	8.5	64	26	4.2	28	10	.71
26	77	32	7.0	61	35	6.3	52	514	62
27	72	59	11	63	22	4.2	59	38	5.6
28	65	70	12	58	13	2.2	51	14	2.5
29	61	43	7.3	53	16	2.2	50	19	2.4
30	55	39	6.6	51	16	2.1	51	38	5.6
31	52	74	10	---	---	---	60	35	5.8
TOTAL	2374	---	1180.2	2071	---	727.5	1257	---	130.62
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	66	44	8.8	148	67	26	55	11	2.9
2	57	25	3.7	173	62	29	53	22	2.6
3	61	25	4.5	119	28	8.6	52	68	8.4
4	58	15	2.3	106	27	7.6	54	139	23
5	53	9	1.8	93	31	7.7	51	6	.83
6	49	7	1.3	87	77	18	48	6	.74
7	48	11	1.3	78	45	9.3	47	17	2.1
8	49	12	1.6	72	60	12	45	15	1.7
9	44	10	1.1	64	46	8.8	44	18	2.0
10	41	14	1.6	62	96	16	44	31	3.6
11	41	8	1.2	60	140	25	43	20	2.8
12	41	6	1.1	59	70	11	42	28	3.0
13	37	21	2.4	58	54	14	53	178	27
14	46	69	8.6	56	203	32	50	32	5.4
15	42	14	1.8	54	34	4.7	48	23	2.8
16	38	31	3.2	69	249	69	50	25	3.3
17	37	9	.87	102	419	113	48	19	3.0
18	34	16	1.5	91	139	31	46	26	3.1
19	32	15	1.2	95	144	34	47	19	3.3
20	34	11	.98	88	43	13	48	26	3.2
21	33	16	1.4	85	26	8.7	50	112	17
22	31	5	.87	97	338	97	48	23	3.6
23	31	6	.93	49	61	15	46	20	3.4
24	32	10	.84	40	47	11	45	16	2.9
25	30	11	.85	75	29	5.5	45	19	3.2
26	172	737	415	70	19	3.2	44	34	4.8
27	627	1090	1780	67	36	6.4	44	78	8.6
28	453	291	359	61	12	3.2	54	110	24
29	274	111	84	58	10	2.6	45	21	2.4
30	196	62	34	---	---	---	45	21	2.5
31	149	56	23	---	---	---	46	23	2.6
TOTAL	2943	---	2753.74	2416	---	642.3	1480	---	179.77

01467470 SCHUYLKILL RIVER AT PORT CARBON, PA--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	135	622	306	50	129	26	45	14	1.6
2	118	101	34	59	70	11	46	18	2.5
3	105	37	11	48	44	6.1	42	18	2.0
4	98	28	8.4	46	16	2.6	41	17	1.8
5	88	22	6.1	45	13	2.1	39	16	1.6
6	79	16	4.7	44	18	2.0	40	20	2.1
7	71	20	4.6	46	21	2.5	38	21	2.1
8	66	27	5.5	42	28	3.1	34	17	1.5
9	61	20	4.0	40	19	2.3	32	11	1.2
10	57	16	3.1	38	15	1.4	32	13	1.1
11	54	19	2.6	37	18	2.2	31	12	.92
12	50	40	5.5	40	48	5.0	30	10	.79
13	48	14	1.7	36	21	2.3	30	9	.72
14	46	16	1.9	37	20	1.9	30	9	.71
15	43	24	2.8	36	16	1.4	29	9	.70
16	41	19	2.0	40	24	3.3	28	5	.70
17	41	16	1.7	42	104	30	30	13	1.3
18	38	13	1.8	54	31	4.6	27	4	.65
19	37	15	1.4	56	14	2.5	27	6	.66
20	35	19	1.8	61	120	21	36	51	5.8
21	36	15	1.4	48	147	41	59	335	48
22	34	32	3.0	79	39	7.7	68	349	51
23	34	81	7.5	76	22	4.4	58	47	7.5
24	32	25	2.3	69	20	3.7	51	24	3.1
25	37	56	4.0	64	21	3.6	47	20	2.4
26	59	260	54	62	23	3.7	45	14	2.0
27	38	11	1.6	57	23	3.5	41	10	1.6
28	35	25	2.4	52	24	3.3	41	12	1.2
29	34	21	2.4	50	20	3.0	43	21	2.5
30	33	18	1.6	52	22	3.0	68	511	167
31	---	---	---	47	13	2.0	---	---	---
TOTAL	1683	---	490.8	1633	---	212.2	1208	---	316.75
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	64	65	18	27	17	1.2	21	4	.42
2	51	29	3.7	27	10	.94	24	20	1.4
3	46	19	2.8	25	8	.82	24	11	.67
4	44	23	2.7	25	13	.83	22	8	.45
5	41	24	2.5	24	11	.67	21	6	.29
6	38	22	2.2	24	12	.78	20	6	.29
7	46	73	9.8	31	30	3.2	20	8	.39
8	42	23	2.8	58	872	206	20	9	.46
9	38	21	2.1	41	60	6.6	19	7	.36
10	36	16	1.8	45	48	5.6	30	103	13
11	43	135	21	34	13	1.5	23	24	1.4
12	36	17	1.6	33	13	1.1	21	16	.89
13	36	17	1.6	34	17	2.1	20	13	.67
14	33	13	1.5	39	29	2.7	19	13	.62
15	32	17	1.4	37	36	3.7	19	10	.79
16	32	16	1.7	35	16	1.4	64	580	184
17	31	16	1.3	30	6	.49	62	105	28
18	29	8	1.0	29	6	.47	38	35	3.6
19	28	11	.77	28	6	.40	30	12	1.6
20	27	8	.54	28	6	.40	28	17	1.2
21	27	7	.51	27	5	.38	26	15	.99
22	25	6	.44	26	5	.37	25	11	.72
23	31	24	2.6	26	6	.37	24	12	.75
24	31	10	.78	26	8	.52	23	17	.84
25	26	11	.54	24	7	.45	23	15	.90
26	24	7	.45	24	6	.47	48	275	58
27	24	5	.33	28	34	3.0	59	212	40
28	25	5	.34	25	17	1.1	44	27	3.4
29	49	706	130	24	14	.85	39	9	.88
30	37	211	28	22	8	.63	39	18	1.9
31	30	21	2.0	22	9	.53	---	---	---
TOTAL	1105	---	246.80	929	---	249.57	895	---	348.88
YEAR	19994.0		7479.13						

DELAWARE RIVER BASIN

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01467500 SCHUYLKILL RIVER AT POTTSVILLE, PA

LOCATION.--Lat 40°41'01", long 76°11'11", Schuylkill County, Hydrologic Unit 02040203, 90 ft (27 m) upstream from Pottsville-Palo Alto Bridge, 1.5 mi (2.4 km) downstream from Mill Creek and 4.2 mi (6.8 km) upstream from West Branch.

DRAINAGE AREA.--not available

PERIOD OF RECORD.--October 1975 to current year.

COOPERATION.--Water-quality data were furnished by the Pennsylvania Department of Environmental Resources.

WATER QUALITY DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

DATE	TIME	CODE FOR AGENCY COL- LECTING SAMPLE	SPE- CIFIC CON- DUCT- ANCE (MICRO- MHOS)	PH (UNITS)	TEMPER- ATURE (DEG C)	TUR- RID- ITY (JTU)	DIS- SOLVED OXYGEN (MG/L)	HARD- NESS (CA, MG)
OCT								
15...	1250	9813	350	--	15.5	14	10.8	270
NOV								
05...	1320	9813	340	5.5	14.5	20	9.7	186
DEC								
11...	1130	9813	400	--	6.0	20	9.2	210
JAN								
12...	1230	9813	330	5.5	4.0	15	12.5	144
FEB								
17...	1200	9813	230	5.8	8.0	22	11.1	138
MAR								
05...	1225	9813	350	5.7	8.5	20	11.5	210
APR								
08...	0935	9813	280	5.5	7.5	15	11.8	144
MAY								
11...	1140	9813	330	6.0	--	10	--	127
JUN								
28...	1320	9813	500	5.7	21.0	23	10.0	242
JUL								
19...	1330	9813	480	5.8	21.0	20	9.2	222
AUG								
16...	1330	9813	200	5.6	18.5	15	9.0	190

DATE	MINERAL ACIDITY (METHYL ORANGE) AS CACO3 (MG/L)	ACIDITY CO2 AS CACO3 (MG/L)	DIS- SOLVED CAL- CIUM (CA) (MG/L)	DIS- SOLVED MAG- NE- SIUM (MG) (MG/L)	ALKA- LINITY AS CACO3 (MG/L)	DIS- SOLVED SULFATE (SO4) (MG/L)	DIS- SOLVED CHLO- RIDE (CL) (MG/L)	TOTAL FILT- RABLE RESIDUE (MG/L)	TOTAL NITRATE (N) (MG/L)
OCT									
15...	0	58	38	43	6	220	20	474	.48
NOV									
05...	0	40	40	21	2	264	20	434	.56
DEC									
11...	--	--	37	29	8	242	39	396	.50
JAN									
12...	0	28	35	14	2	180	19	422	.56
FEB									
17...	0	20	22	20	2	124	19	--	.66
MAR									
08...	0	22	31	33	4	190	15	--	.78
APR									
08...	0	18	25	20	12	150	7.0	220	.44
MAY									
11...	0	0	22	17	10	112	15	228	.40
JUN									
28...	0	56	35	38	12	190	12	352	.54
JUL									
19...	--	30	44	28	4	280	20	520	.50
AUG									
16...	0	36	36	24	8	--	10	458	.46

DELAWARE RIVER BASIN

01467500 SCHUYLKILL RIVER AT POTTSVILLE, PA--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

DATE	TOTAL NITRITE (N) (MG/L)	TOTAL AMMONIA NITRO- GEN (N) (MG/L)	TOTAL PHOS- PHORUS (P) (MG/L)	TOTAL COPPER (CU) (UG/L)	TOTAL IRON (FE) (UG/L)	TOTAL ALPHA (PC/L)	TOTAL BETA (PC/L)	TOTAL ORGANIC CARBON (C) (MG/L)
OCT 15...	.02	.96	.33	40	2230	--	--	7.0
NOV 05...	.08	.78	.37	<10	1561	1.0	1.0	2.0
DEC 11...	.02	.77	.46	10	2780	--	--	--
JAN 17...	.04	.44	.45	10	3500	--	--	--
FEB 17...	.04	.18	.25	<10	4690	--	--	--
MAR 08...	.09	.39	.40	40	3570	--	--	--
APR 08...	.01	.19	.08	20	2620	--	--	--
MAY 11...	.02	.39	.34	40	2290	--	--	--
JUN 28...	.03	--	.36	40	2820	--	--	--
JUL 19...	.02	.60	.58	40	2630	--	--	--
AUG 16...	.01	.41	.26	<10	2320	--	--	--

DATE	TIME	CODE FOR AGENCY COL- LECTING SAMPLE	TOTAL ALUM- INUM (AL) (UG/L)	TOTAL CAD- MIUM (CD) (UG/L)	TOTAL CHRO- MIUM (CR) (UG/L)	TOTAL LEAD (PR) (UG/L)	TOTAL MAN- GANESE (MN) (UG/L)	TOTAL NICKEL (NI) (UG/L)	TOTAL ZINC (ZN) (UG/L)
NOV 05...	1320	9813	3960	--	--	--	3000	--	--
FEB 17...	1200	9813	3170	--	<10	50	1500	50	110
MAY 11...	1140	9813	1310	<3	<10	<50	1570	60	130
AUG 16...	1330	9813	2380	--	<10	<50	3090	110	260

DELAWARE RIVER BASIN

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01467950 WEST BRANCH SCHUYLKILL RIVER AT CRESSONA, PA

LOCATION.--Lat 40°38'03", long 76°11'33", Schuylkill County, Hydrologic Unit 02040203, at bridge on State Route 183 in Cressona, 0.2 mi (0.3 km) upstream from Panther Creek and 1.3 mi (2.1 km) upstream from Schuylkill River.

DRAINAGE AREA.--not available.

PERIOD OF RECORD.--October 1975 to current year.

COOPERATION.--Water quality data were furnished by the Pennsylvania Department of Environmental Resources.

WATER QUALITY DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

DATE	TIME	CODE FOR AGENCY COL- LECTING SAMPLE	SPE- CIFIC CON- DUCT- ANCE (MICRO- MHOS)	PH (UNITS)	TEMPER- ATURE (DEG C)	TUR- BID- ITY (JTU)	DIS- SOLVED OXYGEN (MG/L)	HARD- NESS (CA, MG)	MINERAL ACIDITY (METHYL ORANGE) AS CAC03 (MG/L)	ACIDITY C02 AS CAC03 (MG/L)	DIS- SOLVED CAL- CIUM (CA) (MG/L)	DIS- SOLVED MAG- NE- SIUM (MG)
OCT 15...	1230	9813	390	--	15.0	40	10.8	330	0	0	58	46
NOV 05...	1255	9813	390	6.7	14.0	37	10.1	276	--	--	58	32
DEC 11...	1115	9813	--	--	6.5	35	9.5	258	0	0	55	30
JAN 12...	1245	9813	370	7.0	5.5	37	10.7	186	0	0	56	11
FEB 17...	1135	9813	230	6.6	8.0	35	11.1	150	0	0	26	21
MAR 08...	1150	9813	440	7.0	7.5	35	11.7	246	0	0	51	29
APR 08...	0915	9813	370	7.0	8.0	40	11.5	192	0	0	40	22
MAY 11...	1110	9813	600	6.8	--	26	--	150	0	0	53	4.0
JUN 28...	1300	9813	--	7.0	20.0	30	10.0	418	--	--	59	--
JUL 19...	1310	9813	720	7.2	19.5	30	9.2	300	--	0	76	27
AUG 16...	1305	9813	480	6.8	18.0	30	9.3	235	0	0	48	28

DATE	ALKA- LINITY AS CAC03 (MG/L)	DIS- SOLVED SULFATE (S04) (MG/L)	DIS- SOLVED CHLO- RIDE (CL) (MG/L)	TOTAL FILT- RABLE RESIDUE (MG/L)	TOTAL NITRATE (N) (MG/L)	TOTAL NITRITE (N) (MG/L)	TOTAL AMMONIA NITRO- GEN (N) (MG/L)	TOTAL PHOS- PHORUS (P) (MG/L)	TOTAL COPPER (CU) (UG/L)	TOTAL IRON (FE) (UG/L)	TOTAL ORGANIC CARBON (C) (MG/L)
OCT 15...	10	286	7.0	544	.50	.03	.33	.06	10	5600	6.0
NOV 05...	18	352	7.0	514	.60	.07	.37	.08	20	6160	2.0
DEC 11...	18	308	7.0	458	.64	.02	.30	.07	10	6440	--
JAN 12...	18	240	7.0	554	.60	.04	.37	.09	<10	6000	--
FEB 17...	12	140	12	--	.80	.05	.20	.20	<10	6050	--
MAR 08...	24	260	8.0	--	.76	.08	.31	.04	30	5600	--
APR 08...	16	206	.0	340	.58	.03	.20	.05	<10	4950	--
MAY 11...	24	460	7.0	482	.50	.02	.33	.11	<10	4550	--
JUN 28...	78	--	--	554	.74	.03	.33	.13	10	5250	--
JUL 19...	24	260	9.0	678	.56	.02	.35	.11	10	6400	--
AUG 16...	14	216	9.0	496	.60	.01	.27	.06	<10	6450	--

DATE	TIME	CODE FOR AGENCY COL- LECTING SAMPLE	TOTAL ALUM- INUM (AL) (UG/L)	TOTAL CAD- MIUM (CD) (UG/L)	TOTAL CHRO- MIUM (CR) (UG/L)	TOTAL LEAD (PB) (UG/L)	TOTAL MAN- GANESE (MN) (UG/L)	TOTAL NICKEL (NI) (UG/L)	TOTAL ZINC (ZN) (UG/L)
NOV 05...	1255	9813	450	--	--	--	3750	--	--
FEB 17...	1135	9813	3130	--	<10	<50	1440	40	80
MAY 11...	1110	9813	1310	<3	<10	<50	660	100	130
AUG 16...	1305	9813	1200	<10	<10	<50	2870	50	130

DELAWARE RIVER BASIN

01468500 SCHUYLKILL RIVER AT LANDINGVILLE, PA

LOCATION.--Lat 40°37'45", long 76°07'30", Schuylkill County, Hydrologic Unit 02040203, on left bank 10 ft (3 m) upstream from highway bridge at Landingville, 0.1 mi (0.2 km) upstream from Mahannon Creek, and 5 mi (8.0 km) downstream from West Branch Schuylkill River.

DRAINAGE AREA.--133 mi² (344 km²).

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

REVISED RECORDS.--WDR PA-75: 1973(p), 1974 (P).

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

REMARKS.--Records good.

AVERAGE DISCHARGE.--10 years (1947-52, 1963-65, 1975-76), 283 ft³/s (8.01 m³/s), 28.90 in/yr (734 mm/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge 8,570 ft³/s (243 m³/s) Nov. 25, 1950, gage height, 13.29 ft (4.051 m); minimum, 19 ft³/s (0.54 m³/s) Oct. 30, 31, Nov. 4, 1963.

EXTREMES OUTSIDE OF PERIOD OF RECORD.--Flood in June 1972 reached a stage of 17.36 ft (5.291 m), discharge, 14,000 ft³/s (396 m³/s).

EXTREMES FOR CURRENT YEAR.--Peak discharges above base of 1,300 ft³/s (36.8 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	0715	1,390 39.4	7.47 2.277	Jan. 26	2115	*4,030 114	*11.31 3.447

Minimum discharge, 77 ft³/s (2.181 m³/s) Sept. 15, gage height, 3.33 ft (1.015 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	601	267	302	430	673	307	972	234	225	374	115	97
2	529	242	271	366	719	317	784	258	240	240	125	105
3	448	236	251	407	487	317	642	215	211	213	143	102
4	396	234	238	353	439	324	529	203	195	230	135	97
5	342	219	232	317	391	302	463	195	184	191	133	85
6	322	213	232	302	369	288	419	191	184	176	137	83
7	300	209	217	293	324	258	385	191	187	230	158	90
8	274	256	211	288	295	253	350	182	174	205	283	90
9	262	199	219	262	278	256	324	173	167	180	178	89
10	249	340	230	245	269	258	300	169	162	164	199	133
11	314	335	213	221	305	253	276	169	155	199	151	102
12	245	535	207	223	274	242	258	189	153	176	138	83
13	225	1000	199	223	262	345	249	164	145	164	138	84
14	219	808	189	317	265	312	227	157	145	157	157	83
15	205	638	195	234	232	305	217	155	145	153	176	83
16	189	529	199	219	329	319	209	223	151	150	195	297
17	205	475	191	207	601	307	201	439	157	143	157	503
18	715	436	189	200	519	278	193	319	140	121	140	300
19	852	399	182	200	538	281	189	319	138	124	130	232
20	824	369	180	230	487	281	182	324	184	127	125	215
21	694	529	167	200	445	285	186	433	358	125	119	207
22	604	442	171	180	516	276	176	380	469	121	108	191
23	532	380	176	300	469	260	174	350	295	153	111	182
24	475	369	158	400	439	251	171	327	247	157	111	174
25	451	358	155	940	416	251	169	302	221	116	108	171
26	393	340	538	1870	388	247	329	290	199	113	105	300
27	371	348	413	2470	374	262	201	276	174	115	104	369
28	355	322	324	1550	348	345	180	256	171	112	99	317
29	319	300	305	968	312	269	178	245	209	230	93	276
30	295	274	332	698	---	269	173	260	391	182	95	276
31	281	---	382	558	---	265	---	230	---	138	97	---
TOTAL	12486	11601	7468	15671	11763	8783	9306	7818	6176	5279	4263	5416
MEAN	403	387	241	506	406	283	310	252	206	170	138	181
MAX	852	1000	538	2470	719	345	972	439	469	374	283	503
MIN	189	199	155	180	232	242	169	155	138	112	93	83
CFSM	3.03	2.91	1.81	3.80	3.05	2.13	2.33	1.89	1.55	1.28	1.04	1.36
IN.	3.49	3.24	2.09	4.38	3.29	2.46	2.60	2.19	1.73	1.48	1.19	1.51

CAL YR 1975	TOTAL	136032	MEAN	373	MAX	3080	MIN	105	CFSM	2.80	IN	38.05
WTR YR 1976	TOTAL	106030	MEAN	290	MAX	2470	MIN	83	CFSM	2.18	IN	29.66

DELAWARE RIVER BASIN

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01469500 LITTLE SCHUYLKILL RIVER AT TAMAQUA, PA

LOCATION.--Lat 40°48'25", long 75°58'20", Schuylkill County, Hydrologic Unit 02040203, on left bank at pumping plant of Panther Valley Water Co., 0.6 mi (1.0 km) upstream from Tamaqua, and 0.8 mi (1.3 km) upstream from Panther Creek.

DRAINAGE AREA.--42.9 mi² (111.1 km²).

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

REVISED RECORDS.--WSP 756: Drainage area. WSP 971: 1942. WSP 1302: 1922, 1926-30. WSP 1432: 1920-21, 1933.

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

REMARKS.--Records good except those for winter periods, which are fair. Flow regulated by Still Creek Reservoir 6.5 mi (10.5 km) upstream (see p.311). Figures of daily discharge do not include water diverted from reservoir.

AVERAGE DISCHARGE.--57 years, 92.5 ft³/s (2.62 m³/s), 29.27 in/yr (743 mm/yr), adjusted for diversion and, since February 1933, for storage.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 7,790 ft³/s (221 m³/s) Aug. 18, 1955, gage height, 11.10 ft (3.383 m), from rating curve extended above 3,200 ft³/s (91 m³/s) on basis of contracted-opening measurement of peak flow; minimum, 1.8 ft³/s (0.051 m³/s) Dec. 18, 1931, gage height, 1.21 ft (0.369 m); minimum daily, 2.9 ft³/s (0.082 m³/s) Sept. 2, 1966.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 1,570 ft³/s (44.5 m³/s) Jan. 26, gage height, 5.37 ft (1.673 m); minimum, 24 ft³/s (0.68 m³/s) Sept. 1, 2, 5, 6; minimum gage height, 2.07 ft (0.631 m) Dec. 24, 25; minimum daily, 25 ft³/s (0.71 m³/s) Sept. 1, 6.

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	179	79	91	92	198	89	233	50	70	189	42	25
2	151	75	88	90	270	83	270	96	75	128	34	31
3	126	72	83	86	161	81	236	87	63	111	31	31
4	111	68	77	85	135	83	195	79	53	105	30	27
5	100	63	72	81	118	79	164	74	49	98	29	26
6	92	57	67	76	116	74	140	66	47	83	29	25
7	83	52	64	71	100	68	123	65	53	87	38	29
8	75	78	60	67	92	65	109	63	46	85	123	29
9	75	71	57	63	85	65	98	58	41	72	94	27
10	76	93	54	60	75	66	87	55	37	61	98	59
11	111	121	52	56	79	63	81	53	32	70	81	52
12	111	141	49	54	81	59	75	58	32	61	75	37
13	86	285	46	52	85	81	68	55	30	52	72	31
14	74	298	44	54	100	94	63	47	30	49	70	29
15	68	260	41	54	81	85	58	45	29	43	68	26
16	65	212	39	52	145	87	58	52	30	42	70	114
17	64	178	37	49	310	87	61	118	31	41	56	288
18	266	151	35	47	223	77	55	94	29	37	52	151
19	407	132	32	46	226	77	52	100	27	34	45	83
20	418	119	35	50	192	81	47	105	41	33	39	61
21	328	146	35	42	167	83	45	172	123	32	39	53
22	264	176	34	40	187	92	42	156	201	32	37	43
23	217	144	32	39	164	79	41	138	140	37	36	37
24	180	128	30	38	140	77	38	133	109	41	32	32
25	163	117	35	36	130	75	38	116	96	32	32	27
26	147	110	59	220	121	72	100	102	83	30	32	85
27	127	107	108	1250	114	68	75	94	75	26	42	250
28	113	109	104	858	105	92	61	81	75	26	36	230
29	105	103	100	503	96	87	52	74	79	70	31	204
30	98	96	94	284	---	79	46	77	148	74	27	195
31	86	---	92	192	---	72	---	74	---	47	26	---
TOTAL	4566	3841	1846	4787	4096	2420	2811	2637	1974	1928	1546	2337
MEAN	147	128	59.5	154	141	78.1	93.7	85.1	65.8	62.2	49.9	77.9
MAX	418	298	108	1250	310	94	270	172	201	189	123	288
MIN	64	52	30	36	75	59	38	45	27	26	26	25
(/)	1.5	3.1	1.3	1.9	4.0	3.8	1.8	1.7	.9	1.1	1.3	1.5
MEAN#	148	131	61.0	156	145	81.9	95.5	86.6	66.7	63.3	46.6	85.6
CFSM#	3.45	3.05	1.42	3.64	3.38	1.91	2.23	2.02	1.55	1.48	1.09	2.00
IN.#	3.98	3.40	1.64	4.20	3.64	2.20	2.49	2.33	1.73	1.71	1.26	2.23

CAL YR 1975 TOTAL 44011 MEAN 121 MAX 1110 MIN 19 MEAN# 123 CFSM# 2.88 IN.# 39.06
WTR YR 1976 TOTAL 34789 MEAN 95.1 MAX 1250 MIN 25 MEAN# 97.1 CFSM# 2.26 IN.# 30.81

/ Diversion from Still Creek Reservoir, equivalent in cubic feet per second; furnished by Panther Valley Water Company.

Adjusted for diversion and change in contents in Still Creek Reservoir.

DELAWARE RIVER BASIN

01469710 LITTLE SCHUYLKILL RIVER NEAR TAMAQUA, PA

LOCATION.--Lat 40°45'18", long 75°56'48", Schuylkill County, Hydrologic Unit 02040203, at bridge on State Route 443, 2.3 mi (3.7 km) downstream from Owl Creek and 3.7 mi (6.0 km) downstream from Tamaqua.

DRAINAGE AREA.--not available.

PERIOD OF RECORD.--October 1975 to current year.

COOPERATION.--Water-quality data were furnished by the Pennsylvania Department of Environmental Resources.

WATER QUALITY DATA. WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

DATE	TIME	CODE FOR AGENCY COLLECTING SAMPLE	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)	TEMPERATURE (DEG C)	TURBIDITY (JTU)	DISSOLVED OXYGEN (MG/L)	HARDNESS (CA, MG) (MG/L)	MINERAL ACIDITY (METHYL ORANGE) AS CAC03 (MG/L)	ACIDITY CO2 AS CAC03 (MG/L)	DISSOLVED CALCIUM (CA) (MG/L)	DISSOLVED MAGNESIUM (MG) (MG/L)
OCT 15...	1340	9813	320	--	17.5	28	10.2	264	0	0	56	30
NOV 05...	1410	9813	330	6.1	15.0	20	9.6	198	0	18	53	16
DEC 11...	1235	9813	340	--	6.0	26	9.7	234	--	--	--	--
JAN 12...	1345	9813	340	6.5	5.0	25	12.5	198	0	8	52	16
FEB 17...	1325	9813	190	6.2	7.5	25	11.5	100	0	0	20	12
MAR 08...	1315	9813	390	6.5	9.0	28	11.3	264	0	8	48	35
APR 08...	1025	9813	310	6.0	9.0	20	11.0	180	0	0	34	23
MAY 11...	1240	9813	500	6.5	--	17	--	242	0	0	57	24
JUN 28...	1420	9813	650	6.5	25.0	24	8.8	418	0	0	--	--
JUL 21...	1300	9813	700	6.5	20.5	30	--	300	0	0	75	28
AUG 17...	1440	9813	600	6.3	22.0	25	8.5	260	--	0	53	31

DATE	ALKALINITY AS CAC03 (MG/L)	DISSOLVED SULFATE (SO4) (MG/L)	DISSOLVED CHLORIDE (CL) (MG/L)	TOTAL FILTRABLE RESIDUE (MG/L)	TOTAL NITRATE (N) (MG/L)	TOTAL NITRITE (N) (MG/L)	TOTAL AMMONIA NITROGEN (N) (MG/L)	TOTAL PHOSPHORUS (P) (MG/L)	TOTAL COPPER (CU) (UG/L)	TOTAL IRON (FE) (UG/L)	TOTAL ORGANIC CARBON (C) (MG/L)	METHYLENE BLUE ACTIVE SUBSTANCE (MG/L)
OCT 15...	8	220	11	440	.94	.03	.38	.15	60	3150	4.0	--
NOV 05...	10	264	11	410	1.0	.08	.39	.20	<10	3650	3.0	.0
DEC 11...	12	264	10	396	1.1	.03	.41	.15	30	6720	--	--
JAN 12...	6	180	14	278	1.1	.07	.46	.29	<10	3950	--	--
FEB 17...	10	84	18	--	1.0	.06	.22	.17	<10	2030	--	.0
MAR 08...	12	200	12	--	1.1	.04	.63	.38	30	3430	--	--
APR 08...	12	30	12	256	1.0	.03	.32	.14	<10	2080	--	--
MAY 11...	14	320	13	384	1.1	.03	.66	.28	20	2610	--	.0
JUN 28...	28	340	13	568	1.0	.04	.41	.32	20	3950	--	--
JUL 21...	14	220	13	652	.94	.02	.70	.20	20	2450	--	--
AUG 17...	10	180	14	256	.84	.03	.39	.25	30	3300	--	.0

DATE	TIME	CODE FOR AGENCY COLLECTING SAMPLE	TOTAL ALUMINUM (AL) (UG/L)	TOTAL CADMIUM (CD) (UG/L)	TOTAL CHROMIUM (CR) (UG/L)	TOTAL LEAD (PR) (UG/L)	TOTAL MANGANESE (MN) (UG/L)	TOTAL NICKEL (NI) (UG/L)	TOTAL ZINC (ZN) (UG/L)
NOV 05...	1410	9813	160	--	--	--	2090	--	--
FEB 17...	1325	9813	2460	--	<10	<50	670	<10	60
MAY 11...	1240	9813	2040	<3	<10	<50	2170	60	110
AUG 17...	1440	9813	1630	<3	<10	<50	40	40	120

DELAWARE RIVER BASIN

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01470500 SCHUYLKILL RIVER AT BERNE, PA

LOCATION.--Lat 40°31'21", long 75°59'55", Berks County, Hydrologic Unit 02040203, on right bank 50 ft (15 m) upstream from highway bridge at Berne, 0.5 mi (8 km) upstream from Mill Creek, and 6.5 mi (10.5 km) downstream from Little Schuylkill River. Water-quality sampling site at bridge 50 ft (15 m) downstream.

DRAINAGE AREA.--355 mi² (919 km²).

WATER-DISCHARGE RECORDS

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

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

REMARKS.--Records good. Some regulation at low flow by mine pumpage and by Still Creek Reservoir about 25 mi (40 km) upstream from station (see p. 311).

AVERAGE DISCHARGE.--29 years, 699 ft³/s (19.8 m³/s), 26.74 in/yr (679 mm/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 42,800 ft³/s (1,210 m³/s) June 22, 1972, gage height, 19.0 ft (5.79 m), from floodmark in gage shelter, from rating curve extended above 17,000 ft³/s (481 m³/s); minimum, 31 ft³/s (0.88 m³/s) Sept. 2, 1949.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood in May 1942, reached a stage of 15.0 ft (4.57 m), from floodmarks, discharge, 26,900 ft³/s (762 m³/s).

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 18,300 ft³/s (518 m³/s) Jan. 26, gage height, 12.79 ft (3.898 m); minimum, 188 ft³/s (5.32 m³/s) Sept. 15, gage height, 4.85 ft (1.478 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	1450	607	723	1300	1910	732	2350	433	533	1660	353	229
2	1220	599	642	1090	2790	695	2240	906	590	944	299	243
3	1030	565	582	1110	1600	713	1760	668	493	748	282	275
4	906	533	549	1040	1280	750	1430	590	433	706	265	247
5	826	501	525	856	1160	704	1160	549	410	642	261	240
6	760	478	517	788	1060	686	977	525	421	545	259	218
7	677	470	533	896	936	659	956	509	458	591	402	213
8	625	599	501	723	886	625	760	486	388	630	722	217
9	599	541	486	642	807	599	677	478	360	537	630	211
10	582	704	525	713	713	616	616	462	343	491	704	277
11	686	1110	470	778	797	616	607	425	324	594	558	294
12	713	1510	448	557	797	599	549	493	317	520	470	241
13	590	3950	425	533	704	856	493	418	323	443	517	221
14	549	2920	448	988	760	988	455	389	325	412	525	206
15	517	2100	433	651	668	906	433	382	296	387	533	200
16	486	1640	425	541	677	875	425	403	324	380	788	474
17	470	1330	403	501	1860	856	425	988	411	370	509	1250
18	1960	1130	396	480	1470	741	403	886	307	348	431	756
19	2850	998	361	460	1520	713	382	856	289	326	387	536
20	2950	896	368	490	1350	704	341	807	354	303	352	435
21	2320	1170	389	420	1190	723	348	1140	727	299	334	402
22	1870	1210	382	400	1370	713	321	1050	1610	296	320	355
23	1550	998	455	390	1280	633	314	967	1210	340	300	319
24	1300	946	411	380	1130	599	301	875	905	454	282	297
25	1170	886	382	360	1040	590	321	778	722	334	275	282
26	1070	836	1220	2500	957	573	651	713	633	290	269	418
27	946	836	1430	11800	896	565	448	677	549	270	292	881
28	856	778	1060	6160	826	788	382	607	509	265	275	757
29	778	713	896	3530	778	651	361	565	564	416	257	612
30	686	695	826	2400	---	599	341	633	956	550	236	572
31	642	---	1050	1760	---	590	---	582	---	380	230	---
TOTAL	33634	32249	18261	45237	33212	21657	21127	20240	16084	15473	12317	11878
MEAN	1085	1075	589	1459	1145	699	704	653	536	499	397	396
MAX	2950	3950	1430	11800	2790	988	2350	1140	1610	1660	788	1250
MIN	470	470	361	360	668	565	301	382	289	265	230	200
CFSM	3.06	3.03	1.66	4.11	3.23	1.97	1.98	1.84	1.51	1.41	1.12	1.12
IN.	3.52	3.38	1.91	4.74	3.48	2.27	2.21	2.12	1.69	1.62	1.29	1.24

CAL YR 1975	TOTAL	364159	MEAN 998	MAX	7180	MIN 233	CFSM 2.81	IN 38.16
WTR YR 1976	TOTAL	281369	MEAN 769	MAX	11800	MIN 200	CFSM 2.17	IN 29.48

DELAWARE RIVER BASIN

01470500 SCHUYLKILL RIVER AT BERNE, PA--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--October 1947 to current year.

PERIOD OF DAILY RECORD.--

SPECIFIC CONDUCTANCE: October 1963 to current year.

pH: October 1963 to September 1973.

WATER TEMPERATURES: February 1948 to September 1953, December 1957 to current year.

SUSPENDED SEDIMENT DISCHARGE: October 1947 to current year.

REMARKS.--Unpublished records of specific conductance and pH of sediment samples available in the district office at Harrisburg.

COOPERATION.--Eleven chemical analyses for the period October 1975 to August 1976 were furnished by the Pennsylvania Department of Environmental Resources.

EXTREMES FOR PERIOD OF DAILY RECORD.--

SPECIFIC CONDUCTANCE: Maximum daily, 1,410 micromhos Oct. 25, 26, 28, 1964; minimum daily, 108 micromhos Jan. 27, 1976.

WATER TEMPERATURES: Maximum daily, 33.0°C July 3, 1966; minimum, freezing point on many days during winter periods.

SEDIMENT CONCENTRATIONS: Maximum daily, 8,030 mg/l Nov. 4, 1947; minimum daily, 0 mg/l on many days during 1952 and 1968.

SEDIMENT LOADS: Maximum daily, 90,180 tons (81,800 t) Nov. 12, 1947; minimum daily, 0 tons (0 t) on many days during 1952 and 1968.

EXTREMES FOR CURRENT YEAR.--

SPECIFIC CONDUCTANCE: Maximum daily, 631 micromhos Sept. 14; minimum daily, 108 micromhos Jan. 27.

WATER TEMPERATURES: Maximum daily, 27.0°C on several days during June, July, and August; minimum daily, freezing point Jan. 9, 20-22.

SEDIMENT CONCENTRATIONS: Maximum daily, 330 mg/l Jan. 26; minimum daily, 1 mg/l on many days.

SEDIMENT LOADS: Maximum daily, 9,480 tons (8,600 t) Jan. 27; minimum daily, 0.62 tons (0.56 t) Aug. 31.

WATER QUALITY DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)	TEMPERATURE (DEG C)	TOTAL ACIDITY AS H+ (MG/L)	TOTAL ACIDITY AS CaCO3 (MG/L)	DIS-SOLVED SULFATE (SO4) (MG/L)	DIS-SOLVED CHLORIDE (CL) (MG/L)
OCT									
01...	1100	1450	305	7.3	14.5	.1	5.0	100	8.0
NOV									
07...	0945	440	490	6.7	13.0	.1	5.0	170	11
DEC									
02...	0930	640	400	6.7	6.0	.1	5.0	170	9.0
JAN									
06...	0930	845	333	6.7	.0	.1	5.0	110	12
FEB									
04...	0950	1320	270	6.9	2.5	.1	4.0	87	12
MAR									
02...	0950	695	375	6.7	10.0	.1	4.0	230	11
APR									
09...	1300	668	290	6.6	10.5	.2	10	97	9.9
MAY									
06...	0930	533	320	6.6	16.0	.1	5.0	110	12
JUN									
04...	0930	450	460	7.2	18.0	.0	.0	150	9.3
JUL									
02...	1000	970	220	6.6	20.0	.2	10	64	9.6
AUG									
04...	1230	265	540	7.7	23.0	.4	20	230	14
SEP									
01...	1045	230	560	7.7	20.0	1.0	50	230	17

DELAWARE RIVER BASIN

01470500 SCHUYLKILL RIVER AT BERNE, PA--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

DATE	TIME	CODE FOR AGENCY COL- LECTING SAMPLE	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)	HARD- NESS (CA+MG) (MG/L)	MINERAL ACIDITY (METHYL ORANGE) AS CACO3 (MG/L)	ACIDITY CO2 AS CACO3 (MG/L)	DIS- SOLVED CAL- CIUM (CA) (MG/L)
OCT 15...	1120	9813	509	270	--	16.0	2	10.1	209	0	0	36
NOV 05...	1135	9813	493	260	6.7	14.0	3	10.8	140	0	0	35
DEC 11...	1035	9813	478	270	--	4.0	5	9.2	174	0	0	33
JAN 12...	1100	9813	557	310	6.7	2.0	10	11.3	168	0	0	37
FEB 17...	1050	9813	2095	210	6.6	6.0	35	10.1	156	0	0	23
MAR 08...	1105	9813	633	310	6.6	8.5	7	11.0	198	0	0	35
APR 07...	1320	9813	845	210	6.6	12.0	4	10.7	92	0	0	20
MAY 11...	1020	9813	418	450	6.7	16.0	4	9.8	--	0	0	36
JUN 28...	1150	9813	509	455	6.8	25.0	38	8.3	204	0	0	36
JUL 19...	1215	9813	326	500	7.3	25.5	2	7.7	200	--	0	46
AUG 16...	1210	9813	788	370	7.1	22.0	15	7.0	126	--	--	31

DATE	DIS- SOLVED MAG- NE- SIUM (MG) (MG/L)	ALKA- LINITY AS CACO3 (MG/L)	DIS- SOLVED SULFATE (SO4) (MG/L)	DIS- SOLVED CHLO- RIDE (CL) (MG/L)	TOTAL FILT- RABLE RESIDUE (MG/L)	TOTAL NITRATE (N) (MG/L)	TOTAL NITRITE (N) (MG/L)	TOTAL AMMONIA NITRO- GEN (N) (MG/L)	TOTAL PHOS- PHORUS (P) (MG/L)	TOTAL COPPER (CU) (UG/L)	TOTAL IRON (FE) (UG/L)	TOTAL ORGANIC CARBON (C) (MG/L)
OCT 15...	20	16	172	11	338	1.5	.03	.65	.04	10	150	3.0
NOV 05...	13	16	168	12	320	1.5	.06	.51	.05	<10	280	2.0
DEC 11...	22	18	160	12	310	1.7	.04	.64	.03	<10	280	--
JAN 12...	18	10	198	16	386	.12	.04	.37	.04	<10	1670	--
FEB 17...	24	18	102	17	--	1.1	.04	.42	.88	<10	3080	--
MAR 08...	27	18	162	12	--	1.1	.09	.34	.03	10	1160	--
APR 07...	10	16	80	10	148	1.2	.05	.20	.09	<10	540	--
MAY 11...	--	14	160	14	316	1.2	.03	.35	.08	<10	600	--
JUN 28...	28	28	180	15	444	1.5	.04	.19	.09	10	600	--
JUL 19...	21	14	200	18	444	2.6	.09	.37	.08	<10	260	--
AUG 16...	12	18	136	16	340	1.3	.04	.18	.10	<10	1300	--

DELAWARE RIVER BASIN

01470500 SCHUYLKILL RIVER AT BERNE, PA--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

DATE	TIME	CODE FOR AGENCY COL- LECTING SAMPLE	TOTAL FLUO- RIDE (F) (MG/L)	TOTAL ALUM- INUM (AL) (UG/L)	TOTAL CAD- MIUM (CD) (UG/L)	TOTAL CHRO- MIUM (CR) (UG/L)	TOTAL LEAD (PB) (UG/L)
NOV 05...	1135	9813	.1	120	--	--	--
FEB 17...	1050	9813	<.1	2880	--	<10	<50
MAY 11...	1020	9813	--	1020	<3	<10	<50
AUG 16...	1210	9813	.1	700	--	--	<50

DATE	TOTAL MAN- GANESE (MN) (UG/L)	TOTAL NICKEL (NI) (UG/L)	TOTAL ZINC (ZN) (UG/L)	TOTAL ALPHA (PC/L)	TOTAL BETA (PC/L)	METHY- LENE BLUE ACTIVE SUB- STANCE (MG/L)
NOV 05...	1460	--	--	<1.0	1.0	.1
FEB 17...	0	10	90	--	--	.0
MAY 11...	1570	50	80	--	--	--
AUG 16...	1140	20	60	<1.0	3.0	.0

DATE	TIME	INSTAN- TANEOUS DIS- CHARGE (CFS)	TEMPER- ATURE (DEG C)	SUS- PENDE SEDI- MENT (MG/L)	SUS- PENDE SEDI- MENT DIS- CHARGE (T/DAY)	SUS. SED. FALL DIAM. % FINER THAN .004 MM	SUS. SED. FALL DIAM. % FINER THAN .008 MM	SUS. SED. FALL DIAM. % FINER THAN .016 MM
DEC 26...	1855	2350	2.0	47	298	58	72	79
JAN 27...	0325	16000	2.0	417	18000	45	60	73
FEB 17...	1135	2110	6.0	89	507	46	62	74
JUL 01...	0155	2400	21.0	72	467	45	72	85

DATE	SUS. SED. FALL DIAM. % FINER THAN .031 MM	SUS. SED. SIEVE DIAM. % FINER THAN .062 MM	SUS. SED. SIEVE DIAM. % FINER THAN .125 MM	SUS. SED. SIEVE DIAM. % FINER THAN .250 MM	SUS. SED. SIEVE DIAM. % FINER THAN .500 MM	SUS. SED. SIEVE DIAM. % FINER THAN 1.00 MM	SUS. SED. SIEVE DIAM. % FINER THAN 2.00 MM
DEC 26...	--	85	93	97	100	--	--
JAN 27...	81	85	93	97	99	100	--
FEB 17...	81	88	92	94	95	97	100
JUL 01...	--	95	96	97	99	100	--

01470500 SCHUYLKILL RIVER AT BERNE, PA--Continued

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	279	336	388	297	231	364	275	396	431	307	411	548
2	301	334	---	284	---	304	156	334	359	240	458	526
3	305	347	330	254	194	294	181	366	357	246	519	531
4	340	384	329	280	228	327	219	350	344	272	517	515
5	379	397	349	300	261	307	249	306	367	306	521	515
6	415	415	354	302	266	329	224	285	378	323	524	547
7	376	398	410	296	279	332	236	---	476	328	538	595
8	367	381	450	317	261	306	265	322	479	343	518	530
9	364	398	467	368	251	369	271	314	432	347	373	627
10	414	445	400	372	326	343	349	395	437	335	359	598
11	384	410	386	432	297	339	320	407	436	384	357	568
12	433	252	395	---	324	360	387	352	440	350	341	564
13	465	273	398	454	292	376	349	355	457	402	380	560
14	412	424	412	332	326	357	333	340	495	364	388	631
15	418	190	462	378	344	354	342	346	545	377	408	625
16	426	243	466	388	394	364	363	363	505	398	378	554
17	367	262	418	381	295	262	400	428	468	416	322	453
18	320	232	425	400	239	279	414	358	450	427	309	305
19	223	268	458	356	232	287	451	269	455	508	332	318
20	168	280	451	517	230	300	---	271	481	558	354	367
21	197	286	453	442	233	311	386	256	505	521	377	406
22	205	271	506	447	267	379	382	240	396	479	403	---
23	247	282	558	---	272	274	384	---	232	471	429	404
24	254	275	516	---	225	309	387	305	250	510	465	414
25	258	277	535	---	242	305	373	262	284	497	460	421
26	315	276	431	420	270	344	441	265	324	515	457	438
27	318	288	315	108	279	334	449	290	384	583	494	411
28	241	266	254	127	286	345	387	303	440	544	450	368
29	301	279	309	175	290	400	373	353	412	505	472	315
30	315	292	264	179	---	326	379	342	373	473	481	327
31	299	---	273	183	---	329	---	418	---	451	444	---

TEMPERATURE (°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	9.0	6.5	4.0	3.5	10.5	10.0	15.0	18.5	21.0	24.0	24.0
2	14.0	11.0	---	3.5	---	7.0	9.0	13.5	16.0	21.0	26.0	22.0
3	14.0	11.0	4.5	4.0	1.5	6.0	10.0	13.0	18.5	23.0	21.0	19.0
4	14.0	15.0	3.5	1.5	3.5	7.0	8.0	13.0	20.0	22.5	21.0	19.5
5	13.5	16.0	5.0	3.0	2.0	9.5	9.5	13.0	22.0	23.0	26.0	21.0
6	17.0	15.0	5.5	2.5	2.0	10.0	9.5	17.0	18.0	24.0	25.0	18.0
7	14.0	14.0	3.0	1.0	1.0	7.0	11.0	---	20.0	22.0	23.0	21.0
8	14.0	14.0	3.0	3.0	3.0	7.0	10.5	17.0	24.0	21.5	22.0	22.0
9	12.0	17.0	4.0	0.0	2.0	3.5	9.0	16.0	25.0	23.5	20.0	24.5
10	15.5	14.0	5.0	0.5	3.5	4.0	10.5	18.0	26.0	25.0	21.0	21.0
11	14.0	14.0	4.0	2.0	4.0	7.5	10.0	18.0	27.0	22.0	23.0	20.0
12	13.0	15.0	5.0	---	4.5	4.0	7.5	14.0	25.0	23.0	24.0	21.0
13	15.0	10.0	4.0	1.0	3.0	7.0	9.0	17.0	22.0	20.0	23.0	21.0
14	15.0	10.0	5.0	2.5	3.0	6.0	11.0	19.0	21.0	23.0	26.5	21.5
15	15.0	9.0	7.0	3.0	4.0	7.0	12.0	20.0	23.0	23.5	23.0	20.0
16	18.0	9.0	5.0	2.5	7.0	6.0	14.0	19.0	25.5	24.0	22.0	20.0
17	18.0	10.0	5.0	1.0	6.0	4.0	18.0	18.5	22.5	25.0	22.0	20.0
18	14.0	10.0	3.0	1.0	5.5	4.5	20.5	16.0	25.0	21.0	21.0	19.0
19	13.0	11.0	3.0	2.5	7.5	8.0	20.5	14.0	26.0	24.0	21.5	19.5
20	13.0	12.0	1.0	0.0	5.0	8.0	---	15.5	25.0	27.0	23.0	20.5
21	13.0	11.0	0.5	0.0	7.0	10.5	19.5	16.0	25.0	25.0	24.0	19.0
22	15.0	8.0	2.0	0.0	6.0	8.0	21.0	17.0	22.0	23.0	24.0	19.0
23	13.0	7.0	3.0	---	6.0	6.0	20.5	17.0	22.0	22.0	26.0	18.5
24	15.0	7.0	2.0	---	5.5	9.0	18.0	16.5	23.0	26.0	23.5	18.0
25	15.5	6.0	2.0	---	8.0	11.5	13.0	15.0	23.5	22.5	27.0	19.0
26	14.0	7.0	2.0	1.5	8.5	10.0	13.0	15.0	25.0	25.5	27.0	16.0
27	14.0	6.5	2.5	2.0	10.0	12.0	11.0	19.0	26.0	25.0	24.0	17.0
28	14.0	6.0	3.0	3.0	10.5	12.5	14.0	18.5	25.0	27.0	25.0	17.0
29	14.0	6.0	2.5	4.0	9.0	11.0	13.0	15.0	24.0	25.0	27.0	15.0
30	12.0	8.0	3.0	4.0	---	9.0	15.0	18.0	23.0	24.0	20.0	14.0
31	8.0	---	4.0	3.5	---	10.0	---	18.5	---	25.0	19.0	---

DELAWARE RIVER BASIN

01470500 SCHUYLKILL RIVER AT BERNE, PA--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	1450	8	31	607	1	1.6	723	5	9.8
2	1220	7	23	599	1	1.6	642	4	6.9
3	1030	6	17	565	1	1.5	582	2	3.1
4	906	8	20	533	2	2.9	549	2	3.0
5	826	7	16	501	2	2.7	525	3	4.3
6	760	6	12	478	1	1.3	517	4	5.6
7	677	5	9.1	470	3	3.8	533	4	5.8
8	625	4	6.8	599	11	18	501	6	8.1
9	599	4	6.5	541	3	4.4	486	5	6.6
10	582	4	6.3	704	7	13	525	4	5.7
11	686	10	19	1110	7	21	470	3	3.8
12	713	13	25	1510	45	183	448	1	1.2
13	590	4	6.4	3950	75	800	425	1	1.1
14	549	4	5.9	2920	10	79	448	2	2.4
15	517	3	4.2	2100	8	45	433	3	3.5
16	486	3	3.9	1640	5	22	425	2	2.3
17	470	3	3.8	1330	5	18	403	1	1.1
18	1960	42	222	1130	4	12	396	2	2.1
19	2850	31	239	998	3	8.1	361	1	.97
20	2950	24	191	896	2	4.8	368	1	.99
21	2320	8	50	1170	15	47	389	2	2.1
22	1870	6	30	1210	7	23	382	3	3.1
23	1550	5	21	998	4	11	455	2	2.5
24	1300	3	11	946	3	7.7	411	2	2.2
25	1170	3	9.5	886	3	7.2	382	3	3.1
26	1070	3	8.7	836	2	4.5	1220	28	92
27	946	2	5.1	836	3	6.8	1430	17	66
28	856	1	2.3	778	2	4.2	1060	11	31
29	778	2	4.2	713	1	1.9	896	6	15
30	686	2	3.7	695	2	3.8	826	3	6.7
31	642	1	1.7	---	---	---	1050	5	14
TOTAL	33634	---	1015.1	32249	---	1360.8	18261	---	316.06
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	1300	18	63	1910	18	93	732	2	4.0
2	1090	10	29	2790	30	226	695	2	3.8
3	1110	4	12	1600	10	43	713	4	7.7
4	1040	3	8.4	1280	8	28	750	6	12
5	856	2	4.6	1160	7	22	704	5	9.5
6	788	4	8.5	1060	8	23	686	6	11
7	896	4	9.7	936	8	20	659	7	12
8	723	2	3.9	886	7	17	625	5	8.4
9	642	2	3.5	807	6	13	599	6	9.7
10	713	2	3.9	713	6	12	616	3	5.0
11	778	4	8.4	797	8	17	616	2	3.3
12	557	6	9.0	797	11	24	599	2	3.2
13	533	8	12	704	8	15	856	16	37
14	988	20	53	760	5	10	988	12	32
15	651	6	11	668	2	3.6	906	5	12
16	541	2	2.9	677	6	11	875	4	9.5
17	501	1	1.4	1860	60	301	856	3	6.9
18	480	1	1.3	1470	21	83	741	1	2.0
19	460	1	1.4	1520	11	45	713	1	1.9
20	490	3	4.9	1350	5	18	704	2	3.8
21	420	1	1.3	1190	2	6.4	723	7	14
22	400	1	1.2	1370	7	26	713	5	9.6
23	390	1	2.0	1280	6	21	633	2	3.4
24	380	1	2.6	1130	3	9.2	599	1	1.6
25	350	1	3.4	1040	3	8.4	590	1	1.6
26	2500	330	5610	957	3	7.8	573	1	1.5
27	11800	300	9440	896	2	4.8	565	4	6.1
28	6160	67	1110	826	2	4.5	788	11	23
29	3530	24	229	778	2	4.2	651	5	8.8
30	2400	15	97	---	---	---	599	3	4.9
31	1760	9	43	---	---	---	590	3	4.8
TOTAL	45237	---	16831.3	33212	---	1116.9	21657	---	274.0

01470500 SCHUYLKILL RIVER AT BERNE, PA--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	2350	57	444	433	5	5.8	533	5	7.2
2	2240	24	145	906	14	34	590	7	11
3	1760	10	48	668	5	9.0	493	5	6.7
4	1430	7	27	590	3	4.8	433	5	5.8
5	1160	5	16	549	3	4.4	410	7	7.7
6	977	3	7.9	525	5	7.1	421	8	9.1
7	856	3	6.9	509	5	6.9	458	9	11
8	760	3	6.2	486	4	5.2	388	7	7.3
9	677	5	4.1	478	3	3.9	360	8	7.8
10	616	6	10	462	5	6.2	343	8	7.4
11	607	6	9.8	425	6	6.9	324	8	7.0
12	544	7	10	403	8	11	317	6	5.1
13	493	6	9.0	418	5	5.6	323	7	5.1
14	455	5	6.1	399	3	3.2	325	8	7.0
15	433	6	7.0	382	4	4.1	296	9	7.2
16	425	3	3.4	403	6	6.5	324	10	8.7
17	425	1	1.1	988	20	53	411	14	16
18	403	1	1.1	886	14	33	307	6	5.0
19	382	1	1.0	856	5	12	289	8	6.2
20	341	2	1.8	807	6	13	354	10	9.5
21	344	3	2.8	1140	25	77	727	35	69
22	321	2	1.7	1050	16	45	1610	50	217
23	314	2	1.7	967	7	18	1210	23	75
24	301	1	.81	875	6	14	905	10	24
25	321	1	.87	778	5	11	722	7	14
26	651	10	18	713	6	12	633	6	10
27	448	3	3.6	677	4	7.3	549	6	8.9
28	382	2	2.1	607	3	4.9	509	7	9.6
29	361	2	1.9	565	3	4.6	564	7	11
30	341	2	1.8	633	6	10	956	40	103
31	---	---	---	582	5	7.9	---	---	---
TOTAL	21127	---	804.68	20240	---	447.3	16084	---	700.4

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	1660	60	269	353	6	5.7	229	3	1.9
2	946	15	38	299	4	3.2	243	5	3.3
3	748	9	18	282	3	2.3	275	10	7.4
4	706	7	13	265	3	2.1	247	7	4.7
5	642	6	10	261	2	1.4	240	7	4.5
6	545	4	5.9	259	1	.70	218	7	4.1
7	591	8	13	402	7	7.6	213	6	3.5
8	630	7	12	722	30	58	217	5	2.9
9	537	5	7.2	630	20	34	211	6	3.4
10	491	5	6.6	704	14	27	277	13	9.7
11	594	20	32	558	7	11	294	14	11
12	520	11	15	470	2	2.5	241	8	5.2
13	443	8	9.6	517	2	2.8	221	8	4.8
14	412	8	8.9	525	3	4.3	206	8	4.4
15	387	6	6.3	533	5	7.2	200	7	3.8
16	380	4	4.1	788	18	38	474	50	64
17	370	5	5.0	509	10	14	1250	43	145
18	348	4	3.8	431	7	8.1	756	20	41
19	326	3	2.6	387	4	4.2	536	13	19
20	303	3	2.5	352	3	2.9	435	10	12
21	299	4	3.2	334	1	.90	402	10	11
22	296	5	4.0	320	2	1.7	355	9	8.6
23	340	12	11	300	2	1.6	319	8	6.9
24	454	14	17	282	2	1.5	297	6	4.8
25	334	5	4.5	275	2	1.5	282	6	4.6
26	290	4	3.1	269	1	.73	418	10	11
27	270	3	2.2	292	1	.79	881	22	52
28	265	2	1.4	275	3	2.2	757	15	31
29	416	10	11	257	3	2.1	612	12	20
30	550	16	24	236	2	1.3	572	8	12
31	380	9	9.2	230	1	.62	---	---	---
TOTAL	15473	---	573.1	12317	---	251.94	11878	---	517.5
YEAR	281369		24209.08						

DELAWARE RIVER BASIN

01470500 SCHUYLKILL RIVER AT BERNE, PA--Continued

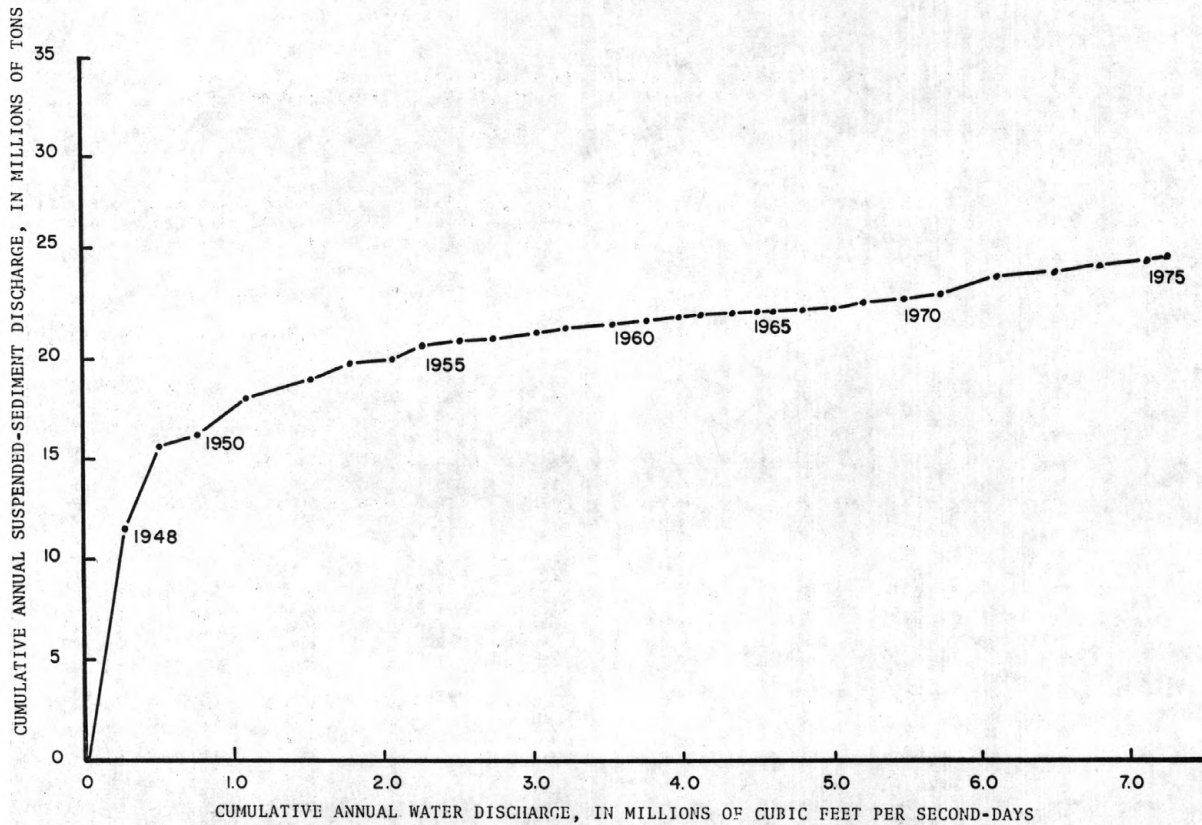


Figure 9.--Double mass accumulation of annual suspended-sediment discharge versus annual water discharge Schuylkill River at Berne, Pa.

Table 1.--Suspended sediment concentration-duration table, Schuylkill River at Berne

Period	Mean daily concentration, in milligrams per liter, that was equaled or exceeded for indicated percentage of time													
	1	2	5	10	20	30	40	50	60	70	80	90	95	99
1976	125	52	26	16	10	8	6	5	4	3	2	2	1	1
1960-76	100	54	26	15	9	7	5	4	4	3	2	2	1	1

DELAWARE RIVER BASIN

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01470720 MAIDEN CREEK TRIBUTARY AT LENHARTSVILLE, PA

LOCATION.--Lat 40°34'23", long 75°52'34", Berks County, Hydrologic Unit 02040203, on left bank 60 ft (18 m) downstream from culvert on Interstate Highway 78, 0.5 mi (0.8 km) upstream from mouth, and 0.5 mi (0.8 km) east of Lenhartsville.

DRAINAGE AREA.--7.46 mi² (19.3 km²).

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

REVISED RECORDS.--WDR PA-72: 1967(M), 1969-71(M).

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

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

AVERAGE DISCHARGE.--11 years, 12.2 ft³/s (0.346 m³/s), 22.15 in/yr (563 mm/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 1,530 ft³/s (43.3 m³/s) June 22, 1972, gage height, 6.46 ft (1.969 m), from peak-stage indicator, from rating curve extended above 280 ft³/s (7.93 m³/s) on basis of computation of peak flow through culvert; maximum gage height, 6.7 ft (2.04 m) Feb. 8, 1965, from floodmark; no flow on many days.

EXTREMES FOR CURRENT YEAR.--Peak discharges above base of 130 ft³/s (3.68 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	1845	130 3.68	3.39 1.033	Jan. 27	1600	382 10.8	4.13 1.259
Jan. 14	0115	291 8.24	3.90 1.189	Feb. 3	0745	299 8.47	3.92 1.195
Jan. 26	1500	*1,400 39.6	*6.24 1.902	Feb. 16	2200	145 4.11	3.45 1.052

Minimum discharge, 1.0 ft³/s (0.028 m³/s) Sept. 14, 15, gage height, 2.24 ft (0.683 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	21	6.9	9.4	37	45	8.6	55	16	3.6	7.4	3.0	1.6
2	17	6.7	7.3	30	54	8.1	52	16	4.7	5.6	2.1	2.0
3	13	6.3	6.7	30	133	9.1	40	13	3.3	6.0	1.9	2.0
4	11	5.9	6.3	23	14	11	31	11	2.7	6.0	1.7	1.8
5	9.5	5.6	6.1	17	9.1	9.1	23	9.1	2.4	4.7	1.6	1.7
6	8.4	5.1	6.2	15	8.2	8.6	18	7.9	2.8	4.1	1.8	1.4
7	7.3	5.1	5.9	14	7.0	7.7	15	7.1	2.9	6.8	6.1	1.4
8	6.7	12	6.1	13	6.0	7.2	12	6.0	2.4	4.6	8.1	1.3
9	6.9	6.1	6.2	18	4.6	7.2	9.3	5.5	2.2	3.9	5.8	1.2
10	6.8	24	6.4	13	9.3	8.1	7.7	4.9	2.0	3.3	8.9	1.9
11	8.1	24	5.3	8.4	25	9.1	7.9	4.9	1.9	9.4	5.4	1.5
12	6.2	57	5.0	7.0	9.6	8.6	6.8	7.1	1.7	4.9	4.6	1.4
13	5.3	106	4.8	9.4	9.1	26	6.3	4.6	1.7	4.3	4.4	1.3
14	4.9	77	4.7	70	7.7	31	5.9	4.3	1.8	3.8	4.7	1.2
15	4.7	50	4.7	15	5.4	29	5.5	4.1	1.8	3.5	9.7	1.2
16	4.5	35	4.9	10	22	27	5.3	5.4	3.4	3.6	8.1	1.3
17	5.6	26	4.4	8.8	29	22	4.9	5.7	13	3.1	5.9	1.8
18	33	20	4.3	10	25	17	4.5	5.4	4.6	2.6	5.1	7.7
19	77	16	4.0	8.8	24	15	4.2	5.4	4.2	2.4	4.4	5.9
20	74	13	3.8	7.8	20	13	4.2	5.4	10	2.2	3.9	5.0
21	54	21	3.7	7.0	17	13	5.1	9.7	25	2.4	3.5	4.6
22	41	14	3.5	6.2	29	10	4.2	6.3	33	2.4	3.1	3.7
23	30	13	3.4	5.6	25	8.9	3.7	5.6	26	2.9	2.8	3.1
24	23	12	3.3	5.4	21	8.2	3.5	5.1	19	3.5	2.5	2.7
25	19	11	3.2	5.0	19	8.0	4.0	4.8	14	2.2	2.4	2.6
26	15	10	4.4	53.8	15	7.2	5.8	4.7	10	1.9	2.3	7.1
27	13	11	3.4	180	13	7.8	3.7	4.2	8.6	1.9	2.3	16
28	11	9.3	2.4	65	11	8.9	3.5	3.7	7.4	1.8	2.2	14
29	9.7	8.1	1.8	36	9.1	6.7	3.2	3.6	8.8	3.8	2.0	12
30	8.5	7.5	2.2	23	---	6.3	3.1	4.5	10	3.0	1.6	11
31	7.4	---	2.5	15	---	6.9	---	3.6	---	2.5	1.6	---
TOTAL	562.5	624.6	296.6	1251.4	630.1	374.3	358.3	204.6	234.9	120.5	123.5	149.3
MEAN	18.1	20.8	9.57	40.4	21.7	12.1	11.9	6.60	7.83	3.89	3.98	4.98
MAX	77	106	44	53.8	133	31	55	16	33	9.4	9.7	18
MIN	4.5	5.1	3.2	5.0	4.6	6.3	3.1	3.6	1.7	1.8	1.6	1.2
CFSM	2.43	2.79	1.28	5.42	2.91	1.62	1.60	.88	1.05	.52	.53	.67
IN.	2.80	3.11	1.48	6.24	3.14	1.87	1.79	1.02	1.17	.60	.62	.74

CAL YR 1975 TOTAL 6630.5 MEAN 18.2 MAX 152 MIN 2.6 CFSM 2.44 IN 33.06
WTR YR 1976 TOTAL 4930.6 MEAN 13.5 MAX 53.8 MIN 1.2 CFSM 1.81 IN 24.58

DELAWARE RIVER BASIN

01470729 SACYON CREEK ABOVE BOWERS, PA

LOCATION.--Lat 40°28'58", long 75°44'25", Berks County, Hydrologic Unit 02040203, at upstream side of bridge on Lyons-Bowers Road, at Bowers, 0.15 mi (0.24 km) upstream from left bank tributary and 1.1 mi (1.8 km) downstream from Little Sacyon Creek.

DRAINAGE AREA.--5.70 mi² (14.76 km²).

WATER-DISCHARGE RECORDS

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

GAGE.--Water-stage recorder. Altitude of gage is 440 ft (134 m) from topographic map.

REMARKS.--Records good, except those for the period Dec. 19 to Feb. 8, which are fair.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 710 ft³/s (20.1 m³/s) Jan. 26, 1976, gage height, 6.50 ft (1.981 m); minimum, 0.58 ft³/s (0.016 m³/s) Sept. 12, 13, 1976, gage height, 3.83 ft (1.167 m).

EXTREMES FOR CURRENT YEAR.--Peak discharges above base of 200 ft³/s (5.66 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	1015	661 18.7	6.43 1.960	Jan. 26	1445	*710 20.1	*6.50 1.981
Oct. 19	0830	202 5.72	5.50 1.676	Jan. 27	1730	287 8.13	5.74 1.750
Jan. 14	0230	295 8.35	5.76 1.756				

Minimum discharge, 0.58 ft³/s (0.016 m³/s) Sept. 12, 13, gage height, 3.83 ft (1.167 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	8.9	8.8	14	26	25	11	56	24	10	13	2.2	1.8
2	8.6	8.8	11	13	19	11	17	17	11	6.5	2.1	2.2
3	7.8	8.7	9.5	12	17	12	15	9.7	6.2	5.6	1.9	2.4
4	7.5	8.6	8.9	11	16	14	15	9.0	4.8	4.7	1.9	1.8
5	7.4	8.3	8.9	10	15	12	13	7.2	4.1	4.3	1.8	1.6
6	7.4	8.0	8.9	9.5	13	11	12	6.5	4.1	3.9	1.9	1.8
7	7.0	8.0	8.6	9.0	13	9.7	11	6.2	4.1	5.4	11	1.7
8	6.7	17	8.1	8.6	12	9.3	11	5.9	3.7	5.9	6.8	1.6
9	7.4	9.8	8.6	8.2	12	9.3	10	5.6	3.3	3.6	5.1	1.6
10	8.1	24	9.7	8.0	12	10	9.7	5.3	3.1	2.9	17	2.1
11	11	15	8.2	7.8	16	12	9.7	5.3	3.0	10	4.6	1.7
12	8.8	46	7.8	7.6	8.4	11	9.3	8.0	2.8	4.5	2.8	1.1
13	7.3	45	7.6	7.4	8.8	37	9.3	5.6	2.8	2.8	6.2	1.3
14	6.7	20	7.6	76	4.8	16	8.8	5.3	3.0	2.1	12	1.6
15	6.4	15	7.7	13	3.5	13	8.4	5.1	3.0	1.8	5.9	1.4
16	6.2	14	8.1	9.3	4.8	16	8.4	6.5	3.3	2.8	8.4	11
17	6.7	13	7.3	7.9	16	15	9.0	8.0	15	3.3	3.5	8.9
18	102	12	7.0	7.0	15	12	7.6	13	4.6	2.9	2.2	7.5
19	68	12	6.9	6.5	21	12	7.2	9.7	3.5	2.6	1.4	3.0
20	30	11	6.7	6.2	16	11	6.9	7.2	4.8	2.8	1.2	2.5
21	18	18	6.5	5.9	14	12	7.2	13	17	2.6	1.4	2.5
22	15	15	6.3	5.6	29	11	6.9	7.6	9.3	2.4	1.5	2.3
23	13	12	6.2	5.4	16	10	6.2	5.9	6.2	3.0	1.5	2.1
24	13	11	6.0	5.2	14	10	6.2	5.1	4.8	3.6	1.4	2.0
25	14	11	6.0	5.0	14	9.7	6.9	4.8	4.1	2.4	2.0	2.0
26	13	10	33	197	13	9.7	11	4.8	3.5	2.2	2.2	3.0
27	12	12	14	141	12	9.7	7.2	4.8	6.5	2.2	2.4	10
28	11	11	9.9	45	12	13	6.9	4.3	6.2	2.2	2.5	6.7
29	9.8	9.6	8.5	22	11	9.7	6.2	4.1	19	3.3	2.2	3.0
30	9.0	9.6	13	17	---	9.3	6.2	5.9	23	3.0	1.8	3.2
31	8.8	---	20	12	---	9.3	---	5.9	---	2.5	1.8	---
TOTAL	466.5	432.2	300.5	725.1	403.3	377.7	324.2	235.3	199.8	120.8	120.6	95.4
MEAN	15.0	14.4	9.69	23.4	13.9	12.2	10.8	7.59	6.66	3.90	3.89	3.18
MAX	102	46	33	197	29	37	56	24	23	13	17	11
MIN	6.2	8.0	6.0	5.0	3.5	9.3	6.2	4.1	2.8	1.8	1.2	1.1
CFSM	2.63	2.53	1.70	4.11	2.44	2.14	1.89	1.33	1.17	.68	.68	.56
IN.	3.04	2.82	1.96	4.73	2.63	2.46	2.12	1.54	1.30	.79	.79	.62

CAL YR 1975 TOTAL 5585.8 MEAN 15.3 MAX 114 MIN 3.5 CFSM 2.68 IN 36.45
WTR YR 1976 TOTAL 3801.4 MEAN 10.4 MAX 197 MIN 1.1 CFSM 1.82 IN 24.80

DELAWARE RIVER BASIN

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01470729 SACONY CREEK ABOVE BOWERS, PA--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--July 1974 to June 1976 (discontinued).

PERIOD OF DAILY RECORD.--

SUSPENDED SEDIMENT DISCHARGE: May 1975 to June 1976 (discontinued).

EXTREMES FOR PERIOD OF DAILY RECORD.--

SEDIMENT CONCENTRATIONS: Maximum, 420 mg/l June 29, 1976; minimum, 2 mg/l Oct. 6, 7, Nov. 5-7, 1975.

SEDIMENT LOADS: Maximum, 286 tons (259 t) Jan. 26, 1976; minimum, 0.02 tons (0.02 t) June 11-15, 1976.

EXTREMES FOR CURRENT YEAR.--

SEDIMENT CONCENTRATIONS: Maximum, 420 mg/l June 29; minimum, 2 mg/l Oct. 6, 7, Nov. 5-7.

SEDIMENT LOADS: Maximum, 286 tons (259 t) Jan. 26; minimum, 0.02 tons (0.02 t) June 11-15.

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

DAY	OCTOBER			NOVEMBER			DECEMBER		
	MEAN DISCHARGE (CFS)	MEAN CONCEN- TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN- TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN- TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)
1	8.9	3	.07	8.8	4	.10	14	8	.30
2	8.6	3	.07	8.8	4	.10	11	7	.21
3	7.8	3	.06	8.7	3	.07	9.5	7	.18
4	7.5	3	.06	8.6	3	.07	8.9	7	.17
5	7.4	3	.06	8.3	2	.04	8.9	7	.17
6	7.4	2	.04	8.0	2	.04	8.9	6	.14
7	7.0	2	.04	8.0	2	.04	8.6	6	.14
8	6.7	3	.05	17	30	1.4	8.1	6	.13
9	7.4	3	.06	9.8	10	.26	8.6	5	.12
10	8.1	3	.07	24	56	5.4	9.7	7	.18
11	11	7	.21	15	36	1.5	8.2	7	.16
12	8.8	5	.12	46	54	13	7.8	6	.13
13	7.3	3	.06	45	26	3.4	7.6	6	.12
14	6.7	3	.05	20	10	.54	7.6	5	.10
15	6.4	3	.05	15	9	.36	7.7	5	.10
16	6.2	3	.05	14	9	.34	8.1	5	.11
17	6.7	3	.05	13	9	.32	7.3	4	.08
18	102	207	122	12	8	.26	7.0	4	.08
19	68	53	17	12	8	.26	7.9	5	.11
20	30	7	.57	11	6	.18	8.9	4	.10
21	18	7	.34	18	6	.29	8.7	4	.09
22	15	6	.24	15	30	1.2	6.3	4	.07
23	13	6	.21	12	10	.32	6.2	6	.10
24	13	5	.18	11	8	.24	7.6	7	.14
25	14	5	.19	11	6	.18	6.5	7	.12
26	13	5	.18	10	6	.16	33	80	12
27	12	5	.16	12	5	.16	14	15	.57
28	11	4	.12	11	5	.15	9.9	7	.19
29	9.8	4	.11	9.6	5	.13	8.5	6	.14
30	9.0	4	.10	9.6	5	.13	13	14	.49
31	8.8	4	.10	---	---	---	20	28	1.5
TOTAL	466.5	---	142.67	432.2	---	30.64	308.0	---	18.24

DELAWARE RIVER BASIN

01470729 SACONY CREEK ABOVE BOWERS, PA--Continued

SUSPENDED-SEDIMENT DISCHARGE (TONS/DAY), OCTOBER 1975 TO JUNE 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	26	30	2.1	25	38	2.6	11	7	.20
2	13	12	.42	27	22	1.6	11	7	.20
3	12	8	.26	24	20	1.3	12	6	.20
4	11	8	.24	31	30	2.5	14	6	.23
5	21	12	.68	15	13	.51	12	6	.19
6	13	10	.35	13	11	.40	11	6	.17
7	14	8	.30	15	9	.37	9.7	5	.13
8	21	16	.91	13	9	.33	9.3	5	.13
9	12	11	.36	12	9	.28	9.3	5	.13
10	22	8	.48	12	8	.26	10	6	.17
11	21	6	.34	16	9	.39	12	6	.19
12	22	6	.36	8.4	7	.16	11	7	.21
13	21	15	.75	8.8	5	.12	37	75	12
14	76	31	11	4.8	3	.04	16	15	.64
15	13	10	.35	3.5	3	.03	13	12	.41
16	9.3	7	.18	4.8	14	.18	16	14	.60
17	7.9	5	.11	16	36	1.5	15	11	.43
18	7.7	5	.10	15	16	.66	12	10	.33
19	13	8	.28	21	14	.80	12	10	.33
20	20	6	.32	16	11	.47	11	9	.27
21	19	5	.26	14	10	.38	12	9	.30
22	15	5	.20	29	30	2.3	11	7	.21
23	13	4	.14	16	13	.56	10	7	.19
24	15	4	.16	14	11	.42	10	5	.14
25	19	4	.21	14	11	.42	9.7	5	.13
26	197	275	286	13	10	.35	9.7	5	.13
27	141	117	58	12	8	.26	9.7	5	.13
28	45	60	7.2	12	7	.22	13	12	.41
29	22	15	.89	11	7	.21	9.7	7	.18
30	17	11	.51	---	---	---	9.3	6	.15
31	12	8	.26	---	---	---	9.3	6	.15
TOTAL	890.9	---	373.72	436.3	---	19.62	377.7	---	19.28
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	56	140	36	24	87	20	10	30	.83
2	17	12	.56	17	10	.47	11	25	.72
3	15	9	.36	9.7	7	.18	6.2	6	.10
4	15	9	.37	8.0	7	.15	4.8	4	.05
5	13	8	.28	7.2	7	.14	4.1	4	.04
6	12	8	.25	6.5	6	.11	4.1	4	.04
7	11	8	.24	6.2	6	.10	4.1	4	.04
8	11	7	.20	5.9	6	.10	3.7	3	.03
9	10	6	.17	5.6	6	.09	3.3	3	.03
10	9.7	6	.16	5.3	4	.06	3.1	3	.03
11	9.7	6	.16	5.3	4	.06	3.0	3	.02
12	9.3	6	.15	8.0	6	.13	2.8	3	.02
13	9.3	5	.13	5.6	4	.06	2.8	3	.02
14	8.8	5	.12	5.3	4	.06	3.0	3	.02
15	8.4	5	.11	5.1	3	.04	3.0	3	.02
16	8.4	5	.11	6.5	15	.26	3.3	20	1.2
17	8.0	5	.11	8.0	10	.22	15	144	14
18	7.6	5	.10	13	24	.78	4.6	50	.61
19	7.2	5	.10	9.7	14	.37	3.5	20	.19
20	6.9	4	.07	7.2	8	.16	4.8	115	10
21	7.2	5	.10	13	18	.65	17	70	8.0
22	6.9	5	.09	7.6	11	.23	9.3	25	.63
23	6.2	4	.07	5.9	6	.10	6.2	10	.17
24	6.2	4	.07	5.1	4	.05	4.8	8	.10
25	6.9	5	.09	4.8	4	.05	4.1	7	.08
26	11	7	.21	4.8	4	.05	3.5	7	.07
27	7.2	7	.14	4.8	3	.04	6.5	45	.79
28	6.9	6	.11	4.3	3	.03	6.2	34	.57
29	6.2	6	.10	4.1	3	.03	19	420	33
30	6.2	6	.10	5.9	3	.05	23	410	42
31	---	---	---	5.9	10	.16	---	---	---
TOTAL	324.2	---	40.83	235.3	---	24.98	199.8	---	113.42

DELAWARE RIVER BASIN

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01470736 SACYNY CREEK AT NORMAL AVENUE AT KUTZTOWN, PA

LOCATION.--Lat 40°30'57", long 75°46'17", Berks County, Hydrologic Unit 02040203, on right bank, 150 ft (46 m) upstream from Normal Avenue bridge at Kutztown, and 1,000 ft (305 m) downstream from left bank tributary.

DRAINAGE AREA.--20.4 mi² (52.8 km²).

PERIOD OF RECORD.--October 1974 to September 1976 (discontinued).

GAGE.--Water-stage recorder. Altitude of gage is 420 ft (128 m), from topographic map.

REMARKS.--Records fair.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 686 ft³/s (19.4 m³/s) Jan. 26, 1976, gage height, 6.94 ft (2.115 m); minimum, 1.9 ft³/s (0.054 m³/s) Dec. 1, 1974; minimum gage height, 1.35 ft (0.411 m) Sept. 24, 25, 26, 1976.

EXTREMES FOR CURRENT YEAR.--Peak discharges above base of 240 ft³/s (6.8 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	1545	304 8.61	4.55 1.387	Jan. 26	1645	*686 19.4	*6.94 2.115
Oct. 19	1430	246 6.97	4.19 1.277	Jan. 27	2100	374 10.6	4.85 1.478

Minimum discharge, 2.2 ft³/s (0.062 m³/s) Sept. 24, 25, 26, gage height, 1.35 ft (0.411 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	25	25	39	47	72	30	85	30	19	39	4.8	3.4
2	24	25	30	32	95	29	38	46	23	18	4.8	3.5
3	23	24	29	29	51	30	30	22	14	16	4.6	3.6
4	22	24	28	26	50	34	30	19	12	15	4.6	3.4
5	21	24	27	24	47	30	27	18	12	15	4.4	3.2
6	21	23	27	23	44	27	26	16	12	15	4.4	2.9
7	20	23	26	22	41	25	24	16	12	19	9.9	2.8
8	19	49	25	21	41	24	24	15	11	18	7.6	2.7
9	21	29	25	20	39	23	24	15	11	14	6.6	2.6
10	23	67	26	20	38	26	24	14	11	13	19	3.0
11	30	45	24	19	50	27	24	15	9.9	24	6.6	3.0
12	27	73	24	19	49	28	22	19	10	14	5.0	2.6
13	24	100	23	19	45	60	22	14	10	12	5.6	2.6
14	23	50	23	89	45	40	22	13	10	11	15	2.5
15	23	44	23	29	38	31	22	13	10	10	6.9	2.5
16	23	41	23	25	41	33	22	15	11	11	11	11
17	24	38	22	23	66	35	22	19	34	9.9	5.4	9.1
18	117	35	21	16	51	28	21	23	13	8.5	4.8	7.4
19	127	35	19	15	54	29	20	19	11	8.5	4.3	3.4
20	62	35	18	15	44	28	19	15	19	8.2	4.3	2.8
21	44	49	18	14	40	28	20	23	41	7.9	4.1	2.7
22	36	38	17	14	60	27	19	17	29	7.6	4.3	2.5
23	35	34	17	14	42	25	18	14	21	7.4	4.1	2.3
24	35	32	17	14	35	25	18	13	17	7.9	4.0	2.3
25	40	30	17	14	34	24	19	13	15	6.4	3.8	2.3
26	36	30	53	291	33	24	24	13	14	5.8	3.8	2.8
27	33	34	41	293	32	24	18	12	16	5.8	4.0	6.4
28	30	32	27	151	31	28	17	11	21	5.6	4.0	7.1
29	27	30	24	67	30	24	16	11	41	6.2	3.8	3.1
30	26	30	25	57	---	23	16	14	34	6.0	3.4	2.9
31	25	---	39	51	---	23	---	12	---	5.4	3.4	---
TOTAL	1066	1148	797	1513	1338	892	733	529	523.9	371.1	182.3	112.4
MEAN	34.4	38.3	25.7	48.8	46.1	28.8	24.4	17.1	17.5	12.0	5.88	3.75
MAX	127	100	53	293	95	60	85	46	41	39	19	11
MIN	19	23	17	14	30	23	16	11	9.9	5.4	3.4	2.3
CFSM	1.69	1.88	1.26	2.39	2.26	1.41	1.20	.84	.86	.59	.29	.18
IN.	1.94	2.09	1.45	2.76	2.44	1.63	1.34	.96	.96	.68	.33	.20

CAL YR 1975	TOTAL	12951.0	MEAN 35.5	MAX 235	MIN	11	CFSM 1.74	IN 23.62
WTR YR 1976	TOTAL	9205.7	MEAN 25.2	MAX 293	MIN	2.3	CFSM 1.24	IN 16.79

DELAWARE RIVER BASIN

01470756 MAIDEN CREEK AT VIRGINVILLE, PA

LOCATION.--Lat 40°30'51", long 75°53'00", Berks County, Hydrologic Unit 02040203, on right bank 0.9 mi (1.4 km) downstream from Sacony Creek, 0.9 mi (1.4 km) southwest of Virginville, and 1.0 mi (1.6 km) upstream from Moselem Creek.

DRAINAGE AREA.--159 mi² (412 km²).

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

GAGE.--Water-stage recorder. Altitude of gage is 310 ft (94.5 m) from topographic map.

REMARKS.--Records fair.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 7,060 ft³/s (200 m³/s) Jan. 26, 1976, gage height, 11.51 ft (3.508 m); minimum, 26 ft³/s (0.74 m³/s) Sept. 9, 10, 15, 16, 1976; minimum gage height, 1.98 ft (0.604 m) July 19, 1974.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood of June 1972 reached a stage of 17.2 feet (5.24 m), from floodmarks, discharge, about 17,000 ft³/s (481 m³/s).

EXTREMES FOR CURRENT YEAR.--Peak discharges above base of 2,000 ft³/s (56.6 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	1300	2,100 59.5	5.85 1.783	Jan. 26	2130	*7,060 200	*11.51 3.508
Nov. 13	0600	2,570 72.8	6.49 1.978	Feb. 2	0400	2,580 73.1	6.50 1.981
Jan. 14	0645	3,100 87.8	7.15 2.179				

Minimum discharge, 26 ft³/s (0.74 m³/s) Sept. 9, 10, 15, 16, gage height, 1.99 ft (0.607 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	351	199	243	742	791	258	1280	159	112	232	52	37
2	291	192	221	550	1470	239	918	451	153	135	45	41
3	239	185	207	530	565	251	625	215	115	115	41	42
4	211	178	192	458	408	289	485	178	96	123	35	38
5	191	171	189	351	338	258	379	159	85	104	35	35
6	178	165	189	305	270	239	311	147	85	93	37	30
7	162	161	189	301	240	225	269	138	98	115	135	29
8	150	239	175	310	220	214	239	126	83	115	181	29
9	147	185	178	290	210	207	215	118	75	88	159	27
10	150	377	199	270	200	214	194	112	70	80	201	30
11	181	467	178	260	501	225	188	107	66	150	138	42
12	162	890	168	250	338	232	169	156	64	115	107	32
13	135	2300	161	250	281	575	162	115	59	91	93	29
14	127	1360	165	1380	289	635	153	104	61	83	104	27
15	121	835	161	372	217	525	147	101	61	73	101	26
16	115	605	168	262	277	472	141	104	68	73	91	115
17	113	477	154	210	907	435	138	178	229	70	57	332
18	828	394	150	200	565	338	129	250	107	59	54	135
19	1630	342	140	180	580	322	123	201	88	54	54	95
20	1420	309	130	170	472	293	121	165	91	52	44	80
21	952	454	125	170	390	281	132	311	405	50	42	70
22	695	403	120	160	650	266	118	232	605	57	42	59
23	530	317	120	150	540	232	109	188	419	57	42	52
24	431	293	115	140	444	221	104	165	280	91	41	48
25	381	277	110	140	390	214	109	150	218	57	42	46
26	338	262	907	3600	347	203	150	138	178	44	34	78
27	293	281	715	4850	313	196	115	132	150	42	33	232
28	266	258	444	2170	285	236	104	118	153	42	33	191
29	247	228	347	918	262	189	98	109	172	57	33	144
30	228	217	334	625	---	178	96	132	185	70	34	129
31	207	---	540	458	---	178	---	118	---	35	34	---
TOTAL	11470	13021	7434	21022	12760	8840	7521	5077	4631	2624	2178	2301
MEAN	370	434	240	678	440	285	251	164	154	84.6	70.4	76.7
MAX	1630	2300	907	4850	1470	635	1280	451	605	232	201	332
MIN	113	161	110	140	200	178	96	101	59	35	33	26
CFSM	2.33	2.73	1.51	4.26	2.77	1.79	1.58	1.03	.97	.53	.44	.48
IN.	2.68	3.05	1.74	4.92	2.99	2.07	1.76	1.19	1.08	.61	.51	.54

CAL YR 1975	TOTAL	142232	MEAN	390	MAX	3470	MIN	54	CFSM	2.45	IN	33.28
WTR YR 1976	TOTAL	98879	MEAN	270	MAX	4850	MIN	26	CFSM	1.70	IN	23.13

DELAWARE RIVER BASIN

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01470764 MAIDEN CREEK NEAR LEESPORT, PA

LOCATION.--Lat 40°25'28", long 75°56'53", Berks County, Hydrologic Unit 02040203, 220 ft (67 m) upstream from Reading Railroad Bridge, 600 ft (183 m) upstream from Schuylkill River, 0.5 mi (0.8 km) downstream from Willow Creek and 1.9 mi (3.1 km) southeast of Leesport.

DRAINAGE AREA.--not available.

PERIOD OF RECORD.--January 1976 to current year.

COOPERATION.--Water-quality data were furnished by the Pennsylvania Department of Environmental Resources.

WATER QUALITY DATA, JANUARY TO SEPTEMBER 1976

DATE	TIME	CODE FOR AGENCY COL- LECTING SAMPLE	SPE- CIFIC CON- DUCT- ANCE (MICRO- MHOS)	PH (UNITS)	TEMPER- ATURE (DEG C)	TUR- BID- ITY (JTU)	DIS- SOLVED OXYGEN (MG/L)	HARD- NESS (CA,MG) (MG/L)	MINERAL ACIDITY (METHYL ORANGE) AS CACO3 (MG/L)	ACIDITY CO2 AS CACO3 (MG/L)	DIS- SOLVED CAL- CIUM (CA) (MG/L)	DIS- SOLVED MAG- NE- SIUM (MG) (MG/L)
JAN 12...	1045	9813	190	--	--	5	--	90	0	0	27	5.5
FEB 17...	1030	9813	160	7.5	4.5	15	10.0	94	0	0	24	8.0
MAR 08...	1050	9813	200	8.0	8.0	4	11.3	120	0	0	28	12
APR 07...	1115	9813	200	7.8	10.5	65	11.0	63	0	0	24	5
MAY 11...	0930	9813	280	8.5	15.5	5	9.5	156	0	0	30	20
JUN 28...	1115	9813	245	8.5	25.0	6	9.0	99	0	0	28	7.5
JUL 19...	1140	9813	280	8.5	22.0	5	8.8	120	--	0	31	10
AUG 16...	1125	9813	220	8.5	22.0	7	8.0	85	0	0	23	6.5

DATE	ALKA- LITY AS CACO3 (MG/L)	DIS- SOLVED SULFATE (SO4) (MG/L)	DIS- SOLVED CHLO- RIDE (CL) (MG/L)	TOTAL FILT- RABLE RESIDUE (MG/L)	TOTAL NITRATE (N) (MG/L)	TOTAL NITRITE (N) (MG/L)	TOTAL AMMONIA NITRO- GEN (N) (MG/L)	TOTAL PHOS- PHORUS (P) (MG/L)	TOTAL COPPER (CU) (UG/L)	TOTAL IRON (FE) (UG/L)	TOTAL MAN- GANESE (MN) (UG/L)
JAN 12...	70	20	8.0	204	3.7	.04	.10	.09	<10	190	--
FEB 17...	70	22	9.0	--	2.5	.04	.21	.10	<10	370	40
MAR 08...	82	24	10	--	3.0	.11	.10	.05	<10	180	--
APR 07...	72	26	9.0	--	2.3	.05	.11	.34	--	1580	--
MAY 11...	92	14	9.0	174	2.6	.04	.10	.12	<10	--	180
JUN 28...	88	24	10	156	2.1	.05	.05	.10	10	150	--
JUL 19...	94	14	10	196	2.6	.05	.15	.10	<10	260	--
AUG 16...	70	18	11	166	1.4	.03	.07	.05	10	260	--

DELAWARE RIVER BASIN

01470779 TULPEHOCKEN CREEK NEAR BERNVILLE, PA

LOCATION.--Lat 40°24'48", long 76°10'19", Berks County, Hydrologic Unit 02040203, on left bank 30 ft (9.1 m) downstream from Kricks Mill Bridge, 0.4 mi (0.6 km) upstream from Mill Creek, and 3.5 mi (5.6 km) west of Bernville.

DRAINAGE AREA.--66.5 mi² (172.2 km²).

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

GAGE.--Water-stage recorder. Datum of gage is 311.26 ft (94.872 m) above mean sea level.

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

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 3,220 ft³/s (91.2 m³/s) Jan. 26, 1976, gage height, 8.01 ft (2.441 m), from rating curve extended above 740 ft³/s (21 m³/s) on basis of contracted-opening measurement of peak flow; minimum, 48 ft³/s (1.36 m³/s) Nov. 24, 1974; minimum gage height, 1.85 ft (0.564 m) June 12, 16, 1976.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood of June 1972 reached a stage of about 9.5 ft (2.9 m), from information by local resident, discharge not determined.

EXTREMES FOR CURRENT YEAR.--Peak discharges above base of 950 ft³/s (26.9 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. 26	1515	*3,220 91.2	*8.01 2.441	July 30	0630	954 27.0	5.13 1.564
June 30	2300	2,270 64.3	7.12 2.170				

Minimum discharge, 50 ft³/s (1.42 m³/s) June 12, 16, gage height, 1.85 ft (0.564 m).

REVISIONS.--Peak discharges for the water year 1975 have been revised to 1,040 ft³/s (29.5 m³/s) June 28, 1975 (1930 hours), gage height, 5.33 ft (1.625 m), and 1,450 ft³/s (41.1 m³/s) Sept. 26, 1975 (2215 hours), 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	222	129	115	217	270	121	277	86	62	949	148	81
2	206	127	107	150	390	116	175	118	128	230	135	79
3	188	122	104	166	217	116	155	90	89	193	123	79
4	177	109	113	156	202	132	150	83	80	175	116	77
5	170	105	112	137	189	121	139	81	77	152	111	76
6	164	104	112	130	177	128	132	80	77	139	98	73
7	156	102	109	129	160	113	125	68	76	165	154	72
8	152	120	96	134	150	109	121	63	72	154	144	76
9	148	113	98	112	140	109	116	62	70	141	142	83
10	148	134	98	105	140	113	113	62	57	123	173	89
11	150	130	93	100	189	114	109	62	53	189	135	75
12	156	270	101	98	159	118	106	86	52	135	126	71
13	139	439	101	96	154	171	105	76	62	111	135	68
14	132	252	99	330	152	146	101	75	65	105	256	67
15	127	210	99	141	130	135	98	73	65	101	193	66
16	125	190	98	130	130	133	97	93	56	125	175	285
17	127	174	85	110	202	141	95	128	148	100	152	277
18	278	166	84	100	169	132	93	105	63	106	142	161
19	305	158	81	96	171	132	90	83	60	101	121	135
20	232	152	82	92	154	121	89	73	70	95	114	113
21	199	172	93	86	144	114	100	75	105	83	109	106
22	179	160	93	82	181	118	90	80	181	80	106	98
23	156	145	81	79	157	113	86	80	113	87	103	93
24	148	130	76	76	144	109	83	79	97	154	111	89
25	156	125	76	74	141	106	84	76	87	92	111	87
26	152	120	188	1630	137	92	93	76	81	83	109	97
27	146	132	136	1550	132	89	84	65	77	80	98	108
28	130	129	120	649	128	111	81	60	68	76	95	100
29	125	123	113	345	123	103	68	59	109	133	89	87
30	122	122	115	258	---	100	67	73	676	433	84	87
31	129	---	143	221	---	100	---	63	---	154	83	---
TOTAL	5144	4664	3221	7779	4932	3676	3322	2433	3076	5044	3991	3055
MEAN	166	155	104	251	170	119	111	78.5	103	163	129	102
MAX	305	439	188	1630	390	171	277	128	676	949	256	285
MIN	122	102	76	74	123	89	67	59	52	76	83	66
CFSM	2.50	2.33	1.56	3.77	2.56	1.79	1.67	1.18	1.55	2.45	1.94	1.53
IN.	2.88	2.61	1.80	4.35	2.76	2.06	1.86	1.36	1.72	2.82	2.23	1.71

CAL YR 1975 TOTAL 53675 MEAN 147 MAX 923 MIN 58 CFSM 2.21 IN 30.03
WTR YR 1976 TOTAL 50337 MEAN 138 MAX 1630 MIN 52 CFSM 2.08 IN 28.16

DELAWARE RIVER BASIN

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01470800 TULPEHOCKEN CREEK AT BERNVILLE, PA

LOCATION.--Lat 40°25'32", long 76°06'51", Berks County, Hydrologic Unit 02040203, at single-span concrete bridge on Legislative Route 06047 0.5 mi (0.8 km) south of Bernville, 600 ft (183 m) above confluence with Northkill Creek.

DRAINAGE AREA.--84.8 mi² (220 km²).

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

WATER QUALITY DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

DATE	TIME	DEPTH (FT)	INSTAN- TANEOUS DIS- CHARGE (CFS)	SPE- CIFIC CON- DUCT- ANCE (MICRO- MHOS)	PH (UNITS)	TEMPER- ATURE (DEG C)	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)	ALKA- LINITY AS CAC03 (MG/L)
OCT 07...	1330	1.0	180	520	7.9	14.0	9.8	7100	900	420	197
NOV 12...	1045	1.0	127	480	7.7	10.0	10.8	6600	E4100	5000	179
DEC 10...	0930	1.0	125	600	7.9	6.0	10.8	1700	630	4300	192
JAN 14...	1225	1.0	350	280	7.0	3.0	12.2	34000	>6000	--	77
FEB 10...	1145	1.0	180	500	7.5	4.0	12.8	850	560	880	177
MAR 15...	1330	1.0	190	425	8.2	8.0	12.2	200	E30	1900	148
APR 01...	1330	1.0	490	340	7.3	11.0	10.2	23000	14000	42000	105
21...	0930	1.0	130	420	7.8	19.0	8.0	E6000	E6200	6100	161
MAY 18...	1120	1.0	170	359	7.7	18.0	8.0	B90000	B64000	23000	B151
JUN 09...	0950	1.0	90	500	8.0	20.0	8.2	5000	2200	240	166
29...	1300	1.0	200	420	7.8	23.0	8.8	22000	B22000	1900	165
JUL 27...	1025	1.0	85	450	8.1	20.0	8.0	5800	2700	700	190
AUG 19...	1040	1.0	170	490	7.8	17.0	8.8	4600	3000	1200	185
SEP 22...	1015	1.0	130	500	7.9	14.0	9.8	2800	1700	1100	185

DATE	TOTAL NITRATE (N) (MG/L)	TOTAL NITRITE (N) (MG/L)	TOTAL 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 NITRO- GEN (N) (MG/L)	TOTAL PHOS- PHORUS (P) (MG/L)	TOTAL ORTHO PHOS- PHORUS (P) (MG/L)	TOTAL ORGANIC CARBON (C) (MG/L)	POTEN- TIAL ALGAL GROWTH BOTTLE TEST (MG/L)
OCT 07...	6.3	--	--	.04	.37	.41	--	.09	.05	1.6	--
NOV 12...	6.4	--	--	.00	.64	.64	--	.08	.04	--	--
DEC 10...	5.9	--	--	.05	.25	.30	--	--	.05	2.4	--
JAN 14...	3.1	--	--	.96	2.7	3.7	--	1.0	.45	28	--
FEB 10...	6.0	--	--	.07	.27	.34	--	.11	.05	1.6	--
MAR 15...	6.8	--	--	.02	.53	.55	--	.03	.01	4.4	--
APR 01...	3.4	.07	3.5	.25	2.8	3.0	6.5	.66	.10	21	--
21...	5.2	.08	5.3	.10	.75	.85	6.2	.12	.05	7.5	--
MAY 18...	4.8	.22	5.0	.22	3.9	4.1	9.1	1.8	.20	16	--
JUN 09...	5.3	.08	5.4	.03	.65	.68	6.1	.18	.08	3.7	--
29...	4.9	.06	5.0	.02	.66	.68	5.7	.20	.08	5.1	--
JUL 27...	5.1	.04	5.1	.00	.13	.13	5.2	.12	.08	3.9	23
AUG 19...	4.8	.03	4.8	.03	.47	.50	5.3	.10	.06	7.5	25
SEP 22...	5.0	.04	5.0	.03	.12	.15	5.2	.08	.06	6.3	11

DELAWARE RIVER BASIN

01470800 TULPEHOCKEN CREEK AT BERNVILLE, PA--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

DATE	TIME	TOTAL NITRITE PLUS NITRATE IN BOT. MAT. (MG/KG)	TOTAL AMMONIA NITRO- GEN IN BOTTOM MAT. (MG/KG)	TOTAL KJEL. NITRO- GEN IN BOTTOM MAT. (MG/KG)	TOTAL ARSENIC IN BOTTOM MA- TERIAL (UG/G)	TOTAL CADMIUM IN BOTTOM MA- TERIAL (UG/G)	TOTAL CHRO- MIUM IN BOTTOM MA- TERIAL (UG/G)	TOTAL COBALT IN BOTTOM MA- TERIAL (UG/G)	TOTAL COPPER IN BOTTOM MA- TERIAL (UG/G)	TOTAL IRON IN BOTTOM MA- TERIAL (UG/G)
AUG 12...	1200	18	73	2100	15	1	8	10	18	16000

DATE	TIME	TOTAL LEAD IN BOTTOM MA- TERIAL (UG/G)	TOTAL MANGA- NESE IN BOTTOM MA- TERIAL (UG/G)	TOTAL MERCURY IN BOTTOM MA- TERIAL (UG/G)	TOTAL NICKEL IN BOTTOM MA- TERIAL (UG/G)	TOTAL ZINC IN BOTTOM MA- TERIAL (UG/G)	ORGANIC CARBON IN BOT- TOM MA- TERIAL (C) (G/KG)	IN- ORGANIC CARBON IN BOT- TOM MA- TERIAL (G/KG)	PCB IN BOTTOM MA- TERIAL (UG/KG)	ALDRIN IN BOTTOM MA- TERIAL (UG/KG)	CHLOR- DANE IN BOTTOM MA- TERIAL (UG/KG)
AUG 12...	27	1600	.1	12	60	19	2.9	82	.0	18	

DATE	DDD IN BOTTOM MA- TERIAL (UG/KG)	DDE IN BOTTOM MA- TERIAL (UG/KG)	DDT IN BOTTOM MA- TERIAL (UG/KG)	DI- ELDRIN IN BOTTOM MA- TERIAL (UG/KG)	ENDRIN IN BOTTOM MA- TERIAL (UG/KG)	HEPTA- CHLOR IN BOTTOM MA- TERIAL (UG/KG)	HEPTA- CHLOR EPOXIDE IN BOT- TOM MA- TERIAL (UG/KG)	LINDANE IN BOTTOM MA- TERIAL (UG/KG)	TOX- APHENE IN BOTTOM MA- TERIAL (UG/KG)
AUG 12...	.0	.0	.0	4.3	.0	.0	.0	.0	0

DELAWARE RIVER BASIN

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01470825 NORTHKILL CREEK AT BERNVILLE, PA

LOCATION.--Lat 40°25'50", long 76°06'51", Berks County, Hydrologic Unit 02040203, at a retaining wall 670 ft (204 m) upstream from highway bridge on county road 0.2 mi (0.3 km) from Bernville, and 0.4 mi (0.6 km) from mouth.

DRAINAGE AREA.--42.0 mi² (109 km²).

PERIOD OF RECORD.--Chemical analyses: June 1972 to current year.

WATER QUALITY DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

DATE	TIME	DEPTH (FT)	INSTAN- TANEOUS DIS- CHARGE (CFS)	SPE- CIFIC CON- DUCT- ANCE (MICRO- MHOS)	PH (UNITS)	TEMPER- ATURE (DEG C)	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)	ALKA- LITY AS CAC03 (MG/L)
OCT 07...	1400	1.0	31	160	7.0	15.0	10.6	730	160	110	34
NOV 12...	1100	1.0	50	130	7.0	9.0	11.4	2600	E3000	1200	34
DEC 10...	1000	1.0	30	160	8.0	6.0	12.8	3400	630	2800	34
JAN 14...	1240	1.0	105	125	6.5	3.0	13.0	12000	700	--	16
FEB 10...	1230	1.0	126	120	7.7	1.0	13.2	120	E50	380	23
MAR 15...	1145	1.0	95	140	7.9	7.0	12.6	160	E43	88	9
APR 01...	1315	1.0	325	126	6.8	10.0	5.9	3100	3000	3700	16
21...	0945	1.0	35	135	8.1	19.0	9.6	E9800	E7000	6400	31
MAY 18...	1145	1.0	95	125	7.1	17.0	9.0	13000	B13000	8800	25
JUN 09...	1020	1.0	15	160	7.8	20.0	9.4	3500	3600	1300	39
29...	1330	1.0	30	128	7.6	25.0	9.0	33000	15000	2000	43
JUL 27...	1000	1.0	145	180	8.0	21.0	8.0	3200	2700	780	59
AUG 19...	1020	1.0	380	170	6.9	17.5	9.8	3600	2500	1200	38
SEP 22...	1000	1.0	--	165	7.8	14.0	9.8	7200	3600	960	34

DATE	TOTAL NITRATE (N) (MG/L)	TOTAL NITRITE (N) (MG/L)	TOTAL 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 NITRO- GEN (N) (MG/L)	TOTAL PHOS- PHORUS (P) (MG/L)	TOTAL ORTHO PHOS- PHORUS (P) (MG/L)	TOTAL ORGANIC CARBON (C) (MG/L)	POTEN- TIAL ALGAL GROWTH BOTTLE TEST (MG/L)
OCT 07...	3.3	--	--	.01	.35	.36	--	.03	.01	1.2	--
NOV 12...	.90	--	--	.01	.40	.41	--	.02	.01	1.7	--
DEC 10...	2.1	.01	2.1	.01	.22	.23	2.3	.03	.01	1.1	--
JAN 14...	2.0	--	--	.40	1.2	1.6	--	.27	.14	9.7	--
FEB 10...	2.0	--	--	.04	.21	.25	--	.06	.01	1.4	--
MAR 15...	4.2	--	--	.01	.51	.52	--	.01	.01	1.6	--
APR 01...	1.9	.02	1.9	.05	1.1	1.1	3.0	.15	.03	8.3	--
21...	1.6	.05	1.6	.06	.62	.68	2.3	.05	.01	8.8	--
MAY 18...	1.1	.05	1.1	.38	.45	.83	1.9	.14	.03	7.8	--
JUN 09...	1.7	.04	1.7	.06	.39	.45	2.2	.07	.02	3.2	--
29...	1.8	.03	1.8	.13	.85	.98	2.8	.07	.03	4.8	--
JUL 27...	1.5	.15	1.6	.01	.29	.30	1.9	.18	.15	5.5	61
AUG 19...	2.7	.02	2.7	.02	.46	.48	3.2	.09	.05	3.5	28
SEP 22...	2.8	.05	2.8	.03	.35	.38	3.2	.09	.06	4.2	14

DELAWARE RIVER BASIN

01470825 NORTHKILL CREEK AT BERNVILLE, PA--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

DATE	TIME	TOTAL NITRITE PLUS NITRATE IN BOT. MAT. (MG/KG)	TOTAL AMMONIA NITRO- GEN IN BOTTOM MAT. (MG/KG)	TOTAL KJEL. NITRO- GEN IN BOTTOM MAT. (MG/KG)	TOTAL ARSENIC IN BOTTOM MA- TERIAL (UG/G)	TOTAL CADMIUM IN BOTTOM MA- TERIAL (UG/G)	TOTAL CHRO- MIUM IN BOTTOM MA- TERIAL (UG/G)	TOTAL COBALT IN BOTTOM MA- TERIAL (UG/G)	TOTAL COPPER IN BOTTOM MA- TERIAL (UG/G)	TOTAL IRON IN BOTTOM MA- TERIAL (UG/G)
AUG 12...	1400	10	58	1100	4	0	5	7	10	10000

DATE	TOTAL LEAD IN BOTTOM MA- TERIAL (UG/G)	TOTAL MANGA- NESE IN BOTTOM MA- TERIAL (UG/G)	TOTAL MERCURY IN BOTTOM MA- TERIAL (UG/G)	TOTAL NICKEL IN BOTTOM MA- TERIAL (UG/G)	TOTAL ZINC IN BOTTOM MA- TERIAL (UG/G)	ORGANIC CARBON IN BOT- TOM MA- TERIAL (C) (G/KG)	IN- ORGANIC CARBON IN BOT- TOM MA- TERIAL (G/KG)	PCR IN BOTTOM MA- TERIAL (UG/KG)	ALDRIN IN BOTTOM MA- TERIAL (UG/KG)	CHLOR- DANE IN BOTTOM MA- TERIAL (UG/KG)
AUG 12...	21	680	.1	9	40	11	.0	11	.0	5

DATE	DDD IN BOTTOM MA- TERIAL (UG/KG)	DDE IN BOTTOM MA- TERIAL (UG/KG)	DDT IN BOTTOM MA- TERIAL (UG/KG)	DI- ELDRIN IN BOTTOM MA- TERIAL (UG/KG)	ENDRIN IN BOTTOM MA- TERIAL (UG/KG)	HEPTA- CHLOR IN BOTTOM MA- TERIAL (UG/KG)	HEPTA- CHLOR EPOXIDE IN BOT- TOM MA- TERIAL (UG/KG)	LINDANE IN BOTTOM MA- TERIAL (UG/KG)	TOX- APHENE IN BOTTOM MA- TERIAL (UG/KG)
AUG 12...	.0	.0	.0	1.3	.0	.0	.0	.0	0

DELAWARE RIVER BASIN

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01470960 TULPEHOCKEN CREEK AT BLUE MARSH DAMSITE NEAR READING, PA

LOCATION.--Lat 40°22'14", long 76°01'32", Berks County, Hydrologic Unit 02040203, on right bank 1 mi (1.6 km) upstream from Rebers Bridge and Plum Creek, 1 mi (1.6 km) east of Blue Marsh, 3 mi (4.8 km) north of Sinking Spring, and 5.5 mi (8.8 km) northwest of Reading. Water-quality sampling site at Rebers bridge 1.0 mi (1.6 km) downstream.

DRAINAGE AREA.--175 mi² (453 km²).

WATER-DISCHARGE RECORDS

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

REVISED RECORDS.--WDR PA-72: 1969-1971 (M).

GAGE.--Water-stage recorder. Datum of gage is 230.06 ft (70.122 m) above mean sea level (Western Berks Water Authority benchmark). Prior to Nov. 25, 1974, water-stage recorder at site 0.3 mi (0.5 km) downstream at same datum.

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

AVERAGE DISCHARGE.--11 years, 272 ft³/s (7.70 m³/s), 21.10 in/yr (536 mm/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 16,100 ft³/s (456 m³/s) June 22, 1972, gage height, 18.7 ft (5.70 m), from floodmarks, from rating curve extended above 2,600 ft³/s (74 m³/s) on basis of runoff comparison with downstream station; minimum, 22 ft³/s (0.62 m³/s) Sept. 11, 12, 13, 1966; minimum gage height, 1.45 ft (0.442 m) July 29, 30, 31, 1965.

EXTREMES FOR CURRENT YEAR.--Peak discharges above base of 1,500 ft³/s (42.5 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	0900	1,870	53.0	5.52	1.682	Feb. 2	0245	1,960	55.5	5.57	1.698
Nov. 12	2300	2,300	65.1	6.00	1.829	Apr. 1	0845	1,620	45.9	5.15	1.570
Jan. 14	0500	1,910	54.1	5.51	1.679	July 1	0815	3,170	89.8	6.27	1.911
Jan. 27	0145	*10,300	292	*13.71	4.179						

Minimum discharge, 68 ft³/s (1.93 m³/s) June 29; minimum gage height, 2.57 ft (0.783 m) Sept. 15.

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	582	291	316	840	781	265	994	162	203	1540	252	119
2	516	278	283	621	1260	256	781	426	437	555	243	119
3	444	264	260	609	690	252	615	239	311	405	195	139
4	401	251	256	585	525	311	537	203	252	388	180	119
5	365	243	252	465	477	283	448	195	226	306	169	116
6	345	227	247	454	432	265	383	188	214	265	155	107
7	340	212	247	388	350	243	336	176	226	256	278	98
8	320	201	218	415	330	222	301	155	210	301	265	93
9	305	194	218	340	320	218	274	155	188	260	283	98
10	291	264	235	300	300	231	247	152	162	222	372	113
11	287	350	210	280	489	239	235	145	142	301	288	119
12	287	587	210	270	410	260	218	235	129	297	243	90
13	291	1840	210	260	336	459	203	180	123	210	222	84
14	278	1160	210	1000	351	465	195	169	394	184	603	81
15	255	868	210	432	278	415	184	176	142	166	477	79
16	243	710	214	331	265	383	176	173	132	184	513	260
17	231	603	188	290	609	410	173	394	432	184	356	1040
18	224	531	176	260	495	326	169	356	173	159	306	585
19	836	489	166	230	513	316	162	316	135	199	265	351
20	1100	448	235	210	443	283	162	256	129	145	231	265
21	906	507	176	190	388	265	199	274	265	126	218	256
22	687	525	173	180	525	260	180	256	585	126	203	214
23	558	426	162	170	459	231	173	239	336	126	184	180
24	466	394	176	160	399	210	162	222	243	297	176	162
25	412	361	210	160	372	210	169	210	184	173	176	155
26	396	341	597	3820	346	195	226	203	142	129	173	159
27	375	351	597	5770	326	180	173	203	110	116	166	306
28	340	341	421	2060	297	226	159	180	87	113	155	346
29	330	311	361	1050	274	191	145	159	93	145	148	252
30	320	301	341	742	---	184	135	231	388	827	135	235
31	310	---	519	591	---	180	---	203	---	367	123	---
TOTAL	13041	13869	8294	23473	13040	8434	8514	6831	6793	9072	7753	6340
MEAN	421	462	268	757	450	272	284	220	226	293	250	211
MAX	1100	1840	597	5770	1260	465	994	426	585	1540	603	1040
MIN	224	194	162	160	265	180	135	145	87	113	123	79
CFSM	2.41	2.64	1.53	4.33	2.57	1.55	1.62	1.26	1.29	1.67	1.43	1.21
IN.	2.77	2.95	1.76	4.99	2.77	1.79	1.81	1.45	1.44	1.93	1.65	1.35

CAL YR 1975	TOTAL	152446	MEAN 418	MAX 2860	MIN 100	CFSM 2.39	IN 32.41
WTR YR 1976	TOTAL	125454	MEAN 343	MAX 5770	MIN 79	CFSM 1.96	IN 26.67

DELAWARE RIVER BASIN

01470960 TULPEHOCKEN CREEK AT BLUE MARSH DAMSITE NEAR READING, PA--Continued

WATER-QUALITY RECORDS

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

PERIOD OF DAILY RECORD.--

WATER TEMPERATURES: October 1968 to current year.

SUSPENDED SEDIMENT DISCHARGE: May 1973 to May 1976 (discontinued).

REMARKS.--Temperature recorder located at gaging station 1.0 mi (1.6 km) upstream from sampling site.
Temperature record unavailable for period October through April.

EXTREMES FOR PERIOD OF DAILY RECORD.--

SEDIMENT CONCENTRATIONS: Maximum daily, 1,400 mg/l June 22, 1973; minimum daily, 2 mg/l each year.

SEDIMENT LOADS: Maximum daily, 8,570 tons (7,775 t) Jan. 27, 1976; minimum daily, 0.45 tons (0.41 t) July 13, 1974.

EXTREMES FOR PERIOD OF RECORD.--

WATER TEMPERATURES: Maximum, 34.0°C Oct. 2, 1968; minimum, freezing point on several days during December 1970, January, March 1971, February 1975.

SEDIMENT CONCENTRATIONS: Maximum daily, 1,400 mg/l June 22, 1973; minimum daily, 2 mg/l each year.

SEDIMENT LOADS: Maximum daily, 8,570 tons (7,775 t) Jan. 27, 1976; minimum daily, 0.45 tons (0.41 t) July 13, 1974.

EXTREMES FOR CURRENT YEAR.--

SEDIMENT CONCENTRATIONS: Maximum daily, 800 mg/l Jan. 26; minimum daily, 2 mg/l on many days.

SEDIMENT LOADS: Maximum daily, 8,570 tons (7,775 t) Jan. 27; minimum daily, 0.87 tons (0.79 t) Dec. 23.

WATER QUALITY DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

DATE	TIME	DEPTH (FT)	INSTAN- TANEOUS DIS- CHARGE (CFS)	SPE- CIFIC CON- DUCT- ANCE (MICRO- MHOS)	PH (UNITS)	TEMPER- ATURE (DEG C)	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)	ALKA- LITY AS CAC03 (MG/L)	TOTAL NITRATE (N) (MG/L)
OCT 07...	0930	1.0	330	420	7.9	14.0	10.2	1100	1100	400	154	5.0
NOV 12...	1130	1.0	260	440	7.9	10.0	8.8	7800	7200	2500	123	3.7
DEC 10...	0845	1.0	242	440	7.9	5.0	12.2	2400	430	1600	133	4.7
JAN 14...	1145	1.0	847	260	6.6	3.0	12.8	11000	>6000	--	67	2.7
FEB 10...	1345	1.0	306	390	7.6	1.0	13.4	773	710	260	128	5.2
MAR 15...	1125	1.0	416	290	8.0	6.0	9.8	2200	73	110	85	5.1
APR 01...	1200	1.0	1460	221	7.5	10.0	10.4	13000	71000	24000	56	2.3
APR 21...	1010	1.0	264	360	8.1	20.0	9.8	550	390	120	138	3.9
MAY 18...	1200	1.0	465	305	7.6	18.0	8.4	14000	9900	2400	87	2.7
JUN 09...	1100	1.0	311	410	7.7	20.0	9.4	1900	580	1700	133	3.9
JUN 29...	1400	1.0	242	306	8.0	25.0	8.0	10000	5400	3100	123	3.7
JUL 27...	1100	1.0	531	396	8.3	21.0	9.2	5200	2100	540	154	4.0
AUG 12...	1000	--	--	--	--	--	--	--	--	--	--	--
AUG 19...	1120	1.0	351	400	7.9	19.0	9.4	4600	2500	1500	131	3.6
SEP 22...	1100	1.0	170	400	7.8	14.5	10.0	42500	2600	960	130	4.0

DELAWARE RIVER BASIN

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01470960 TULPEHOCKEN CREEK AT BLUE MARSH DAMSITE NEAR READING, PA--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

DATE	TOTAL NITRITE (N) (MG/L)	TOTAL 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 NITRO- GEN (N) (MG/L)	TOTAL PHOS- PHORUS (P) (MG/L)	TOTAL ORTHO PHOS- PHORUS (P) (MG/L)	TOTAL ARSENIC IN BOTTOM MA- TERIAL (UG/G)	TOTAL ORGANIC CARBON (C) (MG/L)	PHENOLS (UG/L)	POTEN- TIAL ALGAL GROWTH BOTTLE TEST (MG/L)
OCT 07...	--	--	.02	.36	.38	--	.13	.09	51	11.4	--	--
NOV 12...	--	--	.01	.57	.58	--	.07	.06	--	1.3	0	--
DEC 10...	.03	4.7	.03	.19	.22	4.9	.08	.06	--	.9	--	--
JAN 14...	--	--	.64	2.6	3.2	--	1.1	.23	--	22	--	--
FEB 10...	--	--	.08	.32	.40	--	.11	.06	--	1.1	--	--
MAR 15...	--	--	.01	.51	.52	--	.03	.02	--	1.8	--	--
APR 01...	.06	2.4	.13	2.5	2.6	5.0	.45	.08	--	16	--	--
MAY 21...	.08	4.0	.06	.57	.63	4.6	.08	.05	--	3.9	--	--
JUN 18...	.14	2.8	.21	.79	1.0	3.8	.18	.09	--	5.0	--	--
JUL 09...	.09	4.0	.04	.46	.50	4.5	.16	.10	--	3.3	--	--
AUG 29...	.07	3.8	.05	.70	.75	4.6	.20	.09	--	4.1	2	--
SEP 27...	.07	4.1	.00	.33	.33	4.4	.11	.08	--	--	0	34
AUG 12...	--	--	--	--	--	--	--	--	16	--	--	--
SEP 19...	.03	3.6	.03	.55	.58	4.2	.14	.08	--	5.8	0	31
SEP 22...	.04	4.0	.05	.38	.43	4.4	.11	.06	--	3.1	0	37

DATE	TIME	TOTAL NITRITE PLUS NITRATE IN BOT- TOM MA- TERIAL (MG/KG)	TOTAL AMMONIA NITRO- GEN IN BOTTOM MA- TERIAL (MG/KG)	TOTAL KJEL- DAHL NITRO- GEN IN BOTTOM MA- TERIAL (MG/KG)	TOTAL PHOS- PHORUS IN BOT- TOM MA- TERIAL (MG/KG)	TOTAL CADMIUM IN BOT- TOM MA- TERIAL (UG/G)	TOTAL CHRO- MIUM IN BOTTOM MA- TERIAL (UG/G)	TOTAL COBALT IN BOT- TOM MA- TERIAL (UG/G)	TOTAL COPPER IN BOT- TOM MA- TERIAL (UG/G)	TOTAL IRON IN BOT- TOM MA- TERIAL (UG/G)
AUG 12...	1000	11	38	890	260	0	5	10	15	8900

DATE	TOTAL LEAD IN BOT- TOM MA- TERIAL (UG/G)	TOTAL MANGA- NESE IN BOTTOM MA- TERIAL (UG/G)	TOTAL MERCURY IN BOT- TOM MA- TERIAL (UG/G)	TOTAL NICKEL IN BOT- TOM MA- TERIAL (UG/G)	TOTAL ZINC IN BOT- TOM MA- TERIAL (UG/G)	ORGANIC CARBON IN BOT- TOM MA- TERIAL (G/KG)	IN- ORGANIC CARBON IN BOT- TOM MA- TERIAL (G/KG)	PCB IN BOT- TOM MA- TERIAL (UG/KG)	ALDRIN IN BOT- TOM MA- TERIAL (UG/KG)	CHLOR- DANE IN BOT- TOM MA- TERIAL (UG/KG)
AUG 12...	320	430	.0	9	50	6.4	4.2	14	.0	4

DATE	DDD IN BOT- TOM MA- TERIAL (UG/KG)	DDE IN BOT- TOM MA- TERIAL (UG/KG)	DDT IN BOT- TOM MA- TERIAL (UG/KG)	DI- ELDRIN IN BOT- TOM MA- TERIAL (UG/KG)	ENDRIN IN BOT- TOM MA- TERIAL (UG/KG)	HEPTA- CHLOR IN BOT- TOM MA- TERIAL (UG/KG)	HEPTA- CHLOR EPOXIDE IN BOT- TOM MA- TERIAL (UG/KG)	LINDANE IN BOT- TOM MA- TERIAL (UG/KG)	TOX- APHENE IN BOT- TOM MA- TERIAL (UG/KG)
AUG 12...	.0	.0	.0	1.2	.0	.0	.0	.0	0

DELAWARE RIVER BASIN

01470960 TULPEHOCKEN CREEK AT BLUE MARSH DAMSITE NEAR READING, PA--Continued

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

DAY	FEBRUARY			MARCH			APRIL			MAY		
	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1							---	---	---	15.5	13.5	13.5
2							---	---	---	16.0	12.5	14.0
3							---	---	---	15.5	13.5	14.5
4							---	---	---	14.0	12.0	13.0
5							---	---	---	15.5	10.5	13.0
6							---	---	---	17.5	14.0	15.5
7							---	---	---	18.5	16.0	17.0
8							---	---	---	17.0	14.0	15.5
9							---	---	---	17.0	12.5	14.5
10							---	---	---	18.0	13.0	15.5
11							---	---	---	17.0	15.5	16.0
12							---	---	---	17.0	14.0	15.5
13							---	---	---	17.0	13.0	15.0
14							---	---	---	17.5	15.0	16.5
15							---	---	---	21.0	16.5	18.5
16							---	---	---	20.0	18.5	19.5
17							---	---	---	19.0	17.5	18.5
18							---	---	---	18.5	15.5	17.5
19							---	---	---	16.0	12.5	13.5
20							---	---	---	15.0	11.5	13.5
21							---	---	---	18.0	14.0	16.0
22							---	---	---	18.5	15.0	16.5
23							---	---	---	18.5	14.5	16.5
24							---	---	---	18.5	14.5	16.5
25							---	---	---	17.0	15.0	16.0
26							---	---	---	16.0	14.5	15.0
27							11.5	10.5	11.0	18.0	13.0	15.5
28							13.5	9.0	11.0	19.5	14.5	17.0
29							14.0	11.0	12.5	18.0	16.5	17.0
30							17.0	11.5	14.0	17.0	16.0	16.5
31							---	---	---	19.0	16.0	17.5
MONTH							---	---	---	21.0	10.5	16.0

DAY	JUNE			JULY			AUGUST			SEPTEMBER		
	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	20.5	17.5	18.5	21.0	20.5	21.0	23.0	21.0	21.5	20.5	16.5	18.0
2	19.5	16.5	17.5	21.0	19.5	20.0	21.5	18.0	20.0	20.5	17.5	18.5
3	19.0	15.0	16.5	21.0	19.0	20.0	22.5	17.5	19.5	20.5	12.5	18.0
4	20.0	16.0	18.0	20.5	18.5	19.5	23.0	18.0	20.0	20.0	16.5	18.0
5	20.5	16.0	18.0	21.5	18.0	19.5	23.0	18.0	20.5	21.0	17.0	19.0
6	18.5	16.0	16.5	22.5	19.5	21.0	23.0	20.0	21.5	20.5	16.5	18.0
7	20.5	15.0	17.5	22.0	20.5	21.0	21.5	19.5	20.0	20.5	15.5	17.5
8	21.5	17.5	19.5	21.5	20.0	20.5	19.5	19.0	19.0	22.0	17.0	19.0
9	23.5	18.5	21.0	21.5	19.5	20.5	19.0	18.5	18.5	22.5	18.0	20.0
10	24.0	20.0	22.0	23.0	20.0	21.0	20.0	18.0	19.0	21.0	18.5	19.5
11	24.0	21.0	22.5	23.0	21.0	21.5	22.5	18.5	20.0	18.5	16.0	17.0
12	24.5	20.5	22.5	21.5	20.5	21.0	23.0	19.5	21.0	21.0	15.0	17.5
13	22.5	19.0	20.0	21.5	18.5	20.0	23.5	20.5	21.5	21.5	16.5	18.5
14	20.0	18.0	18.5	20.5	17.5	18.5	22.0	20.5	21.0	22.0	17.0	19.5
15	23.5	18.5	21.0	22.0	19.0	20.0	21.0	20.5	20.5	21.0	18.5	19.5
16	23.5	21.0	22.5	22.0	20.5	21.0	20.5	19.0	20.0	19.5	17.5	18.0
17	22.5	21.0	21.5	22.0	21.0	21.0	20.5	18.0	19.0	19.0	17.5	18.0
18	24.0	21.0	22.0	22.5	20.0	21.0	21.0	18.0	19.5	19.0	17.5	18.0
19	24.5	21.5	23.0	24.0	20.0	21.5	21.0	18.0	19.5	19.5	17.0	17.5
20	24.5	22.0	23.5	24.5	20.0	22.0	21.0	18.0	19.5	18.5	17.0	17.5
21	24.0	22.0	23.0	23.5	21.5	22.5	22.0	18.5	20.0	17.5	16.5	17.0
22	22.5	20.5	21.0	24.0	21.0	22.0	23.5	20.0	21.5	17.0	15.0	16.0
23	22.0	19.5	21.0	23.5	20.0	21.0	24.0	21.0	22.0	16.5	13.5	14.5
24	23.0	20.5	21.5	22.5	19.0	20.5	23.5	21.0	22.0	17.0	14.5	15.5
25	24.0	21.0	22.5	23.5	20.0	21.5	22.5	20.5	21.5	16.5	14.5	15.0
26	24.5	21.5	23.0	23.0	18.5	20.5	24.0	21.0	22.0	16.0	14.0	14.5
27	24.5	21.0	23.0	22.0	19.5	20.5	24.0	21.0	22.0	16.0	14.5	15.0
28	25.5	21.0	23.5	24.5	19.5	21.5	22.0	20.5	21.0	17.0	16.0	16.5
29	24.0	21.5	23.0	24.0	21.5	22.5	23.5	20.0	21.5	16.5	13.5	14.5
30	22.5	21.0	21.5	22.0	21.0	21.0	23.0	18.0	19.5	15.5	13.0	13.5
31	---	---	---	23.5	20.5	21.5	20.5	16.0	18.0	---	---	---
MONTH	25.5	15.0	21.0	24.5	17.5	21.0	24.0	16.0	20.5	22.5	12.5	17.5

01470960 TULPEHOCKEN CREEK AT BLUE MARSH DAMSITE NEAR READING, PA--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	582	40	63	291	9	7.1	316	8	6.8
2	516	28	39	276	7	5.3	283	8	6.1
3	444	19	23	264	8	5.7	260	5	3.5
4	401	14	15	251	8	5.4	256	4	2.8
5	365	14	14	243	4	2.6	252	5	3.4
6	345	16	15	227	3	1.8	247	3	2.0
7	340	18	17	212	2	1.1	247	4	2.7
8	320	14	12	201	2	1.1	218	2	1.2
9	305	13	11	194	3	1.6	218	3	1.8
10	291	12	9.4	264	22	16	235	5	3.2
11	287	10	7.7	350	20	19	210	4	2.3
12	287	10	7.7	587	152	241	210	5	2.8
13	291	8	6.3	1840	250	1240	210	5	2.8
14	278	8	6.0	1160	60	188	210	4	2.3
15	255	6	4.1	868	28	66	210	5	2.8
16	243	4	2.6	710	18	35	214	3	1.7
17	231	3	1.9	603	16	26	188	2	1.0
18	224	12	7.3	531	16	23	176	2	.95
19	836	186	420	489	12	16	166	2	.90
20	1100	370	1100	448	10	12	235	12	7.6
21	906	45	110	507	26	36	176	6	2.9
22	687	22	41	525	32	45	173	2	.93
23	558	19	29	426	16	18	162	2	.87
24	466	18	23	394	10	11	176	6	2.9
25	412	17	19	361	7	6.8	210	10	5.7
26	396	12	13	341	5	4.6	597	190	306
27	375	12	12	351	8	7.6	597	70	113
28	340	10	9.2	341	4	3.7	421	35	40
29	330	10	8.9	311	5	4.2	361	35	34
30	320	10	8.6	301	6	4.9	341	35	32
31	310	10	8.4	---	---	---	519	59	83
TOTAL	13041	---	2064.1	13869	---	2055.5	8294	---	679.95
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	840	198	449	781	225	474	265	6	4.3
2	621	40	67	1260	200	680	256	5	3.5
3	609	22	36	690	45	84	252	7	4.8
4	585	22	35	525	30	43	311	24	20
5	465	20	25	477	25	32	283	11	8.4
6	454	20	25	432	24	28	265	6	4.3
7	388	20	21	350	20	19	243	4	2.6
8	415	20	22	330	18	17	222	3	1.8
9	340	23	21	320	15	13	218	4	2.4
10	300	34	46	300	15	12	231	4	2.5
11	280	30	45	489	180	238	239	4	2.6
12	270	26	22	410	76	84	260	6	4.2
13	260	27	19	336	25	23	459	33	41
14	1000	225	607	351	25	24	465	14	18
15	432	55	64	278	8	6.0	415	6	6.7
16	331	25	22	265	7	5.0	383	9	9.3
17	290	10	7.9	609	222	369	410	14	15
18	260	15	14	495	81	108	326	6	5.3
19	230	20	26	513	40	55	316	5	4.3
20	210	20	26	443	21	25	283	4	3.1
21	190	20	25	388	14	15	265	7	5.0
22	180	20	24	525	55	78	260	6	4.2
23	170	22	24	459	27	33	231	4	2.5
24	160	22	31	399	13	14	210	3	1.7
25	160	18	22	372	10	10	210	2	1.1
26	3820	800	8250	346	10	9.3	195	4	2.1
27	5770	550	8570	326	10	8.8	180	3	1.5
28	2060	236	1310	297	8	6.4	226	10	6.1
29	1050	90	255	274	6	4.4	191	2	1.0
30	742	50	100	---	---	---	184	3	1.5
31	591	25	40	---	---	---	180	2	.97
TOTAL	23473	---	20250.9	13040	---	2517.9	8434	---	191.77

DELAWARE RIVER BASIN

01470960 TULPEHOCKEN CREEK AT BLUE MARSH DAMSITE NEAR READING, PA--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	994	314	951	162	14	6.1	203			
2	781	65	137	426	35	40	437			
3	615	20	33	239	15	9.7	311			
4	537	20	29	203	13	7.1	252			
5	448	15	18	195	12	6.3	226			
6	383	10	10	188	12	6.1	214			
7	336	10	9.1	176	12	5.7	226			
8	301	9	7.3	155	10	4.2	210			
9	274	8	5.9	155	9	3.8	188			
10	247	6	4.0	152	9	3.7	162			
11	235	5	3.2	145	13	5.1	142			
12	218	4	2.4	235	12	7.6	129			
13	203	4	2.2	180	10	4.9	123			
14	195	4	2.1	169	10	4.6	394			
15	184	4	2.0	176	10	4.8	142			
16	176	10	4.8	173	10	4.7	132			
17	173	10	4.7	394	14	15	432			
18	169	10	4.6	356	12	12	173			
19	162	11	4.8	316	10	8.5	135			
20	162	12	5.2	256	10	6.9	129			
21	199	18	9.7	274	12	8.9	265			
22	180	14	6.8	256	13	9.0	585			
23	173	12	5.6	239	11	7.1	336			
24	162	10	4.4	222	12	7.2	243			
25	169	10	4.6	210	10	5.7	184			
26	226	12	7.3	203	10	5.5	142			
27	173	10	4.7	203	10	5.5	110			
28	159	10	4.3	180	9	4.4	87			
29	145	10	3.9	159	9	3.9	93			
30	135	10	3.6	231	12	7.5	388			
31	---	---	---	203	10	5.5	---			
TOTAL	8514	---	1295.2	6831	---	237.0	6793			

DELAWARE RIVER BASIN

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01470982 CACOOSING CREEK NEAR READING, PA

LOCATION.--Lat 40°21'57", long 75°59'40", Berks County, Hydrologic Unit 02040203, at bridge on Township Route 501, 90 ft (27 m) upstream from Tulpehocken Creek and 2.0 mi (3.2 km) northwest of Reading City limits.

DRAINAGE AREA.--not available.

PERIOD OF RECORD.--October 1975 to current year.

COOPERATION.--Water-quality data were furnished by the Pennsylvania Department of Environmental Resources.

WATER QUALITY DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

DATE	TIME	CODE FOR AGENCY COL- LECTING SAMPLE	SPE- CIFIC CON- DUCT- ANCE (MICRO- MHOS)	PH (UNITS)	TEMPER- ATURE (DEG C)	TUR- BID- ITY (JTU)	DIS- SOLVED OXYGEN (MG/L)	HARD- NESS (CA+MG) (MG/L)	MINERAL ACIDITY (METHYL ORANGE) AS CACO3 (MG/L)	ACIDITY CO2 AS CACO3 (MG/L)	DIS- SOLVED CAL- CIUM (CA) (MG/L)	DIS- SOLVED MAG- NE- SIUM (MG) (MG/L)
OCT 15...	1020	9813	300	--	13.0	3	11.1	198	0	0	58	13
NOV 05...	1025	9813	290	7.5	12.0	4	10.7	192	0	0	52	15
DEC 11...	0930	9813	300	--	6.0	7	8.5	186	--	--	59	9.5
JAN 12...	1000	9813	290	7.8	5.0	15	11.8	88	0	0	54	3.5
FEB 17...	0950	9813	260	7.7	9.0	8	10.6	150	0	0	48	7.5
MAR 08...	1020	9813	350	8.5	7.0	3	11.5	180	0	0	56	9.5
APR 07...	1015	9813	340	8.2	10.0	4	11.5	138	0	0	52	1.5
MAY 10...	1050	9813	485	8.3	--	5	--	208	0	0	59	15
JUN 28...	1015	9813	--	8.3	17.0	18	9.5	216	--	--	58	17
JUL 19...	1045	9813	500	8.0	19.0	10	9.0	180	--	0	61	6.5
AUG 16...	1025	9813	270	8.5	15.5	10	9.1	172	0	0	55	8.5

DATE	ALKA- LINITY AS CACO3 (MG/L)	DIS- SOLVED SULFATE (SO4) (MG/L)	DIS- SOLVED CHLO- RIDE (CL) (MG/L)	TOTAL FILT- RABLE RESIDUE (MG/L)	TOTAL NITRATE (N) (MG/L)	TOTAL NITRITE (N) (MG/L)	TOTAL AMMONIA NITRO- GEN (N) (MG/L)	TOTAL PHOS- PHORUS (P) (MG/L)	TOTAL ORTHO PHOS- PHORUS (P) (MG/L)	TOTAL COPPER (CU) (UG/L)	TOTAL IRON (FE) (UG/L)	TOTAL ORGANIC CARBON (C) (MG/L)
OCT 15...	176	34	16	302	5.0	.07	.15	.19	.18	30	250	6.0
NOV 05...	174	20	15	290	5.2	.12	.14	.18	.16	<10	400	5.0
DEC 11...	162	38	16	282	5.0	.08	.26	.24	.20	30	610	--
JAN 12...	156	28	16	324	5.6	.07	.31	.26	.22	<10	600	--
FEB 17...	144	26	17	--	4.1	.07	.09	.30	.02	<10	770	--
MAR 08...	160	26	16	--	4.7	.06	.27	.20	.18	10	240	--
APR 07...	152	34	15	242	3.4	.04	.20	.21	.15	<10	130	--
MAY 10...	172	24	19	306	4.6	.07	.04	.27	.17	<10	140	--
JUN 28...	186	32	25	408	6.0	.19	.34	.41	.32	<10	910	--
JUL 19...	168	30	28	376	6.5	.15	.22	.42	.19	<10	1010	--
AUG 16...	164	30	20	338	4.8	.09	.21	.26	.25	<10	1250	--

DELAWARE RIVER BASIN

01471000 TULPEHOCKEN CREEK NEAR READING, PA

LOCATION.--Lat 40°22'08", long 75°58'46", Berks County, Hydrologic Unit 02040203, on right bank, 15 ft (4.6 m) upstream from covered bridge, 1 mi (2 km) downstream from Cacoosing Creek, 2.5 mi (4.0 km) upstream from mouth, and 3.5 mi (5.6 km) northwest of square at Reading. Water-quality sampling site at covered bridge 15 ft (4.6 m) downstream.

DRAINAGE AREA.--211 mi² (546 km²).

WATER-DISCHARGE RECORDS

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

REVISED RECORDS.--WSP 1382: 1951-53, 1954(M). WDR PA-67: 1965(M). WDR PA-72: 1971(M).

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

REMARKS.--Records good except those for winter periods, which are fair. Some regulation at low flow by mills above station.

AVERAGE DISCHARGE.--26 years, 306 ft³/s (8.67 m³/s), 19.69 in/yr (500 mm/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 17,000 ft³/s (481 m³/s) June 23, 1972, gage height, 15.65 ft (4.770 m), from floodmark in gage shelter, from rating curve extended above 3,500 ft³/s (99 m³/s) on basis of contracted-opening measurement of peak flow; minimum, 23 ft³/s (0.65 m³/s) Dec. 1, 1964, gage height, 0.94 ft (0.287 m), result of upstream shutoff.

EXTREMES FOR CURRENT YEAR.--Peak discharges above base of 2,000 ft³/s (56.6 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	2330	2,280 64.6	4.32 1.317	Feb. 2	0330	2,080 58.9	4.12 1.256
Jan. 27	0230	*10,400 295	*10.90 3.322	July 1	0900	2,280 64.6	4.32 1.317

Minimum discharge, 116 ft³/s (3.29 m³/s) Sept. 14, gage height, 1.35 ft (0.411 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	642	340	349	816	792	339	998	222	181	1440	280	149
2	579	320	317	621	1370	333	789	440	355	475	269	153
3	508	310	300	614	445	327	641	277	269	375	226	170
4	468	290	296	587	583	375	572	248	219	361	210	152
5	434	280	294	464	541	350	498	231	201	301	198	148
6	413	260	290	422	489	334	447	221	192	268	190	141
7	378	250	286	403	430	314	410	210	201	266	310	133
8	368	230	261	434	390	296	381	189	186	304	299	130
9	353	220	261	334	370	294	356	181	171	270	312	140
10	355	320	280	300	360	304	334	176	154	236	387	157
11	365	450	255	290	533	312	323	173	139	291	314	172
12	378	683	250	280	470	332	303	254	130	306	271	137
13	327	1780	250	270	403	506	290	200	129	232	254	130
14	305	1100	247	981	413	515	282	187	142	208	559	125
15	295	828	245	451	352	469	272	185	141	195	493	123
16	286	691	248	362	343	448	265	186	135	213	507	381
17	286	602	225	330	622	463	259	337	373	216	388	917
18	870	535	217	230	542	396	251	316	190	187	343	551
19	1130	497	183	210	551	389	242	288	163	219	303	376
20	977	464	208	200	496	363	236	241	155	176	269	301
21	788	514	212	190	441	347	265	255	279	156	262	293
22	669	525	213	180	566	340	244	241	600	155	241	254
23	577	434	201	170	514	313	228	222	415	159	223	222
24	513	410	170	170	457	294	216	208	330	321	214	207
25	493	388	186	170	440	290	219	197	276	210	215	197
26	465	364	585	4280	417	278	268	193	241	161	208	203
27	427	368	590	6430	397	262	224	188	214	149	201	344
28	397	362	431	2260	372	306	210	164	194	144	193	377
29	380	344	382	1080	351	270	198	158	207	191	185	294
30	370	335	367	799	---	261	184	203	453	745	167	276
31	360	---	520	651	---	255	---	186	---	386	156	---
TOTAL	15156	14494	9119	24979	14650	10675	10405	6977	7035	9316	8647	7353
MEAN	489	483	294	806	505	344	347	225	235	301	279	245
MAX	1130	1780	590	6430	1370	515	998	440	600	1440	559	917
MIN	286	220	170	170	343	255	184	158	129	144	156	123
CFSM	2.32	2.29	1.39	3.82	2.39	1.63	1.64	1.07	1.11	1.43	1.32	1.16
IN.	2.67	2.56	1.61	4.40	2.58	1.88	1.83	1.23	1.24	1.64	1.52	1.30

CAL YR 1975	TOTAL	174477	MEAN 478	MAX 3130	MIN 130	CFSM 2.27	IN 30.76
WTR YR 1976	TOTAL	138806	MEAN 379	MAX 6430	MIN 123	CFSM 1.80	IN 24.47

DELAWARE RIVER BASIN

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01471000 TULPEHOCKEN CREEK NEAR READING, PA--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--October 1975 to current year.

COOPERATION.--Water-quality data were furnished by the Pennsylvania Department of Environmental Resources.

WATER QUALITY DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

DATE	TIME	CODE FOR AGENCY COL- LECTING SAMPLE	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)	HARD- NESS (CA, MG) (MG/L)
OCT									
15...	0945	9813	295	270	--	14.5	5	10.0	165
NOV									
05...	0940	9813	2240	250	8.5	12.0	4	10.8	156
DEC									
11...	0915	9813	255	270	--	4.0	6	9.2	148
JAN									
12...	0930	9813	320	260	8.5	1.0	10	14.8	168
FEB									
17...	0925	9813	582	190	8.2	8.5	65	11.5	108
MAR									
08...	1000	9813	296	300	8.3	6.0	3	12.1	156
APR									
07...	0950	9813	410	270	8.5	10.0	4	12.0	113
MAY									
10...	0925	9813	176	400	8.5	14.0	5	10.3	160
JUN									
28...	0955	9813	191	--	8.5	21.0	27	8.1	150
JUL									
19...	1020	9813	184	440	8.5	21.0	6	9.2	180
AUG									
16...	1000	9813	558	440	8.5	18.5	65	8.5	116

DATE	MINERAL ACIDITY (METHYL ORANGE) AS CACO3 (MG/L)	ACIDITY CO2 AS CACO3 (MG/L)	DIS- SOLVED CAL- CIUM (CA) (MG/L)	DIS- SOLVED MAG- NE- SIUM (MG) (MG/L)	ALKA- LINITY AS CACO3 (MG/L)	DIS- SOLVED SULFATE (SO4) (MG/L)	DIS- SOLVED CHLO- RIDE (CL) (MG/L)	TOTAL FILT- RABLE RESIDUE (MG/L)	TOTAL NITRATE (N) (MG/L)
OCT									
15...	0	0	57	5.0	154	34	13	304	4.3
NOV									
05...	0	0	52	6.5	150	28	13	262	4.6
DEC									
11...	0	0	51	5.0	142	32	13	230	4.5
JAN									
12...	0	0	50	10	122	24	12	250	5.6
FEB									
17...	0	0	35	5.0	92	26	12	--	3.5
MAR									
08...	0	0	48	9.0	122	26	13	--	4.4
APR									
07...	0	0	40	2.5	116	30	11	188	2.8
MAY									
10...	0	0	48	10	134	64	15	264	3.9
JUN									
28...	--	--	49	6.5	142	--	18	318	4.9
JUL									
19...	--	0	56	10	148	22	18	308	5.5
AUG									
16...	0	0	36	6.0	96	18	12	216	3.2

DELAWARE RIVER BASIN

01471000 TULPEHOCKEN CREEK NEAR READING, PA--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

DATE	TOTAL NITRITE (N) (MG/L)	TOTAL AMMONIA NITRO- GEN (N) (MG/L)	TOTAL PHOS- PHORUS (P) (MG/L)	TOTAL ORTHO PHOS- PHORUS (P) (MG/L)	TOTAL COPPER (CU) (UG/L)	TOTAL IRON (FE) (UG/L)	TOTAL MAN- GANESE (MN) (UG/L)	TOTAL ORGANIC CARBON (C) (MG/L)	METHY- LENE BLUE ACTIVE SUB- STANCE (MG/L)
OCT									
15...	.05	.05	.11	.09	<10	250	--	8.0	--
NOV									
05...	.07	.03	.10	<.00	<10	300	50	1.0	--
DEC									
11...	.08	.08	.11	.08	10	110	--	--	--
JAN									
12...	.06	.12	.14	.11	<10	350	--	--	--
FEB									
17...	.09	.19	1.0	.11	<10	4130	--	--	.0
MAR									
08...	.05	.06	.08	.05	10	130	--	--	.0
APR									
07...	.03	.09	.13	.05	<10	220	--	--	.0
MAY									
10...	.09	.05	.14	.07	<10	140	--	--	.0
JUN									
28...	.10	.18	.25	.14	20	920	--	--	.0
JUL									
19...	.06	.16	.17	.08	<10	340	--	--	.0
AUG									
16...	.05	.12	.23	--	<10	3550	--	--	.0

DELAWARE RIVER BASIN

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01471530 SCHUYLKILL RIVER AT READING, PA

LOCATION.--Lat 40°19'31", long 75°56'00", Berks County, Hydrologic Unit 02040203, at bridge on U.S. Route 222 in Reading and 1.9 mi (3.1 km) downstream from Tulpehocken Creek.

DRAINAGE AREA.--not available.

PERIOD OF RECORD.--November 1975 to current year.

COOPERATION.--Water-quality data were furnished by the Pennsylvania Department of Environmental Resources.

WATER QUALITY DATA, NOVEMBER 1975 TO SEPTEMBER 1976

DATE	TIME	CODE FOR AGENCY COL- LECTING SAMPLE	SPE- CIFIC CON- DUCT- ANCE (MICRO- MHOS)	PH (UNITS)	TEMPER- ATURE (DEG C)	TUR- BID- ITY (JTU)	DIS- SOLVED OXYGEN (MG/L)	HARD- NESS (CA.MG) (MG/L)	MINERAL ACIDITY (METHYL ORANGE) AS CAC03 (MG/L)
NOV 05...	0910	9813	220	7.5	13.0	5	9.3	162	0
JAN 12...	0850	9813	270	7.5	2.0	5	12.7	150	0
FEB 17...	0855	9813	240	7.2	7.0	25	11.3	108	0
MAR 08...	0930	9813	270	7.6	6.0	2	11.7	132	0
APR 07...	0930	9813	230	7.5	11.0	5	10.7	84	0
MAY 10...	0850	9813	360	7.8	15.0	4	9.8	148	0
JUN 28...	0925	9813	360	7.6	24.0	10	8.1	140	0
JUL 19...	0945	9813	440	8.5	22.0	3	8.5	160	--
AUG 26...	0930	9813	500	--	27.0	4	8.8	168	--

DATE	ACIDITY CO2 AS CAC03 (MG/L)	DIS- SOLVED CAL- CIUM (CA) (MG/L)	DIS- SOLVED MAG- NE- SIUM (MG) (MG/L)	ALKA- LINITY AS CAC03 (MG/L)	DIS- SOLVED SULFATE (SO4) (MG/L)	DIS- SOLVED CHLO- RIDE (CL) (MG/L)	TOTAL FILT- RABLE RESIDUE (MG/L)	TOTAL NITRATE (N) (MG/L)	TOTAL NITRITE (N) (MG/L)
NOV 05...	0	43	13	74	110	14	296	3.1	.10
JAN 12...	0	36	14	62	74	16	268	3.2	.07
FEB 17...	0	35	5.0	48	94	15	--	1.9	.05
MAR 08...	0	33	12	62	74	14	--	2.6	.06
APR 07...	0	28	3.5	52	50	12	156	2.2	.08
MAY 10...	0	36	14	70	64	15	246	2.8	.07
JUN 28...	0	33	14	72	72	15	302	3.2	.06
JUL 19...	0	44	12	78	86	22	346	3.7	.04
AUG 26...	0	45	13	88	100	23	304	2.6	.05

DELAWARE RIVER BASIN

01471530 SCHUYLKILL RIVER AT READING, PA--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

DATE	TOTAL AMMONIA NITRO- GEN (N) (MG/L)	TOTAL PHOS- PHORUS (P) (MG/L)	TOTAL COPPER (CU) (UG/L)	TOTAL IRON (FE) (UG/L)	TOTAL ALPHA (PC/L)	TOTAL BETA (PC/L)	TOTAL ORGANIC CARBON (C) (MG/L)	METHY- LENE BLUE ACTIVE SUB- STANCE (MG/L)
NOV 05...	.09	.07	<10	300	<1.0	3.0	3.0	.0
JAN 12...	.40	.12	<10	270	--	--	--	--
FEB 17...	.25	.10	<10	780	--	--	--	.0
MAR 08...	.26	.07	10	190	--	--	--	--
APR 07...	.15	.09	<10	260	--	--	--	--
MAY 10...	.20	.12	<10	200	--	--	--	.0
JUN 28...	.11	.16	10	560	--	--	--	--
JUL 19...	.11	.15	<10	230	--	--	--	--
AUG 26...	.07	.17	10	200	--	--	--	.0

DATE	TIME	CODE FOR AGENCY COL- LECTING SAMPLE	TOTAL ALUM- INUM (AL) (UG/L)	TOTAL CAD- MIUM (CD) (UG/L)	TOTAL CHRO- MIUM (CR) (UG/L)	TOTAL LEAD (PB) (UG/L)	TOTAL MAN- GANESE (MN) (UG/L)	TOTAL NICKEL (NI) (UG/L)	TOTAL ZINC (ZN) (UG/L)
NOV 05...	0910	9813	--	--	--	--	750	--	--
FEB 17...	0855	9813	1290	--	<10	<50	790	<10	40
MAY 10...	0850	9813	--	<3	<10	<50	360	40	20
AUG 26...	0930	9813	--	--	<10	<50	70	<10	<10

DELAWARE RIVER BASIN

195

01471980 MANATAWNY CREEK NEAR POTTSTOWN, PA

LOCATION.--Lat 40°16'22", long 75°40'49", Berks County, Hydrologic Unit 02040203, on left bank about 180 ft (55 m) upstream from bridge on Manatawny Street, 0.7 mi (1.1 km) downstream from Ironstone Creek 2.4 mi (3.9 km) northwest of Pottstown, 3.1 mi (5.0 km) upstream from mouth, and 4.7 mi (7.6 km) southwest of Boyertown.

DRAINAGE AREA.--85.5 mi² (221 km²).

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

GAGE.--Water-stage recorder. Datum of gage is 150.00 ft (45.720 m) above mean sea level (levels by Corps of Engineers).

REMARKS.--Records good.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 3,160 ft³/s (89.5 m³/s) Mar. 20, 1975, gage height, 7.05 ft (2.149 m); minimum, 22 ft³/s (0.62 m³/s) Sept. 10, 14, 15, 1976, gage height, 1.89 ft (0.576 m).

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood of June 22, 1972 reached a stage of 17.1 ft (5.21 m), from floodmarks discharge, about 9,600 ft³/s (272 m³/s).

EXTREMES FOR CURRENT YEAR.--Peak discharges above base of 1,200 ft³/s (34.0 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)
Oct. 18	1645	2,390 67.7	6.49 1.978	Jan. 27	2000	2,350 66.6	6.41 1.954
Oct. 19	1445	1,870 53.0	5.62 1.713	Apr. 1	1015	1,460 41.3	4.91 1.497
Jan. 26	1945	*2,470 70.0	*6.61 2.015				

Minimum discharge, 22 ft³/s (0.62 m³/s) Sept. 10, 14, 15, gage height, 1.89 ft (0.576 m).

DISCHARGE, IN CURIC 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	111	133	133	564	275	110	850	113	76	169	47	25
2	108	129	126	239	575	105	248	243	179	66	43	26
3	98	126	115	243	198	110	176	98	80	61	41	28
4	94	123	110	226	198	118	172	85	64	61	38	28
5	91	120	110	210	162	110	149	78	59	53	38	28
6	91	115	110	210	145	103	133	74	56	48	37	26
7	88	115	110	222	138	96	123	73	57	67	73	24
8	86	152	103	210	127	94	115	69	54	69	73	24
9	86	129	105	198	120	96	110	66	53	62	85	23
10	98	176	113	194	120	103	105	66	50	50	145	25
11	122	210	105	189	162	110	103	66	47	234	73	29
12	125	243	100	188	152	120	100	83	45	91	53	25
13	98	784	98	186	136	337	98	69	44	66	47	23
14	88	287	98	542	145	198	96	62	45	59	100	23
15	86	206	98	172	118	145	94	62	48	54	61	23
16	86	179	105	139	123	149	91	67	47	61	83	74
17	88	165	98	126	275	179	91	87	94	59	53	183
18	1090	155	96	124	210	136	87	113	56	50	43	78
19	1230	149	96	122	239	136	85	100	47	47	39	51
20	525	142	96	119	169	126	83	76	45	43	37	37
21	331	176	96	117	142	126	85	100	136	42	36	34
22	243	194	94	115	287	129	83	94	149	47	34	34
23	206	145	98	113	186	115	80	71	83	47	32	32
24	186	139	103	110	142	113	78	64	62	64	31	30
25	186	133	149	120	136	110	83	62	53	50	30	30
26	179	126	387	1170	129	108	103	62	48	43	30	32
27	165	136	202	1550	126	105	85	61	45	40	53	66
28	155	133	129	954	118	133	78	57	57	40	39	64
29	149	120	113	300	113	108	76	56	103	50	33	44
30	142	118	120	218	---	103	74	69	110	87	28	39
31	136	---	248	179	---	103	---	66	---	56	25	---
TOTAL	6567	5258	3864	9369	5166	3934	3934	2512	2092	2036	1579	1208
MEAN	212	175	125	302	178	127	131	81.0	69.7	65.7	50.9	40.3
MAX	1230	784	387	1550	575	337	850	243	179	234	145	183
MIN	86	115	94	110	113	94	74	56	44	40	25	23
CFSM	2.48	2.05	1.46	3.53	2.08	1.49	1.53	.95	.82	.77	.60	.47
IN.	2.86	2.29	1.68	4.08	2.25	1.71	1.71	1.09	.91	.89	.69	.53

CAL YR 1975	TOTAL	74352	MEAN 204	MAX 1930	MIN 51	CFSM 2.39	IN 32.35
WTR YR 1976	TOTAL	47519	MEAN 130	MAX 1550	MIN 23	CFSM 1.52	IN 20.67

DELAWARE RIVER BASIN

01472000 SCHUYLKILL RIVER AT POTTSTOWN, PA

LOCATION.--Lat 40°14'30", long 75°39'07", Montgomery County, Hydrologic Unit 02040203, on right bank 75 ft (23 m) upstream from Hanover Street bridge in Pottstown and 0.4 mi (0.6 km) downstream from Manatawny Creek. Water-quality sampling site at bridge 75 ft (23 m) downstream.

DRAINAGE AREA.--1,147 mi² (2,971 km²).

WATER-DISCHARGE RECORDS

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

GAGE.--Water-stage recorder. Datum of gage is 117.86 ft (35.924 m) above mean sea level. October 1926 to Nov. 22, 1928 nonrecording gage and Nov. 23, 1928 to Dec. 26, 1972 recording gage, at site 100 ft (30 m) downstream at same datum. Dec. 27, 1972 to May 10, 1974 nonrecording gage 1.0 mi (1.6 km) downstream at datum 2.83 ft (0.863 m) lower.

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

AVERAGE DISCHARGE.--50 years, 1,877 ft³/s (53.16 m³/s), 22.23 in/yr (565 mm/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 95,900 ft³/s (2,720 m³/s) June 23, 1972, gage height, 29.97 ft (9.135 m), from floodmark, minimum, 87 ft³/s (2.46 m³/s) Aug. 13, 1930, gage height, 0.43 ft (0.131 m); minimum daily, 175 ft³/s (4.96 m³/s) Sept. 19, 1932.

EXTREMES OUTSIDE PERIOD OF RECORD.--Maximum stage known prior to October 1926, 21.0 ft (6.40 m) Feb. 28, 1902, from floodmarks, discharge 53,900 ft³/s (1,530 m³/s).

EXTREMES FOR CURRENT YEAR.--Peak discharges above base of 7,200 ft³/s (204 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	0945	10,700 303	7.89 2.405	Feb. 2	0915	11,300 320	8.12 2.475
Nov. 13	1415	11,500 326	8.19 2.496	Apr. 1	2215	8,080 229	6.65 2.027
Jan. 17	1145	*41,800 1,180	*17.88 5.450				

Minimum discharge, 562 ft³/s (15.9 m³/s) Sept. 15, gage height, 1.60 ft (0.488 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	3900	2260	2400	5090	4440	2630	5510	1560	1760	4350	1000	644
2	3460	2240	2400	4130	8990	2530	6530	3030	2620	2930	925	650
3	3090	2180	2210	3760	4840	2520	5000	2520	2180	2380	838	675
4	2810	2110	2120	3830	4050	2590	4290	2210	1690	2250	781	701
5	2660	2030	2080	3190	3730	2640	3780	2060	1390	2100	742	649
6	2520	1970	2050	2780	3380	2510	3300	1960	1240	1840	734	634
7	2360	1940	2060	2700	3060	2400	3030	1840	1360	1840	1080	600
8	2240	2080	2000	2940	2910	3320	2810	1680	1300	2120	1370	592
9	2180	2220	1960	2520	2910	2290	2640	1520	1080	2030	1840	597
10	2180	2220	2000	2180	2660	2340	2490	1500	958	1590	1960	624
11	2240	3240	1990	2250	2810	2370	2410	1370	844	2280	1670	737
12	2490	3190	1820	2250	3490	2440	2340	1810	796	2220	1310	665
13	2180	9870	1710	2170	2830	3190	2220	1690	764	1660	1160	611
14	2060	8420	1660	4730	2810	3650	2160	1340	772	1340	1850	590
15	1960	5820	1680	3540	2630	3390	2100	1240	796	1220	1590	576
16	1840	4630	1730	2560	2510	3190	2050	1320	764	1240	1840	1240
17	1790	3970	1590	2300	4180	3300	2020	2280	2020	1160	1580	3130
18	5360	3490	1450	1870	4460	2880	1990	2670	1720	974	1290	2560
19	8930	3180	1260	1650	4290	2740	1870	2530	974	892	1130	1580
20	8200	2970	1180	1590	3900	2640	1750	2320	844	876	1020	1240
21	6370	2970	1160	1510	3490	2560	1800	2520	2030	778	956	1100
22	5000	3680	1130	1460	4000	2600	1750	2740	3630	770	915	1010
23	4270	3060	1090	1400	4130	2410	1520	2460	3700	799	874	893
24	3720	2840	1060	1500	3540	2320	1410	2320	2840	1190	842	817
25	3420	2730	1020	1540	3330	2260	1410	2180	2410	1040	812	778
26	3270	2640	2620	8640	3150	2210	2010	2070	2170	805	790	778
27	3010	2570	4860	37400	3000	2170	2070	2020	2010	721	967	1410
28	2800	2600	3420	22100	2840	2400	1630	1830	1750	691	835	1950
29	2660	2420	2900	9040	2700	2380	1450	1630	1990	824	765	1560
30	2490	2340	2690	6160	---	2210	1330	1860	2170	2080	712	1390
31	2340	---	3460	4770	---	2150	---	1970	---	1440	664	---
TOTAL	103800	97880	62760	153550	104960	80230	76670	62050	50572	48430	34842	30981
MEAN	3348	3263	2025	4953	3619	2588	2556	2002	1686	1562	1124	1033
MAX	8930	9870	4860	37400	8990	3650	6530	3030	3700	4350	1960	3130
MIN	1790	1940	1020	1400	2510	2150	1330	1240	764	691	664	576
CFSM	2.92	2.84	1.77	4.32	3.16	2.26	2.23	1.75	1.47	1.36	.98	.90
IN.	3.37	3.17	2.04	4.98	3.40	2.60	2.49	2.01	1.64	1.57	1.13	1.00

CAL YR 1975	TOTAL	1066471	MEAN	2922	MAX 18600	MIN 820	CFSM 2.55	IN 34.59
WTR YR 1976	TOTAL	906725	MEAN	2477	MAX 37400	MIN 576	CFSM 2.16	IN 29.41

DELAWARE RIVER BASIN

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01472000 SCHUYLKILL RIVER AT POTTSTOWN, PA--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--October 1975 to current year.

COOPERATION.--Water-quality data were furnished by the Pennsylvania Department of Environmental Resources.

WATER QUALITY DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

DATE	TIME	CODE FOR AGENCY COL- LECTING SAMPLE	INSTAN- TANEOUS DIS- CHARGE (CFS)	SPE- CIFIC CON- DUCT- ANCE (MICRO- MHOS)	TEMPER- ATURE (DEG C)	TUR- BID- ITY (JTU)	CHEM- ICAL OXYGEN DEMAND (HIGH LEVEL) (MG/L)	BIO- CHEM- ICAL OXYGEN DEMAND 5 DAY (MG/L)	HARD- NESS (CA+MG) (MG/L)	MINERAL ACIDITY (METHYL ORANGE) AS CACO3 (MG/L)	ACIDITY CO2 AS CACO3 (MG/L)	DIS- SOLVED CAL- CIUM (CA) (MG/L)
OCT 15...	1115	9813	1950	300	--	3	12	--	176	0	0	45
JAN 15...	0900	9813	3620	210	2.0	45	--	--	102	0	0	27
29...	1115	9813	8880	130	4.0	50	--	--	88	0	0	16
FEB 17...	1300	9813	5250	230	8.0	30	--	--	126	0	0	32
MAR 23...	0915	9813	2370	500	9.0	2	--	--	108	0	0	30
APR 13...	1000	9813	2160	240	11.0	3	--	--	120	0	0	29
20...	0900	9813	1730	290	22.0	1	--	2.0	144	0	0	37
MAY 05...	0830	9813	2010	400	10.0	2	--	--	150	0	0	36
JUN 17...	0900	9813	2070	500	26.0	9	--	--	134	0	0	43
JUL 29...	1100	9813	716	480	--	2	--	--	182	0	0	42
AUG 26...	1030	9813	780	600	27.0	1	--	--	184	0	0	46

DATE	DIS- SOLVED MAG- NE- SIUM (MG)	ALKA- LINITY AS CAO3 (MG/L)	DIS- SOLVED SULFATE (SO4) (MG/L)	DIS- SOLVED CHLO- RIDE (CL) (MG/L)	TOTAL FLUO- RIDE (F) (MG/L)	TOTAL FILT- RABLE RESIDUE (MG/L)	TOTAL NON- FILT- RABLE RESIDUE (MG/L)	TOTAL RESI- DUE (MG/L)	TOTAL NITRATE (N) (MG/L)	TOTAL NITRITE (N) (MG/L)	TOTAL AMMONIA NITRO- GEN (N) (MG/L)	TOTAL PHOS- PHORUS (P) (MG/L)
OCT 15...	15	84	110	23	.2	344	--	--	3.2	.14	.43	.15
JAN 15...	8.5	52	58	17	.1	210	84	--	2.3	.10	.49	.27
29...	11	36	30	12	.1	166	62	--	1.9	.03	.12	.26
FEB 17...	11	62	78	18	.1	232	84	--	2.1	.07	.37	.20
MAR 23...	8.0	60	64	17	.1	166	22	--	1.9	.08	.34	.16
APR 13...	11	56	56	20	.1	182	18	--	2.1	.08	.25	.21
20...	11	66	78	19	.1	252	4	--	2.0	.18	.34	.17
MAY 05...	15	74	84	24	.1	240	2	--	2.6	.12	.43	.20
JUN 17...	6.5	81	320	33	.1	344	26	300	2.7	.20	.28	.31
JUL 29...	19	90	86	37	.2	346	4	350	2.3	.11	.11	.19
AUG 26...	17	92	82	40	.2	324	<5	--	3.0	.11	.14	.25

DELAWARE RIVER BASIN

01472000 SCHUYLKILL RIVER AT POTTSTOWN, PA--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

DATE	TOTAL ALUM- INUM (AL) (UG/L)	TOTAL CAD- MIUM (CD) (UG/L)	TOTAL CHRO- MIUM (CR) (UG/L)	TOTAL COPPER (CU) (UG/L)	TOTAL IRON (FE) (UG/L)	TOTAL LEAD (PB) (UG/L)	TOTAL MAN- GANESE (MN) (UG/L)	TOTAL NICKEL (NI) (UG/L)	TOTAL ZINC (ZN) (UG/L)	TOTAL ORGANIC CARBON (C) (MG/L)	PHENOLS (UG/L)	METHY- LENE BLUE ACTIVE SUB- STANCE (MG/L)
OCT 15...	--	--	<10	10	150	--	330	10	30	7.0	--	<.0
JAN 15...	5480	<3	20	40	2630	<50	460	<20	40	--	--	.0
29...	3080	<3	<10	<10	580	<50	90	<10	<10	--	--	.0
FEB 17...	2880	<3	20	<10	2490	<50	460	<10	40	--	--	.0
MAR 23...	30	<3	<10	20	270	<50	240	50	50	--	--	.0
APR 13...	--	--	--	<10	240	--	--	--	--	--	--	.0
20...	140	<3	<10	20	200	<50	230	30	90	--	--	.0
MAY 05...	220	<3	10	20	340	<50	330	90	60	--	--	.0
JUN 17...	520	--	<10	20	470	<50	240	50	130	--	<10	.0
JUL 29...	90	<3	<10	<10	210	<50	90	40	120	--	<10	<.0
AUG 26...	110	<3	<10	10	140	<50	60	20	20	--	<10	.0

DELAWARE RIVER BASIN

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01472157 FRENCH CREEK NEAR PHOENIXVILLE, PA

LOCATION.--Lat 40°09'05", long 75° 36'06", Chester County, Hydrologic Unit 02040203, on right bank 70 ft (21 m) downstream from two-span county bridge on French Creek Road, 4.5 mi (7.2 km) northwest of Phoenixville, and 7.3 mi (11.7 km) upstream from mouth.

DRAINAGE AREA.--59.1 mi² (153.1 km²).

WATER-DISCHARGE RECORDS

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

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

REMARKS.--Records good.

AVERAGE DISCHARGE.--8 years, 92.0 ft³/s (2.605 m³/s), 21.14 in/yr (537 mm/yr).

EXTREMES FOR PERIOD OF RECORD.-- Maximum discharge, 11,200 ft³/s (317 m³/s) June 22, 1972, gage height, 13.66 ft (4.164 m), from rating curve extended above 2,500 ft³/s (70.8 m³/s) on basis of slope-area measurement of peak flow; minimum, 11 ft³/s (0.31 m³/s) July 4, 5, 1969, gage height, 4.11 ft (1.253 m).

EXTREMES FOR CURRENT YEAR.--Peak discharges above base of 750 ft³/s (21.2 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	0800	1,320 37.4	7.48 2.280	Jan. 27	2030	*1,380 39.1	*7.57 2.307
Jan. 1	0530	818 23.2	6.73 2.051	Apr. 1	0630	1,070 30.3	7.13 2.173
Jan. 26	1700	1,000 28.3	7.03 2.143	July 11	1315	776 22.0	6.66 2.030

Minimum discharge, 17 ft³/s (0.48 m³/s) Sept. 15, gage height, 4.21 ft (1.283 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	56	79	489	158	78	591	88	39	50	32	23
2	52	56	77	164	330	74	195	147	90	32	29	24
3	47	55	70	163	149	86	135	77	57	27	26	25
4	44	54	64	160	130	90	123	64	41	52	25	23
5	43	53	57	104	114	82	112	58	35	69	24	22
6	44	51	57	93	106	76	98	53	34	33	24	21
7	42	51	57	102	102	70	92	53	35	35	42	19
8	40	74	54	129	96	66	86	50	33	56	41	19
9	44	62	52	105	85	68	83	47	31	96	78	19
10	55	103	60	98	86	73	80	46	30	38	192	20
11	77	116	52	94	157	77	78	46	29	342	56	23
12	91	167	49	88	128	80	74	62	28	116	38	19
13	58	357	47	99	104	265	72	51	25	48	34	19
14	48	157	47	260	106	185	71	48	26	40	64	19
15	44	104	48	117	90	125	69	48	27	38	40	18
16	42	88	54	87	102	117	68	51	26	35	60	68
17	44	80	49	79	144	123	68	56	50	41	42	96
18	208	74	47	78	198	96	65	61	35	33	31	55
19	646	72	45	77	128	95	64	69	31	30	27	35
20	236	69	44	76	106	87	64	51	31	29	25	29
21	137	80	43	74	104	80	61	61	66	26	24	27
22	99	90	44	73	173	85	62	48	61	30	22	27
23	83	73	48	72	135	85	60	42	48	31	21	22
24	76	67	53	71	100	81	56	39	36	38	21	20
25	81	72	63	73	96	78	57	38	31	32	20	19
26	78	78	280	377	91	75	74	38	29	27	20	20
27	74	84	150	879	86	73	61	38	26	26	35	24
28	68	82	79	685	82	97	56	35	32	26	31	26
29	64	76	63	213	80	80	53	35	37	32	27	22
30	63	75	65	160	---	72	51	45	55	80	24	23
31	58	---	148	132	---	69	---	42	---	38	23	---
TOTAL	2841	2676	2145	5471	3566	2888	2879	1687	1154	1626	1202	826
MEAN	91.6	89.2	69.2	176	123	93.2	96.0	54.4	38.5	52.5	38.8	27.5
MAX	646	357	280	879	330	265	591	147	90	342	192	96
MIN	40	51	43	71	80	66	51	35	25	26	20	18
CFSM	1.55	1.51	1.17	2.98	2.08	1.58	1.62	.92	.65	.89	.66	.47
IN.	1.79	1.68	1.35	3.44	2.24	1.82	1.81	1.06	.73	1.02	.76	.52

CAL YR 1975	TOTAL	41407	MEAN 113	MAX 1200	MIN 26	CFSM 1.91	IN 26.06
WTR YR 1976	TOTAL	28961	MEAN 79.1	MAX 879	MIN 18	CFSM 1.34	IN 18.23

DELAWARE RIVER BASIN

01472157 FRENCH CREEK NEAR PHOENIXVILLE, PA--Continued

WATER-QUALITY RECORDS

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

COOPERATION.--Eight water-quality analyses for the 1976 water year were furnished by the Pennsylvania Department of Environmental Resources.

WATER QUALITY DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

DATE	TIME	SPECIFIC CONDUCTANCE (MICRO-MHOS)	PH (UNITS)	TEMPERATURE (DEG C)	DIS-SOLVED OXYGEN (MG/L)	HARDNESS (CA, MG)	NON-CARBONATE HARDNESS (MG/L)	DIS-SOLVED CALCIUM (CA) (MG/L)	DIS-SOLVED MAGNESIUM (MG)	DIS-SOLVED SODIUM (NA) (MG/L)	DIS-SOLVED POTASSIUM (K) (MG/L)	BICARBONATE (HCO3) (MG/L)
NOV 04...	1330	150	8.4	15.0	11.8	51	20	14	4.0	5.6	1.6	38
DATE	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)	DIS-SOLVED FLUORIDE (F) (MG/L)	DIS-SOLVED SILICA (SI02) (MG/L)	DIS-SOLVED SOLIDS (RESIDUE AT 180 C) (MG/L)	DIS-SOLVED SOLIDS (SUM OF CONSTITUENTS) (MG/L)	TOTAL NITRATE (N) (MG/L)	TOTAL AMMONIA NITROGEN (N) (MG/L)	TOTAL ORGANIC NITROGEN (N) (MG/L)
NOV 04...	0	31	.2	13	8.2	.1	15	80	80	1.5	.01	.59
DATE	TOTAL KJEL-DAHL NITROGEN (N) (MG/L)	TOTAL PHOSPHORUS (P) (MG/L)	TOTAL ORTHO PHOSPHORUS (P) (MG/L)	DIS-SOLVED CADMIUM (CD) (UG/L)	DIS-SOLVED CHROMIUM (CR) (UG/L)	DIS-SOLVED COBALT (CO) (UG/L)	DIS-SOLVED COPPER (CU) (UG/L)	DIS-SOLVED IRON (FE) (UG/L)	DIS-SOLVED LEAD (PB) (UG/L)	DIS-SOLVED MANGANESE (MN) (UG/L)	DIS-SOLVED NICKEL (NI) (UG/L)	DIS-SOLVED ZINC (ZN) (UG/L)
NOV 04...	.60	.02	.01	3	0	0	0	120	13	10	1	10

DELAWARE RIVER BASIN

201

01472157 FRENCH CREEK NEAR PHOENIXVILLE, PA--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

DATE	TIME	CODE FOR AGENCY COL- LECTING SAMPLE	INSTAN- TANEOUS DIS- CHARGE (CFS)	SPF- CIFIC CON- DUCT- ANCE (MICRO- MHOS)	TEMPER- ATURE (DEG C)	TUR- BID- ITY (JTU)	CHEM- ICAL OXYGEN DEMAND (HIGH LEVEL) (MG/L)	HARD- NESS (CA,MG) (MG/L)	MINERAL ACIDITY (METHYL ORANGE) AS CACO3 (MG/L)
OCT									
15...	1015	9813	45	110	15.0	2	8	64	0
JAN									
22...	0900	9813	150	140	.0	3	--	56	0
FEB									
19...	1300	9813	120	110	7.0	40	--	53	0
MAR									
29...	1000	9813	80	110	10.0	1	--	30	--
MAY									
17...	0830	9813	56	130	18.0	5	--	58	0
JUN									
17...	0920	9813	61	150	22.0	8	--	54	0
JUL									
29...	1015	9813	25	150	--	1	--	57	0
AUG									
19...	1100	9813	24	170	19.0	1	--	54	0

DATE	ACIDITY CO2 AS CACO3 (MG/L)	DIS- SOLVED CAL- CIUM (CA) (MG/L)	DIS- SOLVED MAG- NE- SIUM (MG) (MG/L)	ALKA- LITY AS CACO3 (MG/L)	DIS- SOLVED SULFATE (SO4) (MG/L)	DIS- SOLVED CHLO- RIDE (CL) (MG/L)	TOTAL FLUO- RIDE (F) (MG/L)	TOTAL FILT- RABLE RESIDUE (MG/L)	TOTAL NON- FILT- RABLE RESIDUE (MG/L)
OCT									
15...	0	12	8.5	42	18	9.0	--	124	--
JAN									
22...	0	11	7.0	30	22	20	--	90	22
FEB									
19...	0	9.5	7.0	28	14	14	--	92	22
MAR									
29...	0	10	1.0	32	16	9.0	--	90	8
MAY									
17...	0	12	7.0	170	12	8.0	.1	180	10
JUN									
17...	0	12	6.0	38	140	8.0	.1	106	30
JUL									
29...	0	12	6.0	40	10	12	.1	96	0
AUG									
19...	0	14	4.5	44	12	12	.1	124	<5

DATE	TOTAL RESI- DUE (MG/L)	TOTAL NITRATE (N) (MG/L)	TOTAL NITRITE (N) (MG/L)	TOTAL AMMONIA NITRO- GEN (N) (MG/L)	TOTAL PHOS- PHORUS (P) (MG/L)	TOTAL IRON (FE) (UG/L)	TOTAL MAN- GANESE (MN) (UG/L)	TOTAL ORGANIC CARBON (C) (MG/L)	METHY- LENE BLUF ACTIVE SUB- STANCE (MG/L)
OCT									
15...	--	1.5	.02	.02	.05	180	--	5.0	--
JAN									
22...	--	2.7	.11	.03	.06	350	--	--	--
FEB									
19...	--	2.0	.04	.15	.18	1060	--	--	.0
MAR									
29...	--	1.8	.03	.03	.09	20	--	--	--
MAY									
17...	190	1.7	.05	.11	.13	450	--	--	--
JUN									
17...	--	1.5	.04	.09	.12	1340	--	--	--
JUL									
29...	96	1.4	.03	.04	.02	150	30	--	.0
AUG									
19...	--	1.2	.02	.05	.05	170	--	--	.0

DELAWARE RIVER BASIN

01472174 PICKERING CREEK NEAR CHESTER SPRINGS, PA

LOCATION.--Lat 40°05'22", long 75°37'50", Chester County, Hydrologic Unit 02040203, on left bank 30 ft (9.1 m) downstream from bridge on Horseshoe Trail Road, 0.45 mi (0.72 km) downstream from unnamed tributary, and 0.75 mi (1.21 km) southwest of Chester Springs.

DRAINAGE AREA.--5.98 mi² (15.49 km²).

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

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

REMARKS.--Records fair.

AVERAGE DISCHARGE.--9 years, 10.2 ft³/s (0.289 m³/s), 23.19 in/yr (589 mm/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 2,410 ft³/s (68.3 m³/s) June 22, 1972, gage height, 5.21 ft (1.588 m), from rating curve extended above 700 ft³/s (19.8 m³/s); minimum, 0.87 ft³/s (0.025 m³/s) Sept. 1, 2, 1969, gage height, 0.94 ft (0.287 m).

EXTREMES FOR CURRENT YEAR.--Peak discharges above base of 220 ft³/s (6.23 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)
Oct. 19	0900	*500 14.2	*4.38 1.335	Jan. 27	2100	420 11.9	4.30 1.311
Jan. 1	0400	228 6.46	3.96 1.207	Apr. 1	0500	221 6.26	3.94 1.201
Jan. 14	0245	248 7.02	4.02 1.225	July 11	1130	328 9.29	4.18 1.274
Jan. 26	2400	276 7.82	4.09 1.247				

Minimum discharge, 2.0 ft³/s (0.057 m³/s) Sept. 8, 9, 10, 12, 13, 14, 15, gage height, 1.16 ft (0.354 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	6.8	6.8	7.2	73	18	8.4	74	20	7.4	4.1	3.5	2.4
2	6.6	7.2	6.8	12	56	8.5	19	14	24	3.4	3.2	2.5
3	6.4	6.6	6.4	21	30	8.7	16	10	7.6	5.3	3.1	2.7
4	6.3	6.6	6.3	12	12	11	17	8.2	5.7	5.3	3.0	2.5
5	6.3	6.4	6.1	9.9	11	11	15	7.6	5.2	4.1	2.8	2.5
6	6.3	6.4	6.1	11	10	9.5	13	6.8	5.0	3.5	4.3	2.4
7	6.3	6.4	5.9	12	9.6	8.6	12	6.3	4.6	3.4	4.5	2.3
8	6.3	7.6	5.9	19	9.2	8.4	12	5.7	4.5	3.5	4.1	2.3
9	7.0	6.6	6.4	16	9.0	8.9	11	5.3	4.3	3.4	10	2.1
10	7.0	8.0	6.8	14	9.9	10	11	5.0	4.1	3.0	19	2.8
11	9.6	7.2	5.9	9.0	24	15	10	5.2	4.0	69	4.8	2.4
12	8.2	25	5.7	9.3	14	12	10	7.6	3.8	8.4	3.8	2.1
13	6.6	42	5.7	14	14	34	9.6	5.7	3.7	5.9	3.5	2.1
14	6.4	12	5.7	59	12	12	9.4	5.5	3.8	5.2	3.7	2.1
15	6.3	9.2	5.9	13	11	11	9.2	5.3	3.8	5.0	3.5	2.1
16	6.3	8.4	6.6	11	13	13	9.0	12	3.7	4.6	3.5	11
17	7.6	8.0	5.7	10	16	12	8.6	7.8	9.6	4.1	3.1	5.9
18	24	7.6	5.3	9.5	19	9.7	8.2	11	4.3	3.8	2.8	3.8
19	124	7.4	5.1	9.0	22	10	8.0	9.6	4.0	3.7	2.7	3.1
20	19	7.2	4.9	8.7	12	9.4	7.4	6.4	4.3	3.5	2.7	2.8
21	11	9.0	4.8	8.2	10	9.6	7.2	6.8	11	3.7	2.5	3.0
22	9.4	8.0	4.8	8.2	19	9.2	7.0	5.7	6.4	3.8	2.5	2.7
23	8.0	7.2	4.8	8.0	11	8.8	6.4	5.3	5.0	4.1	2.4	2.5
24	7.8	7.0	5.0	7.7	10	8.9	6.3	5.0	4.1	4.3	2.4	2.3
25	8.8	7.0	5.4	7.6	9.9	8.8	6.4	4.8	3.7	3.4	2.4	2.3
26	8.0	6.8	55	66	9.6	8.4	8.2	5.0	3.4	3.2	2.4	2.7
27	7.8	7.8	11	157	9.3	8.7	6.8	4.8	4.0	3.2	14	3.2
28	7.4	7.0	8.4	51	8.9	11	6.3	4.5	4.0	3.2	3.7	3.0
29	7.4	6.6	7.6	14	8.6	8.5	6.1	4.6	4.6	8.6	3.1	2.7
30	7.2	6.6	9.0	12	---	8.4	5.9	6.3	5.0	8.6	2.5	5.3
31	6.8	---	19	10	---	8.7	---	5.3	---	4.1	2.4	---
TOTAL	372.9	275.6	255.2	702.1	428.0	330.1	356.0	223.1	168.6	202.4	131.9	91.6
MEAN	12.0	9.19	8.23	22.6	14.8	10.6	11.9	7.20	5.62	6.53	4.25	3.05
MAX	124	42	55	157	56	34	74	20	24	69	19	11
MIN	6.3	6.4	4.8	7.6	8.6	8.4	5.9	4.5	3.4	3.0	2.4	2.1
CFSM	2.01	1.54	1.38	3.78	2.47	1.77	1.99	1.20	.94	1.09	.71	.51
IN.	2.32	1.71	1.59	4.37	2.66	2.05	2.21	1.39	1.05	1.26	.82	.57

CAL YR 1975	TOTAL	5256.6	MEAN 14.4	MAX 377	MIN 4.8	CFSM 2.41	IN 32.69
WTR YR 1976	TOTAL	3537.5	MEAN 9.67	MAX 157	MIN 2.1	CFSM 1.62	IN 22.00

DELAWARE RIVER BASIN

203

01472186 PIGEON RUN AT RAPPS CORNER, PA

LOCATION.--Lat 40°04'58", long 75°35'31", Chester County, Hydrologic Unit 02040203, on left bank 5 ft (2 m) upstream from Yellow Springs Road, 0.6 mi (1.0 km) southeast of Rapps Corner, 1.6 mi (2.6 km) southeast of Chester Springs and 3 mi (4.8 km) west of Devault, Pa.

DRAINAGE AREA.--1.06 mi² (2.75 km²).

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

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

REMARKS.--Records fair except those for period Oct. 1 to May 11, which are poor. The storm of July 25, 1975 caused some flow to by-pass the gaging station. This diversion is included in the figures of daily discharge, but not in the figures of peak discharges. The maximum amount of flow diverted around the gage was less than 10 ft³/s (0.28 m³/s).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 109 ft³/s (3.09 m³/s) July 13, 14, 1975, gage height, 9.01 ft (2.746 m), from rating curve extended above 55 ft³/s (1.0 m³/s); minimum, 0.32 ft³/s (0.009 m³/s) Aug. 29, 1974; minimum gage height, 5.06 ft (1.542 m) on many days in August and September 1975.

EXTREMES FOR CURRENT YEAR.--Peak discharges above base of 10 ft³/s (0.28 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	0620	35 0.99	6.67 2.033	June 17	0105	24 0.68 6.30	1.920
Dec. 26	0825	11 .31	5.78 1.762	July 11	1000	*52 1.47 *7.20	2.195
Jan. 1	0220	15 .42	5.96 1.817	July 29	1950	17 .48 6.03	1.838
Jan. 26	2145	20 .57	6.15 1.875	Aug. 6	1725	15 .42 5.95	1.814
Jan. 27	1845	35 .99	6.67 2.033	Aug. 9	2245	20 .57 6.15	1.875
Apr. 1	0430	16 .45	6.00 1.829	Aug. 27	0900	11 .31 5.77	1.759
June 1	2205	18 .51	6.05 1.844				

Minimum discharge, 0.47 ft³/s (0.013 m³/s) many days in August and September; minimum gage height, 5.09 ft (1.551 m) Oct. 16, 17.

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	.90	1.7	1.5	8.0	4.0	1.8	8.0	3.0	1.8	.84	.66	.66
2	.90	1.7	1.4	2.5	6.0	1.8	3.0	2.0	2.8	.78	.66	.75
3	.90	1.7	1.4	4.0	2.0	1.8	2.5	1.3	1.7	.81	.66	.66
4	.80	1.7	1.4	2.3	1.8	2.3	3.0	1.3	1.6	.90	.58	.66
5	.80	1.6	1.4	2.0	1.7	2.0	2.5	1.2	1.3	.81	.58	.58
6	.80	1.6	1.3	1.8	1.7	1.8	2.1	1.2	1.3	.71	1.6	.58
7	.80	1.6	1.3	1.7	1.6	1.8	1.8	1.1	1.3	.74	1.2	.58
8	.80	2.0	1.3	2.5	1.6	1.8	1.8	1.1	1.3	.93	1.1	.54
9	.90	1.8	1.4	2.0	1.6	1.9	1.7	1.1	1.2	.81	2.5	.54
10	.90	2.5	1.5	1.8	1.6	2.2	1.7	1.0	1.1	.64	1.9	.75
11	1.5	2.0	1.4	1.7	3.0	3.0	1.6	1.2	1.1	7.6	.85	.54
12	1.3	2.8	1.4	1.7	2.3	2.2	1.6	1.7	1.1	1.3	.75	.54
13	1.1	4.5	1.3	1.8	1.9	5.0	1.6	1.3	1.1	1.1	.75	.54
14	.90	2.5	1.3	6.5	1.7	2.5	1.5	1.3	1.1	.96	1.1	.54
15	.90	2.0	1.3	2.5	1.6	2.3	1.5	1.3	.96	.96	.85	1.2
16	.90	1.8	1.4	2.3	1.8	2.7	1.5	1.4	.96	.85	.75	1.3
17	1.5	1.7	1.3	2.1	2.0	2.2	1.4	1.3	2.2	.85	.66	.66
18	3.5	1.6	1.2	2.0	3.5	2.0	1.4	1.7	1.1	.75	.66	.66
19	10	1.6	1.2	1.9	2.3	1.9	1.4	1.6	.95	.75	.58	.54
20	7.0	1.5	1.1	1.8	2.1	1.8	1.4	1.3	1.0	.66	.58	.54
21	3.0	2.0	1.1	1.7	2.0	1.8	1.3	1.4	1.3	.85	.58	.58
22	2.0	1.6	1.1	1.6	3.0	1.7	1.3	1.2	1.2	.85	.54	.54
23	1.9	1.5	1.0	1.8	2.3	1.6	1.3	1.2	1.1	.85	.54	.54
24	1.8	1.4	1.0	1.5	2.1	1.6	1.3	1.2	.95	.96	.54	.49
25	2.0	1.4	1.0	1.5	2.0	1.6	1.3	1.2	.90	.66	.54	.54
26	1.8	1.4	6.0	5.0	2.0	1.5	1.6	1.2	.81	.66	.54	.66
27	1.8	1.6	2.0	17	1.9	1.5	1.4	1.2	1.0	.66	1.7	.75
28	1.8	1.5	1.7	6.0	1.9	1.8	1.3	1.1	.96	.66	.85	.58
29	1.7	1.4	1.5	2.5	1.8	1.6	1.2	1.1	1.1	1.6	.75	.54
30	1.7	1.4	1.7	2.3	---	1.5	1.1	1.4	.93	1.2	.66	1.2
31	1.7	---	2.0	2.0	---	1.6	---	1.2	---	.75	.66	---
TOTAL	58.30	55.1	46.9	95.8	64.8	62.6	56.1	41.8	37.22	33.45	26.87	19.78
MEAN	1.88	1.84	1.51	3.09	2.23	2.02	1.87	1.35	1.24	1.08	.87	.66
MAX	10	4.5	6.0	17	6.0	5.0	8.0	3.0	2.8	7.6	2.5	1.3
MIN	.80	1.4	1.0	1.5	1.6	1.5	1.1	1.0	.81	.64	.54	.49
CFSM	1.77	1.74	1.42	2.92	2.10	1.91	1.76	1.27	1.17	1.02	.82	.62
IN.	2.04	1.93	1.64	3.36	2.27	2.19	1.97	1.47	1.30	1.17	.94	.69

CAL YR 1975 TOTAL 756.59 MEAN 2.07 MAX 26 MIN .54 CFSM 1.95 IN 26.53
WTR YR 1976 TOTAL 598.72 MEAN 1.64 MAX 17 MIN .49 CFSM 1.55 IN 20.99

DELAWARE RIVER BASIN

01473000 PERKIOMEN CREEK AT GRATERFORD, PA

LOCATION.--Lat 40°13'46", long 75°27'07", Montgomery County, Hydrologic Unit 02040203, on left bank 1,650 ft (503 m) upstream from highway bridge at Graterford, 0.5 mi (0.8 km) upstream from Landis Brook and 2.5 mi (4.0 km) north of Collegeville. Water-quality sampling site 1,710 ft (521 m) downstream.

DRAINAGE AREA.--279 mi² (723 km²).

WATER-DISCHARGE RECORDS

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

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

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

REMARKS.--Records good. Some regulation by Green Lane Reservoir 10.5 mi (16.9 km) upstream since December 21, 1956 (see p. 311).

AVERAGE DISCHARGE.--62 years, 381 ft³/s (10.79 m³/s), 18.56 in/yr (471 mm/yr), adjusted for storage since December 1956.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 39,900 ft³/s (1,130 m³/s) July 9, 1935, gage height, 18.26 ft (5.566 m), from rating curve extended above 12,000 ft³/s (340 m³/s) on basis of slope-area measurement at gage height, 16.23 ft (4.947 m); minimum, 4.7 ft³/s (0.13 m³/s) Oct. 5, 1941; minimum daily, 5.6 ft³/s (0.16 m³/s) Oct. 5, 1941.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 12,000 ft³/s (340 m³/s) Jan. 27, gage height, 9.74 ft (2.969 m); minimum, 52 ft³/s (1.47 m³/s) Sept. 7, gage height, 1.07 ft (0.326 m); minimum daily, 53 ft³/s (1.50 m³/s) Sept. 7.

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	189	227	3890	679	310	3810	185	131	227	70	64
2	241	189	237	1490	2640	290	1350	965	396	148	62	65
3	197	185	205	1160	744	308	743	356	246	102	59	65
4	177	181	181	1070	539	367	596	232	158	92	57	65
5	158	173	173	497	487	383	524	181	119	92	55	63
6	151	158	173	408	377	349	414	158	102	72	56	60
7	141	151	177	378	354	285	356	150	100	74	66	53
8	135	201	158	806	360	280	314	170	97	90	83	56
9	128	227	155	434	270	234	294	148	90	92	152	56
10	148	237	177	323	256	257	265	127	85	80	338	58
11	205	589	173	313	504	331	246	111	80	265	165	60
12	335	609	155	254	734	496	232	135	76	256	98	59
13	227	3240	145	309	546	2280	201	135	70	197	81	57
14	181	1340	138	2080	640	1170	197	113	68	173	250	55
15	158	677	145	681	387	618	193	111	70	125	165	55
16	141	497	158	390	383	522	185	119	83	88	204	71
17	135	362	151	295	1470	718	181	189	141	74	133	264
18	2360	330	148	286	1330	410	173	237	145	65	90	137
19	4430	304	122	261	1720	382	165	345	97	61	74	93
20	1970	280	125	254	905	352	155	214	92	59	69	80
21	1110	309	119	239	615	326	148	280	97	57	65	75
22	677	477	122	224	1390	335	145	351	148	55	63	71
23	504	314	120	220	1030	273	151	197	232	59	60	68
24	367	270	120	210	556	252	131	148	151	76	63	66
25	351	246	120	200	486	242	128	131	108	70	68	65
26	351	227	1760	1490	446	229	205	122	95	63	67	66
27	319	237	1370	6190	419	217	189	116	80	61	138	72
28	284	289	578	4680	374	281	145	111	95	61	120	86
29	260	227	385	1020	325	233	128	100	119	69	90	72
30	246	205	336	656	---	208	122	113	237	83	75	71
31	205	---	1260	471	---	195	---	128	---	75	60	---
TOTAL	16562	12920	9613	31179	20966	13133	12086	6178	3808	3161	3196	2248
MEAN	534	431	310	1006	723	424	403	199	127	102	103	74.9
MAX	4430	3240	1760	6190	2640	2280	3810	965	396	265	338	264
MIN	128	151	119	200	256	195	122	100	68	55	55	53
MEAN#	534	432	316	1000	722	435	391	199	127	91	104	64.8
CFSM#	1.91	1.55	1.13	3.58	2.59	1.56	1.40	.71	.46	.33	.37	.23
IN.#	2.20	1.73	1.30	4.13	2.79	1.80	1.56	.82	.51	.38	.43	.26

CAL YR 1975 TOTAL 226466 MEAN 620 MAX 13900 MIN 63 MEAN# 621 CFSM# 2.23 IN.# 30.22
WTR YR 1976 TOTAL 135050 MEAN 369 MAX 6190 MIN 53 MEAN# 367 CFSM# 1.32 IN.# 17.92

Adjusted for change in contents in Green Lane Reservoir.

DELAWARE RIVER BASIN

01473000 PERKIOMEN CREEK AT GRATERFORD, PA--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--October 1975 to current year.

COOPERATION.--Water-quality data were furnished by the Pennsylvania Department of Environmental Resources.

WATER QUALITY DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

DATE	TIME	CODE FOR AGENCY COL- LECTING SAMPLE	INSTAN- TANEOUS DIS- CHARGE (CFS)	SPF- CIFIC CON- DUCT- ANCE (MICRO- MHOS)	TEMPER- ATURE (DEG C)	TUR- BID- ITY (JTU)	HARD- NESS (CA+MG) (MG/L)	MINERAL ACIDITY (METHYL ORANGE) AS CAC03 (MG/L)	ACIDITY CO2 AS CAC03 (MG/L)	DIS- SOLVED CAL- CIUM (CA) (MG/L)	DIS- SOLVED MAG- NE- SIUM (MG) (MG/L)	ALKA- LITY AS CAC03 (MG/L)
OCT 15...	1300	9813	155	185	17.0	2	87	0	0	23	7.0	64
JAN 12...	1330	9813	250	200	.0	3	79	0	0	22	5.5	50
FEB 19...	1330	9813	1500	150	6.0	60	70	0	0	14	8.5	32
MAY 17...	1200	9813	210	370	20.0	3	99	0	0	28	7.5	66
AUG 26...	0915	9813	65	400	26.0	6	98	0	0	29	6.0	84

DATE	DIS- SOLVED SULFATE (SO4) (MG/L)	DIS- SOLVED CHLO- RIDE (CL) (MG/L)	TOTAL FILT- RAHLE RESIOUE (MG/L)	TOTAL NITRATE (N) (MG/L)	TOTAL NITRITE (N) (MG/L)	TOTAL AMMONIA NITHO- GEN (N) (MG/L)	TOTAL PHOS- PHORUS (P) (MG/L)	TOTAL IRON (FE) (UG/L)	TOTAL ALPHA (PC/L)	TOTAL BETA (PC/L)	TOTAL ORGANIC CARBOV (C) (MG/L)	METHY- LENE BLUE ACTIVE SUR- STANCE (MG/L)
OCT 15...	32	18	218	1.4	.04	.04	.12	180	1.0	4.0	20	--
JAN 12...	28	29	224	2.8	.05	.25	.14	130	--	--	--	.0
FEB 19...	24	20	100	2.0	.06	.25	.17	2600	--	--	--	.0
MAY 17...	36	40	204	1.5	.11	.12	.21	190	--	--	--	.0
AUG 26...	30	33	184	1.3	.04	.13	.27	280	--	--	--	.0

DELAWARE RIVER BASIN

01473120 SKIPPACK CREEK NEAR COLLEGEVILLE, PA

LOCATION.--Lat 40°09'52", long 75°26'01", Montgomery County, Hydrologic Unit 02040203, on right bank 60 ft (18 m) downstream from two-span highway bridge, 1.5 mi (2.4 km) upstream from mouth, and 2 mi (3 km) southeast of Collegeville.

DRAINAGE AREA.--53.7 mi² (139.1 km²).

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

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

REMARKS.--Records good.

AVERAGE DISCHARGE.--10 years, 79.0 ft³/s (2.237 m³/s), 19.97 in/yr (507 mm/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 40,400 ft³/s (1,140 m³/s) Sept. 13, 1971, gage height, 22.5 ft (6.86 m), from floodmark, from rating curve extended above 8,400 ft³/s (238 m³/s) on basis of slope-area measurement of peak flow; minimum, 0.1 ft³/s (0.003 m³/s) Sept. 12, 13, 1966; minimum gage height, 0.79 ft (0.241 m) Oct 3, 1968.

EXTREMES FOR CURRENT YEAR.--Peak discharges above base of 2,000 ft³/s (56.6 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	0430	3,500 99.1	8.00 2.438	Jan. 27	2130	*4,390 124	*8.86 2.701

Minimum discharge, 1.80 ft³/s (0.051 m³/s) Sept. 7, 8, 9, 10, gage height, 0.84 ft (0.256 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	49	30	35	1230	93	44	389	49	8.6	33	4.7	3.0
2	43	28	33	194	530	40	120	74	46	9.7	3.6	3.3
3	37	27	30	269	130	38	77	24	17	61	3.3	3.9
4	33	26	27	183	96	46	69	18	12	41	3.0	3.9
5	28	24	26	100	74	114	58	16	9.1	13	2.7	3.0
6	27	21	24	94	63	96	50	14	7.5	8.6	2.7	2.7
7	24	20	23	94	59	61	44	14	7.5	7.5	3.9	1.8
8	23	24	20	233	56	52	40	15	7.5	6.9	5.1	2.1
9	21	23	21	84	52	49	37	12	6.4	6.9	8.6	2.1
10	31	23	24	68	55	55	33	10	6.0	6.4	64	2.7
11	43	41	20	56	171	114	31	10	5.1	33	13	4.7
12	41	202	18	46	82	103	27	15	5.1	16	7.5	3.3
13	27	745	17	76	67	451	26	12	4.3	9.1	6.0	2.7
14	23	194	17	466	66	147	23	9.7	3.9	6.9	24	2.4
15	21	105	17	79	49	96	21	9.7	3.9	6.4	9.7	2.7
16	19	79	18	60	55	101	20	9.1	4.7	6.4	12	6.0
17	20	66	17	47	224	107	19	9.7	98	8.0	8.0	44
18	124	58	17	45	238	69	17	11	15	5.5	5.5	11
19	445	52	14	44	361	64	17	26	14	4.3	4.7	6.4
20	173	47	14	42	133	56	18	14	9.7	3.6	3.9	4.7
21	107	89	14	41	94	53	18	17	10	3.3	3.9	4.7
22	79	76	14	40	240	50	18	19	12	3.9	3.3	6.0
23	64	53	14	39	137	43	18	11	12	3.9	2.7	5.1
24	55	49	13	38	89	40	18	9.1	8.0	4.7	2.7	4.3
25	56	46	12	37	76	37	18	8.6	6.9	4.7	3.0	4.3
26	52	41	484	157	66	35	27	8.6	6.4	3.0	3.3	4.3
27	46	43	151	1370	60	33	18	8.0	5.1	2.7	6.9	12
28	41	41	79	645	53	38	16	7.5	6.0	3.3	12	10
29	38	35	61	147	47	30	14	6.9	10	5.5	5.1	5.5
30	37	33	58	96	---	27	12	9.1	24	16	3.3	6.4
31	33	---	213	71	---	26	---	10	---	7.5	3.0	---
TOTAL	1860	2341	1545	6191	3516	2315	1313	487.0	391.7	351.7	245.1	179.0
MEAN	60.0	78.0	49.8	200	121	74.7	43.8	15.7	13.1	11.3	7.91	5.97
MAX	445	745	484	1370	530	451	389	74	98	61	64	44
MIN	19	20	12	37	47	26	12	6.9	3.9	2.7	2.7	1.8
CFSM	1.12	1.45	.93	3.72	2.25	1.39	.82	.29	.24	.21	.15	.11
IN.	1.29	1.62	1.07	4.29	2.44	1.60	.91	.34	.27	.24	.17	.12

CAL YR 1975	TOTAL	46110.1	MEAN	126	MAX	4770	MIN	5.7	CFSM	2.35	IN	31.94
WTR YR 1976	TOTAL	20735.5	MEAN	56.7	MAX	1370	MIN	1.8	CFSM	1.06	IN	14.36

DELAWARE RIVER BASIN

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01473800 SCHUYLKILL RIVER AT MANAYUNK, PHILADELPHIA, PA

LOCATION.--Lat 40°01'41", long 75°13'44", Philadelphia County, Hydrologic Unit 02040203, at Green Lane Avenue Bridge, 5.5 mi (8.8 km) upstream from gaging station at Fairmount Dam, and 14.2 mi (22.3 km) upstream from mouth.

DRAINAGE AREA.--1,830 mi² (4,740 km²), at Fairmount Dam.

PERIOD OF DAILY RECORD.--

SUSPENDED SEDIMENT DISCHARGE: November 1947 to current year.

REMARKS.--Mean discharges given are for 01474500 Schuylkill River at Philadelphia (Fairmount Dam). Daily records do not include water diverted by the city of Philadelphia for municipal water supply. Unpublished records of temperature of sediment samples available in the district office at Harrisburg.

EXTREMES FOR PERIOD OF DAILY RECORD.--

SEDIMENT CONCENTRATIONS: Maximum daily, 4,910 mg/l Dec. 30, 1948; minimum daily, 1 mg/l on many days.

SEDIMENT LOADS: Maximum daily, 650,000 tons (590,000 t) (estimated) Aug. 19, 1955; minimum daily, less than 0.05 tons (0.04 t) Sept. 2, 1966.

EXTREMES FOR CURRENT YEAR.--

SEDIMENT CONCENTRATIONS: Maximum daily, 1,130 mg/l Jan. 27; minimum daily, 1 mg/l on many days during Dec.

SEDIMENT LOADS: Maximum daily, 122,000 tons (110,700 t) Jan. 27; minimum daily, 3.5 tons (3.2 t) Dec. 20.

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	4970	20	268	2380	10	64	2410	5	33
2	4240	17	195	2270	10	61	2540	5	34
3	3640	12	118	2230	9	54	2320	4	25
4	3140	10	85	2180	9	53	2110	2	11
5	2850	11	85	2050	10	55	1990	1	5.4
6	2620	13	92	1950	12	63	1950	1	5.3
7	2410	12	78	1850	11	55	1940	2	10
8	2220	8	48	1960	14	74	1900	2	10
9	2150	9	52	2280	10	62	1810	1	4.9
10	2120	10	57	2180	8	47	1860	1	5.0
11	2250	8	49	3260	12	106	1900	1	5.1
12	2780	12	90	4070	17	187	1770	1	4.8
13	2550	10	69	13500	95	3460	1660	1	4.5
14	2090	11	62	13200	143	5100	1620	2	8.7
15	1890	12	61	8640	83	1940	1620	1	4.4
16	1770	14	67	6410	47	813	1650	1	4.5
17	1740	10	47	5200	25	351	1640	1	4.4
18	4930	95	1260	4380	10	118	1530	1	4.1
19	16600	279	13200	3820	8	83	1420	1	3.8
20	13400	170	6150	3450	7	65	1290	1	3.5
21	9890	150	4010	3700	12	120	1270	3	10
22	7240	57	1110	4460	16	193	1240	4	13
23	6450	30	522	3990	8	86	1220	4	13
24	4860	18	236	3260	7	62	1200	2	6.5
25	4370	17	201	3040	5	41	1180	2	6.4
26	4030	16	174	2870	5	39	4420	60	716
27	3670	15	149	2760	4	30	8100	95	2080
28	3280	14	124	2850	4	31	5330	30	432
29	3000	11	89	2680	3	22	3830	15	155
30	2770	12	90	2460	3	20	3210	6	52
31	2510	10	68	---	---	---	4710	20	254
TOTAL	132430	---	28906	119330	---	13455	72640	---	3929.3

DELAWARE RIVER BASIN

01473800 SCHUYLKILL RIVER AT MANAYUNK, PHILADELPHIA, PA--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	13400	176	7050	5710	25	385	2970	15	120
2	8300	80	1790	12800	190	6570	2820	13	99
3	5870	26	412	6700	120	2170	2730	10	74
4	6790	19	348	5310	45	645	2860	9	69
5	4590	12	149	4790	22	285	3150	10	85
6	3600	7	68	4170	16	180	3260	15	132
7	3360	8	73	3640	15	147	2730	23	170
8	4810	18	234	3430	13	120	2520	22	150
9	3730	8	81	3240	10	87	2420	8	52
10	2630	7	50	2990	12	97	2570	2	14
11	2390	5	32	3240	20	175	2670	3	22
12	2480	6	40	4370	25	295	3210	4	35
13	2350	10	63	3270	20	177	5620	27	410
14	6780	130	2380	3240	25	219	6560	42	744
15	6690	105	1900	2930	14	111	4840	13	170
16	3670	55	545	2740	10	74	4320	6	70
17	2820	19	145	5530	20	299	4610	10	124
18	2120	10	57	6000	50	810	3890	5	53
19	1700	7	32	5730	165	2550	3310	3	27
20	1620	6	26	5060	50	683	3130	4	34
21	1580	7	30	4370	26	307	2970	7	56
22	1510	9	37	5210	25	352	2930	9	71
23	1480	8	32	5440	40	588	2770	10	75
24	1430	10	39	4430	25	299	2490	8	54
25	1660	10	45	4100	18	199	2340	7	44
26	2140	55	318	4010	16	173	2260	6	37
27	38100	1130	122000	3820	12	124	2170	7	41
28	44800	640	77400	3420	11	102	2350	8	51
29	15000	180	7290	3170	11	94	2540	8	55
30	9320	70	1760	---	---	---	2240	8	48
31	6920	33	617	---	---	---	2100	11	62
TOTAL	213640	---	225043	132860	---	18317	97350	---	3248
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	8500	150	3440	2090	25	141	1640	19	84
2	10700	115	3320	3760	20	203	2510	23	156
3	7410	43	860	3420	18	166	2700	21	153
4	5900	26	414	2370	14	90	1800	18	87
5	5210	13	183	1960	13	69	1420	13	50
6	4280	10	116	1760	14	67	1280	10	35
7	3700	9	90	1690	15	68	1180	12	38
8	3290	10	89	1600	14	60	1250	10	34
9	3020	9	73	1480	15	60	1150	11	34
10	2760	8	60	1350	14	51	1010	11	30
11	2550	8	55	1390	12	45	916	10	25
12	2440	8	53	1610	15	65	800	10	22
13	2260	9	55	1610	17	74	752	11	22
14	2110	8	46	1400	16	60	797	11	24
15	2000	6	32	1260	15	51	759	10	20
16	1990	11	59	1220	15	49	762	11	23
17	1860	9	45	1540	17	71	1420	23	88
18	1820	8	39	2560	30	207	1760	22	105
19	1730	9	42	3030	30	245	1240	18	60
20	1670	11	50	2420	20	131	945	23	59
21	1540	13	54	2220	21	126	977	24	63
22	1710	17	78	2870	22	170	2260	34	207
23	1530	12	50	2530	21	143	4300	39	453
24	1450	10	39	2190	22	130	3250	35	307
25	1390	18	68	1980	22	118	2370	33	211
26	1650	13	58	1800	21	102	1890	30	153
27	1980	11	59	1680	21	95	1570	29	123
28	1680	10	45	1560	20	84	1510	28	114
29	1440	9	35	1460	19	75	1520	31	127
30	1350	8	29	1520	22	90	1800	33	160
31	---	---	---	1650	21	94	---	---	---
TOTAL	90920	---	9636	60980	---	3200	47538	---	3067

DELAWARE RIVER BASIN

01473800 SCHUYLKILL RIVER AT MANAYUNK, PHILADELPHIA, PA--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	2610	40	282	1410	22	84	594	14	22
2	4400	50	594	1010	21	57	595	15	24
3	2400	38	246	880	20	48	625	16	27
4	2440	36	237	790	18	38	630	15	26
5	2150	36	209	710	15	29	651	11	19
6	1640	41	182	653	15	26	607	10	16
7	1500	40	162	771	16	33	552	10	15
8	1580	36	154	1260	25	85	489	10	13
9	1820	34	167	1820	36	177	457	11	14
10	1580	24	102	3630	56	549	456	13	16
11	2300	35	217	2660	33	237	537	14	20
12	3100	40	335	1820	21	103	614	13	22
13	1880	38	193	1350	20	73	603	12	20
14	1390	34	128	1740	28	132	519	11	15
15	1220	25	82	2450	25	165	448	11	13
16	1140	21	65	1920	23	119	540	11	16
17	1200	19	62	2140	33	191	2070	33	184
18	1100	19	56	1700	29	133	3760	27	274
19	980	16	42	1320	25	89	2930	13	103
20	850	12	28	1120	23	70	1820	12	59
21	820	9	20	984	20	53	1340	13	47
22	790	9	19	890	17	41	1150	14	43
23	790	13	28	815	15	33	1030	14	39
24	920	18	45	746	14	28	892	12	29
25	1290	24	84	714	15	29	791	11	23
26	1010	19	52	690	11	20	775	10	21
27	820	18	40	751	13	26	850	13	30
28	680	15	28	1360	22	81	1420	17	65
29	650	13	23	949	18	46	1990	19	102
30	1320	20	71	741	17	34	1770	17	81
31	2290	24	148	654	13	23	---	---	---
TOTAL	48660	---	4101	40448	---	2852	31505	---	1398
YEAR	1088301		317152.3						

DATE	TIME	INSTAN- TANEOUS DIS- CHARGE (CFS)	TEMPER- ATURE (DEG C)	SUS- PEN- DED SEDI- MENT (MG/L)	SUS- PEN- DED SEDI- MENT DIS- CHARGE (T/DAY)	SUS. SED. FALL DIAM. % FINER THAN .004 MM	SUS. SED. FALL DIAM. % FINER THAN .008 MM
OCT 19...	1820	22500	15.5	344	20900	33	50
JAN 27...	1900	47600	3.0	1140	147000	44	58

DATE	SUS. SED. FALL DIAM. % FINER THAN .016 MM	SUS. SED. FALL DIAM. % FINER THAN .031 MM	SUS. SED. FALL DIAM. % FINER THAN .062 MM	SUS. SED. FALL DIAM. % FINER THAN .125 MM	SUS. SED. FALL DIAM. % FINER THAN .250 MM	SUS. SED. FALL DIAM. % FINER THAN .500 MM
OCT 19...	67	80	90	97	99	100
JAN 27...	71	80	84	88	96	99

DELAWARE RIVER BASIN

01473800 SCHUYLKILL RIVER AT MANAYUNK, PA--Continued

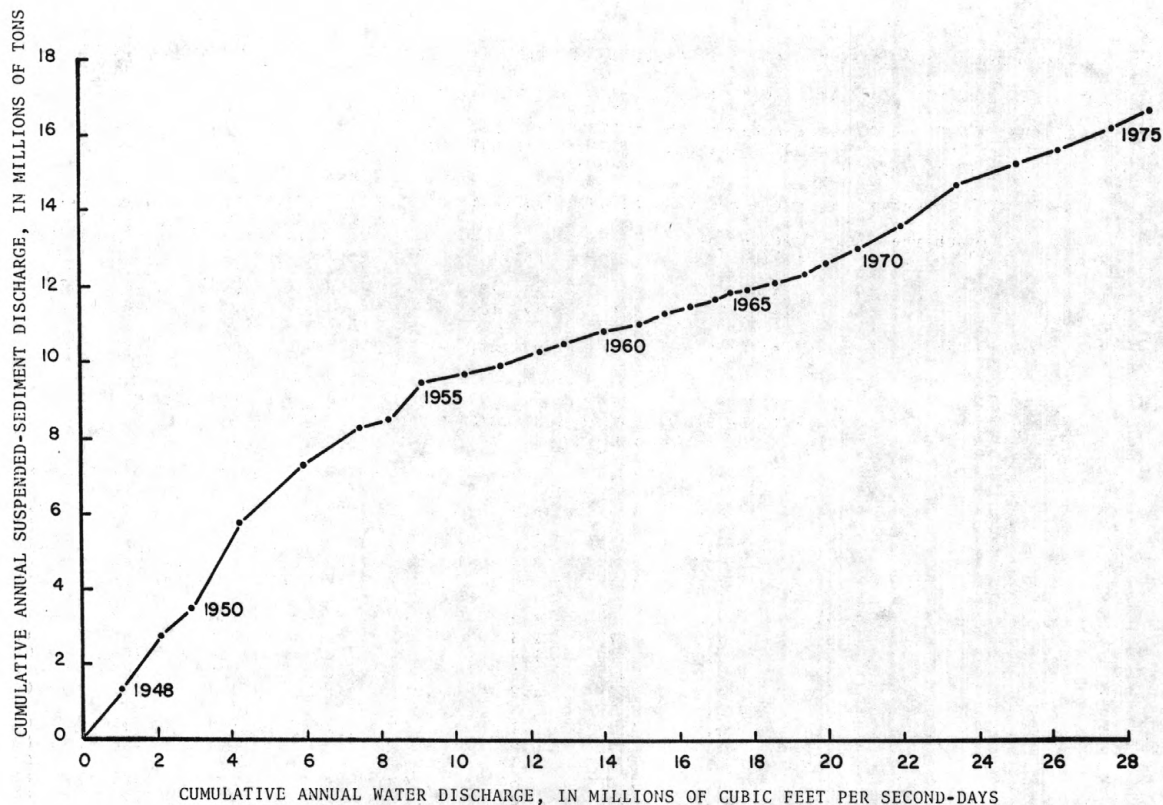


Figure 10.--Double mass accumulation of annual suspended-sediment discharge versus annual water discharge, Schuylkill River at Manayunk, Philadelphia, Pa.

Table 2 ---Suspended sediment concentration-duration table, Schuylkill River at Manayunk, Philadelphia

Period	Mean daily concentration, in milligrams per liter, that was equaled or exceeded for indicated percentage of time													
	1	2	5	10	20	30	40	50	60	70	80	90	95	99
1976	350	165	88	40	26	21	17	15	12	11	9	6	3	1
1960-76	440	270	125	57	28	20	17	14	13	11	9	7	5	4

DELAWARE RIVER BASIN

01473870 PINE RUN TRIBUTARY NEAR AMBLER, PA

LOCATION---Lat 40°08'56", long 75°10'50", Montgomery County, Hydrologic Unit 02040203, on left bank 20 ft (6 m) upstream from Susquehanna Road, 1.5 mi (2.4 km) east of Fort Washington, 2.2 mi (3.5 km) west of Ambler, and 3 mi (4.8 km) northwest of Roslyn.

DRAINAGE AREA--1.18 mi² (3.06 km²).

PERIOD OF RECORD--October 1973 to current year.

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

REMARKS--Records fair, except those below 0.5 ft³/s (0.014 m³/s) which are poor.

EXTREMES FOR PERIOD OF RECORD--Maximum discharge, about 450 ft³/s (12.7 m³/s) July 13, 1975, gage height, unknown, from flow-through-culvert study; minimum, 0.02 ft³/s (0.001 m³/s) Sept. 12, 13, 1976, gage height, 1.04 ft (0.317 m).

EXTREMES FOR CURRENT YEAR--Peak discharges above base of 30 ft³/s (0.85 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	/0130	42 1.19	2.13 0.649	Jan. 27	/2130	*86 2.44	*2.53 0.771
Jan. 1	/0630	81 2.29	2.48 0.756	May 18	/2130	34 0.96	2.05 0.625

Minimum discharge 0.02 ft³/s (0.001 m³/s) Sept. 12, 13, gage height, 1.04 ft (0.317 m).

/ About.

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	1.8	.77	.92	15	2.4	1.0	3.2	3.4	.19	.00	.07	.12
2	1.7	.77	.77	2.1	5.1	1.0	1.7	1.2	.41	.08	.07	.13
3	1.8	.70	.77	3.4	1.9	.92	1.4	.57	.20	.14	.00	.12
4	1.7	.70	.70	2.2	1.7	1.0	1.5	.46	.18	.09	.06	.12
5	1.4	.63	.70	1.8	1.5	1.0	1.4	.41	.16	.08	.06	.12
6	1.3	.63	.70	1.7	1.4	.92	1.3	.36	.16	.09	.07	.11
7	1.2	.57	.63	2.4	1.3	.77	1.3	.41	.15	.10	.07	.10
8	1.1	.70	.63	3.8	1.2	.70	1.4	.36	.15	.09	.09	.06
9	1.3	.57	.63	1.7	1.2	.77	1.1	.29	.13	.08	.09	.03
10	1.0	.77	.70	1.2	1.2	.84	1.2	.26	.12	.08	1.0	.05
11	1.5	.63	.57	1.3	1.9	1.2	1.2	.36	.12	.09	.11	.04
12	.80	2.4	.57	1.7	1.2	.92	.92	.36	.10	.08	.10	.03
13	.74	5.1	.57	2.8	1.2	3.2	.92	.26	.10	.08	.10	.03
14	.68	1.8	.57	3.2	1.1	1.5	.84	.24	.10	.08	.24	.03
15	.62	1.4	.51	1.5	1.0	1.4	.84	.22	.10	.08	.24	.04
16	.57	1.3	.57	1.3	1.1	1.6	.84	.22	.11	.08	.15	.09
17	.63	1.3	.51	1.1	1.3	1.6	.77	.20	.13	.08	.14	.07
18	2.8	1.1	.46	.94	1.2	1.3	.70	2.6	.10	.07	.13	.06
19	5.4	1.0	.41	.86	1.7	1.4	.70	1.3	.09	.07	.12	.05
20	1.8	1.1	.41	.90	1.2	1.3	.63	.51	.09	.07	.12	.05
21	1.4	1.9	.41	.86	1.1	1.3	.57	.41	.09	.08	.11	.05
22	1.3	1.3	.41	.86	3.6	1.2	.77	.36	.09	.07	.11	.05
23	1.1	1.0	.36	.86	1.4	1.1	.57	.29	.09	.08	.11	.05
24	1.1	1.0	.32	.86	1.3	1.1	.51	.26	.08	.08	.11	.05
25	1.2	1.0	.36	.86	1.3	.90	.70	.24	.07	.07	.11	.05
26	1.2	1.0	9.4	3.5	1.3	.90	.84	.22	.06	.07	.11	.06
27	1.2	1.2	1.5	31	1.2	.90	.57	.20	.07	.07	.14	.06
28	1.0	.92	1.4	7.4	1.2	.84	.51	.19	.09	.07	.13	.06
29	.92	.84	1.4	3.0	1.1	.77	.46	.18	.12	.08	.12	.05
30	.84	.84	1.5	2.4	---	.77	.36	.24	.11	.08	.12	.10
31	.77	---	1.9	2.1	---	1.0	---	.20	---	.07	.11	---
TOTAL	41.87	34.94	31.26	104.60	45.3	35.12	29.72	16.78	3.76	2.52	4.37	2.03
MEAN	1.35	1.16	1.01	3.37	1.56	1.13	.99	.54	.13	.081	.14	.068
MAX	5.4	5.1	9.4	31	5.1	3.2	3.2	3.4	.41	.14	1.0	.13
MIN	.57	.57	.32	.86	1.0	.70	.36	.18	.06	.07	.06	.03
CFSM	1.14	.98	.86	2.86	1.32	.96	.84	.46	.11	.07	.12	.06
IN.	1.32	1.10	.98	3.29	1.43	1.11	.94	.53	.12	.08	.14	.06

CAL YR 1975 TOTAL 823.99 MEAN 2.26 MAX 48 MIN .17 CFSM 1.92 IN 25.95
WTR YR 1976 TOTAL 352.27 MEAN .96 MAX 31 MIN .03 CFSM .81 IN 11.10

DELAWARE RIVER BASIN

01473895 WISSAHICKON CREEK AT AMBLER, PA

LOCATION.--Lat 40°09'29", long 75°13'59", Montgomery County, Hydrologic Unit 02040203, 255 ft (78 m) downstream from bridge on Mt. Pleasant Avenue in Ambler.

DRAINAGE AREA.--not available.

PERIOD OF RECORD.--November 1975 to current year.

COOPERATION.--Water-quality data were furnished by the Pennsylvania Department of Environmental Resources.

WATER QUALITY DATA, NOVEMBER 1975 TO SEPTEMBER 1976

DATE	TIME	CODE FOR AGENCY COL- LECTING SAMPLE	SPE- CIFIC CON- DUCT- ANCE (MICHO- MHOS)	PH (UNITS)	TEMPER- ATURE (DEG C)	TUR- BID- ITY (JTU)	CHEM- ICAL OXYGEN DEMAND (HIGH LEVEL) (MG/L)	HARD- NESS (CA.MG) (MG/L)	MINERAL ACIDITY (METHYL AS CACO3 (MG/L)
NOV									
06...	1230	9813	400	--	14.0	2	12	99	--
FEB									
03...	1315	9813	290	--	.0	13	--	84	0
25...	1200	9813	500	--	7.0	5	--	84	0
MAR									
11...	0830	9813	500	--	5.0	4	--	242	0
APR									
13...	0845	9813	700	--	7.0	2	--	148	0
MAY									
11...	1400	9813	600	--	19.0	4	--	156	0
JUN									
22...	0845	9813	700	--	24.0	6	--	140	0
JUL									
21...	1115	9813	1000	8.0	25.0	--	--	190	0
AUG									
24...	0800	9813	110	--	24.0	3	--	196	0

DATE	ACIDITY CO2 AS CACO3 (MG/L)	DIS- SOLVED CAL- CIUM (CA) (MG/L)	DIS- SOLVED MAG- NE- SIUM (MG) (MG/L)	ALKA- LINITY AS CACO3 (MG/L)	DIS- SOLVED SULFATE (SO4) (MG/L)	DIS- SOLVED CHLO- RIDE (CL) (MG/L)	TOTAL FLUO- RIDE (F) (MG/L)	TOTAL FILT- RABLE RESIDUE (MG/L)	TOTAL NON- FILT- RABLE RESIDUE (MG/L)
NOV									
06...	--	35	2.5	106	88	56	--	382	0
FEB									
03...	0	26	4.5	70	52	43	.1	280	18
25...	0	27	4.0	104	46	43	.1	246	4
MAR									
11...	0	36	38	78	54	78	.1	366	6
APR									
13...	0	35	15	82	80	50	.1	306	10
MAY									
11...	0	36	16	108	68	61	.1	362	4
JUN									
22...	0	41	9.0	122	84	83	.1	430	6
JUL									
21...	0	--	--	154	180	108	.2	624	12
AUG									
24...	0	56	14	150	200	133	.1	700	22

DATE	TOTAL RESI- DUE (MG/L)	TOTAL NITRATE (N) (MG/L)	TOTAL NITRITE (N) (MG/L)	TOTAL AMMONIA NITRO- GEN (N) (MG/L)	TOTAL PHOS- PHORUS (P) (MG/L)	TOTAL IRON (FE) (UG/L)	TOTAL MAN- GANESE (MN) (UG/L)	METHY- LENE BLUE ACTIVE SUB- STANCE (MG/L)
NOV								
06...	--	2.5	.05	.03	2.7	170	--	.0
FEB								
03...	--	1.7	.48	.28	1.0	480	100	.0
25...	--	1.5	.06	.19	.68	170	--	.0
MAR								
11...	--	1.9	.05	.17	.46	190	--	.0
APR								
13...	--	1.9	.06	.05	1.0	170	--	.0
MAY								
11...	--	1.9	.09	.09	1.9	290	--	.0
JUN								
22...	--	1.2	.06	.18	2.5	590	--	.0
JUL								
21...	636	.48	.01	.07	1.8	100	--	--
AUG								
24...	--	1.2	.04	.18	3.9	170	--	.0

DELAWARE RIVER BASIN

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01473950 WISSAHICKON CREEK AT BELLS MILL ROAD, PHILADELPHIA, PA

LOCATION.--Lat 40°04'50", long 75°13'35", Philadelphia County, Hydrologic Unit 02040203, on left bank 300 ft (91 m) upstream from Bells Mill Road, 0.5 mi (0.8 km) south of Mt. St. Joseph College in Philadelphia.

DRAINAGE AREA.--53.6 mi² (139 km²).

PERIOD OF RECORD.--October 1965 to September 1970, May 1974 to current year.

GAGE.--Water-stage recorder and concrete control. Datum of gage is 108.58 ft (33.095 m) above mean sea level.

REMARKS.--Records good, except those for the period Nov. 18 to Jan. 28, which are fair.

AVERAGE DISCHARGE.--7 years (1965-70, 1975-76), 70.1 ft³/s (1.99 m³/s), 17.76 in/yr (451 mm/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 4,360 ft³/s (123 m³/s) Dec. 21, 1973, gage height, 9.68 ft (2.950 m); minimum, 5.4 ft³/s (0.15 m³/s) July 27, 1966, gage height, 2.81 ft (0.856 m).

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood of June 29, 1973 reached a stage of 12.66 ft (3.859 m), from floodmarks, discharge, 8,100 ft³/s (229 m³/s).

EXTREMES FOR CURRENT YEAR.--Peak discharges above base of 1,000 ft³/s (28.3 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)
Dec. 26	Unk.	/1,300 37	Unknown	Jan. 27	Unk.	*/2,300 65	Unknown
Jan. 1	Unk.	/1,700 48	Unknown				

Minimum discharge, 8.6 ft³/s (0.24 m³/s) July 25, gage height, 2.99 ft (0.911 m).

/ About.

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	75	63	58	750	99	65	339	235	51	53	14	12
2	73	58	58	125	339	63	94	175	101	23	12	13
3	67	59	56	200	104	63	88	53	55	18	12	13
4	61	56	54	150	91	75	75	50	48	48	12	12
5	58	53	52	90	84	101	64	42	40	40	12	10
6	55	53	54	80	77	104	61	40	39	18	13	10
7	56	55	54	120	71	65	59	48	40	31	28	11
8	59	69	50	300	69	61	57	47	40	22	47	12
9	63	55	50	100	65	65	57	37	41	20	65	13
10	63	67	58	80	71	77	58	35	40	17	195	17
11	73	71	52	70	137	122	56	50	39	53	30	15
12	69	164	48	66	94	104	52	94	33	27	23	13
13	53	524	50	74	81	311	54	45	27	18	20	12
14	55	137	49	300	86	101	53	36	29	17	89	14
15	58	91	48	90	69	79	48	36	30	17	69	18
16	56	77	48	75	75	101	48	36	32	17	28	58
17	58	75	48	63	125	112	44	35	104	17	22	58
18	207	70	48	52	109	77	41	160	39	15	19	22
19	335	68	47	50	203	77	40	104	33	13	22	13
20	134	67	44	54	96	71	44	53	27	14	21	13
21	94	190	44	50	84	73	41	61	26	15	16	18
22	75	130	41	50	259	69	45	50	29	21	15	20
23	69	69	41	47	131	65	42	42	26	19	12	19
24	67	66	41	47	94	66	40	41	25	17	13	18
25	79	64	41	47	91	62	38	41	25	13	13	15
26	69	62	600	180	86	58	75	40	23	11	12	25
27	61	64	130	700	81	58	40	35	20	13	24	24
28	59	59	70	350	73	61	41	33	28	13	14	24
29	59	56	60	140	67	53	38	37	35	15	10	20
30	59	56	74	106	---	55	35	40	30	22	9.4	53
31	59	---	250	89	---	51	---	35	---	16	12	---
TOTAL	2478	2748	2418	4695	3111	2565	1867	1866	1155	673	903.4	595
MEAN	79.9	91.6	78.0	151	107	82.7	62.2	60.2	38.5	21.7	29.1	19.8
MAX	335	524	600	750	339	311	339	235	104	53	195	58
MIN	53	53	41	47	65	51	35	33	20	11	9.4	10
CFSM	1.49	1.71	1.46	2.82	2.00	1.54	1.16	1.12	.72	.40	.54	.37
IN.	1.72	1.91	1.68	3.26	2.16	1.78	1.30	1.30	.80	.47	.63	.41

CAL YR 1975	TOTAL	43389.0	MEAN	119	MAX	1820	MIN	24	CFSM	2.22	IN	30.11
WTR YR 1976	TOTAL	25074.4	MEAN	68.5	MAX	750	MIN	9.4	CFSM	1.28	IN	17.40

DELAWARE RIVER BASIN

01474000 WISSAHICKON CREEK AT MOUTH, PHILADELPHIA, PA

LOCATION.--Lat 40°00'54", long 75°12'24", Philadelphia County, Hydrologic Unit 02040203, on left bank 100 ft (30 m) upstream from dam at Ridge Ave., 750 ft (229 m) upstream from mouth, 1,000 ft (305 m) northwest of Gustine Lake in Philadelphia.

DRAINAGE AREA.--64.0 mi² (166 km²).

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--June 1897 to September 1903, January 1905 to July 1906, October 1965 to September 1970, May 1974 to current year. Prior to October 1965 published as "near Philadelphia".

REVISED RECORDS.--WSP 1302: 1905.

GAGE.--Water-stage recorder, concrete control, and crest-stage gage. Datum of gage is 26.41 ft (8.050 m) above mean sea level. Prior to October 1965, water-stage recorder at about same site and datum.

REMARKS.--Records good.

AVERAGE DISCHARGE.--8 years (1897-98, 1965-70, 1975-76), 87.3 ft³/s (2.47 m³/s), 18.53 in/yr (471 mm/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 4,600 ft³/s (130 m³/s) Aug. 23, 1974, gage height, 6.63 ft (2.021 m); minimum daily observed, 2.0 ft³/s (0.057 m³/s) July 18, 19, 1905.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood of June 29, 1973 reached a stage of 7.92 ft (2.414 m), discharge, 6,870 ft³/s (195 m³/s).

EXTREMES FOR CURRENT YEAR.--Peak discharges above base of 1,200 ft³/s (34.0 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)
Dec. 26	1415	1,600 45.3	4.37 1.332	Jan. 27	Unk.	*2,530 71.6	*5.18 1.579
Jan. 1	0830	1,950 55.2	4.69 1.430				

Minimum discharge, 13 ft³/s (0.37 m³/s) Aug. 6, 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	88	78	75	859	133	91	410	338	84	60	23	22
2	88	72	75	172	390	88	120	265	128	36	19	26
3	84	72	72	232	137	88	94	66	61	32	16	28
4	78	72	69	196	124	102	95	60	53	63	17	24
5	75	66	66	113	116	113	82	51	51	54	17	21
6	72	63	69	106	109	154	78	49	47	33	17	18
7	75	66	69	141	102	91	73	54	47	43	26	17
8	81	88	63	338	102	88	74	60	49	36	58	20
9	88	72	63	124	95	91	71	44	54	32	99	22
10	84	84	72	102	102	109	73	42	55	31	260	27
11	98	91	66	98	158	137	70	69	51	110	37	28
12	88	200	60	95	137	145	62	158	53	43	28	23
13	66	608	63	102	109	338	65	54	56	31	24	18
14	72	154	63	332	116	124	69	44	49	27	116	19
15	72	109	60	116	102	95	63	42	33	26	95	22
16	75	91	63	106	106	115	65	49	34	30	33	69
17	95	88	63	95	145	137	61	44	113	28	27	84
18	221	84	63	78	149	90	58	196	45	26	24	33
19	371	84	63	75	232	89	56	158	39	24	25	24
20	154	81	57	78	124	84	65	63	36	21	25	20
21	109	205	60	75	109	83	64	81	32	23	22	21
22	88	158	49	75	277	85	79	57	35	25	20	25
23	78	95	49	69	172	75	61	49	35	30	18	24
24	78	88	49	69	120	74	58	46	32	27	21	23
25	102	84	49	69	116	74	53	49	30	25	22	21
26	84	81	704	200	113	73	97	49	29	18	22	33
27	75	84	167	800	109	70	56	41	28	19	36	31
28	75	78	98	450	102	80	56	41	29	20	34	29
29	78	72	78	185	95	67	52	42	34	20	23	26
30	75	72	91	141	---	69	48	57	37	36	19	54
31	72	---	186	120	---	67	---	44	---	25	19	---
TOTAL	3039	3340	2894	5811	4001	3186	2428	2462	1459	1054	1242	852
MEAN	98.0	111	93.4	187	138	103	80.9	79.4	48.6	34.0	40.1	28.4
MAX	371	608	704	859	390	338	410	338	128	110	260	84
MIN	66	63	49	69	95	67	48	41	28	18	16	17
CFSM	1.53	1.73	1.46	2.92	2.16	1.61	1.26	1.24	.76	.53	.63	.44
IN.	1.77	1.94	1.68	3.38	2.33	1.85	1.41	1.43	.85	.61	.72	.50

CAL YR 1975	TOTAL	52129	MEAN	143	MAX	2100	MIN	35	CFSM	2.23	IN	30.30
WTR YR 1976	TOTAL	31768	MEAN	86.8	MAX	859	MIN	16	CFSM	1.36	IN	18.46

DELAWARE RIVER BASIN

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01474000 WISSAHICKON CREEK AT MOUTH, PHILADELPHIA, PA--CONTINUED

WATER-QUALITY RECORDS

PERIOD OF RECORD.--November 1975 to current year.

COOPERATION.--Water-quality data were furnished by the Pennsylvania Department of Environmental Resources.

WATER QUALITY DATA, NOVEMBER 1975 TO SEPTEMBER 1976

DATE	TIME	CODE FOR AGENCY COL- LECTING SAMPLE	INSTAN- TANEOUS DIS- CHARGE (CFS)	SPE- CIFIC CON- DUCT- ANCE (MICRO- MHOS)	TEMPER- ATURE (DEG C)	TUR- BID- ITY (JTU)	CHEM- ICAL OXYGEN DEMAND (HIGH LEVEL) (MG/L)	HARD- NESS (CA.MG) (MG/L)	MINERAL ACIDITY (METHYL ORANGE) AS CACO3 (MG/L)
NOV									
06...	1100	9813	66	350	13.0	2	16	110	0
FEB									
03...	1245	9813	137	290	.0	9	--	165	0
25...	1110	9813	116	600	7.0	7	--	216	0
MAR									
25...	0845	9813	75	450	10.0	2	--	210	0
APR									
13...	0915	9813	69	370	7.5	2	--	132	0
MAY									
13...	0830	9813	63	500	15.0	6	--	136	0
JUN									
22...	0915	9813	38	--	24.0	2	--	148	0
JUL									
27...	1130	9813	19	700	--	2	--	145	0
AUG									
23...	1400	9813	19	800	26.0	2	--	190	0

DATE	ACIDITY CO2 AS CACO3 (MG/L)	DIS- SOLVED CAL- CIUM (CA) (MG/L)	DIS- SOLVED MAG- NE- SIUM (MG) (MG/L)	ALKA- LINITY AS CACO3 (MG/L)	DIS- SOLVED SULFATE (SO4) (MG/L)	DIS- SOLVED CHLO- RIDE (CL) (MG/L)	TOTAL FLUO- RIDE (F) (MG/L)	TOTAL FILT- RABLE RESIDUE (MG/L)	TOTAL NON- FILT- RABLE RESIDUE (MG/L)
NOV									
06...	0	39	3.0	126	58	45	--	366	0
FEB									
03...	0	30	22	100	48	56	.1	184	28
25...	0	35	32	104	42	44	.1	282	2
MAR									
25...	0	37	29	132	56	526	.1	288	6
APR									
13...	0	40	8.0	118	54	45	.1	294	8
MAY									
13...	0	33	13	102	44	44	.1	336	6
JUN									
22...	0	41	11	154	50	52	.1	380	4
JUL									
27...	0	49	5.2	150	60	87	.1	424	18
AUG									
23...	0	50	16	150	86	70	.1	426	22

DATE	TOTAL RESI- DUE (MG/L)	TOTAL NITRATE (N) (MG/L)	TOTAL NITRITE (N) (MG/L)	TOTAL AMMONIA NITRO- GEN (N) (MG/L)	TOTAL PHOS- PHORUS (P) (MG/L)	TOTAL IRON (FE) (UG/L)	PHENOLS (UG/L)	METHY- LENE BLUE ACTIVE SUB- STANCE (MG/L)
NOV								
06...	--	3.5	.37	.90	2.3	170	--	.0
FEB								
03...	--	3.0	.09	1.0	1.2	860	--	.0
25...	--	3.5	.13	1.5	1.0	270	--	.0
MAR								
25...	--	3.2	2.1	2.0	2.4	160	--	.0
APR								
13...	--	3.0	.19	1.3	1.6	140	--	.0
MAY								
13...	342	3.0	.26	.42	1.8	430	--	.0
JUN								
22...	--	3.0	.50	2.6	3.4	170	--	.0
JUL								
27...	--	5.2	.46	.11	2.7	130	--	.0
AUG								
23...	--	3.9	1.1	1.9	3.3	110	<10	.0

DELAWARE RIVER BASIN

01474500 SCHUYLKILL RIVER AT PHILADELPHIA, PA

LOCATION.--Lat 39°58'00", long 75°11'20"; Philadelphia County, Hydrologic Unit 02040203, on right bank 150 ft (46 m) upstream from Fairmount Dam, 1,500 ft (457 m) upstream from Spring Garden Street Bridge, in Philadelphia, and 8.7 mi (14.0 km) upstream from mouth. Water-quality sampling site 1.6 mi (2.6 km) upstream.

DRAINAGE AREA.--1,893 mi² (4,903 km²).

WATER-DISCHARGE RECORDS

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

REVISED RECORDS.--WSP 756: Drainage area. WSP 1302: 1936(M), WSP 1432: 1945. See also PERIOD OF RECORD. GAGE.--Water-stage recorder and concrete control. Datum of gage is 5.74 ft (1.750 m) above mean sea level.

Prior to Nov. 25, 1956, water-stage recorder at site on right bank just upstream from Fairmount Dam at same datum. Nov. 26, 1956 to Oct. 6, 1966, water-stage recorder at site on left bank 40 ft (12 m) upstream from Fairmount Dam at same datum.

REMARKS.--Records good. Some regulation by reservoirs above station. Records of daily discharge do not include diversion above station by city of Philadelphia for municipal water supply.

AVERAGE DISCHARGE.--45 years, 2,911 ft³/s (82.44 m³/s), 20.88 in/yr (530 mm/yr), adjusted for diversion.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 103,000 ft³/s (2,920 m³/s) June 23, 1972, gage height, 14.65 ft (4.465 m); no flow over dam at times; minimum daily, 0.6 ft³/s (0.02 m³/s) Sept. 2, 1966.

EXTREMES OUTSIDE PERIOD OF RECORD.--Maximum stage known, 17.0 ft (5.18 m) Oct. 4, 1896, discharge, 135,000 ft³/s (3,820 m³/s), from rating curve extended above 46,000 ft³/s (1,300 m³/s). Flood of Mar. 1, 1902, reached a stage of 14.8 ft (4.511 m), discharge, 98,000 ft³/s (2,780 m³/s).

EXTREMES FOR CURRENT YEAR.--Peak discharges above base of 18,000 ft³/s (510 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	1730	22,700 643	9.03 2.752	Jan. 1	1015	18,800 532	8.61 2.624
Nov. 13	1815	18,300 518	8.56 2.609	Jan. 28	0245	*61,000 1,730	*12.13 3.697

Minimum discharge, 427 ft³/s (12.1 m³/s) Sept. 9, 10, 15, 16, gage height, 5.77 ft (1.759 m); minimum daily 448 ft³/s (12.7 m³/s) Sept. 15.

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	4970	2380	2410	13400	5710	2970	8500	2090	1640	2610	1410	594
2	4240	2270	2540	8300	12800	2820	10700	3760	2510	4400	1010	595
3	3640	2230	2320	5870	6700	2730	7410	3420	2700	2400	880	625
4	3140	2180	2110	6790	5310	2860	5900	2370	1800	2440	790	630
5	2850	2050	1990	4590	4790	3150	5210	1960	1420	2150	710	651
6	2620	1950	1950	3600	4170	3260	4280	1760	1280	1640	653	607
7	2410	1850	1940	3360	3640	2730	3700	1690	1180	1500	771	552
8	2220	1960	1900	4810	3430	2520	3290	1600	1250	1590	1260	489
9	2150	2280	1810	3730	3240	2420	3020	1480	1150	1820	1820	457
10	2120	2180	1860	2630	2990	2570	2760	1350	1010	1580	3630	456
11	2250	3260	1900	2390	3240	2670	2550	1390	916	2300	2660	537
12	2780	4070	1770	2480	4370	3210	2440	1610	800	3100	1820	614
13	2550	13500	1660	2350	3270	5620	2260	1610	752	1880	1350	603
14	2090	13200	1620	6780	3240	6560	2110	1400	797	1390	1740	519
15	1890	8640	1620	6690	2930	4840	2000	1260	759	1220	2450	448
16	1770	6410	1650	3670	2740	4320	1990	1220	762	1140	1920	540
17	1740	5200	1640	2820	5530	4610	1860	1540	1420	1200	2140	2070
18	4930	4380	1530	2120	6000	3890	1820	2560	1760	1100	1700	3760
19	16600	3820	1420	1700	5730	3310	1730	3030	1240	980	1320	2930
20	13400	3450	1290	1620	5060	3130	1670	2420	945	850	1120	1820
21	9890	3700	1270	1580	4370	2970	1540	2220	977	820	984	1340
22	7240	4460	1240	1510	5210	2930	1710	2870	2260	790	890	1150
23	6450	3990	1220	1480	5440	2770	1530	2530	4300	790	815	1030
24	4860	3260	1200	1430	4430	2490	1450	2190	3250	920	746	892
25	4370	3040	1180	1660	4100	2340	1390	1980	2370	1290	714	791
26	4030	2870	4420	2140	4010	2260	1650	1800	1890	1010	690	775
27	3670	2760	8100	38100	3820	2170	1980	1680	1570	820	751	850
28	3280	2850	5330	44800	3420	2350	1680	1560	1510	680	1360	1420
29	3000	2680	3830	15000	3170	2540	1440	1460	1520	650	949	1990
30	2770	2460	3210	9320	---	2240	1350	1520	1800	1320	741	1770
31	2510	---	4710	6920	---	2100	---	1650	---	2290	654	---
TOTAL	132430	119330	72640	213640	132860	97350	90920	60980	47538	48660	40448	31505
MEAN	4272	3978	2343	6892	4581	3140	3031	1967	1585	1570	1305	1050
MAX	16600	13500	8100	44800	12800	6560	10700	3760	4300	4400	3630	3760
MIN	1740	1850	1180	1430	2740	2100	1350	1220	752	650	653	448
(/)	275	271	272	286	285	265	257	266	317	311	320	292
MEAN#	4547	4249	2615	7178	4866	3405	3288	2233	1902	1881	1625	1342
CFSM#	2.40	2.24	1.38	3.79	2.57	1.80	1.74	1.18	1.00	.99	.86	.71
IN.#	2.77	2.50	1.59	4.37	2.77	2.08	1.94	1.36	1.12	1.14	.99	.79

CAL YR 1975	TOTAL	1590147	MEAN	4357	MAX	31500	MIN	748	MEAN#	4637	CFSM#	2.45	IN.#	33.25
WTR YR 1976	TOTAL	1088301	MEAN	2974	MAX	44800	MIN	448	MEAN#	3258	CFSM#	1.72	IN.#	23.42

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

01474500 SCHUYLKILL RIVER AT PHILADELPHIA, PA--Continued

WATER-QUALITY RECORDS

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

PERIOD OF DAILY RECORD.--

SPECIFIC CONDUCTANCE: October 1963 to current year.

pH: January 1968 to current year.

WATER TEMPERATURES: October 1945 to current year.

DISSOLVED OXYGEN: January 1966 to current year.

REMARKS.--Water-quality recorder located at Belmont raw-water pumping station on west side of river near Columbia Bridge.

COOPERATION.--Two chemical analyses for the 1976 water year were furnished by the Pennsylvania Department of Environmental Resources.

EXTREMES FOR PERIOD OF DAILY RECORD.--

SPECIFIC CONDUCTANCE: Maximum, 972 micromhos June 25, 1965; minimum, 128 micromhos Sept. 14, 1971.

pH: Maximum, 10.1 Aug. 12, 1969; minimum, 5.7 Dec. 21, 1973.

WATER TEMPERATURES: Maximum, 31.5°C July 10, 1974; minimum, freezing point on many days during winter periods.

DISSOLVED OXYGEN: Maximum, 15.5 mg/l Feb. 4, 1973; minimum, 0.4 mg/l July 24, 1971.

EXTREMES FOR CURRENT YEAR.--

WATER TEMPERATURES: Maximum, 29.0°C Aug. 26, 28, 29; minimum, 1.0°C Jan. 19, 20, 22-25.

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)	FECAL COLIFORM (COL. PER 100 ML)	STREPTOCOCCI (COLONIES PER 100 ML)	HARDNESS (CA, MG)	NON-CARBONATE HARDNESS (MG/L)	DISSOLVED CALCIUM (CA) (MG/L)
OCT 28...	1050	3210	370	7.4	16.0	3	9.7	--	--	120	61	29
DEC 22...	0900	1350	470	7.3	4.5	4	9.0	830	1400	160	82	38
JAN 27...	1530	42700	240	5.4	3.0	--	13.4	4600	5400	--	--	--
FEB 25...	1450	4100	405	7.6	7.0	5	12.1	E890	E1050	100	60	26
MAR 29...	1520	3850	450	7.9	8.5	2	8.9	41	E18	130	61	32
APR 29...	1515	1420	460	7.2	15.0	2	8.9	E80	E28	140	73	35
MAY 25...	1430	1940	330	7.4	19.5	5	8.0	230	88	120	64	30
JUN 22...	1530	2620	270	7.4	26.0	5	7.1	--	--	170	100	40
JUL 28...	1000	710	510	7.6	26.5	3	11.2	2600	65	190	100	47
AUG 23...	1230	850	385	8.7	27.5	1	10.2	--	--	160	79	39
SEP 07...	1400	547	510	8.4	23.0	10	--	500	40	190	95	47

DATE	DIS-SOLVED MAGNESIUM (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)	DIS-SOLVED CHLORIDE (CL) (MG/L)	DIS-SOLVED FLUORIDE (F) (MG/L)	DIS-SOLVED SILICA (SiO2) (MG/L)	DIS-SOLVED SOLIDS (RESIDUE AT 180 C) (MG/L)
OCT 28...	11	10	2.7	69	0	57	4.4	52	13	.1	10	192
DEC 22...	15	22	3.0	91	0	75	7.3	80	32	.2	8.1	266
JAN 27...	--	--	--	--	--	--	--	--	--	--	--	--
FEB 25...	9.2	12	2.8	52	0	43	2.1	51	21	.1	8.9	165
MAR 29...	11	17	3.1	78	0	64	1.6	57	24	.1	6.0	204
APR 29...	13	17	2.9	83	0	68	8.4	68	22	.2	6.1	225
MAY 25...	10	14	2.3	64	0	53	4.1	60	19	.2	8.3	206
JUN 22...	17	19	3.4	85	0	70	5.4	97	26	.2	8.2	310
JUL 28...	17	26	3.6	104	0	85	4.2	100	35	.3	.8	347
AUG 23...	14	27	7.2	93	0	76	.3	82	28	.2	7.2	282
SEP 07...	17	26	4.3	113	0	93	.7	94	37	.2	6.7	306

01474500 SCHUYLKILL RIVER AT PHILADELPHIA, PA--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 AMMONIA NITRO- GEN (N) (MG/L)	TOTAL ORGANIC NITRO- GEN (N) (MG/L)	TOTAL KJEL- DAHL NITRO- GEN (N) (MG/L)	TOTAL NITRO- GEN (N) (MG/L)	TOTAL PHOS- PHORUS (P) (MG/L)	TOTAL ORGANIC CARBON (C) (MG/L)	TOTAL PHYTO- PLANK- TON (CELLS PER ML)	SUS- PENDE SEDI- MENT (MG/L)	SUS- PENDE SEDI- MENT CHARGE (T/DAY)	SUS. SED. SIEVE DIAM. % FINER THAN .062 MM
OCT 28...	162	2.5	.13	.30	.43	2.9	.16	3.7	--	24	208	67
DEC 22...	243	3.1	.33	.65	.98	4.1	.29	--	540	7	26	100
JAN 27...	--	--	--	--	--	--	--	24	18000	613	70700	100
FEB 25...	157	2.2	--	--	2.0	4.2	.19	--	310	25	277	75
MAR 29...	189	2.3	.23	.37	.60	2.9	.16	--	6200	17	177	71
APR 29...	205	2.5	--	--	.75	3.3	.27	3.2	7800	--	--	--
MAY 25...	175	2.0	--	--	.70	2.7	.24	--	--	26	136	89
JUN 22...	253	--	--	--	--	--	.31	--	30000	20	141	89
JUL 28...	281	2.0	.55	1.2	1.7	3.7	.29	12	79000	10	19	88
AUG 23...	250	--	--	--	--	--	.29	--	80000	--	--	--
SEP 07...	288	3.1	--	--	1.2	4.3	.45	4.1	34000	11	16	100

DATE	TIME	TOTAL ARSENIC (AS) (UG/L)	SUS- PENDE ARSENIC (AS) (UG/L)	DIS- SOLVED ARSENIC (AS) (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)	SUS- PENDE CHRO- MIUM (CR) (UG/L)	DIS- SOLVED CHRO- MIUM (CR) (UG/L)	TOTAL COBALT (CO) (UG/L)
OCT 28...	1050	2	0	2	0	0	1	<10	0	10	2
JAN 27...	1530	30	29	1	2	1	1	30	20	<10	40
APR 29...	1515	1	1	0	0	0	2	20	10	10	2
JUL 28...	1000	2	0	2	1	0	1	10	0	10	1
SEP 07...	1400	4	3	1	2	1	1	10	0	<10	3

DATE	SUS- PENDE COBALT (CO) (UG/L)	DIS- SOLVED COBALT (CO) (UG/L)	TOTAL COPPER (CU) (UG/L)	SUS- PENDE 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 LEAD (PB) (UG/L)	DIS- SOLVED LEAD (PB) (UG/L)	TOTAL MAN- GANESE (MN) (UG/L)
OCT 28...	2	0	10	10	0	360	40	7	1	6	140
JAN 27...	35	5	100	90	10	21000	190	160	150	7	2900
APR 29...	1	1	0	0	10	340	70	7	5	2	170
JUL 28...	1	0	20	10	10	230	30	14	9	5	130
SEP 07...	2	1	10	0	10	220	20	11	3	8	130

DATE	SUS- PENDE MAN- GANESE (MN) (UG/L)	DIS- SOLVED MAN- GANESE (MN) (UG/L)	TOTAL MERCURY (HG) (UG/L)	SUS- PENDE MERCURY (HG) (UG/L)	DIS- SOLVED MERCURY (HG) (UG/L)	TOTAL SELE- NIUM (SE) (UG/L)	SUS- PENDE SELE- NIUM (SE) (UG/L)	DIS- SOLVED SELE- NIUM (SE) (UG/L)	TOTAL ZINC (ZN) (UG/L)	SUS- PENDE ZINC (ZN) (UG/L)	DIS- SOLVED ZINC (ZN) (UG/L)
OCT 28...	30	110	1.2	.3	.9	1	0	1	50	20	30
JAN 27...	2400	520	<.5	.0	<.5	0	0	0	500	490	10
APR 29...	10	160	<.5	.0	<.5	0	0	0	90	0	110
JUL 28...	130	0	<.5	.0	<.5	0	0	0	40	30	10
SEP 07...	110	20	<.5	.0	<.5	0	0	0	50	40	10

DELAWARE RIVER BASIN

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01474500 SCHUYLKILL RIVER AT PHILADELPHIA, PA--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

DATE	TIME	TOTAL ALDRIN (UG/L)	TOTAL ATRA-ZINE (UG/L)	TOTAL CHLOR-DANE (UG/L)	TOTAL DDD (UG/L)	TOTAL DDE (UG/L)	TOTAL DDT (UG/L)	TOTAL DI-AZINON (UG/L)	TOTAL DI-ELDRIN (UG/L)	TOTAL ENDRIN (UG/L)	TOTAL ETHION (UG/L)	TOTAL HEPTA-CHLOR (UG/L)	
OCT 28...	1050	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
DATE	TIME	TOTAL HEPTA-CHLOR EPOXIDE (UG/L)	TOTAL LINDANE (UG/L)	TOTAL MALA-THION (UG/L)	TOTAL METH-OXY-CHLOR (UG/L)	TOTAL METHYL PARA-THION (UG/L)	TOTAL METHYL TRI-THION (UG/L)	TOTAL PARA-THION (UG/L)	TOTAL TOX-APHENE (UG/L)	TOTAL TRI-THION (UG/L)	TOTAL 2,4-D (UG/L)	TOTAL 2,4,5-T (UG/L)	TOTAL SILVEX (UG/L)
OCT 28...	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
DATE	TIME	CODE FOR AGENCY COL-LECTING SAMPLE	INSTAN-TANEOUS DIS-CHARGE (CFS)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	TEMPER-ATURE (DEG C)	TUR-RID-ITY (JTU)	HARD-NESS (CA,MG) (MG/L)	MINERAL ACIDITY (METHYL ORANGE) AS CAC03 (MG/L)	ACIDITY CO2 AS CAC03 (MG/L)	DIS-SOLVED CAL-CIUM (CA) (MG/L)	DIS-SOLVED MAG-NE-SIUM (MG) (MG/L)	ALKA-LINITY AS CAC03 (MG/L)	
DEC 09...	1030	9813	1810	270	--	3	150	0	0	14	28	82	
FEB 03...	1045	9813	7000	160	2.0	47	96	0	0	--	--	44	
DATE	TIME	DIS-SOLVED SULFATE (SO4) (MG/L)	DIS-SOLVED CHLO-RIDE (CL) (MG/L)	TOTAL FLUO-RIDE (F) (MG/L)	TOTAL FILT-RABLE RESIDUE (MG/L)	TOTAL NON-FILT-RABLE RESIDUE (MG/L)	TOTAL RESI-DUE (MG/L)	TOTAL NITRATE (N) (MG/L)	TOTAL NITRITE (N) (MG/L)	TOTAL AMMONIA NITRO-GEN (N) (MG/L)	TOTAL PHOS-PHORUS (P) (MG/L)	TOTAL ALUM-INUM (AL) (UG/L)	TOTAL CAD-MIUM (CD) (UG/L)
DEC 09...	64	12	.1	214	10	224	3.1	.01	.38	.27	100	<3	
FEB 03...	46	19	.1	170	104	--	2.3	.09	.23	.00	3640	<3	
DATE	TIME	TOTAL CHRO-MIUM (CR) (UG/L)	TOTAL COPPER (CU) (UG/L)	TOTAL IRON (FE) (UG/L)	TOTAL LEAD (PB) (UG/L)	TOTAL MAN-GANESE (MN) (UG/L)	TOTAL NICKEL (NI) (UG/L)	TOTAL ZINC (ZN) (UG/L)	TOTAL ALPHA (PC/L)	TOTAL BETA (PC/L)	PHENOLS (UG/L)	METHY-LENE BLUE ACTIVE SUB-STANCE (MG/L)	
DEC 09...	10	<10	180	<50	170	80	50	<1.0	4.0	<10	.0		
FEB 03...	30	<10	2520	<50	350	10	50	1.0	6.0	--	--		

DELAWARE RIVER BASIN

01474500 SCHUYLKILL RIVER AT PHILADELPHIA, PA--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
Dec 22	0900	CHLOROPHYTA			Depth integrated sampler
		.Chlorophyceae			
		....Ankistrodesmus	33	6
		....Pediastrum	130	25
		CHRYSOPHYTA			
		.Bacillariophyceae			
		....Cyclotella	50	9
		....Melosira	33	6
		....Navicula	150	28
		....Nitzschia	33	6
		CYANOPHYTA			
		.Myxophyceae			
		....Oscillatoria	33	6
		OTHER	78	14	
		TOTAL	540		
Jan 27	1530	CHRYSOPHYTA			Depth integrated sampler
		.Bacillariophyceae			
		....Gomphonema	2,300	13
		....Melosira	1,500	8
		....Navicula	2,700	15
		....Nitzschia	5,700	32
		CYANOPHYTA			
		.Myxophyceae			
		....Lyngbya	2,700	15
		OTHER	3,100	17	
		TOTAL	18,000		
Mar 29	1520	CHRYSOPHYTA			Depth integrated sampler
		.Bacillariophyceae			
		....Asterionella	110	2
		....Cyclotella	1,000	16
		....Navicula	745	12
		....Nitzschia	3,600	58
		CYANOPHYTA			
		.Myxophyceae			
		....Anacystis	745	12
		TOTAL	6,200		
April 29	1515	CHLOROPHYTA			Depth integrated sampler
		.Chlorophyceae			
		....Scenedesmus	750	10
		CHRYSOPHYTA			
		.Bacillariophyceae			
		....Cyclotella	750	10
		....Navicula	910	12
		....Nitzschia	590	7
		CYANOPHYTA			
		.Myxophyceae			
		....Anacystis	2,500	32
		EUGLENOPHYTA			
		.Euglenophyceae			
	Trachelomonas	670	8	
		OTHER	1,630	21	
		TOTAL	7,800		

DELAWARE RIVER BASIN

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01474500 SCHUYLKILL RIVER AT PHILADELPHIA, PA--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 22	1530	CHLOROPHYTA			Depth integrated sampler
		.Chlorophyceae			
		....Actinastrum	2,500	8
		....Micractinium	13,000	44
		....Pediastrum	1,300	4
		....Scenedesmus	6,500	22
		CHRYSOPHYTA			
		.Bacillariophyceae			
		....Melosira	1,900	6
		CYANOPHYTA			
		.Myxophyceae			
		....Anacystis	950	3
July 28	1000	OTHER	3,850	13	Depth integrated sampler
		TOTAL	30,000		
		CHLOROPHYTA			
		.Chlorophyceae			
		....Actinastrum	17,400	22
		....Scenedesmus	17,000	21
		CHRYSOPHYTA			
		.Bacillariophyceae			
		....Cyclotella	4,000	5
		CYANOPHYTA			
		.Myxophyceae			
		....Anacystis	26,000	33
Aug 23	1230	OTHER	14,600	19	Depth integrated sampler
		TOTAL	79,000		
		CHLOROPHYTA			
		.Chlorophyceae			
		....Actinastrum	3,000	4
		....Chlamydomonas	2,600	3
		....Coelastrum	3,800	5
		....Micractinium	10,000	13
		....Scenedesmus	25,000	31
		CHRYSOPHYTA			
		.Bacillariophyceae			
		....Cyclotella	8,000	10
		....Nitzschia	2,200	3
		CYANOPHYTA			
		.Myxophyceae			
		....Anacystis	15,200	19
		OTHER	10,200	12	
		TOTAL	80,000		

DELAWARE RIVER BASIN

01474500 SCHUYLKILL RIVER AT PHILADELPHIA, PA--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 7	1400	CHLOROPHYTA			Depth integrated sampler
		.Chlorophyceae			
		....Chlamydomonas	400	1
		....Gonium	4,100	12
		....Micractinium	680	2
		....Pediastrum	18,000	53
		....Scenedesmus	3,100	9
		....Selenastrum	1,700	5
		CHRYSOPHYTA			
		.Bacillariophyceae			
		....Asterionella	2,300	7
		....Cyclotella	340	1
		....Melosira	600	2
		CYANOPHYTA			
		.Myxophyceae			
		....Anacystis	2,100	6
		EUGLENOPHYTA			
		.Euglenophyceae			
		....Trachelomonas	680	2
		TOTAL	34,000		

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 28	22	13.0	12.0	1.1	0.1	1,100	Polyethylene strip
March 29	22	2.5	1.8	1.7	0.2	360	

01474500 SCHUYLKILL RIVER AT PHILADELPHIA, PA--Continued

SPECIFIC CONDUCTANCE (MICROMHOS/CM AT 25°C), 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	291	275	284	394	376	388	369	348	357	350	246	301
2	307	291	301	393	385	388	368	361	364	275	243	254
3	329	307	317	391	376	383	362	353	358	323	278	301
4	355	331	343	406	385	395	360	335	349	310	300	306
5	373	356	366	406	399	402	372	357	363	321	301	314
6	392	374	387	417	399	407	398	373	387	319	313	316
7	400	389	395	432	418	424	408	396	403	383	320	340
8	405	395	399	468	430	448	401	394	397	398	348	377
9	411	407	410	482	468	474	396	391	393	385	364	375
10	436	410	421	466	456	---	392	387	390	407	365	385
11	442	434	439	---	---	---	396	389	392	431	395	404
12	440	418	430	---	---	---	410	395	403	422	391	404
13	418	405	411	---	---	---	430	405	413	446	412	421
14	416	402	406	---	---	---	447	430	437	462	356	429
15	421	409	417	---	---	---	449	441	444	379	341	357
16	435	421	428	---	---	---	442	425	433	374	308	343
17	445	432	440	287	272	---	427	414	421	339	308	326
18	453	417	435	302	282	294	427	413	420	361	338	348
19	412	225	293	329	304	318	421	418	---	382	364	374
20	260	215	234	344	330	337	---	---	---	409	385	---
21	275	246	259	354	331	344	---	---	---	---	---	---
22	277	265	271	346	330	337	500	470	---	---	---	---
23	284	277	---	351	344	347	488	477	481	---	---	---
24	---	---	---	346	331	338	483	471	478	---	---	---
25	---	---	---	345	336	343	471	464	467	---	---	---
26	---	---	---	354	342	349	532	436	476	---	---	---
27	---	---	---	364	345	354	438	316	351	---	---	---
28	333	329	---	369	360	364	369	331	354	186	174	177
29	347	331	340	367	355	363	345	331	340	220	185	203
30	369	348	---	354	348	351	364	330	344	247	221	231
31	380	369	---	---	---	---	358	333	341	260	247	253
MONTH	453	215	---	482	272	---	532	316	398	---	---	---

DAY	FEBRUARY			MARCH			APRIL			MAY		
	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	285	262	273	446	436	442	---	---	---	491	469	477
2	291	255	275	450	437	442	377	352	---	---	---	---
3	257	246	253	446	435	440	364	346	357	437	421	---
4	301	259	286	463	435	---	350	325	334	426	394	409
5	376	300	334	492	463	478	339	324	332	411	398	405
6	360	346	354	478	473	---	352	339	346	405	399	402
7	370	359	364	---	---	---	376	351	360	446	402	415
8	389	369	377	---	---	---	398	376	388	456	424	440
9	400	380	389	546	491	---	406	398	403	458	446	451
10	393	386	389	599	526	552	405	397	402	473	444	464
11	393	384	---	590	539	562	413	402	408	480	447	465
12	---	---	---	584	549	561	422	408	414	486	455	464
13	527	520	---	589	547	---	449	419	431	467	456	463
14	524	452	484	---	---	---	450	439	445	468	453	461
15	475	453	468	---	---	---	456	444	450	464	453	460
16	499	476	491	434	425	---	467	455	463	491	456	478
17	513	494	505	433	427	---	497	467	486	491	440	456
18	489	471	---	---	---	---	507	496	504	448	427	440
19	407	386	---	---	---	---	504	490	500	423	392	412
20	398	385	393	---	---	---	490	431	465	398	382	392
21	401	393	395	---	---	---	448	439	445	427	393	404
22	413	401	406	450	438	---	---	---	---	435	377	414
23	407	376	390	437	427	432	---	---	---	374	357	363
24	385	376	381	428	418	423	---	---	---	367	359	363
25	419	385	401	433	422	428	---	---	---	365	347	356
26	427	420	423	472	436	456	---	---	---	367	362	365
27	439	421	426	481	472	478	511	488	---	367	362	365
28	436	423	428	483	467	476	489	471	480	378	360	367
29	441	425	436	467	457	---	472	463	469	398	378	388
30	---	---	---	---	---	---	471	462	466	409	400	403
31	---	---	---	---	---	---	---	---	---	404	387	398
MONTH	527	246	388	---	---	---	511	324	---	491	347	419

DELAWARE RIVER BASIN

01474500 SCHUYLKILL RIVER AT PHILADELPHIA, PA--Continued

SPECIFIC CONDUCTANCE (MICROMHOS/CM AT 25°C), WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

DAY	JUNE			JULY			AUGUST			SEPTEMBER		
	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	387	380	384	377	366	373	465	442	454	393	380	384
2	397	360	383	402	384	396	464	421	---	410	378	389
3	383	375	379	398	338	365	---	---	---	436	410	---
4	383	375	378	362	302	335	---	---	---	---	---	---
5	386	377	382	352	310	333	---	---	---	---	---	---
6	386	372	376	359	353	355	407	397	---	---	---	---
7	405	389	399	354	339	346	460	414	445	---	---	---
8	439	401	418	371	340	354	470	454	463	---	---	---
9	446	438	---	376	370	373	482	458	465	---	---	---
10	449	441	---	384	374	379	469	402	440	---	---	---
11	454	437	445	400	349	378	402	378	389	---	---	---
12	448	434	442	376	351	360	406	386	399	---	---	---
13	454	446	450	346	327	334	414	400	407	---	---	---
14	457	451	455	356	349	353	399	390	395	---	---	---
15	482	458	468	359	352	356	398	370	380	---	---	---
16	516	477	489	371	353	365	377	366	371	---	---	---
17	541	507	518	377	365	371	388	359	371	---	---	---
18	513	466	488	382	364	373	373	367	---	---	---	---
19	477	456	465	398	364	386	---	---	---	---	---	---
20	495	462	486	409	398	402	361	347	---	---	---	---
21	509	492	500	406	398	402	373	352	363	395	349	369
22	505	466	483	414	398	406	427	369	386	425	357	396
23	467	402	433	421	406	412	450	381	402	438	375	406
24	419	399	411	430	422	427	420	396	402	429	348	393
25	416	362	386	448	430	438	446	392	409	430	367	398
26	360	344	349	448	437	440	480	400	440	458	0	150
27	350	341	345	468	441	459	496	418	448	445	390	412
28	354	331	346	477	469	474	482	400	422	442	397	418
29	352	342	347	483	469	476	407	380	400	476	416	444
30	376	355	371	467	434	445	415	394	407	479	397	431
31	---	---	---	445	432	436	412	378	390	---	---	---
MONTH	541	331	421	483	302	390	496	347	---	---	---	---

PH (UNITS), 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	---	---	---	8.3	8.1	8.2	7.1	6.6	---	7.4	7.2	7.3
2	---	---	---	8.2	8.0	8.1	7.2	6.8	7.1	7.4	7.3	7.3
3	---	---	---	8.0	7.6	7.8	7.4	6.9	7.2	7.3	7.2	7.3
4	---	---	---	7.7	7.5	7.6	7.6	7.0	7.3	7.5	7.3	7.4
5	---	---	---	8.0	7.4	7.7	7.6	7.3	7.5	7.5	7.1	7.2
6	---	---	---	8.0	7.7	7.8	7.3	7.1	7.2	7.2	7.1	7.2
7	---	---	---	7.8	6.9	7.5	7.7	7.2	7.5	7.2	6.9	7.1
8	---	---	---	---	---	---	7.7	7.6	7.6	7.2	6.9	7.0
9	---	---	---	---	---	---	7.6	6.8	7.3	7.3	7.2	7.3
10	---	---	---	---	---	---	7.3	6.8	7.1	7.3	7.3	7.3
11	---	---	---	---	---	---	7.4	7.3	7.4	7.3	7.0	7.2
12	---	---	---	---	---	---	7.4	7.3	7.3	7.1	7.0	7.1
13	---	---	---	---	---	---	7.3	6.9	7.1	7.1	6.8	7.0
14	---	---	---	---	---	---	6.9	6.8	6.8	7.2	6.6	7.0
15	---	---	---	---	---	---	6.9	6.5	6.7	7.2	7.1	7.2
16	---	---	---	---	---	---	7.3	6.4	7.0	7.2	6.9	7.0
17	---	---	---	---	---	---	7.4	7.2	7.3	7.4	6.9	7.2
18	---	---	---	---	---	---	7.7	7.3	7.5	7.5	7.4	7.5
19	---	---	---	---	---	---	8.0	7.6	---	7.5	7.4	7.5
20	---	---	---	---	---	---	---	---	---	7.5	7.4	---
21	6.9	6.7	---	---	---	---	---	---	---	7.5	7.3	---
22	6.8	6.5	---	---	---	---	7.6	7.4	---	7.7	7.5	7.6
23	---	---	---	---	---	---	7.7	7.4	7.5	7.7	7.6	7.7
24	---	---	---	7.3	7.0	---	7.7	7.6	7.7	7.7	7.5	7.6
25	---	---	---	7.2	7.0	7.1	7.8	7.7	7.8	7.6	7.5	7.5
26	---	---	---	7.1	7.0	---	7.6	6.1	6.8	7.4	6.9	---
27	---	---	---	---	---	---	7.1	6.7	6.9	---	---	---
28	7.3	7.0	---	---	---	---	7.4	7.1	7.3	6.9	6.5	---
29	7.3	6.9	7.2	---	---	---	7.4	7.2	7.3	6.9	6.6	6.8
30	7.7	7.4	---	---	---	---	7.4	7.1	7.3	7.4	6.9	7.2
31	8.2	7.7	---	---	---	---	7.3	7.3	7.3	7.5	7.4	7.5
MONTH	---	---	---	---	---	---	8.0	6.1	7.3	7.7	6.5	7.3

PH (UNITS), WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

FEBRUARY				MARCH			APRIL			MAY		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	7.4	6.5	7.0	7.6	7.4	7.5	---	---	---	7.9	7.4	---
2	7.8	6.7	7.6	7.7	7.5	7.6	7.6	7.5	---	---	---	---
3	7.8	7.6	7.7	7.8	7.6	7.7	7.6	7.4	7.5	7.7	7.4	---
4	7.6	7.3	7.5	7.7	7.3	---	7.7	7.4	7.5	7.6	7.4	7.5
5	7.7	7.2	7.5	7.2	6.1	6.7	7.8	7.6	7.7	7.9	7.3	7.5
6	7.4	7.2	7.3	8.1	6.7	---	7.7	7.6	7.6	7.7	7.2	7.4
7	7.5	7.4	7.4	---	---	---	7.7	7.6	7.7	7.8	7.1	7.4
8	7.5	7.1	7.4	---	---	---	7.7	7.6	7.6	8.1	7.3	7.6
9	7.5	7.4	7.4	7.8	7.6	---	7.7	7.6	7.7	8.1	7.4	7.7
10	7.4	7.3	7.4	7.8	7.6	7.7	7.7	7.5	7.6	8.1	7.3	7.6
11	7.4	7.1	7.3	7.8	7.5	7.7	7.8	7.4	7.6	8.1	7.4	7.6
12	7.5	7.4	7.5	7.8	7.6	7.7	8.0	7.7	7.8	7.7	7.1	7.3
13	7.4	7.0	7.2	7.6	6.8	---	8.7	7.6	8.0	7.6	7.3	---
14	7.5	7.1	7.4	---	---	---	8.5	8.2	8.4	---	---	---
15	7.5	7.0	7.4	---	---	---	8.4	8.0	---	---	---	---
16	6.9	6.8	---	7.7	6.8	---	8.1	7.4	7.8	---	---	---
17	7.2	6.8	---	7.8	7.8	---	7.5	7.1	7.3	8.6	6.9	7.6
18	7.2	6.7	6.9	---	---	---	7.5	7.1	7.3	7.5	6.7	7.1
19	7.4	6.8	---	---	---	---	7.6	7.1	7.3	7.4	7.2	7.3
20	7.8	7.4	7.6	---	---	---	8.6	7.1	7.7	7.5	7.1	7.3
21	7.8	7.5	---	---	---	---	8.3	7.7	7.9	7.3	6.8	7.0
22	7.5	7.1	---	8.2	7.7	---	---	---	---	7.3	7.0	7.2
23	7.8	7.5	7.7	8.3	7.8	8.1	---	---	---	7.3	7.1	7.2
24	7.7	7.6	7.7	8.2	8.0	8.0	---	---	---	7.7	7.1	7.2
25	7.6	7.5	7.5	8.2	7.9	8.0	---	---	---	7.5	7.3	---
26	7.5	7.0	7.3	8.3	7.8	8.1	---	---	---	7.3	7.1	7.2
27	7.5	7.0	7.3	8.1	7.4	7.8	8.4	7.9	---	7.4	6.9	7.2
28	8.0	7.5	7.7	8.2	7.6	7.9	8.1	7.7	7.9	7.8	7.0	7.4
29	7.8	7.4	7.6	8.0	7.8	---	8.0	7.7	7.9	7.8	7.0	7.5
30	---	---	---	---	---	---	8.2	7.7	7.9	7.3	6.7	7.0
31	---	---	---	---	---	---	---	---	---	7.1	6.8	6.9
MONTH	8.0	6.5	7.4	---	---	---	8.7	7.1	---	8.6	6.7	---
JUNE				JULY			AUGUST			SEPTEMBER		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	7.3	6.7	6.9	8.4	7.3	7.7	---	---	---	7.5	7.3	7.4
2	7.2	6.8	7.0	7.6	7.3	7.5	---	---	---	7.4	7.0	7.1
3	7.4	7.1	7.3	7.2	7.2	---	---	---	---	7.0	6.9	---
4	7.7	7.3	7.5	---	---	---	---	---	---	---	---	---
5	7.4	7.1	7.2	7.4	7.2	---	---	---	---	---	---	---
6	7.4	7.0	7.2	7.5	7.2	7.3	---	---	---	---	---	---
7	7.6	7.3	---	7.4	7.1	7.2	---	---	---	---	---	---
8	---	---	---	7.6	7.2	7.4	---	---	---	---	---	---
9	---	---	---	8.3	7.4	7.8	---	---	---	---	---	---
10	---	---	---	8.5	7.6	8.1	---	---	---	---	---	---
11	---	---	---	8.4	7.3	7.6	---	---	---	---	---	---
12	---	---	---	7.5	7.3	7.4	---	---	---	---	---	---
13	---	---	---	7.3	7.3	7.3	---	---	---	8.2	7.8	---
14	---	---	---	7.3	7.2	7.3	---	---	---	8.5	7.7	8.0
15	9.4	9.2	---	7.3	7.2	7.3	---	---	---	8.6	8.2	8.4
16	9.3	8.1	8.7	7.4	7.2	7.2	---	---	---	8.4	7.5	7.9
17	8.2	7.1	7.4	7.7	7.2	7.4	---	---	---	7.6	7.3	7.4
18	7.0	6.8	6.9	8.0	7.4	7.7	---	---	---	7.3	7.2	7.3
19	6.8	6.6	6.7	8.0	7.6	---	---	---	---	7.2	7.1	7.1
20	6.9	6.6	6.8	---	---	---	8.5	7.7	---	7.2	7.1	7.2
21	7.4	6.9	7.1	---	---	---	8.8	8.0	8.4	7.2	7.0	7.2
22	7.3	7.0	7.1	---	---	---	8.9	8.0	8.5	7.4	7.2	7.2
23	7.2	6.9	7.0	---	---	---	8.9	8.4	8.7	7.5	7.3	7.3
24	7.2	6.8	7.0	---	---	---	9.0	8.3	8.7	7.4	7.1	7.2
25	7.0	6.8	6.9	---	---	---	8.9	8.3	8.6	7.3	7.1	7.2
26	7.2	6.8	7.0	9.2	8.8	---	8.8	8.1	8.4	7.1	3.3	5.8
27	8.0	6.9	7.4	9.1	8.3	8.8	8.4	7.6	7.9	7.2	7.0	7.1
28	8.5	7.1	7.8	8.9	7.9	8.5	7.6	7.3	7.4	7.1	7.0	7.1
29	8.5	7.8	8.1	8.8	7.7	8.2	7.8	7.2	7.5	7.2	7.1	7.1
30	8.1	7.5	7.8	---	---	---	7.8	7.3	7.6	7.2	7.1	7.1
31	---	---	---	---	---	---	7.6	7.3	7.4	---	---	---
MONTH	---	---	---	---	---	---	---	---	---	---	---	---

DELAWARE RIVER BASIN

01474500 SCHUYLKILL RIVER AT PHILADELPHIA, PA--Continued

TEMPERATURE (°C) OF WATER, 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	17.0	16.5	17.0	14.0	12.0	13.5	9.0	8.5	8.5	5.0	3.5	4.0
2	18.0	16.0	17.0	13.0	12.0	12.5	8.5	8.0	8.5	4.0	3.5	3.5
3	16.5	15.5	16.0	13.0	12.0	12.5	8.5	8.0	8.0	4.0	3.5	4.0
4	16.0	15.5	15.5	14.0	12.0	13.0	11.0	6.5	8.5	4.0	3.5	4.0
5	16.0	15.0	15.5	14.5	13.5	14.0	6.5	6.0	6.5	3.5	2.0	3.0
6	16.5	15.5	16.0	15.0	14.5	14.5	7.0	6.0	6.5	3.0	2.0	2.0
7	16.5	15.5	16.0	15.5	14.5	15.0	7.0	6.0	6.5	3.0	2.0	2.5
8	17.0	15.5	16.0	17.0	15.5	16.5	6.0	5.5	6.0	3.5	3.0	3.0
9	16.5	16.0	16.5	18.5	16.5	17.5	6.0	5.5	5.5	3.0	1.5	2.5
10	16.0	16.0	16.0	19.5	18.0	19.0	6.0	5.5	5.5	3.0	1.5	2.0
11	16.0	16.0	16.0	19.0	17.0	18.0	5.5	5.0	5.5	2.0	1.5	2.0
12	16.0	15.5	15.5	17.0	16.0	---	6.0	5.5	6.0	3.0	2.0	2.5
13	16.0	14.5	15.0	---	---	---	6.5	6.0	6.5	4.5	2.0	3.5
14	16.5	15.0	15.5	---	---	---	7.0	6.5	7.0	5.0	3.0	4.5
15	18.0	16.0	16.5	---	---	---	8.5	6.5	7.5	3.5	2.0	3.0
16	18.5	17.0	17.5	---	---	---	8.5	8.5	8.5	3.5	3.0	3.0
17	18.0	17.0	17.0	9.0	8.5	---	8.5	7.0	8.0	3.5	3.0	3.0
18	18.0	17.0	17.5	10.0	9.0	9.5	8.0	6.0	7.5	2.0	1.5	1.5
19	17.0	15.0	16.0	10.5	9.5	10.0	6.5	5.5	6.0	1.5	1.0	1.0
20	15.0	14.5	14.5	11.0	10.0	10.5	6.0	5.5	6.0	1.0	1.0	---
21	14.5	14.0	14.5	11.5	11.0	11.5	6.0	5.5	5.5	2.0	1.5	---
22	15.5	14.0	15.0	11.5	10.5	11.0	5.0	3.0	4.0	2.0	1.0	2.0
23	16.0	14.5	15.5	10.5	9.5	10.0	3.5	3.0	3.0	1.5	1.0	1.0
24	16.0	15.5	16.0	9.0	8.5	9.0	3.0	2.0	2.5	1.5	1.0	1.0
25	17.0	16.0	16.5	9.5	8.5	9.0	2.0	1.5	2.0	2.0	1.0	1.5
26	16.5	16.0	16.5	9.0	8.5	8.5	3.5	2.0	3.0	4.5	2.0	3.0
27	16.0	15.5	15.5	9.5	8.5	9.0	3.5	1.5	2.5	4.5	3.0	---
28	15.5	15.0	15.5	9.0	8.0	8.5	3.0	2.0	2.5	5.0	3.0	3.5
29	16.0	15.5	16.0	8.0	7.0	7.5	3.0	2.0	2.5	4.0	3.0	3.5
30	16.0	15.5	---	8.5	7.0	8.0	3.5	2.0	3.0	4.0	3.5	4.0
31	15.5	13.5	---	---	---	---	5.0	4.0	4.5	4.5	4.0	4.0
MONTH	18.5	13.5	16.0	19.5	7.0	12.0	11.0	1.5	5.5	5.0	1.0	3.0
DAY	FEBRUARY			MARCH			APRIL			MAY		
	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	4.5	4.0	4.0	10.5	9.5	10.0	13.5	11.0	---	16.0	15.0	15.5
2	4.5	3.0	3.5	10.0	10.0	10.0	11.0	10.0	10.5	---	---	---
3	3.0	2.0	2.0	10.0	9.5	9.5	10.5	9.5	10.0	16.0	15.0	---
4	3.0	2.0	2.5	9.5	9.0	9.5	10.0	9.5	10.0	15.5	14.5	15.0
5	3.5	3.0	3.0	11.0	9.0	10.0	10.0	9.0	9.5	16.0	14.0	15.0
6	3.0	2.0	2.5	10.5	10.0	10.5	10.5	9.0	10.0	17.0	14.5	16.0
7	3.0	1.5	2.0	11.0	10.0	10.5	11.5	10.0	10.5	19.0	16.5	17.5
8	3.5	1.5	2.5	10.0	9.0	9.5	11.5	11.0	11.0	18.5	16.5	18.0
9	4.0	3.0	3.0	9.5	6.0	7.5	12.0	11.0	11.5	19.0	17.0	18.5
10	4.5	3.0	3.5	7.0	6.5	6.5	12.0	10.5	11.0	19.0	18.0	18.5
11	4.5	3.5	4.0	8.0	6.0	7.0	11.5	10.5	11.0	19.0	18.5	18.5
12	5.5	4.5	5.0	7.0	6.5	6.5	11.0	10.0	10.5	19.0	18.5	18.5
13	5.5	4.5	5.0	8.5	7.0	7.5	11.0	9.5	10.5	19.5	18.0	19.0
14	6.0	5.5	5.5	7.0	6.0	6.5	12.0	10.0	11.0	20.0	18.5	19.5
15	6.0	5.5	5.5	8.5	7.0	8.0	13.5	11.0	12.5	21.5	20.0	20.5
16	7.0	5.5	6.5	8.5	6.5	7.5	15.5	13.0	14.5	21.5	21.5	21.5
17	8.5	6.5	7.5	7.0	6.0	6.5	18.0	15.0	16.5	22.0	21.0	21.5
18	9.0	8.0	8.5	6.5	5.5	5.5	19.5	16.5	18.0	23.5	21.0	22.5
19	8.5	7.0	8.0	8.0	5.5	6.5	21.0	18.5	19.5	20.5	18.0	19.5
20	8.0	6.5	7.0	9.5	7.0	8.5	21.0	20.0	20.5	18.5	17.0	18.0
21	8.5	6.5	7.5	11.5	9.0	10.5	20.5	19.0	19.5	19.0	16.5	17.5
22	8.5	8.0	8.5	11.5	10.5	11.0	18.5	18.0	18.5	20.0	17.0	18.5
23	8.0	6.5	7.5	12.0	10.0	11.0	18.0	16.0	17.0	20.5	18.5	19.5
24	7.0	6.0	6.5	12.0	10.0	11.0	16.0	15.0	---	20.0	18.5	19.0
25	8.0	6.5	7.0	12.0	10.5	11.0	---	---	---	19.0	18.5	18.5
26	8.5	7.0	7.5	13.5	11.0	12.0	---	---	---	19.0	18.0	18.5
27	9.0	8.0	8.5	14.0	11.5	13.0	15.5	14.5	---	19.5	17.0	18.5
28	9.5	9.0	9.5	14.5	13.0	13.5	14.5	13.0	14.0	20.0	18.5	19.5
29	10.5	9.0	9.5	13.5	13.0	---	15.0	14.0	14.5	20.0	19.0	19.5
30	---	---	---	---	---	---	16.0	14.0	15.0	20.0	19.5	19.5
31	---	---	---	---	---	---	---	---	---	21.0	20.0	20.5
MONTH	10.5	1.5	5.5	14.5	5.5	9.0	21.0	9.0	13.5	23.5	14.0	18.5

DELAWARE RIVER BASIN

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01474500 SCHUYLKILL RIVER AT PHILADELPHIA, PA--Continued

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

DAY	JUNE			JULY			AUGUST			SEPTEMBER		
	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	22.0	20.5	21.0	28.0	26.5	27.5	27.0	26.0	27.0	25.0	24.0	24.5
2	21.5	20.0	20.5	27.0	25.0	26.5	26.0	25.0	---	24.5	23.5	24.0
3	21.0	19.5	20.5	25.5	24.5	25.0	---	---	---	23.5	23.0	---
4	21.0	19.5	20.5	25.0	23.0	24.0	---	---	---	---	---	---
5	21.0	19.5	20.5	25.0	22.0	24.0	---	---	---	---	---	---
6	20.5	19.5	20.0	25.5	24.0	25.0	26.0	25.5	---	---	---	---
7	21.5	19.5	20.5	25.0	24.0	24.5	26.0	25.5	26.0	---	---	---
8	22.0	21.0	21.5	25.0	24.5	25.0	26.0	25.5	25.5	---	---	---
9	24.5	21.5	---	26.5	25.0	26.0	25.5	24.5	25.0	---	---	---
10	25.5	25.0	---	26.5	25.5	26.0	24.5	23.5	24.0	---	---	---
11	26.5	24.5	26.0	26.5	25.0	25.5	24.5	22.0	23.5	---	---	---
12	28.0	25.5	26.5	25.5	25.0	25.5	25.5	23.0	24.5	---	---	---
13	26.0	24.5	25.5	24.5	23.5	24.0	26.5	24.5	25.5	24.0	23.5	---
14	24.5	24.0	24.0	23.5	23.0	23.5	27.0	25.5	26.0	24.5	23.0	23.5
15	25.5	23.5	24.5	24.0	22.0	23.0	28.0	26.0	26.5	24.0	23.5	24.0
16	25.5	24.5	25.0	24.0	23.5	24.0	26.5	25.5	26.0	23.5	23.0	23.5
17	25.5	25.0	25.0	25.5	23.5	24.5	25.5	24.5	25.0	24.0	23.0	23.5
18	26.5	25.5	26.0	25.5	24.0	24.5	24.5	24.0	---	24.5	23.0	24.0
19	27.0	25.5	26.0	26.0	24.5	25.5	---	---	---	23.0	22.0	22.5
20	27.0	26.0	26.5	26.5	25.0	26.0	25.5	24.5	---	23.0	21.0	22.0
21	26.5	26.0	26.5	26.0	25.0	25.5	26.5	25.0	25.5	22.0	21.5	21.5
22	26.5	25.5	26.0	26.0	25.0	25.5	27.0	25.5	26.5	21.5	20.5	21.0
23	27.0	25.5	26.5	25.0	24.5	25.0	28.0	26.5	27.0	21.0	20.0	20.5
24	26.5	25.0	26.0	26.5	25.0	26.0	28.5	26.5	27.5	21.0	20.5	20.5
25	27.0	25.0	26.0	26.0	25.5	25.5	28.5	26.5	27.5	21.0	20.0	20.5
26	28.0	25.5	26.5	26.0	24.5	25.5	29.0	28.0	28.5	---	---	---
27	28.0	26.0	26.5	26.5	25.0	26.0	29.5	27.0	28.0	21.5	20.5	21.0
28	28.5	26.0	27.5	26.0	25.0	26.0	29.0	27.0	28.0	20.5	20.5	20.5
29	28.0	27.0	27.5	26.5	26.0	26.0	29.0	28.0	28.5	20.5	19.5	20.0
30	28.0	28.0	28.0	27.0	25.0	26.0	28.0	26.0	26.5	20.5	19.0	19.5
31	---	---	---	28.5	26.0	27.0	25.5	24.5	25.5	---	---	---
MONTH	28.5	19.5	24.5	28.5	22.0	25.5	29.0	22.0	---	---	---	---

DISSOLVED OXYGEN (DO), MG/L, 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	9.7	8.6	9.2	---	---	---	12.2	11.8	---	17.4	16.0	16.7
2	8.6	8.1	8.4	---	---	---	---	---	---	17.3	16.9	---
3	9.7	8.1	8.6	---	---	---	---	---	---	---	---	---
4	8.9	8.2	8.5	9.6	8.7	---	12.5	12.3	---	---	---	---
5	9.0	8.3	8.6	10.1	9.5	9.8	12.7	12.3	12.5	15.1	14.5	---
6	9.4	8.1	8.8	9.8	9.6	---	12.4	11.5	11.8	15.2	15.0	15.1
7	9.3	9.0	9.2	---	---	---	11.8	11.3	11.5	15.0	14.5	14.8
8	9.4	9.0	9.2	10.8	10.2	---	12.2	11.4	11.8	14.6	14.4	14.5
9	9.2	8.8	9.0	10.8	10.5	10.6	13.1	12.3	12.7	15.0	14.5	14.7
10	9.2	8.8	9.0	10.5	10.3	---	13.0	12.6	12.8	15.1	14.8	14.9
11	9.1	9.0	9.1	---	---	---	13.2	12.5	12.8	15.0	14.5	14.8
12	9.3	8.9	9.1	---	---	---	13.1	12.6	12.8	14.6	14.4	14.5
13	9.8	9.2	9.5	---	---	---	12.9	12.3	12.5	14.5	13.7	14.2
14	9.7	9.2	9.4	---	---	---	12.7	12.2	12.4	13.6	12.4	13.1
15	9.2	8.6	8.9	---	---	---	12.5	12.1	12.3	13.5	13.2	13.3
16	9.0	8.3	8.6	---	---	---	12.4	11.5	11.9	13.2	12.9	13.1
17	8.9	8.2	8.5	13.4	13.2	---	12.4	11.7	12.1	12.9	12.4	12.7
18	8.8	8.2	8.4	13.4	13.2	13.3	12.5	11.6	12.0	13.2	12.7	13.0
19	9.1	8.5	8.8	13.2	12.8	13.0	12.2	12.0	---	14.3	13.2	13.8
20	8.9	8.8	8.9	12.7	12.2	12.5	11.5	11.3	---	14.1	13.0	13.5
21	9.3	8.9	9.1	12.3	11.8	12.0	11.3	11.2	11.3	13.9	13.4	---
22	9.2	8.2	8.7	12.1	11.6	11.8	11.3	8.7	---	13.4	13.0	13.2
23	8.3	8.2	---	12.7	12.1	12.4	10.0	9.3	9.6	13.7	13.1	13.5
24	9.1	8.9	9.1	12.5	12.1	12.2	10.2	9.6	9.8	13.7	13.4	13.5
25	8.9	8.4	8.7	12.1	12.0	12.1	10.2	9.8	9.9	13.7	13.1	13.4
26	8.4	8.1	8.3	12.2	12.1	12.1	9.7	9.4	9.5	13.6	12.8	13.1
27	9.1	8.2	---	12.2	11.9	12.0	9.9	9.5	---	12.8	12.2	---
28	8.8	8.6	8.6	12.4	11.9	12.2	---	---	---	---	---	---
29	8.6	8.4	8.5	12.7	12.4	12.6	---	---	---	---	---	---
30	8.4	8.3	---	12.5	12.1	12.4	17.0	16.7	---	14.0	13.6	---
31	---	---	---	---	---	---	16.6	16.0	16.5	13.9	13.7	13.8
MONTH	9.8	8.1	8.8	---	---	---	17.0	8.7	---	17.4	12.2	---

DELAWARE RIVER BASIN

01474500 SCHUYLKILL RIVER AT PHILADELPHIA, PA--Continued

DISSOLVED OXYGEN (DO), MG/L, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

FEBRUARY				MARCH			APRIL			MAY		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	13.9	13.0	13.5	10.7	10.4	10.6	10.0	9.7	---	8.3	6.5	7.2
2	14.0	12.4	13.2	10.6	9.9	10.3	10.0	9.5	9.8	---	---	---
3	14.2	14.0	14.1	10.7	10.0	10.4	9.7	9.2	---	9.0	8.5	---
4	14.5	14.0	14.2	10.9	9.4	10.6	---	---	---	9.2	8.2	8.6
5	14.4	13.9	14.1	10.4	8.6	9.6	---	---	---	9.3	8.4	8.8
6	14.0	13.9	14.0	8.6	8.1	8.5	---	---	---	8.9	8.0	8.4
7	14.2	14.0	14.1	---	---	---	---	---	---	8.6	7.1	7.8
8	14.1	13.8	13.9	---	---	---	---	---	---	8.5	6.7	7.5
9	14.0	13.8	13.8	11.2	10.8	---	---	---	---	8.3	6.7	7.5
10	14.0	13.3	13.7	11.6	10.6	11.0	---	---	---	---	---	---
11	13.3	13.0	13.1	11.4	11.1	11.3	---	---	---	8.2	7.5	---
12	13.2	13.0	13.1	11.2	10.8	11.0	---	---	---	---	---	---
13	13.5	12.8	13.1	10.8	10.2	---	11.2	10.6	---	---	---	---
14	13.4	13.0	13.2	---	---	---	10.6	9.7	10.2	---	---	---
15	13.2	12.8	13.1	---	---	---	10.4	9.1	9.9	---	---	---
16	12.7	12.4	12.5	11.4	10.9	---	---	---	---	---	---	---
17	12.3	11.7	12.0	11.4	10.9	---	9.2	7.5	8.6	---	---	---
18	11.9	10.9	---	---	---	---	---	---	---	8.7	7.1	---
19	12.0	11.9	---	---	---	---	---	---	---	---	---	---
20	12.1	12.0	12.1	---	---	---	9.3	7.7	---	---	---	---
21	12.2	11.7	12.0	---	---	---	8.9	6.7	7.7	---	---	---
22	11.7	11.1	11.3	11.0	9.9	---	9.1	9.0	9.0	---	---	---
23	12.1	10.9	11.6	11.1	10.1	10.6	9.5	9.1	9.2	---	---	---
24	12.2	12.1	12.1	10.8	10.2	10.5	9.8	9.5	---	---	---	---
25	12.1	11.7	11.9	10.7	9.8	10.3	---	---	---	8.2	7.7	---
26	11.9	11.4	11.7	10.6	9.1	10.0	---	---	---	8.1	7.3	7.7
27	11.6	10.6	11.3	9.9	9.0	9.3	9.6	8.7	---	8.3	7.4	7.8
28	11.2	10.8	11.0	9.6	8.2	8.8	9.9	8.8	9.3	8.8	7.4	8.1
29	10.9	10.7	10.8	8.6	8.0	---	9.4	8.6	9.0	8.6	7.4	8.0
30	---	---	---	---	---	---	8.7	7.9	8.4	7.6	6.7	7.2
31	---	---	---	---	---	---	---	---	---	7.7	6.6	7.1
MONTH	14.5	10.6	12.8	---	---	---	---	---	---	---	---	---
JUNE				JULY			AUGUST			SEPTEMBER		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	7.8	6.5	7.1	---	---	---	---	---	---	---	---	---
2	7.2	6.1	6.8	---	---	---	---	---	---	---	---	---
3	8.0	7.1	7.6	---	---	---	---	---	---	---	---	---
4	8.1	7.3	7.7	---	---	---	---	---	---	---	---	---
5	7.5	6.8	7.2	---	---	---	---	---	---	---	---	---
6	7.5	6.6	7.1	---	---	---	9.4	8.1	---	---	---	---
7	9.1	6.8	7.8	---	---	---	8.4	8.4	---	---	---	---
8	8.7	7.2	---	---	---	---	---	---	---	---	---	---
9	---	---	---	---	---	---	---	---	---	---	---	---
10	---	---	---	---	---	---	---	---	---	---	---	---
11	---	---	---	---	---	---	---	---	---	---	---	---
12	---	---	---	---	---	---	---	---	---	---	---	---
13	---	---	---	---	---	---	---	---	---	11.3	9.5	---
14	---	---	---	---	---	---	---	---	---	10.8	8.1	---
15	---	---	---	---	---	---	---	---	---	---	---	---
16	---	---	---	---	---	---	---	---	---	---	---	---
17	---	---	---	---	---	---	---	---	---	---	---	---
18	---	---	---	---	---	---	---	---	---	---	---	---
19	---	---	---	---	---	---	---	---	---	---	---	---
20	---	---	---	---	---	---	---	---	---	---	---	---
21	---	---	---	---	---	---	---	---	---	7.7	7.2	7.5
22	---	---	---	---	---	---	---	---	---	8.3	6.6	7.4
23	---	---	---	---	---	---	10.7	8.6	---	8.8	7.5	8.1
24	---	---	---	---	---	---	8.7	7.1	---	8.3	4.0	6.4
25	---	---	---	---	---	---	---	---	---	5.8	3.8	5.3
26	---	---	---	---	---	---	---	---	---	4.6	.1	2.7
27	---	---	---	---	---	---	6.4	3.6	---	1.9	.1	.7
28	10.7	9.8	---	---	---	---	---	---	---	2.6	1.7	2.2
29	---	---	---	---	---	---	---	---	---	3.6	2.4	3.1
30	---	---	---	---	---	---	---	---	---	3.3	3.0	3.1
31	---	---	---	---	---	---	---	---	---	---	---	---
MONTH	---	---	---	---	---	---	---	---	---	---	---	---

LOCATION.--Lat 39°52'45", long 75°12'11", Philadelphia County, Hydrologic Unit 02040202, water-quality recorder on right bank at outer end of L-shaped pier at Fort Mifflin, 0.4 mi (0.6 km) downstream from mouth of Schuylkill River, in Philadelphia.

PERIOD OF RECORD.--July 1970 to current year.

PERIOD OF DAILY RECORD.--

WATER TEMPERATURES: June 1972 to current year.

EXTREMES FOR PERIOD OF DAILY RECORD.--

WATER TEMPERATURES: Maximum, 31.0°C Aug. 4-6, 13, 1975; minimum, 1.5°C Jan. 21, Feb. 14, 15, 1975.

[illegible]

DELAWARE RIVER BASIN

01474703 DELAWARE RIVER AT FORT MIFFLIN AT PHILADELPHIA, PA--Continued

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

FEBRUARY				MARCH			APRIL			MAY		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	---	---	---	4.0	3.0	3.5	---	---	---	18.5	18.5	18.5
2	---	---	---	4.5	3.0	4.0	---	---	---	19.0	18.5	18.5
3	---	---	---	5.0	4.0	---	---	---	---	19.0	19.0	19.0
4	---	---	---	---	---	---	---	---	---	19.0	19.0	19.0
5	---	---	---	6.0	5.0	---	9.5	9.0	---	19.0	18.5	19.0
6	---	---	---	6.0	5.0	6.0	9.0	8.5	9.0	19.0	18.5	19.0
7	---	---	---	6.0	5.0	5.5	9.0	9.0	9.0	19.0	19.0	19.0
8	---	---	---	5.0	4.5	---	9.5	8.5	9.0	19.0	19.0	19.0
9	---	---	---	---	---	---	9.0	8.5	8.5	19.5	19.0	19.0
10	---	---	---	---	---	---	9.0	8.0	8.5	19.5	19.0	19.0
11	---	---	---	---	---	---	9.0	8.5	8.5	20.0	19.5	19.5
12	---	---	---	---	---	---	8.5	8.0	8.5	20.0	20.0	20.0
13	---	---	---	---	---	---	9.0	8.0	8.0	20.5	20.0	20.0
14	---	---	---	---	---	---	9.5	8.5	9.0	21.0	20.5	20.5
15	---	---	---	---	---	---	10.0	9.0	9.5	21.5	21.0	21.0
16	---	---	---	---	---	---	11.0	10.0	10.5	22.0	21.5	21.5
17	---	---	---	---	---	---	12.0	11.0	11.5	23.0	22.0	22.5
18	---	---	---	---	---	---	13.0	11.5	12.0	23.5	23.0	23.0
19	3.0	0.5	1.5	---	---	---	14.0	13.0	13.5	23.5	23.0	23.0
20	3.0	1.5	2.5	---	---	---	15.0	14.0	14.5	23.0	23.0	23.0
21	3.0	2.0	2.0	---	---	---	16.5	15.0	15.5	23.0	23.0	23.0
22	3.0	2.0	2.5	---	---	---	18.0	16.5	17.0	23.0	23.0	23.0
23	3.0	2.0	3.0	---	---	---	18.0	18.0	18.0	23.5	23.0	23.0
24	3.0	1.5	2.5	---	---	---	18.5	18.0	18.5	23.5	23.0	23.5
25	2.0	1.5	2.0	---	---	---	19.0	18.5	19.0	---	---	---
26	2.0	1.5	1.5	---	---	---	19.0	19.0	19.0	---	---	---
27	3.0	1.5	2.0	---	---	---	19.0	18.5	18.5	---	---	---
28	3.0	2.0	2.5	---	---	---	18.5	18.0	18.0	---	---	---
29	3.0	2.0	2.5	---	---	---	18.0	18.0	18.0	---	---	---
30	---	---	---	---	---	---	18.5	18.0	18.0	---	---	---
31	---	---	---	---	---	---	---	---	---	---	---	---
MONTH	---	---	---	---	---	---	19.0	8.0	13.0	---	---	---

JUNE				JULY			AUGUST			SEPTEMBER		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	24.0	24.0	---									
2	24.0	24.0	24.0									
3	24.5	24.0	24.0									
4	24.5	24.5	24.5									
5	25.0	24.5	24.5									
6	25.0	24.5	25.0									
7	25.0	25.0	25.0									
8	25.5	25.0	25.0									
9	25.5	25.0	25.5									
10	26.0	25.5	26.0									
11	26.5	26.0	26.5									
12	27.0	26.5	27.0									
13	28.0	27.0	28.0									
14	28.0	28.0	---									
15	---	---	---									
16	---	---	---									
17	---	---	---									
18	---	---	---									
19	---	---	---									
20	---	---	---									
21	---	---	---									
22	---	---	---									
23	---	---	---									
24	---	---	---									
25	---	---	---									
26	---	---	---									
27	---	---	---									
28	---	---	---									
29	---	---	---									
30	---	---	---									
31	---	---	---									
MONTH	---	---	---									

DELAWARE RIVER BASIN

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01475300 DARBY CREEK AT WATERLOO MILLS NEAR DEVON, PA

LOCATION.--Lat 40°01'21", long 75°25'20", Chester County, Hydrologic Unit 02040202, on left bank 125 ft (38 m) upstream from bridge on Waterloo Road, 2 mi (3.2 km) south of Devon, and 2.5 mi (4.0 km) northwest of Newtown Square.

DRAINAGE AREA.--5.15 mi² (13.3 km²).

WATER-DISCHARGE RECORDS

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

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

REMARKS.--Records good.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge 985 ft³/s (27.9 m³/s) June 22, 1972, gage height, 5.49 ft (1.673 m); minimum, 1.0 ft³/s (0.028 m³/s) Nov. 9, 1974, gage height, 1.36 ft (0.415 m).

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 200 ft³/s (5.66 m³/s) Jan. 27, gage height, 3.35 ft (1.021 m); minimum, 2.1 ft³/s (0.059 m³/s) Aug. 4, 5, 6; minimum gage height, 1.42 ft (0.433 m) Sept. 9, 12, 13, 14, 15.

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	9.8	9.1	10	45	15	9.7	35	32	7.4	4.8	2.6	2.8
2	9.5	9.1	9.1	13	25	9.5	11	13	14	3.6	2.4	8.4
3	9.5	8.8	8.8	19	13	9.6	8.8	8.7	6.8	5.3	2.3	4.4
4	9.1	8.8	8.4	13	12	10	9.5	8.0	5.8	5.2	2.2	3.1
5	9.1	8.4	8.4	11	12	11	8.4	7.4	5.3	3.9	2.1	3.0
6	8.8	8.4	8.4	10	11	10	8.1	7.0	5.2	3.6	4.9	2.6
7	8.4	8.4	8.1	14	11	9.2	7.8	6.8	5.2	3.9	5.4	2.8
8	8.4	11	8.1	21	11	8.8	7.5	6.5	4.9	4.0	6.2	2.4
9	9.8	8.4	8.4	11	10	9.7	7.5	6.4	4.8	3.7	18	2.3
10	8.8	11	9.1	9.8	11	11	7.1	6.3	4.6	3.2	17	3.3
11	12	9.5	8.1	10	16	15	7.1	6.6	4.4	21	4.2	2.4
12	11	31	7.8	10	12	12	6.8	11	4.1	5.3	4.4	2.3
13	8.8	32	8.1	13	12	21	6.8	6.7	4.0	3.9	4.4	2.3
14	8.4	13	7.8	21	12	11	6.8	6.6	4.2	3.6	8.1	2.3
15	8.1	11	6.8	11	11	8.8	6.8	6.3	4.4	3.4	5.7	2.3
16	8.1	10	6.8	11	12	13	6.8	9.7	4.1	3.5	4.6	11
17	11	9.8	9.5	10	13	9.8	6.5	7.1	11	3.2	3.7	6.2
18	16	9.5	7.5	8.8	14	8.4	6.5	13	6.9	2.9	3.5	3.5
19	40	9.5	6.8	8.4	14	8.4	7.8	11	5.7	2.8	3.3	3.0
20	16	9.5	7.1	9.1	11	7.8	7.8	7.2	6.2	2.7	3.3	3.0
21	11	22	7.5	9.1	10	8.4	7.5	7.6	7.5	2.9	3.1	3.0
22	10	12	7.5	9.1	22	7.8	9.8	6.3	6.5	3.0	3.0	3.0
23	9.8	10	7.1	8.8	13	7.5	6.8	5.9	4.9	3.0	3.1	2.8
24	9.5	9.8	6.8	8.8	11	7.5	6.5	6.0	4.4	3.4	3.1	2.4
25	12	9.5	6.8	8.4	11	7.5	6.8	5.9	4.0	2.6	2.8	2.6
26	10	9.5	45	18	11	7.5	9.1	5.8	3.8	2.5	2.8	4.6
27	9.5	9.8	12	63	10	7.5	6.5	5.6	6.4	2.4	6.2	4.4
28	9.5	9.1	9.5	28	10	8.1	6.2	5.3	5.1	2.3	3.7	3.5
29	9.5	8.8	8.8	15	9.8	7.8	5.9	5.5	4.4	6.9	3.1	3.1
30	9.5	8.8	12	13	---	7.1	5.7	8.1	5.0	6.1	2.8	8.4
31	9.1	---	19	12	---	7.1	---	6.2	---	3.0	2.8	---
TOTAL	340.0	345.5	305.1	472.3	365.8	297.5	251.2	255.5	171.0	131.6	144.8	111.2
MEAN	11.0	11.5	9.84	15.2	12.6	9.60	8.37	8.24	5.70	4.25	4.67	3.71
MAX	40	32	45	63	25	21	35	32	14	21	18	11
MIN	8.1	8.4	6.8	8.4	9.8	7.1	5.7	5.3	3.8	2.3	2.1	2.3
CFSM	2.14	2.23	1.91	2.95	2.45	1.86	1.63	1.60	1.11	.83	.91	.72
IN.	2.46	2.50	2.20	3.41	2.64	2.15	1.81	1.85	1.23	.95	1.05	.80

CAL YR 1975 TOTAL 4363.9 MEAN 12.0 MAX 147 MIN 3.5 CFSM 2.33 IN 31.52
WTR YR 1976 TOTAL 3191.5 MEAN 8.72 MAX 63 MIN 2.1 CFSM 1.69 IN 23.05

DELAWARE RIVER BASIN

01475300 DARBY CREEK AT WATERLOO MILLS NEAR DEVON, PA--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--February 1970 to current year.

WATER QUALITY DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

DATE	TIME	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)	TEMPERATURE (DEG C)	DIS-SOLVED OXYGEN (MG/L)	HARDNESS (CA, MG)	NON-CARBONATE HARDNESS (MG/L)	DIS-SOLVED CALCIUM (CA) (MG/L)	DIS-SOLVED MAGNESIUM (MG)	DIS-SOLVED SODIUM (NA) (MG/L)	DIS-SOLVED POTASSIUM (K) (MG/L)	BICARBONATE (HCO3) (MG/L)
NOV 07...	1430	220	7.7	15.5	10.4	81	27	19	8.1	11	2.4	65

DATE	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)	DIS-SOLVED SILICA (SiO2) (MG/L)	DIS-SOLVED SOLIDS (RESIDUE AT 180 C) (MG/L)	DIS-SOLVED SOLIDS (SUM OF CONSTITUENTS) (MG/L)	TOTAL NITRATE (N) (MG/L)	TOTAL AMMONIA NITROGEN (N) (MG/L)	TOTAL ORGANIC NITROGEN (N) (MG/L)	TOTAL KJELDAHL NITROGEN (N) (MG/L)
NOV 07...	0	53	2.1	18	17	14	144	122	2.5	.01	.72	.73

DATE	TOTAL PHOSPHORUS (P) (MG/L)	TOTAL ORTHO PHOSPHORUS (P) (MG/L)	DIS-SOLVED CADMIUM (CD) (UG/L)	DIS-SOLVED CHROMIUM (CR) (UG/L)	DIS-SOLVED COBALT (CO) (UG/L)	DIS-SOLVED COPPER (CU) (UG/L)	DIS-SOLVED IRON (FF) (UG/L)	DIS-SOLVED LEAD (PB) (UG/L)	DIS-SOLVED MANGANESE (MN) (UG/L)	DIS-SOLVED NICKEL (NI) (UG/L)	DIS-SOLVED ZINC (ZN) (UG/L)
NOV 07...	.23	.20	1	0	0	0	90	1	20	2	20

DELAWARE RIVER BASIN

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01475510 DARBY CREEK NEAR DARBY, PA

LOCATION.--Lat 39°55'44", long 75°16'22", Delaware County, Hydrologic Unit 02040202, on right bank 30 ft (9 m) upstream from Providence Road Bridge, 1.1 mi (1.8 km) northwest of Upper Darby, 2.3 mi (3.7 km) upstream from Cobbs Creek, and 8.4 mi (13.5 km) upstream from mouth.

DRAINAGE AREA.--37.4 mi² (96.9 km²).

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

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

REMARKS.--Records good.

AVERAGE DISCHARGE.--12 years, 70.1 ft³/s (1.99 m³/s), 25.46 in/yr (647 mm/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 5,920 ft³/s (168 m³/s) Aug. 23, 1974, gage height, 10.23 ft (3.118 m), from rating curve extended above 920 ft³/s (26 m³/s) on basis of step-backwater analysis; minimum, 8.8 ft³/s (0.25 m³/s) Sept. 2, 1966, gage height, 1.16 ft (0.354 m).

EXTREMES FOR CURRENT YEAR.--Peak discharges above base of 800 ft³/s (22.7 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)
Nov. 12	2245	894	25.3	3.92	1.195	May 1	2030	*1,660	47.0	*5.49	1.673
Dec. 26	1045	826	23.4	3.77	1.149	June 1	2145	808	22.9	3.73	1.137
Jan. 27	2100	894	25.3	3.92	1.195	July 11	1045	975	27.6	4.10	1.250

Minimum discharge, 16 ft³/s (0.45 m³/s) Sept. 25; minimum gage height, 1.27 ft (0.387 m) Sept. 13, 14, 15.

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	48	44	59	333	120	63	249	358	94	49	30	19
2	47	44	53	90	200	63	79	145	155	30	25	29
3	44	43	51	139	84	65	68	66	50	35	23	35
4	44	43	50	94	83	70	74	58	42	61	23	22
5	43	43	50	70	90	75	64	54	39	50	21	21
6	43	43	50	66	120	70	61	53	38	31	21	20
7	41	42	50	139	79	65	59	63	38	43	35	20
8	41	68	48	139	78	62	63	53	37	61	60	19
9	49	44	51	74	70	62	56	50	39	36	124	18
10	49	83	53	72	85	75	56	48	38	29	175	25
11	69	58	48	66	150	92	54	66	37	226	32	21
12	66	244	48	70	85	86	53	105	35	46	28	20
13	44	279	47	103	78	163	53	51	35	34	27	18
14	42	83	47	122	75	69	53	50	35	31	106	18
15	40	64	48	68	72	64	51	48	36	30	60	18
16	40	59	45	66	74	92	50	56	35	30	33	124
17	79	58	45	64	86	75	50	53	59	30	27	53
18	148	56	44	62	100	61	50	139	38	29	25	24
19	225	54	41	62	90	60	50	96	40	27	22	20
20	97	53	40	66	86	58	48	51	37	27	23	18
21	62	150	40	66	70	60	56	56	40	27	24	20
22	53	77	40	62	150	59	96	47	42	28	23	19
23	50	59	44	58	79	54	58	44	36	53	23	17
24	49	56	41	58	74	55	50	44	35	34	22	17
25	78	56	41	57	70	54	51	42	33	26	23	17
26	51	54	376	135	68	54	77	42	32	25	22	34
27	48	59	79	415	68	55	50	42	55	25	35	29
28	48	54	59	271	66	60	48	41	51	24	26	21
29	46	51	54	94	64	53	48	41	32	27	22	18
30	47	53	79	83	---	53	47	61	67	58	20	75
31	45	---	134	83	---	57	---	48	---	27	20	---
TOTAL	1876	2174	1955	3347	2614	2104	1922	2171	1380	1289	1180	829
MEAN	60.5	72.5	63.1	108	90.1	67.9	64.1	70.0	46.0	41.6	38.1	27.6
MAX	225	279	376	415	200	163	249	358	155	226	175	124
MIN	40	42	40	57	64	53	47	41	32	24	20	17
CFSM	1.62	1.94	1.69	2.89	2.41	1.82	1.71	1.87	1.23	1.11	1.02	.74
IN.	1.87	2.16	1.94	3.33	2.60	2.09	1.91	2.16	1.37	1.28	1.17	.82

CAL YR 1975	TOTAL	31469	MEAN	86.2	MAX	1040	MIN	37	CFSM	2.30	IN	31.30
WTR YR 1976	TOTAL	22841	MEAN	62.4	MAX	415	MIN	17	CFSM	1.67	IN	22.72

DELAWARE RIVER BASIN

01475530 COBBS CREEK AT U. S. HIGHWAY NO. 1 AT PHILADELPHIA, PA

LOCATION.--Lat 39°58'29", long 75°16'49", Philadelphia County, Hydrologic Unit 02040203, on left bank 30 ft (9 m) downstream from bridge on U. S. Highway No. 1 and 50 ft (15 m) upstream from unnamed tributary at west city limits of Philadelphia.

DRAINAGE AREA.--4.78 mi² (12.4 km²).

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

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

REMARKS.--Records good.

AVERAGE DISCHARGE.--12 years, 7.09 ft³/s (0.201 m³/s), 20.14 in/yr (512 mm/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 3,480 ft³/s (98.6 m³/s) Aug. 23, 1974, gage height, 10.48 ft (3.194 m), from rating curve extended above 160 ft³/s (4.5 m³/s) on basis of computation of flow through culvert at gage height 9.18 ft (2.798 m); minimum, 0.3 ft³/s (0.008 m³/s) Oct. 13, Nov. 24, 25, 1965; minimum gage height, 2.03 ft (0.619 m) Nov. 25, 1965.

EXTREMES FOR CURRENT YEAR.--Peak discharges above base of 250 ft³/s (7.08 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)
May 1	2030	277 7.84	4.87 1.484	July 11	0900	275 7.79	4.86 1.481
July 4	1930	*301 8.52	*4.99 1.521				

Minimum discharge, 2.4 ft³/s (0.068 m³/s) Sept. 9, 13, 14, 15, 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	5.5	4.9	6.8	41	8.6	5.2	3A	70	20	4.4	4.9	3.0
2	5.5	5.2	5.5	7.4	19	5.2	6.5	12	30	3.4	3.6	7.5
3	5.2	5.2	5.2	18	6.5	5.2	5.5	7.5	6.1	3.9	3.4	3.5
4	4.7	5.2	5.2	7.6	6.9	5.8	7.1	6.8	5.8	23	3.4	3.4
5	4.7	4.9	5.2	5.9	6.0	7.0	5.2	6.1	5.5	5.8	3.1	3.2
6	4.7	4.9	5.2	5.5	5.9	5.4	5.2	6.1	5.2	3.9	3.4	3.2
7	4.1	4.9	5.2	18	5.2	4.9	5.2	9.2	4.9	9.6	3.6	3.0
8	4.4	11	5.5	18	5.9	4.9	5.8	5.8	4.9	11	15	2.8
9	8.8	4.9	5.8	5.6	5.7	6.0	4.9	5.5	4.7	4.4	31	2.6
10	4.9	12	5.8	4.5	6.3	9.8	5.2	5.5	4.4	3.6	13	5.5
11	11	5.2	5.2	4.7	9.1	9.9	5.5	11	4.4	33	4.4	3.0
12	8.8	35	5.2	7.0	6.0	6.9	5.2	18	4.1	9.0	4.2	2.8
13	4.9	32	5.2	11	5.7	19	5.2	5.8	3.9	5.2	4.2	2.8
14	4.7	8.8	5.2	14	5.6	6.6	5.2	5.5	3.9	4.7	19	2.4
15	4.4	7.1	5.2	5.6	5.2	6.5	4.9	5.5	3.9	4.4	10	2.7
16	4.4	6.5	5.8	5.2	5.3	14	5.2	5.5	3.9	4.4	5.0	3.4
17	16	6.1	5.5	4.9	7.4	6.1	4.9	5.2	8.2	4.1	4.2	8.8
18	21	6.1	5.2	3.7	9.6	4.9	5.2	24	5.2	3.9	3.9	3.4
19	33	6.1	5.2	3.6	9.0	4.9	4.9	14	4.1	3.6	3.6	3.2
20	13	5.8	4.9	3.6	5.7	4.9	5.2	7.1	4.1	3.9	3.4	2.8
21	7.1	23	4.9	3.8	5.5	6.1	5.8	9.2	3.9	3.9	3.4	3.6
22	6.5	7.8	4.9	3.5	20	5.8	15	6.1	3.9	4.1	3.4	3.0
23	5.8	6.5	4.9	3.5	7.0	5.5	6.5	5.5	3.6	9.3	3.0	2.6
24	5.5	6.1	4.7	3.5	6.1	5.2	5.5	5.5	3.6	5.5	3.2	2.6
25	12	5.8	4.7	3.5	5.8	4.7	7.5	5.5	3.2	3.9	3.4	2.6
26	6.1	5.5	5.4	16	5.5	4.6	11	5.5	3.0	3.6	3.4	9.2
27	5.8	6.8	6.8	51	5.5	4.6	5.5	5.2	10	3.6	7.2	4.1
28	5.5	5.8	5.2	18	5.5	5.8	5.2	4.9	4.4	3.6	3.6	3.0
29	5.2	5.5	4.5	7.2	5.3	4.5	5.2	4.7	3.2	7.8	3.4	2.8
30	5.8	5.5	11	6.1	---	4.6	4.9	9.0	9.6	6.3	3.2	22
31	4.9	---	16	5.6	---	6.8	---	5.0	---	4.4	3.0	---
TOTAL	243.9	260.1	229.6	316.5	210.7	201.3	212.1	302.2	185.6	205.2	186.5	159.1
MEAN	7.87	8.67	7.41	10.2	7.27	6.49	7.07	9.75	6.19	6.62	6.02	5.30
MAX	33	35	54	51	20	19	38	70	30	33	31	34
MIN	4.1	4.9	4.5	3.5	5.2	4.5	4.9	4.7	3.0	3.4	3.0	2.4
CFSM	1.65	1.81	1.55	2.13	1.52	1.36	1.48	2.04	1.29	1.38	1.26	1.11
IN.	1.90	2.02	1.79	2.46	1.64	1.57	1.65	2.35	1.44	1.60	1.45	1.24

CAL YR 1975	TOTAL	3649.1	MEAN	10.0	MAX	196	MIN	2.6	CFSM	2.09	IN	28.39
WTR YR 1976	TOTAL	2712.8	MEAN	7.41	MAX	70	MIN	2.4	CFSM	1.55	IN	21.11

DELAWARE RIVER BASIN

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01475545 NAYLOR CREEK AT WEST CHESTER PIKE NEAR PHILADELPHIA, PA

LOCATION.--Lat 39°58'13", long 75°18'11", Delaware County, Hydrologic Unit 02040203, 200 ft (60 m) north of West Chester Pike, 0.4 mi (0.6 km) west of intersection of West Chester Pike and U.S. Highway 1 and 8 mi (13 km) west of City Hall, Philadelphia.

DRAINAGE AREA.--1.10 mi² (2.85 km²).

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

REVISED RECORDS.--WDR PA-74: 1972(M), 1973.

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

REMARKS.--Records fair.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 568 ft³/s (16.1 m³/s) Aug. 23, 1974, gage height, 6.58 ft (2.006 m), from rating curve extended above 90 ft³/s (2.55 m³/s) on basis of computation of peak flow through culvert and flow-over-road measurement; minimum daily, 0.25 ft³/s (0.007 m³/s) Dec. 2, 3, 1973.

EXTREMES FOR CURRENT YEAR.--Peak discharges above base of 150 ft³/s (4.25 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)
Apr. 22	1430	*355 10.1	*3.15 0.960	June 27	1840	178 5.04	1.79 0.546
May 1	1945	247 7.00	2.24 0.683	July 11	0745	331 9.37	2.92 0.890
May 18	1515	202 5.72	1.94 0.591	Aug. 14	0015	238 6.74	2.18 0.664

Minimum discharge, 0.47 ft³/s (0.013 m³/s) July 5, 6, many days in Sept.

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	.65	1.4	11	2.2	.86	4.9	23	4.8	.65	.76	.56
2	.76	.65	1.0	1.8	5.0	.85	.97	1.8	4.1	.56	.56	1.1
3	.76	.65	.95	5.1	.80	.94	1.1	1.1	.87	.87	.56	.47
4	.76	.65	.90	2.0	.90	1.3	1.5	.87	.87	3.3	.56	.47
5	.76	.65	.87	1.3	.76	1.0	.97	.87	.76	.47	.56	.47
6	.76	.65	.87	1.3	.76	.93	.64	.87	.76	.47	.56	.47
7	.76	.65	.78	5.5	.70	.90	.64	1.8	.87	1.5	.56	.47
8	.65	1.9	.76	4.1	.76	.90	.85	.76	.87	2.8	3.0	.47
9	1.5	.56	.79	1.3	.72	.97	.74	.76	.76	.65	10	.47
10	.74	2.6	.78	1.0	.76	1.5	.80	.76	.87	.56	1.8	1.1
11	2.4	.68	.76	1.1	1.5	1.4	1.0	2.0	.76	11	.65	.47
12	1.0	13	.76	1.5	1.2	1.1	.94	3.0	.76	1.3	.65	.56
13	.76	6.1	.76	2.5	1.0	2.7	.65	.76	.76	.65	.76	.56
14	.76	1.1	.76	1.9	.87	.74	.59	.76	.76	.56	8.4	.47
15	.74	.89	.78	1.2	.84	.74	.56	.76	.87	.65	2.4	.47
16	.65	.76	.84	1.1	.87	2.2	.59	.87	.87	.65	.65	8.9
17	4.8	.76	.87	.93	1.0	.97	.65	.76	1.3	.56	.56	1.6
18	3.6	.76	.87	.80	2.0	.85	.65	9.4	.76	.56	.56	.56
19	7.3	.76	.87	.80	1.5	.85	.64	1.8	.65	.56	.56	.56
20	2.4	.76	.87	.86	1.0	.74	.70	1.1	.76	.65	.56	.56
21	1.0	5.4	1.4	.82	.90	.97	.80	1.3	.76	.56	.56	1.0
22	.98	1.1	1.3	.80	5.0	.74	10	.87	.76	.56	.56	.47
23	.87	1.0	.88	.80	1.5	.64	.67	.87	.76	3.0	.56	.47
24	.87	.87	.88	.80	1.3	.64	.61	.76	.76	1.0	.65	.56
25	2.8	.76	.88	.80	1.1	.64	2.0	.76	.76	.65	.56	.47
26	.76	.76	20	5.3	.90	.64	1.0	.76	.65	.65	.56	2.0
27	.76	1.3	1.5	18	.88	.85	.56	.76	3.5	.65	1.5	.76
28	.76	.76	1.2	2.0	.87	1.1	.56	.87	.65	.65	.65	.47
29	.76	.76	1.0	1.4	.86	.85	.56	1.0	.87	2.0	.65	.47
30	.80	.76	4.1	1.0	---	.85	.56	1.8	2.8	.65	.56	4.5
31	.65	---	5.1	.90	---	1.2	---	.87	---	2.0	.56	---
TOTAL	43.72	48.65	55.48	79.71	38.45	31.56	37.40	64.42	36.05	41.34	42.04	31.93
MEAN	1.41	1.62	1.79	2.57	1.33	1.02	1.25	2.08	1.20	1.33	1.36	1.06
MAX	7.3	13	20	18	5.0	2.7	10	23	4.8	11	10	8.9
MIN	.65	.56	.76	.80	.70	.64	.56	.76	.65	.47	.56	.47
CFSM	1.28	1.47	1.63	2.34	1.21	.93	1.14	1.89	1.09	1.21	1.24	.96
IN.	1.48	1.64	1.87	2.69	1.30	1.07	1.26	2.18	1.22	1.40	1.42	1.08

CAL YR 1975 TOTAL 772.99 MEAN 2.12 MAX 45 MIN .56 CFSM 1.93 IN 26.12
WTR YR 1976 TOTAL 550.75 MEAN 1.50 MAX 23 MIN .47 CFSM 1.36 IN 18.61

DELAWARE RIVER BASIN

01475550 COBBS CREEK AT DARBY, PA

LOCATION.--Lat 39°55'02", long 75°14'52", Delaware County, Hydrologic Unit 02040202, on right bank at Darby, 60 ft (18 m) upstream from dam, 200 ft (61 m) upstream from bridge on Woodland Avenue, and 1.1 mi (1.8 km) upstream from mouth.

DRAINAGE AREA.--22.0 mi² (57.0 km²).

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

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

REMARKS.--Records fair.

AVERAGE DISCHARGE.--12 years, 29.2 ft³/s (0.83 m³/s), 18.06 in/yr (459 mm/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 4,490 ft³/s (127 m³/s) June 29, 1973, gage height, 10.98 ft (3.347 m), from rating curve extended above 850 ft³/s (24.1 m³/s) on basis of computation of peak flow through culvert; maximum gage height, 12.85 ft (3.917 m) Aug. 23, 1974, backwater from storage tank; no flow on many days in 1964-66.

EXTREMES FOR CURRENT YEAR.--Peak discharges above base of 1,200 ft³/s (34.0 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)
Nov. 12	1930	1,250 35.4	4.75 1.448	May 1	2045	*1,530 43.3	*5.17 1.576
Apr. 22	1630	1,210 34.3	4.47 1.362	July 11	1000	1,310 37.1	4.69 1.430

Minimum discharge, 5.2 ft³/s (0.15 m³/s) Sept. 14, 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	13	12	20	206	36	18	188	345	91	18	24	6.0
2	13	12	16	21	97	17	24	48	141	11	8.5	16
3	13	12	13	68	24	18	19	21	16	20	8.3	13
4	13	12	13	22	24	20	30	17	15	131	7.9	6.7
5	13	12	14	18	22	19	18	16	14	24	8.3	6.4
6	14	12	13	17	22	21	17	16	13	13	8.5	5.9
7	14	12	13	73	19	16	17	35	13	45	9.7	5.7
8	14	33	13	117	24	16	24	17	13	85	103	5.9
9	24	13	14	20	21	21	17	15	14	16	175	5.5
10	15	50	16	19	23	38	15	14	14	11	83	20
11	35	16	13	18	31	33	15	52	14	228	13	7.9
12	23	232	13	19	24	26	14	100	13	29	11	5.7
13	13	131	13	28	22	127	15	16	13	14	9.3	5.7
14	13	21	14	41	21	22	15	15	13	13	123	5.3
15	13	18	14	21	20	19	15	15	13	12	80	5.7
16	13	17	16	18	21	50	14	16	13	12	16	171
17	48	15	14	17	31	28	14	16	29	13	10	45
18	78	15	16	15	53	19	14	123	13	11	8.9	20
19	138	14	14	15	44	18	14	47	13	10	7.9	8.9
20	21	14	14	16	20	18	14	16	12	9.7	8.3	8.3
21	15	100	14	17	20	19	22	26	12	9.3	7.6	8.5
22	14	19	14	16	95	18	143	16	11	10	7.2	10
23	13	15	15	14	24	16	22	15	13	50	7.6	6.0
24	13	15	14	14	21	16	16	14	13	18	6.7	6.2
25	43	15	14	14	20	17	18	14	13	10	6.9	6.4
26	14	15	268	80	19	17	36	13	10	8.9	7.2	37
27	13	18	20	308	18	17	13	14	48	9.3	22	16
28	13	14	17	67	17	24	13	13	22	9.7	9.3	10
29	14	14	16	26	17	15	13	13	13	16	7.0	7.0
30	13	14	60	23	---	16	12	30	58	33	6.2	94
31	12	---	56	21	---	20	---	16	---	12	6.0	---
TOTAL	718	912	794	1389	850	759	821	1144	703	911.9	817.3	575.7
MEAN	23.2	30.4	25.6	44.8	29.3	24.5	27.4	36.9	23.4	29.4	26.4	19.2
MAX	138	232	268	308	97	127	188	345	141	228	175	171
MIN	12	12	13	14	17	15	12	13	10	8.9	6.0	5.3
CFSM	1.05	1.38	1.16	2.04	1.33	1.11	1.25	1.68	1.06	1.34	1.20	.87
IN.	1.21	1.54	1.34	2.35	1.44	1.28	1.39	1.93	1.19	1.54	1.38	.97

CAL YR 1975	TOTAL	13605.0	MEAN 37.3	MAX 657	MIN 10	CFSM 1.70	IN 23.00
WTR YR 1976	TOTAL	10394.9	MEAN 28.4	MAX 345	MIN 5.3	CFSM 1.29	IN 17.58

DELAWARE RIVER BASIN

237

01476030 LITTLE CRUM CREEK AT MICHIGAN AVENUE, SWARTHMORE, PA

LOCATION.--Lat 39°53'42", long 75°20'19", Delaware County, Hydrologic Unit 02040202, on left bridge abutment at Michigan Avenue, Ridley Township, Swarthmore.

DRAINAGE AREA.--1.15 mi² (2.98 km²).

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

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

REMARKS.--Records fair.

AVERAGE DISCHARGE.--5 years, 1.57 ft³/s (0.044 m³/s), 18.54 in/yr (471 mm/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 605 ft³/s (17.1 m³/s) Sept. 13, 1971, gage height, 9.77 ft (2.978 m), from crest-stage indicator, from rating curve extended above 50 ft³/s (1.4 m³/s); minimum, 0.02 ft³/s (0.001 m³/s) Sept. 16, 17, 1972; minimum gage height, 1.92 ft (0.585 m) Sept. 9, 10, 1976.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 100 ft³/s (2.83 m³/s) June 1, gage height, 4.10 ft (1.250 m), from rating curve extended as explained above; minimum, 0.22 ft³/s (0.006 m³/s) Sept. 9, 10, gage height, 1.92 ft (0.585 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	.47	.42	.77	9.8	3.0	.57	7.0	14	9.5	.60	.36	.28
2	.57	.40	.57	1.5	5.9	.52	1.2	2.7	7.6	.45	.32	.36
3	.57	.38	.52	5.9	1.0	.52	.80	1.3	1.2	3.0	.32	.34
4	.49	.36	.52	1.5	.85	.52	.80	1.1	1.8	.80	.40	.30
5	.38	.32	.52	.77	.67	.57	.60	1.0	1.4	.60	.45	.30
6	.38	.28	.52	.63	.67	.49	.60	.95	.70	.52	.47	.30
7	.36	.28	.54	5.3	.63	.52	.57	3.2	.63	1.1	.44	.32
8	.36	.85	.57	5.0	.85	.57	.67	1.1	.57	.67	4.0	.42
9	.49	.32	.63	.77	.63	1.3	.54	1.1	.57	.47	7.0	.28
10	.42	5.3	.67	.63	.77	1.7	.52	1.1	.54	.45	2.7	.41
11	3.0	.60	.63	.63	.85	1.0	.52	1.8	.52	8.0	.52	.32
12	.54	15	.63	.67	.67	2.0	.49	3.4	.42	.76	.42	.32
13	.38	7.6	.63	2.7	.67	5.9	.52	.70	.42	.55	.42	.48
14	.34	1.5	.63	3.0	.67	1.2	.49	.70	.45	.48	6.2	.46
15	.34	.77	.63	.63	.63	.90	.47	.73	.40	.46	2.3	.54
16	.34	.77	.63	.63	.67	2.0	.47	.95	.42	.48	.50	5.0
17	4.0	.67	.60	.60	.85	1.1	.47	1.0	.54	.44	.40	.70
18	4.3	.63	.60	.57	3.8	.85	.45	5.6	.42	.40	.40	.50
19	7.9	.63	.63	.57	1.5	.85	.38	2.2	.42	.38	.36	.45
20	1.7	.60	.60	.57	.67	.85	.34	1.2	.42	.34	.32	.40
21	.57	5.3	.77	.57	.63	1.2	.42	2.3	.40	.30	.36	.60
22	.52	1.1	1.1	.60	4.5	1.6	.57	1.1	.45	.30	.32	.35
23	.45	.67	.85	.57	.85	.70	.36	.90	.40	3.0	.26	.30
24	.45	.63	.67	.56	.67	.67	.36	.85	.40	1.0	.26	.35
25	1.7	.63	.67	.57	.62	.63	.45	.85	.40	.40	.30	.30
26	.49	.63	11	3.6	.60	.60	.45	.80	.36	.38	.34	1.5
27	.47	.67	1.1	12	.60	.63	.34	.77	3.4	.36	.41	.60
28	.47	.57	.60	4.5	.63	.60	.34	.77	.60	.34	.32	.30
29	.45	.57	.57	1.1	.63	.54	.34	.80	.52	1.4	.26	.26
30	.45	.57	3.8	.85	---	.54	.30	1.2	3.0	.64	.36	3.4
31	.40	---	6.2	.67	---	.80	---	.77	---	.42	.34	---
TOTAL	33.75	49.02	39.37	67.96	35.68	32.44	21.83	56.94	38.87	29.49	31.83	20.44
MEAN	1.09	1.63	1.27	2.19	1.23	1.05	.73	1.84	1.30	.95	1.03	.68
MAX	7.9	15	11	12	5.9	5.9	7.0	14	9.5	8.0	7.0	5.0
MIN	.34	.28	.52	.56	.60	.49	.30	.70	.36	.30	.26	.26
CFSM	.95	1.42	1.10	1.90	1.07	.91	.63	1.60	1.13	.83	.90	.59
IN.	1.09	1.58	1.27	2.20	1.15	1.05	.71	1.84	1.26	.95	1.03	.66

CAL YR 1975 TOTAL 581.63 MEAN 1.59 MAX 22 MIN .06 CFSM 1.38 IN 18.80
WTR YR 1976 TOTAL 457.62 MEAN 1.25 MAX 15 MIN .26 CFSM 1.09 IN 14.79

DELAWARE RIVER BASIN

01476200 DELAWARE RIVER AT EDDYSTONE, PA

LOCATION.--Lat 39°50'57", long 75°19'43", Delaware County, Hydrologic Unit 02040202, at center of river on a line between piers 11 and 12 just above Chester Range front light through channel station +97.2 to the middle of Monds Island on the New Jersey shore.

DRAINAGE AREA.--10,200 mi² (26,400 km²).

PERIOD OF RECORD.--August 1949 to September 1970, February 1974 to current year.

REMARKS.--Samples collected about 5 to 15 ft (2 to 5 m) from bottom.

WATER QUALITY DATA. WATER YEAR OCTOBER 1975 TO SEPTMBER 1976

DATE	TIME	SPE- CIFIC CON- DUCT- ANCE (MICRO- MHOS)	TEMPER- ATURE (DEG C)	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)	DIS- SOLVED PO- TAS- SIUM (K) (MG/L)	RICAR- BONATE (HCO3) (MG/L)	ALKA- LINITY AS CACO3 (MG/L)	DIS- SOLVED SULFATE (SO4) (MG/L)
OCT 02...	0915	166	17.5	66	34	18	5.0	6.8	2.2	38	31	26
JAN 20...	0915	240	1.0	73	39	19	6.3	17	2.4	42	34	41
FEB 05...	0915	143	1.0	50	28	14	3.6	7.7	1.5	26	21	24
MAR 04...	0900	152	6.5	50	29	13	4.2	7.6	1.6	25	21	27
APR 01...	0915	220	10.0	88	56	25	6.3	13	2.3	39	32	37
MAY 06...	0945	253	15.5	86	51	22	7.5	15	2.5	43	35	42
JUN 10...	0915	231	21.0	67	36	17	6.0	16	2.4	38	31	39
JUL 01...	0910	290	25.5	86	52	22	7.6	19	3.0	42	34	55
AUG 13...	0900	283	25.0	85	51	22	7.4	19	2.9	42	34	52
SEP 02...	0940	321	24.0	90	56	21	9.1	28	3.2	41	34	54

DATE	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)	DIS- SOLVED NITRATE (N) (MG/L)	DIS- SOLVED NITRITE (N) (MG/L)	DIS- SOLVED NITRATE PLUS NITRITE (N) (MG/L)	DIS- SOLVED ORTHO. PHOS- PHORUS (P) (MG/L)	DIS- SOLVED IRON (FE) (UG/L)	DIS- SOLVED MAN- GANESE (MN) (UG/L)
OCT 02...	11	.1	6.2	126	103	1.9	.05	1.9	.08	120	70
JAN 20...	24	.1	6.9	147	146	1.9	.04	1.9	.08	70	150
FEB 05...	12	.1	4.8	73	90	2.1	.02	2.1	.05	120	110
MAR 04...	11	.1	5.0	86	92	2.1	.13	2.2	.06	130	110
APR 01...	20	.0	5.0	124	137	1.9	.13	2.0	.06	70	130
MAY 06...	20	.2	.5	142	137	1.2	.09	1.3	.05	60	90
JUN 10...	21	.2	.2	114	125	.83	.06	.89	.09	60	90
JUL 01...	24	.2	.3	184	160	1.8	.01	1.8	.07	60	20
AUG 13...	23	.2	.8	170	155	1.2	.18	1.4	.10	20	60
SEP 02...	43	.2	.7	214	188	1.6	.16	1.8	.06	10	30

DELAWARE RIVER BASIN

01476848 EAST BRANCH CHESTER CREEK NEAR WEST CHESTER, PA

LOCATION.--Lat 39°55'45", long 75°32'00", Chester County, Hydrologic Unit 02040202, 30 ft (9.1 m) upstream of bridge on Cheyney Woods Road, 4.4 mi (7.1 km) southeast of West Chester.

DRAINAGE AREA.--not available.

PERIOD OF RECORD.--October 1975 to current year.

COOPERATION.--Water-quality data were furnished by the Pennsylvania Department of Environmental Resources.

WATER QUALITY DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

DATE	TIME	CODE FOR AGENCY COL- LECTING SAMPLE	SPE- CIFIC CON- DUCT- ANCE (MICRO- MHOS)	TEMPER- ATURE (DEG C)	TUR- BID- ITY (JTU)	CHFM- ICAL OXYGEN DEMAND (HIGH LEVEL) (MG/L)	HARD- NESS (CA+MG) (MG/L)	MINERAL ACIDITY (METHYL ORANGE) AS CAC03 (MG/L)	ACIDITY CO2 AS CAC03 (MG/L)
OCT									
21...	1000	9813	260	12.0	13	32	91	0	0
NOV									
17...	1100	9813	100	7.0	2	--	46	0	0
JAN									
07...	1130	9813	240	3.0	15	--	93	0	0
FFB									
23...	0945	9813	210	4.0	26	--	138	0	0
23...	1130	9813	110	5.0	50	--	64	0	0
MAY									
05...	1200	9813	120	13.0	1	--	150	0	0
17...	1000	9813	360	19.0	4	--	93	0	0
AUG									
23...	1015	9813	470	22.0	4	--	100	0	0
30...	1130	9813	140	20.0	2	--	46	0	0

DATE	DIS- SOLVED CAL- CIUM (CA) (MG/L)	DIS- SOLVED MAG- NE- SIUM (MG) (MG/L)	ALKA- LINE- ITY AS CAC03 (MG/L)	DIS- SOLVED SULFATE (SO4) (MG/L)	DIS- SOLVED CHLO- RIDE (CL) (MG/L)	TOTAL FLUO- RIDE (F) (MG/L)	TOTAL FILT- RABLE RESIDUE (MG/L)	TOTAL NON- FILT- RABLE RESIDUE (MG/L)	TOTAL RESI- DUE (MG/L)
OCT									
21...	23	8.0	76	42	34	--	274	8	--
NOV									
17...	10	5.0	24	4.0	11	--	92	8	100
JAN									
07...	22	9.0	80	40	33	.1	232	0	--
FFB									
23...	20	22	58	30	30	<.1	214	36	--
23...	11	9.0	28	16	13	--	128	50	--
MAY									
05...	8.0	12	34	8.0	11	<.1	70	0	--
17...	21	9.5	32	38	35	.1	220	6	226
AUG									
23...	27	8.0	72	32	48	.1	284	6	--
30...	11	4.5	24	6.0	13	<.1	100	4	--

DATE	TOTAL NITRATE (N) (MG/L)	TOTAL NITRITE (N) (MG/L)	TOTAL AMMONIA NITRO- GEN (N) (MG/L)	TOTAL PHOS- PHORUS (P) (MG/L)	TOTAL IRON (FE) (UG/L)	TOTAL ORGANIC CARBON (C) (MG/L)	PHENOLS (UG/L)	METHY- LENE BLUE ACTIVE SUR- STANCE (MG/L)
OCT								
21...	2.7	.22	1.9	.87	920	4.0	--	.1
NOV								
17...	3.3	.03	.03	.07	360	1.0	--	--
JAN								
07...	3.0	.15	2.8	1.4	800	--	0	.0
FEH								
23...	2.6	.14	2.1	.64	1400	--	--	.0
23...	2.7	.04	.24	.27	1200	--	--	--
MAY								
05...	3.3	.02	.14	.10	260	--	--	.0
17...	3.5	.30	3.5	2.0	510	--	--	.0
AUG								
23...	5.2	.90	2.6	2.3	430	--	<10	.0
30...	3.8	.06	.03	.24	140	--	--	.0

DELAWARE RIVER BASIN

01477000 CHESTER CREEK NEAR CHESTER, PA

LOCATION.--Lat 39°52'08", long 75°24'31", Delaware County, Hydrologic Unit 02040202, on right bank 30 ft (9 m) downstream from Dutton Mill Bridge and 3 mi (5 km) northwest of Chester.

DRAINAGE AREA.--61.1 mi² (158.2 km²).

WATER-DISCHARGE RECORDS

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

REVISED RECORDS.--WDR PA-72: 1971.

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

REMARKS.--Records good.

AVERAGE DISCHARGE.--45 years, 83.1 ft³/s (2.35 m³/s), 18.48 in/yr (469 mm/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 21,000 ft³/s (595 m³/s) Sept. 13, 1971, gage height, 24.59 ft (7.495 m), from floodmark, from rating curve extended above 2,400 ft³/s (68.0 m³/s) on basis of contracted-opening measurement at gage height 13.57 ft (4.136 m) and slope-area measurement of peak flow; minimum, 0.3 ft³/s (0.008 m³/s) Aug. 7, 1934, gage height, 0.28 ft (0.085 m); minimum daily, 6.5 ft³/s (0.18 m³/s) Sept. 25, 1941.

EXTREMES FOR CURRENT YEAR.--Peak discharges above base of 1,400 ft³/s (39.6 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	2330	1,430 40.5	6.33 1.929	Jan. 27	2115	*1,660 47.0	*6.82 2.079

Minimum discharge, 22 ft³/s (0.62 m³/s) Sept. 9, 14, gage height, 2.83 ft (0.863 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	72	66	83	670	250	89	345	276	61	45	36	27
2	72	66	77	142	450	87	124	258	351	41	31	31
3	65	68	73	209	129	87	99	95	101	38	32	36
4	63	68	70	153	114	89	99	77	72	53	30	28
5	61	68	70	97	107	93	93	70	63	47	30	27
6	61	66	70	87	103	97	85	66	58	40	28	25
7	60	66	70	114	95	85	83	63	58	44	45	25
8	56	101	68	288	93	83	83	68	56	41	97	26
9	60	73	70	103	91	89	81	61	55	65	73	25
10	63	101	77	87	95	105	75	58	51	41	214	30
11	81	117	70	85	124	131	75	61	50	387	50	33
12	110	351	68	85	110	117	72	99	50	87	41	25
13	68	693	68	89	99	247	72	63	47	58	38	24
14	63	149	68	252	101	122	72	60	48	53	114	25
15	60	103	70	99	91	99	70	58	48	47	79	24
16	56	91	73	89	97	112	70	58	47	47	53	73
17	65	87	68	83	117	124	68	60	75	44	40	73
18	200	83	66	70	114	95	66	136	55	40	36	37
19	652	81	61	73	160	93	65	124	58	36	32	31
20	168	77	61	79	103	91	66	73	50	37	32	28
21	105	200	63	81	93	91	72	75	61	37	31	28
22	87	134	63	79	219	93	75	73	79	41	31	30
23	77	93	65	68	139	85	77	60	58	38	30	27
24	75	87	58	68	105	87	66	56	50	53	31	26
25	95	83	60	68	101	85	68	55	47	38	31	25
26	83	79	639	129	97	83	95	56	45	33	31	31
27	75	79	146	822	95	83	70	53	45	36	48	38
28	73	79	91	619	91	89	65	51	58	34	40	34
29	72	77	77	120	89	79	61	51	47	38	31	28
30	72	75	85	110	---	79	60	68	44	65	27	53
31	68	---	176	110	---	79	---	61	---	41	28	---
TOTAL	3038	3561	2924	5228	3672	3068	2572	2543	1988	1745	1490	973
MEAN	98.0	119	94.3	169	127	99.0	85.7	82.0	66.3	56.3	48.1	32.4
MAX	652	693	639	822	450	247	345	276	351	387	214	73
MIN	56	66	58	68	89	79	60	51	44	33	27	24
CFSM	1.60	1.95	1.54	2.77	2.08	1.62	1.40	1.34	1.09	.92	.79	.53
IN.	1.85	2.17	1.78	3.18	2.24	1.87	1.57	1.55	1.21	1.06	.91	.59

CAL YR 1975	TOTAL	48741	MEAN 134	MAX 1450	MIN 40	CFSM 2.19	IN 29.67
WTR YR 1976	TOTAL	32802	MEAN 89.6	MAX 822	MIN 24	CFSM 1.47	IN 19.97

01477000 CHESTER CREEK NEAR CHESTER, PA--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--October 1975 to current year.

COOPERATION.--Water-quality data were furnished by the Pennsylvania Department of Environmental Resources.

WATER QUALITY DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

DATE	TIME	CODE FOR AGENCY COL- LECTING SAMPLE	INSTAN- TANEOUS DIS- CHARGE (CFS)	SPE- CIFIC CON- DUCT- ANCE (MICRO- MHOS)	TEMPER- ATURE (DEG C)	TUR- BID- ITY (JTU)	DIS- SOLVED OXYGEN (MG/L)	CHEM- ICAL OXYGEN DEMAND (HIGH LEVEL) (MG/L)	HARD- NESS (CA, MG) (MG/L)
OCT									
30...	0930	9813	74	210	13.0	4	--	4	92
JAN									
06...	1245	9813	95	170	.0	10	--	--	75
FEB									
25...	0900	9813	103	430	5.0	4	--	--	100
MAR									
09...	1300	9813	85	200	5.0	3	--	--	94
APR									
12...	1315	9813	72	190	9.0	3	--	--	60
MAY									
18...	1000	9813	133	270	19.0	50	--	--	50
JUN									
17...	1115	9813	105	420	23.0	28	--	--	80
JUL									
26...	0925	9813	32	290	17.8	4	8.5	--	75
AUG									
23...	1100	9813	31	400	23.0	3	--	--	92

DATE	MINERAL ACIDITY (METHYL ORANGE) AS CACO3 (MG/L)	ACIDITY CO2 AS CACO3 (MG/L)	DIS- SOLVED CAL- CIUM (CA) (MG/L)	DIS- SOLVED MAG- NE- SIUM (MG) (MG/L)	ALKA- LINITY AS CACO3 (MG/L)	DIS- SOLVED SULFATE (SO4) (MG/L)	DIS- SOLVED CHLO- RIDE (CL) (MG/L)	TOTAL FLUO- RIDE (F) (MG/L)	TOTAL FILT- RABLE RESIDUE (MG/L)
OCT									
30...	0	0	19	11	42	28	28	--	216
JAN									
06...	0	0	19	6.5	54	28	25	--	158
FEB									
25...	0	0	19	13	50	24	27	<.1	170
MAR									
09...	0	0	17	12	54	22	29	<.1	150
APR									
12...	0	0	18	3.5	38	30	24	<.1	160
MAY									
18...	0	0	16	2.5	40	20	30	.1	190
JUN									
17...	0	0	19	8.0	50	12	49	.1	280
JUL									
26...	0	0	19	6.7	54	24	32	.1	198
AUG									
23...	0	0	23	8.5	42	26	44	.1	218

DATE	TOTAL NON- FILT- RABLE RESIDUE (MG/L)	TOTAL RESI- DUE (MG/L)	TOTAL NITRATE (N) (MG/L)	TOTAL NITRITE (N) (MG/L)	TOTAL AMMONIA NITRO- GEN (N) (MG/L)	TOTAL PHOS- PHORUS (P) (MG/L)	TOTAL IRON (FE) (UG/L)	METHY- LENE BLUE ACTIVE SUR- STANCE (MG/L)
OCT								
30...	4	--	3.5	.12	.10	.44	430	.0
JAN								
06...	18	--	2.5	.05	.60	.33	480	.0
FEB								
25...	10	--	2.6	.10	.99	.56	390	.0
MAR								
09...	8	--	2.8	.14	.67	.40	340	.0
APR								
12...	8	--	2.8	.12	.16	.40	280	.0
MAY								
18...	82	272	1.9	.19	.28	.71	2750	.0
JUN								
17...	66	--	5.7	.39	1.9	.73	2590	.0
JUL								
26...	8	--	3.0	.04	.11	.39	350	.0
AUG								
23...	<5	--	1.3	.04	.05	.70	230	.0

DELAWARE RIVER BASIN

01477050 DELAWARE RIVER AT CHESTER, PA

LOCATION.--Lat 39°50'12", long 75°22'00", Delaware County, Hydrologic Unit 02040202, water-quality recorder located at auxiliary tidal-gaging station at end of Reynolds Aluminum Company pier, 0.5 mi (0.8 km) downstream from Chester Creek in Chester.

DRAINAGE AREA.--10,300 mi² (26,700 km²).

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

PERIOD OF DAILY RECORD.--

SPECIFIC CONDUCTANCE: October 1963 to current year.

pH: January 1968 to current year.

WATER TEMPERATURES: December 1961 to current year.

DISSOLVED OXYGEN: December 1961 to current year.

EXTREMES FOR PERIOD OF DAILY RECORD.--

SPECIFIC CONDUCTANCE: Maximum, 5,900 micromhos Oct. 7, 1965; minimum, 111 micromhos Apr. 26, 27, 1972.

pH: Maximum, 8.7 Sept. 13, 14, 1971; minimum, 5.5 Dec. 10, 11, 1969.

WATER TEMPERATURES: Maximum, 30.0°C July 13, 14, 1966, Apr. 3, 4, 1967, Aug. 4, 1968; minimum, freezing point on many days during winter periods.

DISSOLVED OXYGEN: Maximum, 12.6 mg/l Feb. 2, 3, 1976; minimum, 0.0 mg/l on many days.

EXTREMES FOR CURRENT YEAR.--

SPECIFIC CONDUCTANCE: Maximum, 829 micromhos Sept. 10; minimum, 163 micromhos Feb. 1.

WATER TEMPERATURES: Maximum, 27.0°C July 1; minimum, freezing point Jan. 23, 24.

DISSOLVED OXYGEN: Maximum, 12.6 mg/l Feb. 2, 3; minimum, 0.0 mg/l June 29, 30, July 11.

SPECIFIC CONDUCTANCE (MICROMHOS/CM AT 25 °C), 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	209	195	201	---	---	---	269	249	257	315	270	297
2	214	192	200	---	---	---	267	252	259	344	290	307
3	217	195	203	---	---	---	270	255	262	325	305	312
4	218	197	207	320	288	---	277	258	265	316	280	297
5	219	197	208	327	298	311	284	260	269	296	270	282
6	224	198	210	338	305	319	287	260	274	286	274	279
7	210	205	---	344	314	324	284	250	269	297	260	278
8	---	---	---	347	318	330	277	260	270	287	270	279
9	---	---	---	343	330	---	277	260	271	296	270	283
10	---	---	---	---	---	---	296	260	276	287	267	277
11	---	---	---	292	282	---	296	260	279	---	---	---
12	---	---	---	295	277	288	287	270	281	---	---	---
13	---	---	---	296	274	284	297	270	286	---	---	---
14	---	---	---	317	296	309	297	280	288	---	---	---
15	---	---	---	317	297	306	306	280	292	387	300	---
16	---	---	---	299	278	289	315	280	296	369	300	325
17	---	---	---	283	272	277	306	260	281	377	334	354
18	---	---	---	272	258	266	286	260	271	362	347	354
19	---	---	---	269	253	259	297	260	278	358	341	350
20	---	---	---	262	250	256	287	267	280	361	344	350
21	---	---	---	253	222	235	296	270	281	368	345	353
22	---	---	---	224	214	218	315	275	289	396	355	370
23	---	---	---	227	212	216	307	280	291	389	353	368
24	---	---	---	248	210	229	306	280	291	376	346	356
25	---	---	---	253	237	244	314	280	294	385	348	364
26	---	---	---	256	241	248	327	290	307	381	322	349
27	---	---	---	259	241	250	327	300	316	389	334	354
28	---	---	---	260	242	252	377	310	334	365	260	298
29	---	---	---	270	246	254	344	320	333	261	214	239
30	---	---	---	262	247	255	336	320	328	242	183	208
31	---	---	---	---	---	---	327	310	320	209	171	183
MONTH	---	---	---	347	210	---	377	249	287	396	171	310

DELAWARE RIVER BASIN

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01477050 DELAWARE RIVER AT CHESTER, PA--Continued

SPECIFIC CONDUCTANCE (MICROMHOS/CM AT 25°C), WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

DAY	FEBRUARY			MARCH			APRIL			MAY		
	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	186	163	173	307	258	274	405	384	393	344	321	332
2	210	169	195	285	261	272	410	386	395	330	308	323
3	213	169	192	297	263	275	407	380	394	359	330	343
4	242	184	202	292	262	279	382	351	366	366	349	357
5	225	187	203	327	272	290	366	325	341	370	356	362
6	243	191	210	331	271	297	359	318	333	366	350	359
7	250	200	222	330	287	303	341	304	324	357	347	351
8	255	198	224	343	287	306	339	301	317	350	333	341
9	263	211	235	323	293	303	337	303	316	342	325	336
10	254	216	233	367	294	319	330	302	316	346	329	334
11	277	229	247	423	324	356	337	306	321	339	325	331
12	288	239	258	424	352	383	342	300	318	334	318	325
13	290	249	266	426	366	391	334	300	314	331	314	323
14	296	245	273	404	356	383	335	299	310	328	309	320
15	295	258	274	412	366	386	344	300	312	332	312	319
16	303	258	282	408	374	389	346	301	320	327	309	316
17	301	273	287	413	363	387	343	304	320	327	309	316
18	299	276	---	385	355	369	342	306	323	317	309	313
19	422	379	---	393	344	366	317	259	277	319	304	312
20	413	374	398	403	346	366	287	261	276	322	306	312
21	399	368	382	377	343	359	297	267	280	319	309	312
22	373	360	---	391	351	369	303	277	287	327	308	315
23	---	---	---	391	360	372	313	275	293	326	310	317
24	387	322	346	391	362	372	308	282	294	333	313	320
25	334	272	299	398	372	383	385	289	318	324	316	320
26	308	260	277	397	369	381	334	303	318	322	315	318
27	301	259	275	397	367	383	333	303	320	323	312	317
28	301	258	277	399	373	384	335	311	322	333	312	317
29	305	254	275	411	378	387	341	315	326	328	313	317
30	---	---	---	395	379	387	346	310	329	321	309	315
31	---	---	---	410	381	391	---	---	---	326	308	315
MONTH	422	163	260	426	258	350	410	259	322	370	304	326
DAY	JUNE			JULY			AUGUST			SEPTEMBER		
	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	322	311	315	370	358	364	333	312	322	492	342	397
2	321	298	310	380	349	362	336	316	324	429	349	391
3	318	300	308	370	349	359	349	321	331	561	352	408
4	315	306	309	360	343	354	381	326	339	577	365	445
5	324	310	314	355	323	344	397	330	350	595	378	466
6	319	311	315	350	320	337	400	338	358	559	373	456
7	323	276	299	341	313	330	418	344	367	628	380	475
8	293	275	281	329	305	319	472	340	385	643	397	488
9	285	269	280	326	299	311	455	336	380	703	412	536
10	289	279	283	318	292	304	371	323	341	829	434	602
11	299	282	290	315	276	298	358	329	---	746	431	575
12	301	286	292	302	278	289	---	---	---	737	457	569
13	302	291	297	297	279	290	---	---	---	719	459	582
14	310	298	304	300	288	292	---	---	---	705	456	572
15	314	300	305	303	284	292	---	---	---	730	470	593
16	315	302	308	298	290	293	327	316	---	818	466	627
17	322	306	312	297	291	---	329	311	320	819	469	615
18	325	310	317	---	---	---	327	311	319	676	465	569
19	325	316	320	---	---	---	345	311	323	605	433	512
20	332	319	326	287	280	---	350	326	336	586	447	---
21	346	323	333	291	277	283	332	315	325	---	---	---
22	339	329	335	305	276	283	327	313	319	---	---	---
23	349	336	341	288	275	283	326	311	318	---	---	---
24	357	340	347	296	277	284	361	317	331	---	---	---
25	369	344	355	294	279	285	383	328	346	---	---	---
26	367	351	360	296	284	289	415	329	349	---	---	---
27	366	349	358	313	291	296	384	332	354	---	---	---
28	368	350	357	304	292	297	384	337	357	---	---	---
29	369	354	359	321	299	308	397	340	362	---	---	---
30	373	359	364	329	304	313	410	335	364	---	---	---
31	---	---	---	344	309	322	486	337	378	---	---	---
MONTH	373	269	320	380	275	310	486	311	344	---	---	---

DELAWARE RIVER BASIN

01477050 DELAWARE RIVER AT CHESTER, PA--Continued

PH (UNITS), 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	7.1	6.9	7.0	7.0	6.5	6.8	7.9	7.5	---	---	---	---
2	7.0	6.8	6.9	7.0	6.5	6.8	---	---	---	---	---	---
3	6.8	6.6	6.7	6.9	6.7	6.8	---	---	---	---	---	---
4	6.8	6.5	6.7	6.8	6.5	---	7.5	7.4	---	---	---	---
5	6.7	6.5	6.6	6.7	6.3	6.5	7.5	7.4	7.4	---	---	---
6	6.6	6.5	6.5	6.7	6.4	6.6	7.6	7.4	7.5	---	---	---
7	6.5	6.2	6.4	6.9	6.5	6.6	7.5	7.4	---	---	---	---
8	6.5	6.3	6.4	7.1	6.6	6.9	---	---	---	---	---	---
9	6.5	6.4	6.4	7.1	7.0	---	---	---	---	---	---	---
10	6.6	6.5	6.5	---	---	---	6.6	6.5	---	---	---	---
11	6.7	6.5	6.6	7.7	7.3	---	6.6	6.5	6.5	---	---	---
12	6.6	6.4	---	7.7	7.1	7.5	6.5	6.4	6.5	---	---	---
13	6.7	6.4	6.6	7.7	7.6	7.6	6.5	6.4	6.5	---	---	---
14	7.4	6.5	6.9	7.8	7.4	7.7	6.5	6.5	6.5	---	---	---
15	7.0	6.8	7.0	7.8	7.5	7.8	6.6	6.4	6.5	---	---	---
16	6.8	6.7	6.8	7.9	7.8	7.8	6.7	6.5	6.6	---	---	---
17	6.8	6.6	6.6	7.9	7.7	7.8	6.5	6.4	---	---	---	---
18	7.1	6.8	6.9	8.0	7.8	7.9	6.5	6.5	---	---	---	---
19	6.8	6.5	6.6	7.9	7.5	7.8	---	---	---	---	---	---
20	6.8	6.5	6.6	7.8	7.7	7.8	---	---	---	---	---	---
21	6.8	6.2	6.6	7.7	6.8	7.3	---	---	---	---	---	---
22	7.2	6.4	6.8	6.8	6.7	6.7	---	---	---	---	---	---
23	7.9	7.3	7.7	6.7	6.6	6.7	---	---	---	---	---	---
24	7.7	7.5	7.6	7.9	6.6	7.2	---	---	---	---	---	---
25	7.7	7.2	7.6	7.9	7.8	7.9	---	---	---	---	---	---
26	7.7	7.5	7.6	7.9	7.8	7.9	---	---	---	---	---	---
27	7.6	7.2	7.4	8.1	7.8	7.9	---	---	---	---	---	---
28	7.6	7.1	7.3	8.0	7.8	7.9	---	---	---	7.5	7.2	---
29	7.6	7.3	7.5	7.9	7.8	7.9	---	---	---	7.5	7.4	7.4
30	7.4	6.6	7.0	7.9	7.5	7.8	---	---	---	7.5	7.1	7.3
31	7.0	6.5	6.7	---	---	---	---	---	---	7.2	6.9	7.0
MONTH	7.9	6.2	6.9	8.1	6.3	7.4	---	---	---	---	---	---
DAY	FEBRUARY			MARCH			APRIL			MAY		
	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	7.2	6.8	7.0	7.1	6.9	7.0	6.5	6.2	6.3	7.1	6.8	6.9
2	7.1	7.0	---	6.9	6.8	6.9	6.4	6.2	6.3	6.9	6.7	6.8
3	---	---	---	6.9	6.7	6.8	6.5	6.3	6.4	6.8	6.7	6.7
4	6.7	6.5	---	6.8	6.7	6.7	6.5	6.4	6.4	6.7	6.6	---
5	6.8	6.5	6.6	6.7	6.3	6.6	6.5	6.4	6.4	---	---	---
6	6.5	6.5	6.5	6.5	6.3	6.4	6.7	6.4	6.5	---	---	---
7	6.5	6.4	6.4	6.5	6.2	6.3	6.8	6.5	6.6	---	---	---
8	6.6	6.4	6.5	6.5	6.3	6.4	6.7	6.4	6.5	---	---	---
9	6.8	6.4	6.5	6.4	6.3	6.3	6.7	6.2	6.3	---	---	---
10	6.7	6.4	6.5	6.7	6.3	6.5	6.4	6.2	6.3	7.1	6.9	---
11	7.1	6.5	6.7	7.0	6.7	6.8	6.4	6.3	6.4	7.1	6.8	6.9
12	6.8	6.6	6.7	6.8	6.6	6.7	6.7	6.2	6.5	6.8	6.6	---
13	7.1	6.6	6.8	7.1	6.7	6.9	6.9	6.6	6.7	---	---	---
14	7.0	6.7	6.9	7.0	6.7	6.9	7.1	6.7	6.9	---	---	---
15	6.9	6.6	6.7	7.1	6.8	6.9	6.9	6.7	6.8	---	---	---
16	7.2	6.8	7.0	7.0	6.8	6.9	7.0	6.6	6.8	---	---	---
17	7.2	6.9	7.1	7.5	6.8	7.2	6.9	6.6	---	---	---	---
18	7.0	6.8	6.9	7.5	7.3	7.4	---	---	---	---	---	---
19	7.2	6.7	6.9	7.7	7.3	7.5	6.8	6.5	---	---	---	---
20	7.0	6.8	6.9	8.0	7.5	7.7	7.2	6.7	7.0	---	---	---
21	7.1	6.8	7.0	7.8	7.6	7.7	7.2	6.9	7.0	---	---	---
22	7.3	6.9	7.1	7.6	7.4	7.4	7.0	6.9	6.9	---	---	---
23	6.9	6.7	6.8	7.4	7.2	7.3	7.1	6.8	6.9	---	---	---
24	6.7	6.6	6.7	7.4	7.2	7.3	6.9	6.7	6.8	6.7	6.6	---
25	7.0	6.6	6.7	7.2	6.5	6.9	6.7	6.6	6.7	6.6	6.5	6.5
26	7.3	6.6	6.9	7.0	6.5	6.7	6.8	6.6	6.7	6.5	6.5	6.5
27	7.5	7.2	7.3	6.7	6.5	6.6	6.9	6.7	6.8	6.7	6.5	6.6
28	7.3	7.1	7.2	6.8	6.5	6.6	7.1	6.8	6.9	6.7	6.5	6.6
29	7.3	6.9	7.1	6.6	6.4	6.5	7.1	6.9	7.0	6.6	6.5	6.6
30	---	---	---	6.5	6.3	6.4	7.2	6.9	7.0	6.5	6.5	6.5
31	---	---	---	6.4	6.2	6.3	---	---	---	6.6	6.4	6.5
MONTH	7.5	6.4	6.8	8.0	6.2	6.9	7.2	6.2	6.7	---	---	---

01477050 DELAWARE RIVER AT CHESTER, PA--Continued

PH (UNITS), WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

DAY	JUNE			JULY			AUGUST			SEPTEMBER		
	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	6.9	6.5	6.7	6.4	6.4	6.4	7.2	7.1	7.1	6.6	6.6	6.6
2	6.8	6.6	6.7	6.5	6.4	6.4	7.1	7.1	7.1	6.6	6.6	6.6
3	6.6	6.6	6.6	6.4	6.4	6.4	7.1	7.1	7.1	6.6	6.5	6.6
4	6.6	6.6	6.6	6.4	6.3	6.3	7.1	6.8	7.0	6.6	6.5	6.5
5	6.7	6.6	6.6	6.4	6.3	6.4	6.9	6.8	6.8	6.6	6.5	6.5
6	6.6	6.5	6.6	6.4	6.3	6.4	6.8	6.7	6.8	6.6	6.5	6.5
7	6.9	6.6	6.7	6.6	6.3	6.5	6.8	6.7	6.7	6.6	6.5	6.5
8	6.8	6.7	6.7	6.6	6.6	6.6	6.7	6.7	6.7	6.6	6.4	6.5
9	6.8	6.6	6.7	6.6	6.6	6.6	6.7	6.6	6.6	6.5	6.4	6.4
10	6.7	6.6	6.6	6.6	6.6	6.6	6.6	6.6	6.6	6.5	6.4	6.4
11	6.6	6.5	6.6	6.6	6.6	6.6	6.7	6.6	---	6.5	6.4	6.4
12	6.6	6.5	6.5	6.6	6.6	6.6	---	---	---	6.5	6.4	6.4
13	6.5	6.5	6.5	6.6	6.3	6.5	---	---	---	6.5	6.3	6.4
14	6.7	6.5	6.6	6.4	6.4	6.4	---	---	---	6.5	6.4	6.5
15	6.8	6.6	6.6	6.4	6.4	6.4	---	---	---	6.5	6.4	6.5
16	6.8	6.6	6.7	6.4	6.4	6.4	6.6	6.5	---	6.6	6.5	6.5
17	6.7	6.6	6.6	6.5	6.3	6.4	6.6	6.5	6.5	6.6	6.5	6.5
18	6.7	6.6	6.6	---	---	---	6.6	6.5	6.5	6.5	6.5	6.5
19	6.7	6.6	6.7	---	---	---	6.7	6.5	6.6	6.5	6.5	6.5
20	6.7	6.6	6.7	7.0	6.9	---	6.6	6.5	6.6	6.5	6.5	---
21	6.7	6.6	6.6	6.9	6.8	6.9	6.6	6.5	6.5	---	---	---
22	6.6	6.5	6.6	7.3	6.8	6.8	6.6	6.5	6.5	---	---	---
23	6.7	6.5	6.5	6.8	6.8	6.8	6.7	6.5	6.6	---	---	---
24	6.6	6.5	6.5	7.0	6.7	6.8	6.6	6.5	6.6	---	---	---
25	6.6	6.5	6.5	7.1	7.0	7.0	6.6	6.5	6.5	---	---	---
26	6.7	6.6	6.6	7.2	7.1	7.1	6.7	6.4	6.6	---	---	---
27	6.7	6.6	6.6	7.3	7.3	7.3	6.7	6.6	6.6	---	---	---
28	6.7	6.5	6.6	7.4	7.2	7.3	6.6	6.6	6.6	---	---	---
29	6.6	6.4	6.5	7.3	7.2	7.2	6.6	6.5	6.6	---	---	---
30	6.5	6.4	6.4	7.2	7.1	7.1	6.6	6.6	6.6	---	---	---
31	---	---	---	7.2	7.1	7.1	6.6	6.6	6.6	---	---	---
MONTH	6.9	6.4	6.6	7.4	6.3	6.7	7.2	6.4	6.7	---	---	---

TEMPERATURE (C) OF WATER, 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	19.5	18.5	19.0	14.5	14.0	14.5	9.0	8.5	9.0	4.5	4.0	4.5
2	19.0	18.5	19.0	15.0	14.0	14.5	8.5	8.0	8.5	4.0	3.5	4.0
3	19.0	18.0	18.5	15.0	14.0	14.5	8.5	7.0	8.0	4.0	4.0	4.0
4	18.5	17.0	18.0	15.5	15.0	15.5	8.0	6.5	7.0	4.0	3.0	3.5
5	18.5	18.0	18.5	15.5	15.0	15.5	8.0	7.0	7.5	3.5	2.0	2.5
6	19.0	18.5	18.5	16.0	15.5	15.5	8.0	7.0	7.0	3.0	2.0	2.0
7	18.5	18.0	18.5	16.0	15.5	16.0	7.0	6.0	6.5	3.0	2.0	2.0
8	18.5	18.0	18.5	17.0	15.5	16.0	6.5	6.0	6.0	3.0	1.5	2.0
9	18.5	18.0	18.0	16.0	15.5	---	6.5	6.0	6.0	3.0	1.0	2.0
10	18.0	17.0	18.0	---	---	---	8.0	6.0	7.0	3.0	1.0	1.5
11	18.0	17.0	18.0	15.5	15.0	---	8.0	7.0	7.0	1.5	1.0	---
12	17.0	17.0	---	15.5	14.5	15.0	8.0	7.0	7.5	---	---	---
13	18.0	16.5	17.0	15.0	14.0	14.5	8.0	7.0	7.5	---	---	---
14	18.5	17.0	17.5	14.5	13.0	13.5	8.0	7.0	8.0	---	---	---
15	18.5	17.0	18.0	13.5	12.0	12.5	8.5	7.0	8.0	---	---	---
16	18.5	18.0	18.0	13.0	11.5	12.0	8.5	8.0	8.0	3.0	2.0	---
17	18.5	17.0	18.0	13.0	11.5	12.5	8.5	7.0	8.0	3.0	1.5	2.0
18	18.5	17.0	18.0	13.0	12.0	12.5	8.0	6.5	7.5	2.0	1.0	1.5
19	18.0	17.0	17.5	13.0	11.5	12.0	6.5	5.5	6.0	1.5	1.0	1.0
20	17.0	16.5	17.0	12.0	11.5	11.5	6.5	5.5	6.0	1.5	0.5	1.0
21	17.0	16.0	16.5	13.0	11.5	12.0	6.0	5.0	5.5	1.5	1.0	1.0
22	17.0	16.0	16.5	11.5	10.5	11.0	5.0	4.5	5.0	1.5	0.5	1.0
23	16.5	16.0	16.0	10.5	10.0	10.5	5.0	4.5	4.5	1.0	0.0	0.5
24	16.5	15.5	16.0	10.0	9.0	9.5	5.0	4.0	4.5	1.0	0.0	0.5
25	16.0	15.5	16.0	9.5	9.0	9.0	4.5	4.0	4.5	1.0	0.5	0.5
26	16.0	15.5	15.5	9.5	9.0	9.0	5.0	4.5	4.5	2.0	1.0	1.5
27	15.5	15.0	15.0	9.5	9.0	9.0	5.0	5.0	5.0	3.5	2.0	2.5
28	15.5	15.0	15.5	9.0	8.5	9.0	5.0	4.5	5.0	3.5	2.0	3.0
29	16.0	15.5	15.5	9.0	8.5	8.5	5.0	4.5	4.5	3.5	2.0	2.5
30	16.0	14.5	15.0	9.0	8.5	9.0	5.0	4.5	4.5	3.0	2.0	2.5
31	15.0	14.0	14.5	---	---	---	5.0	4.5	5.0	2.0	1.5	2.0
MONTH	19.5	14.0	17.0	17.0	8.5	12.5	9.0	4.0	6.5	4.5	0.0	2.0

DELAWARE RIVER BASIN

01477050 DELAWARE RIVER AT CHESTER, PA--Continued

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

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

01477050 DELAWARE RIVER AT CHESTER, PA--Continued

DISSOLVED OXYGEN (DO), 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	4.7	3.9	4.4	---	---	---	7.5	6.6	7.0	10.7	9.1	10.0
2	4.2	3.8	4.0	---	---	---	7.4	6.8	7.1	11.1	10.0	10.4
3	4.2	3.8	4.0	---	---	---	7.6	6.9	7.1	11.1	10.1	10.6
4	4.0	3.7	3.8	3.7	3.2	---	7.7	7.0	7.3	11.0	10.2	10.5
5	3.6	3.4	---	3.3	2.8	3.1	7.4	6.7	7.1	10.4	9.7	10.1
6	---	---	---	3.3	2.7	3.0	7.1	6.7	6.9	10.1	9.5	9.8
7	---	---	---	2.9	2.5	2.7	7.3	6.7	7.0	10.0	9.5	9.7
8	---	---	---	2.9	2.3	2.6	7.3	6.7	7.0	10.1	9.3	9.8
9	---	---	---	2.8	2.6	---	7.6	6.9	7.3	10.3	9.5	9.8
10	---	---	---	---	---	---	8.0	7.1	7.6	10.1	9.5	9.8
11	---	---	---	3.2	2.7	---	8.1	7.5	7.9	10.1	9.5	9.8
12	---	---	---	3.2	2.5	2.7	7.9	7.4	7.8	9.9	9.5	9.7
13	---	---	---	3.5	2.9	3.1	7.9	7.4	7.7	---	---	---
14	---	---	---	4.6	3.2	3.8	7.7	6.9	7.3	9.9	9.5	---
15	---	---	---	5.5	4.3	5.0	7.3	6.7	7.1	9.9	9.5	---
16	---	---	---	5.6	5.0	5.2	7.3	6.7	6.9	10.9	9.5	10.3
17	---	---	---	5.4	4.9	5.2	7.7	6.7	7.2	10.9	10.4	10.6
18	---	---	---	5.5	5.1	5.3	8.4	7.3	7.7	11.0	10.5	10.7
19	---	---	---	5.5	4.9	5.2	9.0	7.7	8.5	10.9	10.4	10.6
20	---	---	---	5.2	4.8	5.0	9.3	7.9	8.7	10.9	10.1	10.4
21	---	---	---	6.3	4.8	5.6	9.3	8.5	8.8	10.3	9.9	10.1
22	---	---	---	6.4	5.9	6.1	9.9	8.9	9.3	10.8	9.9	10.2
23	---	---	---	6.2	5.8	6.0	10.0	9.1	9.4	10.8	10.2	10.5
24	---	---	---	6.9	5.8	6.3	9.9	8.9	9.4	10.6	10.1	10.2
25	---	---	---	6.7	6.5	6.6	9.7	9.1	9.3	10.3	10.1	10.2
26	---	---	---	6.7	6.4	6.6	10.2	9.1	9.7	10.2	9.9	10.0
27	---	---	---	6.9	6.4	6.7	10.0	9.1	9.5	10.5	9.8	10.0
28	---	---	---	7.0	6.7	6.8	10.0	8.9	9.3	11.9	10.6	11.1
29	---	---	---	7.0	6.5	6.7	9.9	8.7	9.3	12.4	11.7	12.1
30	---	---	---	6.7	6.3	6.5	9.7	9.3	8.9	12.2	11.9	12.0
31	---	---	---	---	---	---	9.3	8.3	9.0	12.0	11.7	11.9
MONTH	---	---	---	7.0	2.3	---	10.2	6.6	8.1	12.4	9.1	10.4
DAY	FEBRUARY			MARCH			APRIL			MAY		
	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	12.0	11.7	11.8	9.7	9.2	9.4	6.5	5.8	6.1	6.9	4.7	5.7
2	12.6	11.7	12.0	9.8	9.4	9.6	6.1	5.6	5.8	5.6	3.6	4.4
3	12.6	12.3	12.4	9.9	9.3	9.6	6.4	5.6	6.1	3.7	2.8	3.3
4	12.5	12.3	12.4	9.7	8.9	9.2	6.3	5.9	6.1	4.1	2.6	3.2
5	12.4	12.1	12.3	9.1	7.8	8.4	6.9	6.2	6.5	4.9	3.2	3.9
6	12.3	11.9	12.1	8.3	7.6	7.8	7.0	6.5	6.7	5.2	4.1	4.5
7	12.0	11.8	11.9	8.0	7.5	7.7	7.3	6.6	6.8	5.1	4.0	4.4
8	12.1	11.8	11.9	8.0	7.6	7.8	7.3	6.0	6.5	5.3	4.1	4.6
9	11.9	11.7	11.8	8.3	7.8	8.0	7.0	6.3	6.6	5.6	4.1	4.9
10	11.8	11.5	11.6	8.4	8.1	8.2	6.8	6.5	6.6	5.9	4.1	5.1
11	11.6	11.2	11.4	8.4	8.0	8.2	6.9	6.5	6.6	6.1	4.3	5.3
12	11.5	11.2	11.3	8.1	7.8	7.9	7.5	6.7	7.0	5.9	4.2	5.2
13	11.3	10.9	11.1	8.6	7.9	8.2	7.5	6.7	7.0	5.7	4.0	4.9
14	11.2	10.8	10.9	8.6	8.2	8.4	6.7	6.4	6.6	5.4	3.8	4.7
15	10.9	10.7	10.8	8.3	7.8	8.1	6.8	5.9	6.2	5.3	3.8	4.5
16	10.9	10.3	10.6	8.2	7.8	8.0	6.3	5.6	6.0	5.2	3.3	4.2
17	10.3	9.9	10.1	9.5	8.1	8.7	5.8	5.3	5.5	4.6	3.2	3.8
18	10.1	9.6	9.8	9.3	8.8	9.0	5.6	4.9	5.3	4.1	3.3	3.5
19	9.7	9.2	9.4	9.0	8.6	8.8	5.3	4.6	5.0	5.0	3.1	3.8
20	9.7	9.3	9.4	8.6	8.0	8.3	5.1	4.1	4.7	6.4	4.0	4.8
21	9.6	9.3	9.5	8.4	7.9	8.1	5.0	4.1	4.6	5.9	4.5	5.1
22	9.6	9.2	9.4	8.3	7.9	8.0	5.5	4.0	4.7	6.2	4.4	5.2
23	10.1	9.3	9.8	8.1	7.4	7.7	5.3	3.8	4.5	5.8	3.9	4.9
24	10.5	10.0	10.2	7.4	7.0	7.2	5.7	3.9	4.8	5.3	3.8	4.6
25	10.3	9.9	10.1	7.1	6.7	6.9	5.9	3.8	4.7	4.5	3.6	4.1
26	10.3	9.6	9.9	6.9	6.3	6.6	5.4	3.5	4.8	4.4	3.5	3.9
27	10.0	9.5	9.7	6.8	6.2	6.5	6.3	4.4	5.4	4.5	3.1	3.6
28	10.0	9.3	9.6	6.8	6.5	6.6	7.4	5.2	6.1	4.2	2.9	3.5
29	9.9	9.3	9.6	6.7	6.1	6.4	7.7	5.3	6.5	4.0	3.0	3.6
30	---	---	---	6.3	5.7	5.9	7.7	5.5	6.5	3.9	3.2	3.4
31	---	---	---	6.0	5.6	5.8	---	---	---	3.9	2.7	3.2
MONTH	12.6	9.2	10.8	9.9	5.6	7.9	7.7	3.5	5.9	6.9	2.6	4.3

DELAWARE RIVER BASIN

01477050 DELAWARE RIVER AT CHESTER, PA--Continued

DISSOLVED OXYGEN (DO), WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

DAY	JUNE			JULY			AUGUST			SEPTEMBER		
	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	3.8	2.7	3.1	1.2	.1	.6	1.3	.3	.7	2.6	1.0	1.6
2	3.2	2.8	3.0	1.6	.1	.7	1.9	.6	1.1	1.8	1.2	1.4
3	3.3	2.4	2.9	1.6	.3	.8	2.6	.9	1.4	2.1	.9	1.5
4	3.6	2.7	3.0	1.5	.2	.6	2.8	.9	1.6	2.3	1.3	1.7
5	4.4	2.8	3.4	1.6	.1	.6	3.5	1.2	1.9	2.3	1.5	1.9
6	3.7	2.7	3.1	1.6	.1	.5	2.9	1.4	2.1	2.3	1.4	1.8
7	3.8	2.6	3.0	2.6	.1	.9	2.3	1.3	1.7	2.5	1.5	1.8
8	3.1	2.2	2.7	2.2	.3	1.2	1.7	1.1	1.4	2.6	1.1	1.8
9	2.6	1.7	2.1	1.6	.2	.7	1.6	.8	1.0	2.9	1.4	2.0
10	2.1	1.4	1.7	1.6	.1	.6	2.5	1.2	1.9	2.7	1.3	1.9
11	1.8	1.2	1.4	1.8	0	.8	1.6	1.2	---	3.1	1.3	2.1
12	2.0	1.1	1.4	1.6	.3	.8	---	---	---	3.2	2.0	2.5
13	1.8	1.1	1.4	1.6	.5	1.0	---	---	---	3.0	1.5	2.3
14	2.1	1.0	1.5	1.7	.8	1.4	---	---	---	2.7	1.2	1.9
15	2.0	1.3	1.5	1.6	.9	1.2	---	---	---	2.2	1.0	1.6
16	2.4	1.1	1.6	1.1	.6	.8	2.1	1.2	---	2.9	1.1	2.1
17	2.2	1.5	1.8	1.2	.2	.7	2.3	.8	1.5	2.6	1.5	2.0
18	1.6	1.2	1.3	---	---	---	2.4	1.1	1.6	1.9	1.2	1.5
19	1.3	.8	1.0	---	---	---	3.2	1.4	2.0	1.9	1.1	1.5
20	1.6	.7	1.0	3.4	2.2	---	3.0	1.6	2.1	1.6	1.0	---
21	2.0	.9	1.3	2.8	2.0	2.3	2.9	1.4	1.9	---	---	---
22	1.7	1.0	1.3	2.3	1.2	1.8	2.6	1.2	1.7	---	---	---
23	1.5	.6	.8	2.1	1.5	1.8	2.4	1.1	1.6	---	---	---
24	1.4	.3	.6	2.1	1.0	1.4	2.4	1.2	1.7	---	---	---
25	1.4	.4	.8	2.0	.6	1.3	2.3	1.2	1.7	---	---	---
26	1.1	.4	.7	2.1	.8	1.5	2.2	1.2	1.6	---	---	---
27	1.2	.3	.6	2.5	1.2	1.8	1.6	1.0	1.3	---	---	---
28	1.0	.2	.5	2.3	1.1	1.5	1.0	.5	.7	---	---	---
29	.7	0	.4	1.6	.8	1.2	.9	.4	.7	---	---	---
30	1.2	0	.5	1.2	.4	.8	1.4	.6	1.0	---	---	---
31	---	---	---	.7	.2	.5	1.7	.7	1.2	---	---	---
MONTH	4.4	0	1.6	3.4	0	1.1	3.5	.3	1.5	---	---	---

DELAWARE RIVER BASIN

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01477200 DELAWARE RIVER AT MARCUS HOOK, PA

LOCATION.--Lat 39°48'01", long 75°25'10", Delaware County, Hydrologic Unit 02040202, at center of river on a line from the water end of the Maritime Exchange reporting station pier through channel station +128.7 to vertical lift bridge over Oldmans Creek.

DRAINAGE AREA.--10,400 mi² (26,900 km²).

PERIOD OF RECORD.--August 1949 to May 1969, October 1969 to September 1972, December 1973 to current year.

REMARKS.--Samples collected about 5 to 15 ft (2 to 5 m) from bottom. Further information on this station is given in U.S. Geological Survey Water-Supply Paper 1809-0.

WATER QUALITY DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

DATE	TIME	SPECIFIC CONDUCTANCE (MICRO-MHOS)	TEMPERATURE (DEG C)	HARDNESS (CA, MG) (MG/L)	NON-CARBONATE HARDNESS (MG/L)	DIS-SOLVED CALCIUM (CA) (MG/L)	DIS-SOLVED MAGNESIUM (MG/L)	DIS-SOLVED SODIUM (NA) (MG/L)	DIS-SOLVED POTASSIUM (K) (MG/L)	BICARBONATE (HCO3) (MG/L)	ALKALINITY AS CaCO3 (MG/L)	DIS-SOLVED SULFATE (SO4) (MG/L)
OCT 02...	0830	169	17.5	66	34	18	5.2	7.7	2.3	40	33	26
JAN 20...	0830	256	1.5	74	40	19	6.5	18	2.5	42	34	42
FEB 05...	0830	151	1.5	53	30	15	3.7	7.9	1.6	28	23	24
MAR 04...	0800	162	6.5	50	27	13	4.3	9.2	1.8	28	23	28
APR 01...	0825	230	10.0	85	56	24	6.2	14	2.2	36	30	37
MAY 06...	0815	252	15.5	77	39	19	7.2	16	2.6	46	38	41
JUN 10...	0830	228	21.0	68	44	17	6.1	16	2.5	29	24	40
JUL 01...	0805	306	25.5	86	56	22	7.5	21	3.0	36	30	57
AUG 13...	0820	299	25.5	88	53	23	7.5	21	3.0	43	35	53
SEP 02...	0855	1140	23.5	170	140	28	25	160	8.2	44	36	85

DATE	DIS-SOLVED CHLORIDE (CL) (MG/L)	DIS-SOLVED FLUORIDE (F) (MG/L)	DIS-SOLVED SILICA (SI02) (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 IRON (FE) (UG/L)	DIS-SOLVED MANGANESE (MN) (UG/L)
OCT 02...	10	.2	6.1	115	106	2.3	.07	2.4	.07	110	80
JAN 20...	26	.1	7.3	158	150	1.6	.06	1.7	.10	210	150
FEB 05...	13	.1	5.1	79	93	2.0	.01	2.0	.06	120	110
MAR 04...	14	.1	5.2	106	98	1.9	.05	1.9	.07	140	100
APR 01...	20	.1	5.6	132	142	3.2	.12	3.3	.09	120	150
MAY 06...	22	.2	.1	144	137	1.2	.09	1.3	.06	50	110
JUN 10...	20	.2	.3	145	158	9.3	.12	9.4	.06	90	100
JUL 01...	28	.2	.3	199	169	2.5	.15	2.6	.07	20	70
AUG 13...	27	.2	.6	188	165	1.6	.22	1.8	.08	20	80
SEP 02...	280	.3	.8	708	619	2.2	.06	2.3	.05	20	30

DELAWARE RIVER BASIN

01480000 RED CLAY CREEK AT WOODDALE, DE

LOCATION.--Lat 39°45'52", long 75°38'08", New Castle County, Hydrologic Unit 02040205, on right bank 12 ft (4 m) upstream from bridge on State Highway 48, 0.3 mi (0.5 km) south of Wooddale, 2.3 mi (3.7 km) north of Marshallton, and 4.9 mi (7.9 km) upstream from mouth.

DRAINAGE AREA.--47.0 mi² (121.7 km²).

WATER-DISCHARGE RECORDS

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

REVISED RECORDS.--WSP 1141: 1948. WSP 1272: 1951(M). WSP 1432: 1944(M), 1945, 1946(M), 1948, 1949(M). WSP 2102: 1960(M), 1964(M), 1966-67(M).

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

REMARKS.--Water-discharge records good. Some diurnal fluctuation at low flow caused by mills above station.

AVERAGE DISCHARGE.--33 years, 64.3 ft³/s (1.821 m³/s), 18.58 in/yr (472 mm/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 5,010 ft³/s (142 m³/s) July 21, 1975, gage height, 10.32 ft (3.146 m); minimum, 2.9 ft³/s (0.082 m³/s) Sept. 4, 1966; minimum daily, 4.5 ft³/s (0.13 m³/s) Sept. 4, 1966.

EXTREMES FOR CURRENT YEAR.--Peak discharges above base of 1,200 ft³/s (34 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	0800	*1540 43.6	5.36 1.634	Jan. 27	2115	1390 39.4	5.14 1.567

Minimum discharge, 4.5 ft³/s (0.13 m³/s) June 11, Aug. 23, 24, 25, result of regulation; minimum daily, 16 ft³/s (0.45 m³/s) Sept. 9, 13, 14, 15.

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	50	65	371	106	69	205	180	42	29	35	19
2	54	51	60	119	233	67	93	126	120	25	25	22
3	49	50	58	161	101	68	76	55	46	27	27	22
4	49	49	56	125	93	69	86	47	36	37	26	20
5	48	48	56	80	90	71	77	44	33	28	25	20
6	47	47	56	73	85	74	70	43	31	24	25	18
7	45	48	55	91	76	66	66	48	31	25	26	17
8	45	78	53	190	75	64	66	40	30	25	43	18
9	47	54	56	85	74	70	64	38	29	26	46	16
10	50	66	61	73	80	79	61	39	28	23	109	21
11	66	90	54	62	120	99	60	34	28	161	38	21
12	68	176	53	73	89	93	57	54	26	48	32	17
13	50	347	53	88	83	163	58	38	24	32	29	16
14	48	109	53	225	85	101	57	37	26	30	83	16
15	45	81	53	78	76	81	57	37	28	28	39	16
16	44	72	55	68	83	91	57	38	28	28	33	39
17	48	68	51	60	95	92	55	44	53	26	28	38
18	123	66	51	55	90	73	55	83	34	22	26	24
19	498	64	45	49	126	73	53	60	34	21	24	20
20	117	63	47	60	84	70	53	41	30	21	24	19
21	80	127	49	64	77	70	53	40	54	21	23	20
22	67	93	48	60	165	70	54	35	54	25	22	20
23	63	71	47	56	110	64	53	34	43	23	22	18
24	60	67	45	60	87	64	48	32	34	33	23	18
25	64	64	44	64	84	63	51	32	32	22	19	18
26	60	62	256	200	79	62	75	32	30	20	21	24
27	58	65	103	591	76	61	52	32	27	20	27	25
28	57	61	71	293	73	65	49	30	28	19	27	23
29	55	59	62	121	70	60	48	31	26	47	22	19
30	54	59	66	100	---	60	47	47	26	195	19	29
31	50	---	122	88	---	60	---	38	---	40	20	---
TOTAL	2264	2405	2004	3883	2765	2332	1956	1509	1091	1151	988	633
MEAN	73.0	80.2	64.6	125	95.3	75.2	65.2	48.7	36.4	37.1	31.9	21.1
MAX	498	347	256	591	233	163	205	180	120	195	109	39
MIN	44	47	44	49	70	60	47	30	24	19	19	16
CFSM	1.55	1.71	1.37	2.66	2.03	1.60	1.39	1.04	.77	.79	.68	.45
IN.	1.79	1.90	1.59	3.07	2.19	1.85	1.55	1.19	.86	.91	.78	.50

CAL YR 1975 TOTAL 39537 MEAN 108 MAX 1630 MIN 44 CFSM 2.30 IN 31.29
WTR YR 1976 TOTAL 22981 MEAN 62.8 MAX 591 MIN 16 CFSM 1.34 IN 18.19

DELAWARE RIVER BASIN

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01480000 RED CLAY CREEK AT WOODDALE, DE--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--April 1953 to current year.

PERIOD OF DAILY RECORD.--

WATER TEMPERATURES: April 1953 to current year.

EXTREMES FOR PERIOD OF DAILY RECORD.--

WATER TEMPERATURES: Maximum, 30.5°C July 17, Aug. 2, 6, 1955, July 19, 1963; minimum, 0.0°C on many days during winter periods.

EXTREMES FOR CURRENT YEAR.--

WATER TEMPERATURES: Maximum, 26.5°C June 26; minimum, 0.0°C on many days during winter periods.

WATER QUALITY DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

DATE	TIME	INSTANTANEOUS DIS- CHARGE (CFS)	SPE- CIFIC CON- DUCT- ANCE (MICRO- MHOS)	PH (UNITS)	TEMPER- ATURE (DEG C)	DIS- SOLVED OXYGEN (MG/L)
OCT						
28...	1145	58	306	7.3	15.5	--
NOV						
28...	1120	62	256	7.8	7.0	--
DEC						
29...	1335	61	281	7.9	2.4	--
JAN						
21...	0925	64	310	7.3	.0	--
FEB						
27...	1140	78	165	7.5	8.6	--
APR						
12...	1215	54	223	7.8	7.5	14.0
MAY						
18...	1430	88	244	7.7	18.6	--
JUN						
02...	1340	137	242	7.4	17.5	--
28...	1010	30	254	7.6	24.0	--
AUG						
13...	1235	29	370	7.1	24.0	7.7

DELAWARE RIVER BASIN

01480000 RED CLAY CREEK AT WOODDALE, DE--Continued

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

DELAWARE RIVER BASIN

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01480300 WEST BRANCH BRANDYWINE CREEK NEAR HONEY BROOK, PA

LOCATION.--Lat 40°04'22", long 75°51'40", Chester County, Hydrologic Unit 02040205, at right upstream end of bridge on Legislative Route 15185, at Birdell, 0.4 mi (0.6 km) downstream from Two Log Run, and 3.0 mi (4.8 km) southeast of Honey Brook.

DRAINAGE AREA.--18.7 sq mi (48.4 sq km).

PERIOD OF RECORD.--June 1960 to current year.

REVISED RECORDS.--WDR PA-73: 1972(P).

GAGE.--Water-stage recorder and crest-stage gage. Datum of gage is 591.20 ft (180.198 m) above mean sea level.

REMARKS.--Records good.

AVERAGE DISCHARGE.--16 years, 24.1 ft³/s (0.683 m³/s), 17.51 in/yr (445 mm/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 8,140 ft³/s (231 m³/s) June 22, 1972, gage height, 11.41 ft (3.478 m), from rating curve extended above 1,900 ft³/s (53.8 m³/s) on basis of slope-area measurement of peak flow; minimum, 1.7 ft³/s (0.048 m³/s) Aug. 15, 16, 17, 18, 19, 1963, gage height, 1.09 ft (0.332 m).

EXTREMES FOR CURRENT YEAR.--Peak discharges above base of 500 ft³/s (14.2 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. 26	1745	*952 27.0	*7.13 2.173	July 11	1530	794 22.5	6.68 2.036
Jan. 27	2145	788 22.3	6.66 2.030	Aug. 27	1415	590 16.7	6.00 1.829
June 2	0315	560 15.9	5.90 1.798				

Minimum discharge, 5.4 ft³/s (0.15 m³/s) Dec. 22, gage height, 1.11 ft (0.338 m) result of freeze-up.

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	22	20	24	215	40	24	142	31	33	26	12	11
2	21	21	23	46	69	24	36	27	213	12	11	11
3	20	21	22	58	38	24	27	17	25	15	10	11
4	20	21	20	55	29	28	28	15	17	31	9.4	10
5	19	20	20	30	28	28	24	15	15	24	9.6	10
6	19	20	21	28	26	27	22	14	14	12	11	9.6
7	18	19	20	29	23	24	20	14	14	17	19	9.2
8	18	29	19	43	23	23	20	13	13	18	23	8.9
9	19	22	21	20	22	23	19	13	12	13	27	8.8
10	21	36	23	21	26	27	18	13	12	11	56	12
11	32	35	20	22	88	33	18	13	13	259	17	10
12	35	77	19	23	33	31	17	22	12	28	14	9.8
13	22	171	19	24	32	112	17	14	11	18	12	9.6
14	20	41	19	144	30	37	17	13	11	16	19	9.1
15	19	29	20	30	26	29	17	13	11	15	13	9.1
16	18	27	24	25	32	30	17	21	11	14	13	74
17	20	25	20	21	55	28	16	22	29	14	11	37
18	79	25	19	19	45	24	16	23	13	12	10	47
19	207	24	16	18	63	25	16	18	12	12	9.7	17
20	66	24	16	17	34	24	15	14	11	11	9.7	15
21	35	30	16	17	29	24	16	16	22	12	9.4	15
22	28	31	15	16	59	24	15	15	33	12	9.2	15
23	25	27	15	16	33	22	15	13	19	13	8.9	13
24	24	23	16	16	28	22	15	12	13	15	8.7	13
25	27	22	16	17	28	22	15	12	13	12	8.7	13
26	25	22	130	309	27	22	18	12	11	11	8.6	13
27	25	24	38	406	26	22	15	13	10	11	200	15
28	23	22	24	193	24	31	15	11	10	11	23	16
29	22	21	21	42	23	23	14	12	13	37	15	13
30	22	22	24	33	---	22	14	16	51	87	12	17
31	20	---	56	29	---	22	---	15	---	15	11	---
TOTAL	991	951	776	1982	1039	881	674	492	697	814	631.3	482.1
MEAN	32.0	31.7	25.0	63.9	35.8	28.4	22.5	15.9	23.2	26.3	20.4	16.1
MAX	207	171	130	406	88	112	142	31	213	259	200	74
MIN	18	19	15	16	22	22	14	11	10	11	8.6	8.8
CFSM	1.71	1.70	1.34	3.42	1.91	1.52	1.20	.85	1.24	1.41	1.09	.86
IN.	1.97	1.89	1.54	3.94	2.07	1.75	1.34	.98	1.39	1.62	1.26	.96

CAL YR 1975	TOTAL	13947.0	MEAN	38.2	MAX	800	MIN	10	CFSM	2.04	IN	27.74
WTR YR 1976	TOTAL	10410.4	MEAN	28.4	MAX	406	MIN	8.6	CFSM	1.52	IN	20.71

01480500 WEST BRANCH BRANDYWINE CREEK AT COATESVILLE, PA

LOCATION.--Lat 39°59'08", long 75°49'40", Chester County, Hydrologic Unit 02040205, on right bank at city limits of Coatesville, 1,200 ft (366 m) upstream from bridge on old Lincoln Highway, and 0.6 mi (1.0 km) downstream from Rock Run.

DRAINAGE AREA.--45.8 mi² (118.6 km²).

PERIOD OF RECORD.--October 1943 to December 1951, January 1970 to current year.

GAGE.--Water-stage recorder and V-notch sharp crested weir. Altitude of gage is 305 ft (93.0 m) from topographic map. Sept. 10, 1943 to Dec. 31, 1951, nonrecording gage at site 1,100 ft (335 m) downstream at different datum.

REMARKS.--Records good. Diversion above station from Rock Run Reservoir (capacity, 320 mil gal or 1.211 hm³), 2.6 mi (4.2 km) upstream, for municipal supply of city of Coatesville.

AVERAGE DISCHARGE.--14 years (1943-51, 1970-76), 73.0 ft³/s (2.07 m³/s), 21.64 in/yr (550 mm/yr), adjusted for storage and diversion.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 8,100 ft³/s (229 m³/s) June 29, 1973, gage height, 10.08 ft (3.072 m), from rating curve extended above 2,200 ft³/s (62.3 m³/s) on basis of slope-area measurement at gage height 9.92 ft (3.024 m); minimum observed, 4.6 ft³/s (0.13 m³/s) Sept. 10, 1944, gage height, 0.70 ft (0.213 m). site and datum then in use; minimum daily, 9.6 ft³/s (0.27 m³/s) Sept. 12, 1949.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood of Aug. 9, 1942 reached a stage of 12.3 ft (3.75 m), site and datum then in use, discharge, 8,600 ft³/s (244 m³/s), by slope-area measurement.

EXTREMES FOR CURRENT YEAR.--Peak discharges above base of 700 ft³/s (19.8 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	878 24.9	5.76 1.756	June 1	2315	966 27.4	5.87 1.789
Jan. 1	0445	753 21.3	5.59 1.704	July 11	1145	1,480 41.9	6.38 1.945
Jan. 26	2315	*1,530 43.3	*6.42 1.957	July 29	2145	1,020 28.9	5.93 1.807
Jan. 28	0230	1,040 29.5	5.96 1.817	Aug. 27	1000	823 23.3	5.69 1.734

Minimum discharge, 14 ft³/s (0.40 m³/s) July 21, gage height, 3.58 ft (1.091 m); minimum daily, 19 ft³/s (0.54 m³/s) Sept. 9, 14, 15.

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	55	55	442	109	57	355	76	107	70	33	26
2	52	55	53	120	189	55	109	86	358	33	29	26
3	50	56	48	140	92	57	79	48	72	27	25	26
4	48	57	46	133	84	67	74	43	46	44	22	24
5	48	54	46	64	79	65	68	41	39	50	22	24
6	49	52	46	58	76	65	60	39	36	30	22	23
7	48	53	46	62	67	56	57	39	36	32	38	21
8	47	72	45	106	67	51	56	38	31	42	39	21
9	50	58	46	60	63	54	55	36	29	36	173	19
10	56	81	53	51	67	58	53	35	26	27	145	26
11	81	92	46	52	159	72	52	35	28	423	45	27
12	105	116	44	55	97	80	50	50	27	107	37	21
13	55	304	44	59	75	194	50	39	26	37	33	21
14	51	112	44	264	78	102	50	38	25	34	79	19
15	51	72	45	87	64	70	49	36	26	33	37	19
16	49	65	50	63	72	68	48	37	26	33	38	89
17	56	57	46	57	111	72	47	55	56	35	32	104
18	157	55	45	45	104	56	46	55	35	29	26	69
19	431	53	36	43	143	59	45	49	32	25	25	36
20	148	53	35	42	83	56	44	39	39	23	24	31
21	97	63	35	41	69	58	44	44	71	22	24	31
22	72	69	34	40	129	58	44	39	70	25	23	31
23	64	53	34	40	94	53	43	34	66	26	22	26
24	62	51	33	40	69	53	41	32	38	34	21	24
25	66	50	37	47	68	52	42	30	32	27	20	23
26	65	48	238	416	65	50	47	32	26	22	20	25
27	63	53	113	747	64	52	43	32	23	20	308	30
28	60	51	63	474	60	71	40	30	25	20	72	31
29	59	46	53	125	58	54	40	27	36	170	37	26
30	58	48	54	100	---	51	39	42	64	206	31	30
31	54	---	114	84	---	51	---	38	---	39	27	---
TOTAL	2404	2104	1727	4157	2555	2017	1870	1294	1551	1781	1529	949
MEAN	77.5	70.1	55.7	134	88.1	65.1	62.3	41.7	51.7	57.5	49.3	31.6
MAX	431	304	238	747	189	194	355	86	358	423	308	104
MIN	47	46	33	40	58	50	39	27	23	20	20	19
(f)	3.62	3.82	3.63	3.62	4.01	3.39	3.87	3.63	3.88	3.64	3.60	3.88
MEAN#	81.1	73.9	59.3	138	92.1	68.5	66.2	45.3	55.6	61.1	52.9	35.5
CFSM#	1.77	1.61	1.29	3.01	2.01	1.50	1.45	.99	1.21	1.33	1.16	.78
IN.#	2.04	1.80	1.49	3.47	2.17	1.73	1.62	1.14	1.35	1.53	1.34	.87

CAL YR 1975 TOTAL 32959 MEAN 90.3 MAX 1300 MIN 26 MEAN# 94.0 CFSM# 2.05 IN.# 27.88
WTR YR 1976 TOTAL 23938 MEAN 65.4 MAX 747 MIN 19 MEAN# 69.1 CFSM# 1.51 IN.# 20.55

/ Diversion for municipal supply and change in contents in Rock Run Reservoir, equivalent in cubic feet per second, furnished by city of Coatesville.

Adjusted for diversion and change in reservoir contents.

DELAWARE RIVER BASIN

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01480617 WEST BRANCH BRANDYWINE CREEK AT MODENA, PA

LOCATION.--Lat 39°57'42", long 75°48'06", Chester County, Hydrologic Unit 02040205, on left bank at bridge on Legislative Route 15068 at Modena and 300 ft (91 m) upstream from Dennis Run.
DRAINAGE AREA.--55.0 mi² (142.4 km²).

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--January 1970 to current year.

REVISED RECORDS.--WDR PA-74: 1971-72(P), 1973. WDR PA-75-1: 1974(m).

GAGE.--Water-stage recorder. Altitude of gage is 265 ft (80.8 m) from topographic map.

REMARKS.--Records good. Flow regulated by Rock Run Reservoir, capacity, 320 mil gal (1.211 hm³) 5.6 mi (9.0 km) upstream and by Lukens Steel Company.AVERAGE DISCHARGE.--6 years, 104 ft³/s (2.95 m³/s), 25.78 in/yr (655 mm/yr), adjusted for storage.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 9,600 ft³/s (272 m³/s) June 29, 1973, gage height, 12.47 ft (3.801 m) from rating curve extended above 920 ft³/s (26.1 m³/s) on basis of slope-area measurement at gage height, 11.48 ft (3.499 m); minimum, 1.8 ft³/s (0.051 m³/s) Aug. 29, 1974; minimum gage height, 2.27 ft (0.692 m) Oct. 14, 1970.

EXTREMES FOR CURRENT YEAR.--Peak discharges above base of 840 ft³/s (23.8 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	0800	1,330 37.7	5.72 1.743	June 1	2400	1,450 41.1	5.88 1.792
Jan. 1	0500	1,100 31.2	5.38 1.640	July 1	1200	*2,260 64.0	*6.87 2.094
Jan. 26	2300	2,230 63.2	6.83 2.082	July 29	2215	1,950 55.2	6.50 1.981
Jan. 27	1945	1,700 48.1	6.19 1.887	Aug. 27	1045	1,230 34.8	5.57 1.698
Apr. 1	0500	986 27.9	5.21 1.588				

Minimum discharge, 4.3 ft³/s (0.12 m³/s) Sept. 9, gage height, 2.47 ft (0.753 m); minimum daily, 22 ft³/s (0.62 m³/s) Sept. 7.

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	66	74	74	613	154	76	541	100	114	83	50	39
2	60	74	72	151	283	74	145	118	539	45	44	38
3	58	74	66	175	126	76	106	67	96	39	40	38
4	57	72	63	172	118	90	98	58	63	52	39	37
5	55	66	70	86	110	86	94	57	51	59	34	39
6	52	66	55	80	108	88	82	52	47	40	41	39
7	55	65	63	88	94	74	79	53	47	45	60	22
8	51	84	60	136	94	70	76	51	42	56	59	33
9	58	74	63	80	90	74	75	50	41	46	253	33
10	60	92	70	68	90	80	72	48	39	38	191	42
11	101	110	61	68	202	94	71	47	41	712	71	38
12	139	148	60	76	136	106	69	74	38	171	54	31
13	66	397	58	82	103	242	65	53	37	58	48	32
14	58	136	58	374	103	134	66	51	37	53	96	32
15	57	92	60	115	88	92	66	48	37	49	57	30
16	54	84	68	88	94	90	67	51	37	47	63	141
17	57	78	62	76	139	91	64	72	80	54	44	144
18	179	78	60	60	136	75	63	81	46	44	25	91
19	592	74	50	59	185	79	61	66	43	40	37	52
20	220	72	49	58	110	78	60	51	64	40	37	43
21	113	88	48	57	92	77	60	64	101	46	36	42
22	84	90	47	56	169	79	60	56	86	41	36	43
23	78	74	46	56	128	67	58	51	85	42	36	39
24	74	70	46	56	92	72	55	47	49	58	33	37
25	82	70	50	61	92	71	59	45	44	40	34	34
26	78	66	340	582	88	69	66	48	39	37	34	41
27	76	72	170	1180	86	73	58	47	37	35	436	42
28	70	72	92	688	82	91	55	43	37	35	119	42
29	61	65	73	179	78	71	54	42	46	294	53	38
30	63	65	74	139	---	67	53	62	85	317	43	50
31	63	---	128	118	---	68	---	52	---	62	34	---
TOTAL	2937	2742	2356	5877	3470	2674	2598	1805	2148	2778	2245	1402
MEAN	94.7	91.4	76.0	190	120	86.3	86.6	58.2	71.6	89.6	72.4	46.7
MAX	592	397	340	1180	283	242	541	118	539	712	436	144
MIN	51	65	46	56	78	67	53	42	37	35	25	22
(f)	-.08	+.08	+.01	-.13	+.39	-.36	+.12	-.12	+.12	+.04	-.15	+.14
MEAN#	94.6	91.5	76.0	190	120	85.9	86.7	58.1	71.7	89.6	72.2	46.8
CFSM#	1.72	1.66	1.38	3.45	2.18	1.56	1.58	1.06	1.30	1.63	1.31	.85
IN.#	1.98	1.85	1.59	3.98	2.35	1.80	1.76	1.22	1.45	1.88	1.51	.95

CAL YR 1975	TOTAL	45759	MEAN 125	MAX 1900	MIN 41	MEAN# 125	CFSM# 2.27	IN.# 30.95
WTR YR 1976	TOTAL	33032	MEAN 90.3	MAX 1180	MIN 22	MEAN# 90.3	CFSM# 1.64	IN.# 22.34

/ Change in contents in Rock Run Reservoir, equivalent in cubic feet per second, furnished by city of Coatesville.
Adjusted for change in reservoir contents.

DELAWARE RIVER BASIN

01480617 WEST BRANCH BRANDYWINE CREEK AT MODENA, PA--Continued

WATER-QUALITY RECORDS

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

PERIOD OF DAILY RECORD.--

SPECIFIC CONDUCTANCE: May 1971 to current year.

pH: May 1971 to current year.

WATER TEMPERATURES: May 1971 to current year.

DISSOLVED OXYGEN: May 1971 to current year.

EXTREMES FOR PERIOD OF DAILY RECORD.--

SPECIFIC CONDUCTANCE: Maximum, 705 micromhos Mar. 10, 1976; minimum, 97 micromhos Nov. 25, 1971.

pH: Maximum, 10.0 Dec. 21, 1971; minimum, 6.3 April 3, 1975.

WATER TEMPERATURES: Maximum, 31.5°C Aug. 30 to Sept. 1, 1973; minimum, freezing point on many days during Dec. 1975 and Jan. 1976.

DISSOLVED OXYGEN: Maximum, 14.3 mg/l Feb. 18, 1973; minimum, 0.6 mg/l Nov. 1, 3, 1974.

EXTREMES FOR CURRENT YEAR.--

SPECIFIC CONDUCTANCE: Maximum, 705 micromhos Mar. 10; minimum, 105 micromhos July 12.

WATER TEMPERATURES: Maximum, 30.0°C June 26, 28; minimum, freezing point on many days during Dec. and Jan.

SPECIFIC CONDUCTANCE (MICROMHOS/CM AT 25°C), 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	---	---	---	390	350	366	290	260	268	310	145	198
2	---	---	---	370	340	351	280	255	---	275	190	233
3	---	---	---	385	330	344	---	---	---	430	200	271
4	---	---	---	355	325	342	---	---	---	255	200	237
5	---	---	---	370	330	344	---	---	---	310	255	273
6	320	290	---	400	340	356	---	---	---	310	265	278
7	345	290	306	340	295	317	---	---	---	320	280	---
8	330	300	307	290	250	270	---	---	---	---	---	---
9	315	280	292	280	265	274	---	---	---	---	---	---
10	300	280	286	290	230	263	---	---	---	---	---	---
11	290	210	267	285	220	245	---	---	---	---	---	---
12	280	220	249	310	200	272	---	---	---	---	---	---
13	290	255	271	203	180	194	---	---	---	---	---	---
14	290	270	282	275	230	244	---	---	---	250	230	---
15	300	270	283	300	260	280	---	---	---	275	230	251
16	330	295	---	295	265	273	300	265	---	290	265	276
17	---	---	---	290	270	280	310	270	284	335	270	301
18	---	---	---	320	275	294	330	275	293	360	310	329
19	---	---	---	330	280	299	350	295	322	335	305	314
20	---	---	---	305	275	287	400	300	336	310	300	---
21	---	---	---	325	250	274	320	290	298	---	---	---
22	375	280	---	300	260	274	340	290	307	---	---	---
23	390	330	347	300	270	279	350	300	309	---	---	---
24	365	340	350	310	270	286	350	310	321	---	---	---
25	350	330	338	310	275	289	340	300	---	---	---	---
26	350	320	333	325	275	291	---	---	---	---	---	---
27	390	320	355	310	260	289	---	---	---	---	---	---
28	385	340	364	305	260	275	---	---	---	---	---	---
29	380	365	372	330	270	284	---	---	---	280	270	---
30	380	375	376	285	270	277	350	290	---	295	260	277
31	375	350	364	---	---	---	295	220	246	285	265	278
MONTH	---	---	---	400	180	290	---	---	---	---	---	---

DELAWARE RIVER BASIN

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01480617 WEST BRANCH BRANDYWINE CREEK AT MODENA, PA--Continued

SPECIFIC CONDUCTANCE (MICROMHOS/CM AT 25°C), WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

DAY	FEBRUARY			MARCH			APRIL			MAY		
	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	360	250	283	310	270	276	285	155	187	260	200	242
2	290	210	249	300	270	283	230	200	215	235	190	209
3	420	275	317	380	275	316	260	215	232	260	230	240
4	630	295	374	370	310	332	260	220	234	290	250	265
5	355	300	314	350	315	323	250	220	232	290	250	260
6	380	285	318	350	300	321	255	235	245	295	250	256
7	380	320	338	350	320	331	280	240	255	270	250	254
8	405	305	334	370	330	336	270	250	255	260	240	251
9	325	300	311	525	330	384	255	240	248	260	240	253
10	360	300	318	705	350	430	280	240	257	260	220	245
11	310	230	273	340	270	305	280	245	256	295	230	249
12	290	260	270	315	240	271	265	240	254	240	200	229
13	290	260	269	310	210	239	270	250	253	260	240	248
14	300	255	275	260	230	244	280	240	257	260	245	251
15	290	270	278	270	240	252	270	240	252	260	235	246
16	300	260	271	280	250	263	255	245	249	250	220	241
17	340	240	261	275	250	263	280	240	254	240	200	222
18	320	240	279	315	270	287	270	245	252	240	180	225
19	280	230	261	310	275	285	280	240	254	250	220	233
20	300	270	278	310	265	283	270	250	255	300	255	280
21	300	275	285	290	260	272	260	250	255	330	285	310
22	295	240	269	280	245	259	270	250	257	330	310	319
23	300	240	275	275	255	266	260	250	258	350	330	339
24	300	280	288	290	260	273	300	255	269	350	305	329
25	300	280	286	330	265	291	300	255	268	340	315	323
26	320	280	291	290	255	273	260	240	253	355	315	334
27	300	270	283	310	260	280	270	250	261	355	260	310
28	310	280	287	280	240	250	290	250	268	310	250	272
29	290	275	279	275	250	261	285	260	268	300	250	270
30	---	---	---	270	260	266	270	250	261	280	235	246
31	---	---	---	300	250	271	---	---	---	260	230	244
MONTH	630	210	290	705	210	290	300	155	250	355	180	264

DAY	JUNE			JULY			AUGUST			SEPTEMBER		
	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	270	215	251	270	195	232	265	255	262	300	270	---
2	250	120	208	265	250	258	290	265	273	---	---	---
3	240	190	213	280	260	272	335	270	298	237	213	---
4	265	230	240	280	215	244	330	290	307	281	224	249
5	280	240	255	245	215	233	325	280	309	256	219	233
6	280	260	268	265	245	254	360	285	316	245	224	234
7	265	250	255	270	230	261	305	250	270	276	229	242
8	270	250	259	250	225	242	275	250	262	339	311	---
9	280	240	263	270	245	251	250	130	196	390	319	340
10	280	260	268	280	245	259	245	160	205	366	274	326
11	275	255	263	275	170	218	285	240	260	304	224	290
12	270	250	263	220	105	190	285	265	272	308	278	288
13	275	250	261	255	225	239	280	265	272	296	249	269
14	280	260	269	270	240	253	320	185	227	276	244	255
15	295	260	276	275	250	256	295	245	266	267	216	239
16	290	265	276	275	245	257	270	250	261	267	124	183
17	255	195	227	280	235	252	285	260	271	176	136	161
18	275	250	258	310	260	266	320	270	293	189	141	170
19	275	250	261	285	260	271	320	280	295	197	187	192
20	290	185	259	285	265	274	310	285	295	215	193	203
21	225	190	208	285	220	270	360	280	307	215	201	208
22	230	200	213	295	265	279	360	275	299	232	198	211
23	250	185	214	275	260	268	315	280	295	239	212	222
24	265	240	251	275	220	251	310	280	300	227	211	220
25	260	245	253	265	250	257	330	285	304	251	206	227
26	290	250	266	285	260	271	320	280	305	241	182	217
27	285	255	266	290	265	279	315	150	220	223	199	210
28	275	255	265	285	260	275	255	155	219	225	203	213
29	275	245	261	290	195	259	250	240	246	231	197	215
30	260	170	215	260	150	218	280	250	264	230	175	208
31	---	---	---	275	245	254	300	270	283	---	---	---
MONTH	295	120	250	310	105	254	360	130	273	390	124	232

01480617 WEST BRANCH BRANDYWINE CREEK AT MODENA, PA--Continued

PH (UNITS), 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				---	---		---	---	---	7.4	6.9	7.2
2				---	---		---	---	---	7.4	7.0	7.2
3				---	---		---	---	---	7.3	6.9	7.1
4				---	---		---	---	---	7.3	6.9	7.1
5				---	---		---	---	---	7.5	7.4	7.5
6				---	---		---	---	---	7.7	7.4	7.5
7				---	---		---	---	---	8.7	7.4	7.7
8				---	---		---	---	---	7.5	6.8	7.1
9				---	---		---	---	---	7.5	7.5	---
10				---	---		---	---	---	---	---	---
11				---	---		---	---	---	---	---	---
12				---	---		---	---	---	---	---	---
13				---	---		---	---	---	---	---	---
14				---	---		---	---	---	6.9	6.5	---
15				---	---		---	---	---	7.2	6.7	7.0
16				---	---		7.8	6.5	---	8.9	6.9	7.2
17				8.4	7.7		7.3	6.6	6.9	7.7	7.0	7.4
18				8.6	7.9		7.4	6.6	7.1	8.0	7.7	7.9
19				---	---		7.8	7.5	7.6	7.9	7.7	7.8
20				---	---		7.6	6.9	7.3	7.8	7.7	---
21				---	---		7.5	7.0	7.2	---	---	---
22				---	---		7.5	7.0	7.3	---	---	---
23				---	---		7.3	7.1	7.2	---	---	---
24				---	---		7.7	7.4	7.5	---	---	---
25				---	---		7.6	7.4	---	---	---	---
26				---	---		---	---	---	---	---	---
27				---	---		---	---	---	---	---	---
28				---	---		---	---	---	---	---	---
29				---	---		---	---	---	9.6	7.9	---
30				---	---		7.8	7.4	---	9.7	9.1	9.5
31				---	---		7.5	7.0	7.2	9.7	9.3	9.5
MONTH				---	---		---	---	---	---	---	---

DAY	FEBRUARY			MARCH			APRIL			MAY		
	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	9.7	9.4	9.5	8.7	7.8	8.1	7.8	6.9	7.4	8.4	8.1	8.2
2	10.0	9.0	9.5	8.1	7.7	7.8	8.0	7.7	7.8	8.9	8.2	8.5
3	9.7	8.7	9.2	8.3	7.6	7.8	8.2	7.7	7.8	8.8	7.9	8.4
4	10.0	8.9	9.6	8.3	7.7	7.9	8.1	7.7	7.9	8.8	7.9	8.2
5	10.1	9.6	9.9	8.3	7.7	7.9	8.3	7.8	7.9	8.7	7.7	8.1
6	9.8	9.5	9.6	8.5	7.7	8.0	8.4	7.8	8.0	9.5	7.4	8.1
7	9.9	8.9	9.5	8.4	7.7	7.9	8.1	7.3	7.8	8.7	7.4	7.9
8	10.2	9.3	9.8	8.5	7.7	8.0	8.0	7.2	7.5	8.9	7.5	8.1
9	10.3	9.3	9.9	8.3	7.7	7.9	8.3	7.3	7.7	8.9	7.6	8.2
10	10.0	9.0	9.7	8.8	7.9	8.2	8.2	7.3	7.7	8.8	7.6	8.1
11	10.5	9.7	10.1	9.3	8.5	8.8	8.1	7.2	7.6	8.8	7.5	7.9
12	10.4	9.2	9.8	9.0	8.6	8.8	8.0	7.3	7.6	7.7	7.4	---
13	9.7	9.1	9.4	9.2	8.7	9.0	9.0	7.2	8.0	---	---	---
14	9.9	9.0	9.5	9.0	8.5	8.8	8.7	7.9	8.3	---	---	---
15	9.5	9.2	9.3	9.2	8.5	8.8	8.9	7.9	8.3	---	---	---
16	9.6	8.9	9.3	8.8	7.7	8.3	9.0	7.8	8.3	---	---	---
17	9.6	9.1	9.4	8.4	7.7	8.0	9.0	7.8	8.2	---	---	---
18	9.9	8.9	9.3	8.6	8.1	8.3	9.0	7.7	8.2	8.2	7.1	---
19	9.6	8.3	9.0	8.5	8.0	8.2	8.9	7.7	8.2	8.7	7.8	8.2
20	8.2	8.0	8.1	8.3	7.8	8.0	8.9	7.6	8.1	8.8	7.9	8.2
21	8.2	7.9	8.0	8.5	7.7	7.9	8.9	7.6	8.1	8.7	7.8	8.2
22	8.2	7.7	8.0	8.1	7.6	7.8	8.6	7.6	8.0	8.9	7.9	8.4
23	8.1	7.9	8.0	8.2	7.6	7.8	8.9	7.7	8.2	8.9	7.9	8.3
24	8.7	7.9	8.2	8.1	7.6	7.7	8.9	7.7	8.2	9.3	7.9	8.5
25	9.2	8.6	8.8	8.0	7.5	7.6	8.3	7.7	7.9	9.2	7.9	8.5
26	9.0	8.0	8.7	7.9	7.2	7.5	8.4	7.7	8.0	8.7	7.9	8.3
27	8.4	7.7	8.0	7.7	7.1	7.2	8.7	7.8	8.2	9.2	7.9	8.4
28	8.4	7.8	8.0	7.7	7.1	7.3	8.9	7.8	8.3	9.2	7.8	8.5
29	8.5	7.8	8.0	7.8	7.1	7.4	9.1	8.1	8.6	9.1	7.8	8.3
30	---	---	---	7.8	7.1	7.3	9.4	8.2	8.7	8.6	7.7	8.0
31	---	---	---	7.5	7.0	7.2	---	---	---	9.0	7.7	8.2
MONTH	10.5	7.7	9.1	9.3	7.0	8.0	9.4	6.9	8.0	9.5	7.1	---

01480617 WEST BRANCH BRANDYWINE CREEK AT MODENA, PA--Continued

PH (UNITS), WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

DAY	JUNE			JULY			AUGUST			SEPTEMBER		
	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	9.1	7.2	8.2	7.9	7.4	7.6	8.5	7.4	7.9	8.1	6.9	---
2	7.6	7.2	7.4	8.2	7.5	7.8	8.6	7.5	8.0	---	---	---
3	7.8	7.5	7.7	8.3	7.5	7.8	8.5	7.4	8.0	8.7	7.7	---
4	8.1	7.7	7.9	8.2	7.6	7.8	8.8	7.4	8.1	8.8	7.3	8.0
5	8.4	7.7	8.0	8.4	7.7	8.0	8.9	7.6	8.2	9.0	7.4	8.2
6	8.3	7.8	8.0	8.7	7.8	8.2	8.8	7.5	8.1	9.0	7.5	8.2
7	8.6	7.7	8.1	8.6	7.4	7.9	8.2	6.9	7.5	9.0	7.4	8.2
8	8.9	7.8	8.2	8.2	7.3	7.5	7.9	7.3	7.5	9.0	7.4	8.2
9	9.0	7.4	8.2	8.4	7.3	7.8	7.6	6.6	6.9	8.9	7.4	8.1
10	8.8	7.7	8.1	8.5	7.5	7.9	7.3	6.8	7.1	8.4	7.4	7.7
11	8.5	7.3	7.8	7.9	7.3	7.5	7.7	7.1	7.3	8.7	7.4	8.0
12	8.3	7.1	7.7	7.5	7.3	7.4	8.0	7.0	7.4	8.8	7.4	8.0
13	8.5	7.2	7.8	7.5	7.4	7.5	8.1	7.0	7.5	8.9	7.3	8.0
14	8.2	7.2	7.5	7.9	7.4	7.6	7.5	6.9	7.1	9.0	7.4	8.0
15	8.1	7.0	7.4	8.0	7.6	7.8	8.0	7.0	7.4	8.8	7.2	7.8
16	8.6	7.0	7.7	8.0	7.0	7.7	8.1	7.1	7.5	7.9	7.3	7.5
17	7.9	7.4	7.6	7.7	6.8	7.2	8.2	6.9	7.5	8.2	7.4	7.6
18	8.3	7.0	7.6	7.7	6.9	7.3	8.2	6.9	7.5	7.7	7.3	7.5
19	8.0	6.9	7.4	8.0	7.0	7.4	8.3	6.9	7.6	8.3	7.4	7.7
20	8.5	7.0	7.6	8.5	6.9	7.6	8.4	6.9	7.7	8.7	7.3	7.7
21	7.7	7.3	7.4	8.5	7.2	7.7	8.4	7.0	7.7	8.0	7.3	7.5
22	7.7	7.1	7.5	8.2	7.2	7.7	8.5	7.1	7.9	8.4	7.4	7.8
23	7.7	7.1	7.4	7.5	6.9	7.2	8.4	7.1	7.8	8.6	7.4	7.8
24	7.9	7.2	7.5	8.3	6.8	7.6	8.4	6.9	7.6	8.6	7.4	7.9
25	7.9	7.1	7.4	8.6	7.4	8.0	8.4	6.8	7.6	8.5	7.4	7.8
26	8.1	7.1	7.5	8.7	7.4	8.1	8.4	6.8	7.5	8.1	7.4	7.6
27	8.3	7.2	7.6	8.5	6.9	7.7	7.5	6.5	6.8	8.4	7.4	7.8
28	8.5	7.1	7.7	8.7	7.4	8.0	7.1	6.6	6.9	8.6	7.4	7.9
29	8.3	7.2	7.7	8.2	6.8	7.3	7.8	6.9	7.3	8.5	7.4	7.9
30	7.7	7.3	7.4	7.4	7.0	7.3	8.0	7.0	7.4	7.6	7.3	7.4
31	---	---	---	8.0	7.3	7.6	8.2	7.0	7.4	---	---	---
MONTH	9.1	6.9	7.7	8.7	6.8	7.7	8.9	6.5	7.5	9.0	6.9	7.8

TEMPERATURE (°C) OF WATER, 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	---	---	---	14.5	12.0	13.5	8.0	4.0	6.5	4.0	2.0	2.5
2	---	---	---	16.5	13.5	15.0	5.0	3.0	4.0	9.5	6.5	8.0
3	---	---	---	17.0	14.5	15.5	4.5	2.0	3.0	5.0	3.5	4.5
4	---	---	---	19.0	16.0	17.5	3.5	2.0	3.0	3.5	1.0	2.0
5	---	---	---	19.5	16.5	18.0	3.5	2.0	---	4.5	0.5	2.5
6	20.0	17.0	---	19.0	16.5	17.5	---	---	---	5.0	2.0	3.0
7	19.5	16.0	17.5	17.0	16.5	---	---	---	---	5.0	3.0	4.0
8	19.5	15.5	17.5	---	---	---	---	---	---	6.5	4.5	6.0
9	18.5	17.0	18.0	---	---	---	---	---	---	5.0	5.0	---
10	20.0	17.0	18.0	---	---	---	---	---	---	---	---	---
11	---	---	---	---	---	---	---	---	---	---	---	---
12	---	---	---	---	---	---	---	---	---	---	---	---
13	---	---	---	11.0	10.0	---	---	---	---	---	---	---
14	---	---	---	10.0	6.0	8.0	---	---	---	2.0	1.5	---
15	---	---	---	7.0	5.0	6.0	---	---	---	4.0	1.0	2.5
16	---	---	---	7.0	4.0	5.5	6.5	3.0	---	4.5	3.0	3.5
17	---	---	---	8.5	5.0	7.0	4.5	2.0	3.5	4.5	1.0	3.0
18	---	---	---	10.0	6.0	8.0	3.0	0.0	1.0	1.5	0.0	0.5
19	---	---	---	11.0	8.0	9.5	0.5	0.0	0.0	3.5	0.0	1.5
20	---	---	---	11.0	8.5	9.5	1.0	0.0	0.0	2.0	1.5	---
21	---	---	---	11.0	9.5	10.0	0.0	0.0	0.0	---	---	---
22	19.5	16.0	---	9.5	6.0	7.5	0.0	0.0	0.0	11.0	8.0	---
23	20.5	16.0	19.0	6.0	4.0	5.0	0.0	0.0	0.0	11.0	8.0	9.0
24	20.5	19.0	20.0	6.5	5.0	6.0	0.0	0.0	0.0	13.0	9.5	10.5
25	20.5	19.5	20.0	7.0	5.0	6.0	0.0	0.0	---	11.0	8.5	9.5
26	19.5	18.0	18.5	6.5	4.5	5.5	---	---	---	10.5	7.0	9.5
27	18.5	16.5	17.5	6.5	5.5	6.0	---	---	---	11.0	9.5	10.5
28	18.5	17.0	---	5.5	4.0	4.5	---	---	---	10.0	9.5	---
29	---	---	---	5.0	3.0	4.0	---	---	---	6.0	5.5	---
30	---	---	---	6.5	4.5	5.5	5.5	4.5	---	6.0	4.5	5.5
31	15.0	13.0	---	---	---	---	5.5	4.5	5.0	5.5	4.5	5.0
MONTH	---	---	---	19.5	3.0	---	---	---	---	13.0	0.0	---

DELAWARE RIVER BASIN

01480617 WEST BRANCH BRANDYWINE CREEK AT MODENA, PA--Continued

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

DAY	FEBRUARY			MARCH			APRIL			MAY		
	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	6.0	5.0	5.5	12.0	9.5	10.5	13.0	11.0	11.5	16.5	15.0	16.0
2	5.5	2.0	3.5	10.5	9.5	10.0	11.5	10.0	10.5	18.5	14.5	16.0
3	4.5	2.0	3.5	10.0	8.5	9.5	12.0	9.5	11.0	18.5	15.5	16.5
4	6.0	3.5	4.5	10.5	9.0	10.0	11.5	9.5	10.5	16.5	14.0	15.5
5	5.0	4.0	4.5	14.5	10.5	12.5	13.0	8.5	10.5	19.5	13.0	16.5
6	4.5	3.5	4.0	13.5	10.0	11.0	13.5	9.5	12.0	22.0	17.0	19.5
7	5.0	3.5	4.0	10.5	8.0	9.5	14.5	11.0	13.0	22.0	19.0	20.5
8	5.5	3.5	4.5	11.0	8.5	9.5	13.0	10.5	11.5	20.5	16.5	18.5
9	6.0	3.5	4.5	9.5	5.5	7.0	11.5	9.0	10.5	20.5	15.5	17.5
10	6.5	4.0	5.5	8.5	5.0	7.0	13.5	8.5	11.0	22.0	16.5	19.0
11	6.5	4.5	5.5	10.0	6.5	8.0	13.0	10.0	12.0	20.5	18.5	19.5
12	6.5	4.0	5.5	8.0	6.0	6.5	12.0	8.5	10.5	20.0	16.0	18.5
13	8.5	5.5	7.0	9.0	6.5	8.0	14.0	9.5	11.5	19.5	15.0	17.0
14	8.0	6.0	7.0	9.5	6.0	7.5	16.0	11.0	13.5	20.0	16.5	18.0
15	7.0	5.0	6.0	10.0	6.5	8.5	16.0	13.0	14.5	23.0	18.5	20.5
16	10.0	7.0	9.0	9.0	7.0	8.0	18.0	14.0	16.0	21.0	19.0	20.0
17	10.0	8.5	9.5	7.0	5.5	6.0	20.0	15.5	18.0	21.5	18.5	19.5
18	10.0	8.0	9.0	8.5	4.5	6.5	21.5	17.0	19.0	20.0	17.0	19.0
19	10.0	7.0	9.0	11.5	7.0	9.5	21.5	18.0	19.5	16.5	14.5	15.5
20	9.5	7.0	8.5	14.0	9.5	12.0	22.0	18.5	20.0	20.0	14.5	17.0
21	10.0	6.5	8.5	14.5	11.5	13.0	24.5	19.0	21.5	21.5	17.0	19.0
22	10.5	8.5	10.0	11.5	9.5	10.5	23.0	20.5	21.5	21.0	16.0	18.5
23	8.0	6.0	7.0	12.0	8.5	10.5	23.0	19.0	20.5	20.5	15.5	18.0
24	8.0	5.5	7.0	14.0	9.5	12.0	21.5	18.0	19.5	20.5	16.0	18.0
25	10.5	6.5	8.5	14.0	11.5	13.0	19.0	16.5	17.5	19.5	17.0	18.5
26	10.5	8.5	10.0	15.0	11.0	13.0	16.5	14.5	15.5	18.5	16.5	17.0
27	11.5	9.0	10.5	15.0	12.0	14.0	16.0	13.5	14.5	22.0	15.5	18.5
28	10.5	8.5	9.5	15.0	12.0	14.0	16.5	13.5	15.0	23.0	17.0	19.5
29	11.0	8.0	9.5	14.0	11.5	13.0	18.5	14.0	16.0	20.0	18.5	19.0
30	---	---	---	14.5	13.0	13.5	19.5	14.5	16.5	18.5	17.0	18.0
31	---	---	---	14.0	13.0	13.5	---	---	---	22.0	18.0	19.5
MONTH	11.5	2.0	7.0	15.0	4.5	10.0	24.5	8.5	15.0	23.0	13.0	18.0
DAY	JUNE			JULY			AUGUST			SEPTEMBER		
	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	24.0	17.0	21.0	28.0	23.0	25.5	25.5	23.0	24.0	23.5	20.0	---
2	18.0	16.5	17.0	28.5	23.5	25.5	25.0	21.0	22.5	---	---	---
3	20.5	15.5	18.0	28.0	23.5	25.5	26.0	20.5	23.0	24.0	20.5	---
4	21.0	16.5	18.5	25.0	22.0	23.5	26.5	21.5	24.0	23.5	19.5	21.0
5	22.0	16.5	19.0	25.5	21.0	23.5	28.0	23.0	25.0	24.0	19.5	21.0
6	18.5	16.5	17.5	27.0	22.0	24.5	28.5	24.0	26.0	22.0	18.0	20.0
7	23.0	16.5	19.5	27.0	24.0	25.0	25.0	23.5	24.5	22.0	16.0	18.5
8	23.5	19.0	21.0	26.0	23.5	24.5	24.0	23.0	23.5	23.5	19.0	20.5
9	25.0	19.5	22.0	28.5	23.5	25.5	23.0	21.0	21.5	24.5	19.5	21.5
10	25.5	21.0	23.0	29.0	23.5	26.0	23.0	20.0	21.5	21.5	18.5	20.5
11	25.5	21.5	23.0	24.5	21.5	23.5	25.0	20.0	22.5	21.5	16.5	19.0
12	26.0	21.5	23.5	25.0	22.0	23.0	26.5	22.0	24.0	23.5	17.0	20.0
13	21.5	19.5	20.5	22.0	21.5	22.0	28.5	23.5	25.5	25.0	19.0	21.5
14	21.5	19.0	20.0	25.0	21.0	23.0	26.0	21.5	24.5	25.0	19.5	22.0
15	25.5	20.0	22.5	26.0	23.0	24.5	25.5	23.0	24.0	23.0	20.5	21.5
16	25.5	22.0	23.5	26.5	23.5	25.0	26.0	21.5	23.5	22.0	19.0	20.0
17	24.0	21.5	22.5	26.5	22.0	24.5	25.5	20.5	23.0	22.0	19.0	20.0
18	26.0	22.0	24.0	26.0	21.0	23.0	26.5	21.0	23.5	21.0	18.5	20.0
19	27.0	23.0	24.5	28.0	21.0	24.0	26.0	21.5	23.5	23.0	19.0	20.5
20	26.5	22.0	24.5	28.5	23.0	26.0	26.5	21.0	23.5	23.0	19.0	20.5
21	24.0	21.5	22.5	27.0	24.5	25.5	27.0	21.0	24.0	20.5	19.0	20.0
22	25.5	21.0	23.5	26.0	24.0	25.0	28.0	22.0	24.5	21.0	17.0	19.0
23	27.0	23.0	24.5	24.5	23.5	24.0	28.5	23.5	25.5	21.0	16.5	18.5
24	29.0	24.0	26.0	28.5	23.5	25.5	27.0	24.0	25.5	21.0	18.5	19.5
25	29.0	25.0	26.5	26.5	22.0	24.5	28.5	23.5	26.0	20.0	18.0	19.0
26	30.0	25.0	27.0	27.0	21.0	23.5	29.0	25.0	26.5	18.5	16.5	17.5
27	29.0	23.5	26.0	26.0	22.0	24.5	26.0	22.0	23.5	20.5	18.0	19.5
28	30.0	24.0	26.5	29.0	23.5	26.0	25.0	22.0	23.5	21.0	18.0	19.5
29	28.5	25.0	26.5	27.0	23.0	25.0	26.0	22.0	24.0	20.0	16.5	18.0
30	26.5	23.5	25.0	24.5	22.0	23.5	24.5	20.5	22.0	17.0	15.5	16.5
31	---	---	---	27.0	23.0	25.0	24.5	19.5	21.5	---	---	---
MONTH	30.0	15.5	22.5	29.0	21.0	24.5	29.0	19.5	24.0	25.0	15.5	20.0

01480617 WEST BRANCH BRANDYWINE CREEK AT MODENA, PA--Continued

DISSOLVED OXYGEN (DO), MG/L, 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	---	---	---	10.2	8.8	9.5	10.7	9.4	9.9	---	---	---
2	---	---	---	9.8	8.3	9.1	10.8	10.5	---	---	---	---
3	---	---	---	9.7	7.9	8.9	---	---	---	---	---	---
4	---	---	---	9.4	7.3	8.4	---	---	---	---	---	---
5	---	---	---	9.2	7.5	8.3	---	---	---	---	---	---
6	10.8	7.6	---	9.7	7.8	8.6	---	---	---	---	---	---
7	11.1	7.9	9.2	9.6	7.3	8.3	---	---	---	11.8	11.0	---
8	11.7	8.0	9.6	9.0	7.2	7.9	---	---	---	12.0	11.2	11.5
9	10.4	8.1	9.3	9.5	7.0	8.3	---	---	---	11.6	11.6	---
10	9.3	8.9	---	7.9	7.1	7.5	---	---	---	---	---	---
11	11.3	9.9	10.2	9.4	7.9	8.6	---	---	---	---	---	---
12	10.0	9.0	9.4	9.1	8.1	---	---	---	---	---	---	---
13	9.4	8.8	9.1	7.6	7.1	---	---	---	---	---	---	---
14	9.2	8.5	8.9	10.0	7.7	8.9	---	---	---	11.7	11.3	---
15	9.0	8.4	8.7	10.4	9.7	10.1	---	---	---	12.6	11.8	12.2
16	8.9	8.5	---	10.3	9.2	9.8	11.3	10.6	---	12.0	10.9	11.7
17	---	---	---	10.1	9.0	9.5	12.2	10.7	11.5	12.1	10.7	11.5
18	---	---	---	9.6	7.9	9.0	12.2	11.1	11.9	12.6	12.0	12.2
19	---	---	---	8.4	7.8	---	12.9	11.9	12.4	12.0	11.1	11.8
20	---	---	---	---	---	---	12.5	11.8	12.1	11.7	11.5	---
21	---	---	---	---	---	---	12.7	11.9	12.2	---	---	---
22	---	---	---	---	---	---	12.8	12.1	12.4	---	---	---
23	---	---	---	---	---	---	12.7	12.2	12.4	---	---	---
24	---	---	---	---	---	---	12.6	11.8	12.3	---	---	---
25	---	---	---	---	---	---	12.3	11.9	---	---	---	---
26	---	---	---	11.4	10.5	---	---	---	---	---	---	---
27	---	---	---	11.0	10.4	10.6	---	---	---	---	---	---
28	---	---	---	11.6	10.5	11.1	---	---	---	---	---	---
29	---	---	---	11.7	10.5	11.2	---	---	---	12.5	12.2	---
30	---	---	---	11.0	9.6	10.5	12.1	11.1	---	12.9	12.3	12.6
31	9.7	8.9	---	---	---	---	10.7	9.6	---	13.1	12.4	12.8
MONTH	---	---	---	11.7	7.0	---	---	---	---	---	---	---

DAY	FEBRUARY			MARCH			APRIL			MAY		
	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	12.7	11.8	12.3	13.8	12.0	---	10.6	8.4	---	---	---	---
2	13.8	11.8	13.1	---	---	---	11.2	10.7	10.9	---	---	---
3	14.1	13.2	13.7	11.5	10.6	---	11.6	10.1	11.0	9.6	7.4	---
4	14.3	13.5	13.9	12.3	10.5	11.2	11.3	10.2	10.8	10.0	7.4	8.8
5	14.1	13.6	13.8	12.1	10.7	---	12.0	10.0	11.1	10.5	7.3	9.0
6	14.0	13.6	13.8	---	---	---	11.4	10.1	10.7	10.7	6.4	8.3
7	14.2	13.6	13.9	---	---	---	11.3	8.0	9.7	10.2	5.9	7.6
8	13.9	13.3	13.6	---	---	---	9.0	8.2	---	11.0	6.0	8.7
9	14.1	13.3	13.7	---	---	---	---	---	---	11.4	7.7	9.0
10	14.0	12.5	13.3	13.8	12.1	---	---	---	---	11.0	6.6	8.7
11	13.8	12.6	13.2	13.7	11.8	12.7	---	---	---	9.6	6.1	7.5
12	13.9	12.6	13.3	13.9	12.1	12.9	---	---	---	11.2	6.1	8.5
13	13.3	11.6	12.5	12.7	11.8	12.2	---	---	---	12.0	7.8	9.7
14	13.1	11.9	12.8	13.1	11.3	12.3	---	---	---	11.2	6.8	8.8
15	13.8	12.3	13.2	12.7	10.9	11.9	---	---	---	11.5	6.6	8.6
16	12.6	10.9	11.9	12.1	11.1	---	---	---	---	11.0	6.4	7.9
17	11.9	11.2	11.6	12.6	11.6	---	---	---	---	10.2	6.8	8.2
18	12.2	11.2	11.8	12.9	10.4	12.0	---	---	---	8.6	6.9	7.6
19	12.3	10.9	11.6	11.6	9.8	10.7	---	---	---	9.9	7.7	8.8
20	13.0	11.1	12.2	10.9	8.4	9.8	---	---	---	10.1	6.9	8.4
21	13.7	11.8	13.0	10.1	8.3	8.9	10.8	6.6	---	9.2	6.7	---
22	12.9	11.5	12.0	11.0	9.1	10.1	10.6	6.8	8.2	---	---	---
23	14.0	13.0	13.7	11.6	9.8	10.7	10.6	6.9	8.4	---	---	---
24	14.3	13.2	13.9	11.3	9.1	10.3	10.4	6.9	8.6	---	---	---
25	14.2	12.2	13.4	10.7	9.2	9.8	10.1	7.5	8.8	---	---	---
26	13.5	12.2	12.9	10.7	9.3	---	11.2	8.5	10.1	---	---	---
27	13.7	12.0	12.9	13.1	8.6	11.4	12.5	9.4	10.8	10.9	6.7	---
28	13.9	12.2	13.0	10.8	8.5	9.4	12.0	7.5	9.9	11.0	6.4	8.3
29	14.1	12.0	13.1	9.8	8.6	---	9.3	7.3	---	10.5	6.3	7.9
30	---	---	---	13.6	9.2	---	---	---	---	9.0	6.5	7.6
31	---	---	---	10.4	8.4	9.3	---	---	---	9.6	5.0	7.4
MONTH	14.3	10.9	13.0	13.9	8.3	---	---	---	---	---	---	---

DELAWARE RIVER BASIN

01480617 WEST BRANCH BRANDYWINE CREEK AT MODENA, PA--Continued

DISSOLVED OXYGEN (DO), MG/L, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

DAY	JUNE			JULY			AUGUST			SEPTEMBER		
	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	10.6	4.7	7.4	9.2	7.0	8.3	9.7	6.6	8.2	---	---	---
2	8.9	8.5	8.7	9.7	7.1	8.2	11.4	7.6	9.1	---	---	---
3	9.0	7.4	8.3	10.4	7.0	8.3	11.8	7.3	8.9	10.7	6.5	---
4	9.0	7.0	8.1	10.8	7.0	9.2	10.9	6.3	8.3	10.5	6.0	7.8
5	9.0	6.9	7.8	11.0	8.1	9.2	12.0	5.5	7.5	10.5	6.1	7.9
6	9.3	6.7	8.0	---	---	---	11.0	4.7	7.2	10.0	5.8	7.8
7	9.2	6.8	8.0	8.1	6.8	---	8.2	4.7	6.6	11.8	5.0	8.0
8	10.4	6.8	8.4	10.0	6.8	7.7	7.6	5.8	6.7	13.8	6.7	9.4
9	12.0	5.3	8.7	8.8	7.5	---	9.4	6.7	8.7	12.1	5.7	9.0
10	9.7	5.1	6.9	---	---	---	11.3	9.3	10.6	10.5	6.1	7.9
11	9.5	5.0	6.5	---	---	---	13.5	9.8	11.9	11.5	7.5	9.3
12	9.1	4.6	6.6	---	---	---	---	---	---	13.8	7.1	9.4
13	---	---	---	---	---	---	12.8	7.4	---	13.5	5.7	8.9
14	---	---	---	8.3	7.0	---	10.5	7.5	9.1	11.9	5.0	7.7
15	---	---	---	---	---	---	12.5	7.9	9.5	12.5	5.3	7.8
16	10.2	5.7	---	---	---	---	12.1	8.2	9.9	9.5	6.7	8.3
17	8.3	6.3	7.5	---	---	---	12.9	7.7	10.1	9.0	7.9	8.6
18	9.5	6.1	7.6	---	---	---	12.2	6.1	8.7	9.1	7.7	8.3
19	9.5	5.6	7.4	10.0	7.1	---	12.0	7.0	9.0	9.7	7.1	8.3
20	10.0	5.8	7.4	10.2	6.6	8.4	12.9	6.7	8.9	10.6	5.9	7.8
21	7.7	6.3	7.0	10.7	6.1	7.6	13.0	6.0	9.0	8.5	5.8	6.7
22	7.8	7.0	7.5	9.9	6.2	7.6	13.0	6.0	9.1	10.4	6.3	8.1
23	8.3	6.7	7.7	8.8	6.3	7.2	---	---	---	11.1	7.1	8.7
24	7.8	5.6	6.7	10.0	7.1	8.8	---	---	---	11.5	7.1	8.4
25	9.0	5.5	7.0	10.9	9.6	---	---	---	---	11.0	6.8	8.3
26	7.4	6.8	---	---	---	---	---	---	---	9.1	7.5	8.1
27	---	---	---	---	---	---	---	---	---	9.2	7.3	---
28	---	---	---	---	---	---	---	---	---	---	---	---
29	9.9	7.0	---	9.8	7.5	---	---	---	---	---	---	---
30	9.3	7.0	8.2	9.2	7.7	8.7	---	---	---	---	---	---
31	---	---	---	8.8	6.5	7.9	---	---	---	---	---	---
MONTH	12.0	4.6	---	---	---	---	---	---	---	13.8	5.0	---

DELAWARE RIVER BASIN

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01480675 MARSH CREEK NEAR GLENMOORE, PA

LOCATION.--Lat 40°05'52", long 75°44'31", Chester County, Hydrologic Unit 02040205, on left bank 200 ft (60 m) north of Pennsylvania Turnpike, 1.2 mi (1.9 km) downstream from Lyons Run, 1.8 mi (2.9 km) upstream from Black Horse Creek, and 3 mi (5 km) northeast of Glenmoore.

DRAINAGE AREA.--8.57 mi² (22.20 km²).

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

REVISED RECORDS.--WDR PA-74: 1967(M), 1971-72(P).

GAGE.--Water-stage recorder and concrete control. Altitude of gage is 450 ft (137 m), from topographic map.

REMARKS.--Records good.

AVERAGE DISCHARGE.--10 years, 12.6 ft³/s (0.357 m³/s), 20.00 in/yr (508 mm/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 946 ft³/s (26.8 m³/s) June 22, 1972, gage height, 4.68 ft (1.426 m); minimum, 0.3 ft³/s (0.008 m³/s) Aug. 31, 1966, gage height, 0.98 ft (0.299 m).

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 148 ft³/s (4.19 m³/s) Jan. 27, gage height, 2.41 ft (0.735 m), from high-water magnet; minimum, 2.4 ft³/s (0.068 m³/s) Aug. 25, 26, 27, Sept. 9, 10, 14, 15, gage height, 1.30 ft (0.396 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	6.4	7.2	9.2	60	17	12	94	16	7.5	16	5.5	3.3
2	6.2	7.2	9.2	44	30	11	46	29	29	6.6	4.3	3.4
3	5.5	7.5	8.1	21	17	12	20	13	16	6.4	4.3	3.4
4	5.3	7.2	7.2	23	16	15	17	8.5	7.5	9.2	4.2	3.4
5	5.3	7.2	7.2	13	16	16	16	7.5	5.0	26	4.0	3.2
6	5.3	6.9	7.8	9.2	16	16	14	6.9	4.5	15	4.0	2.8
7	5.1	6.9	8.1	9.2	13	12	13	6.4	4.5	6.4	5.0	2.7
8	5.0	12	6.9	16	13	11	12	6.0	4.5	6.4	5.0	2.6
9	5.3	12	7.5	13	13	10	12	5.7	4.5	18	21	2.5
10	6.6	13	9.9	7.8	15	11	11	5.5	4.5	15	35	3.3
11	11	23	8.5	7.5	40	18	11	5.5	4.5	48	22	3.4
12	16	20	7.2	8.5	16	20	9.9	9.5	4.5	82	8.1	3.2
13	10	55	6.9	9.2	15	38	9.9	7.5	4.5	18	5.0	2.6
14	7.2	23	7.2	33	14	38	9.9	6.0	4.5	7.8	20	2.5
15	5.7	14	7.5	23	11	17	9.5	5.7	4.5	6.0	15	2.5
16	5.3	11	9.2	12	15	16	9.5	5.7	4.5	5.5	7.5	11
17	6.2	9.9	7.8	10	25	16	9.5	7.2	6.6	16	5.1	25
18	25	9.5	7.2	9.0	20	13	9.2	9.2	5.5	13	4.5	17
19	69	9.2	4.8	8.4	29	13	8.5	9.9	4.5	6.0	4.3	9.2
20	58	8.8	4.8	8.3	16	13	8.1	7.2	4.7	4.5	4.2	5.3
21	22	11	4.7	8.2	13	12	7.8	7.2	9.5	4.3	4.1	4.5
22	13	14	4.6	8.1	27	12	7.8	6.2	13	4.3	4.0	4.5
23	9.9	10	4.5	8.0	16	10	7.5	5.0	9.9	4.5	3.8	4.0
24	9.2	9.2	4.4	7.9	15	10	7.2	4.7	6.6	5.0	3.6	3.6
25	10	8.5	4.5	7.8	15	10	7.5	4.7	4.5	4.7	3.2	3.4
26	11	8.1	32	60	14	9.9	9.9	4.7	4.2	4.3	2.5	3.4
27	9.9	9.5	44	100	14	9.9	8.5	4.8	3.9	4.2	19	4.0
28	9.2	9.9	13	120	13	16	7.5	4.7	4.0	4.0	27	4.2
29	8.8	8.5	8.8	35	12	12	7.2	4.5	7.8	7.5	9.5	4.0
30	8.8	8.1	9.2	15	---	9.9	6.6	7.2	23	17	4.8	4.8
31	7.5	---	22	13	---	9.9	---	6.6	---	12	3.8	---
TOTAL	388.7	367.3	303.9	728.1	506	449.6	427.5	238.2	222.2	403.6	273.3	152.7
MEAN	12.5	12.2	9.80	23.5	17.4	14.5	14.3	7.68	7.41	13.0	8.82	5.09
MAX	69	55	44	120	40	38	94	29	29	82	35	25
MIN	5.0	6.9	4.4	7.5	11	9.9	6.6	4.5	3.9	4.0	2.5	2.5
CFSM	1.46	1.42	1.14	2.74	2.03	1.69	1.67	.90	.86	1.52	1.03	.59
IN.	1.69	1.59	1.32	3.16	2.20	1.95	1.86	1.03	.96	1.75	1.19	.66

CAL YR 1975 TOTAL 5938.1 MEAN 16.3 MAX 164 MIN 3.0 CFSM 1.90 IN 25.77
WTR YR 1976 TOTAL 4461.1 MEAN 12.2 MAX 120 MIN 2.5 CFSM 1.42 IN 19.36

DELAWARE RIVER BASIN

01480685 MARSH CREEK NEAR DOWNINGTOWN, PA

LOCATION.--Lat 40°03'19", long 75°43'00", Chester County, Hydrologic Unit 02040205, on left bank 1,000 ft (305 m) downstream from Marsh Creek Dam, 0.2 mi (0.3 km) upstream from mouth and 3.0 mi (4.8 km) north of Downingtown.

DRAINAGE AREA.--20.3 mi² (52.6 km²).

WATER-DISCHARGE RECORDS

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

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

REMARKS.--Records good. Flow completely regulated since November 1973 by Marsh Creek Reservoir 1,000 ft (305 m) upstream (see p. 311).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 423 ft³/s (12.0 m³/s) Feb. 9, 1976, gage height, 3.46 ft (1.055 m), from rating curve extended above 200 ft³/s (5.7 m³/s); minimum daily, 0.31 ft³/s (0.009 m³/s) Dec. 22, 23, 1973.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 423 ft³/s (12.0 m³/s) Feb. 9, gage height, 3.46 ft (1.055 m), from rating curve extended above 200 ft³/s (5.7 m³/s); minimum daily, 3.9 ft³/s (0.11 m³/s) June 22 to July 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	48	24	27	279	94	61	18	13	4.5	3.9	15	14
2	42	23	26	275	94	35	17	12	4.5	3.9	13	13
3	35	22	26	273	93	34	16	12	4.0	3.9	11	11
4	30	22	24	270	93	33	16	13	4.0	3.9	10	10
5	27	21	24	269	93	33	16	12	4.2	3.9	8.6	9.1
6	25	21	24	266	93	33	16	12	4.2	3.9	8.0	8.0
7	22	20	23	130	93	33	15	12	4.2	3.9	10	7.3
8	21	21	23	35	76	34	15	13	4.2	3.9	10	6.6
9	20	23	22	34	73	33	15	13	4.2	3.9	12	6.1
10	19	24	23	34	33	34	15	13	4.2	3.9	21	6.6
11	21	28	23	33	31	34	15	13	4.2	13	24	6.3
12	25	32	23	33	30	34	14	13	4.0	31	23	5.9
13	25	51	22	34	30	34	14	13	4.2	34	20	5.7
14	24	59	22	34	29	34	14	13	4.0	27	21	5.5
15	22	55	22	34	29	25	14	13	4.0	24	21	5.3
16	21	50	23	34	29	10	14	13	4.0	22	20	8.6
17	20	45	23	34	29	19	14	13	4.2	20	17	16
18	29	41	22	34	29	19	13	13	4.0	19	14	19
19	61	38	21	34	31	18	13	13	4.0	17	12	18
20	79	36	19	33	34	18	13	13	4.0	15	11	17
21	74	35	19	33	34	18	13	13	4.0	14	9.4	15
22	65	36	19	33	35	18	13	13	3.9	13	8.6	14
23	57	34	18	32	35	18	12	13	3.9	12	7.8	12
24	51	32	18	31	35	18	12	13	3.9	13	7.3	11
25	46	30	17	31	34	17	13	13	3.9	11	6.6	9.1
26	42	29	48	32	65	18	13	13	3.9	10	6.3	8.6
27	38	29	85	34	93	17	13	13	3.9	8.8	14	9.1
28	34	28	82	68	93	17	13	13	3.9	8.0	22	9.1
29	32	27	146	94	93	17	13	13	3.9	9.4	24	8.3
30	30	27	237	94	---	17	12	7.0	3.9	16	21	8.8
31	26	---	278	94	---	17	---	4.2	---	16	16	---
TOTAL	1111	963	1429	2778	1653	800	424	383.2	121.9	392.2	444.6	304.0
MEAN	35.8	32.1	46.1	89.6	57.0	25.8	14.1	12.4	4.06	12.7	14.3	10.1
MAX	79	59	278	279	94	61	18	13	4.5	34	24	19
MIN	19	20	17	31	29	10	12	4.2	3.9	3.9	6.3	5.3
MEAN#	32.7	31.4	26.9	56.8	42.2	39.0	37.0	20.2	16.4	22.5	14.1	9.60
CFSM#	1.61	1.55	1.33	2.80	2.08	1.92	1.82	1.00	.81	1.11	.69	.47
IN.#	1.86	1.73	1.53	3.23	2.24	2.21	2.03	1.15	.90	1.28	.80	.52

CAL YR 1975 TOTAL 16264.5 MEAN 44.6 MAX 278 MIN 3.7 MEAN# 42.9 CFSM# 2.11 IN.# 28.72
WTR YR 1976 TOTAL 10803.9 MEAN 29.5 MAX 279 MIN 3.9 MEAN# 29.1 CFSM# 1.43 IN.# 19.48

Adjusted for change in reservoir contents.

DELAWARE RIVER BASIN

01480685 MARSH CREEK NEAR DOWNINGTOWN, PA--Continued

WATER-QUALITY RECORDS

PERIOD OF DAILY RECORD.--

WATER TEMPERATURES: October 1973 to current year.

EXTREMES FOR PERIOD OF DAILY RECORD.--

WATER TEMPERATURES: Maximum, 31.5°C Aug. 2, 1975; minimum, 1.0°C Dec. 22, 1973, Feb. 9, 10, 1974.

EXTREMES FOR CURRENT YEAR.--

WATER TEMPERATURES: Maximum, 28.0°C Aug. 13, 14, 24; minimum, 2.0°C on many days during January.

TEMPERATURE (°C) OF WATER, 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	19.0	18.0	18.5	14.5	14.0	14.0	9.5	9.0	9.5	5.0	5.0	5.0
2	19.0	18.0	18.5	15.0	13.5	14.5	9.5	9.0	---	5.0	5.0	5.0
3	18.5	17.0	17.5	15.0	14.0	14.5	---	---	---	5.0	5.0	5.0
4	18.5	17.0	17.5	15.0	14.0	14.5	---	---	---	5.0	5.0	5.0
5	18.0	17.0	17.5	15.0	14.0	14.5	---	---	---	5.0	5.0	---
6	19.0	17.0	17.5	15.0	14.0	14.5	---	---	---	2.0	2.0	---
7	19.0	17.0	17.5	15.0	14.0	14.5	---	---	---	3.0	2.0	2.5
8	19.0	17.0	18.0	15.5	14.5	15.0	---	---	---	3.0	2.0	2.5
9	18.0	17.0	17.0	16.5	13.0	15.5	---	---	---	3.0	2.0	2.5
10	17.0	17.0	17.0	15.5	14.0	15.0	---	---	---	3.0	3.0	3.0
11	17.0	16.5	17.0	15.0	14.0	14.5	---	---	---	3.0	3.0	3.0
12	17.0	16.0	16.5	14.5	13.5	14.0	7.0	7.0	---	3.5	3.0	3.0
13	17.0	15.5	16.5	14.0	13.5	13.5	7.0	7.0	7.0	3.5	2.0	3.0
14	18.0	16.5	17.0	13.5	13.0	13.0	7.0	7.0	7.0	3.5	2.0	3.0
15	18.5	17.0	17.5	13.0	12.0	12.5	7.0	7.0	7.0	3.5	3.0	3.0
16	18.0	17.0	17.5	12.0	12.0	12.0	8.0	7.0	7.0	3.5	3.0	3.5
17	17.0	16.5	17.0	13.0	12.0	12.0	7.0	7.0	7.0	3.5	3.0	3.0
18	17.0	16.5	17.0	13.0	12.0	12.0	9.0	7.0	7.5	3.0	3.0	3.0
19	16.5	15.0	16.0	13.5	12.0	12.5	8.0	8.0	8.0	3.5	3.0	3.5
20	16.5	16.0	16.0	12.0	10.5	12.0	8.0	7.0	8.0	3.5	3.5	3.5
21	16.5	15.5	16.0	12.0	12.0	12.0	7.0	7.0	7.0	3.5	3.5	3.5
22	17.0	15.5	16.5	12.0	10.5	11.5	7.0	7.0	7.0	3.5	3.5	3.5
23	17.0	15.5	16.0	11.5	10.5	11.0	7.0	6.5	6.5	3.5	3.5	3.5
24	17.0	16.5	16.5	10.5	10.5	10.5	6.5	6.5	6.5	3.5	2.0	3.5
25	17.0	16.5	17.0	10.5	10.0	10.5	6.5	6.0	6.5	3.5	3.5	3.5
26	17.0	16.0	16.5	10.5	10.0	10.0	6.0	6.0	6.0	3.5	3.5	3.5
27	16.0	15.5	16.0	10.5	9.5	10.0	6.0	6.0	6.0	4.0	3.5	3.5
28	16.5	15.5	16.0	10.0	9.5	9.5	6.0	6.0	6.0	4.0	3.5	4.0
29	16.5	15.5	16.0	10.5	9.5	9.5	6.0	6.0	6.0	4.0	2.0	3.0
30	15.5	14.5	15.0	10.0	9.5	9.5	6.0	6.0	6.0	4.0	2.0	3.0
31	15.0	14.5	14.5	---	---	---	6.0	5.0	5.5	3.5	3.5	3.5
MONTH	19.0	14.5	17.0	16.5	9.5	12.5	---	---	---	5.0	2.0	3.5

DELAWARE RIVER BASIN

01480685 MARSH CREEK NEAR DOWNINGTOWN, PA--Continued

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

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

DELAWARE RIVER BASIN

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01480700 EAST BRANCH BRANDYWINE CREEK NEAR DOWNINGTOWN, PA

LOCATION.--Lat 40°02'05", long 75°42'32", Chester County, Hydrologic Unit 02040205, on right bank 20 ft (6 m) downstream from bridge on Dowlan Forge Road, 200 ft (60 m) east of State Highway 282, 0.4 mi (0.6 km) downstream from Shamona Creek, 1.5 mi (2.4 km) downstream from Marsh Creek, 2.0 mi (3.2 km) upstream from Beaver Creek, and 2.2 mi (3.5 km) north of Downingtown.

DRAINAGE AREA.--60.6 mi² (157.0 km²).

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--Occasional low-flow measurements, water years 1948-57, October 1965 to current year.

GAGE.--Water-stage recorder. Altitude of gage is 270 ft (82 m), from topographic map. Prior to July 30, 1966, nonrecording gage at same site and datum.

REMARKS.--Records good. Flow regulated by Marsh Creek Reservoir 1.9 mi (3.1 km) upstream (see p. 311).

AVERAGE DISCHARGE.--11 years, 89.8 ft³/s (2.543 m³/s), 20.13 in/yr (511 mm/yr), adjusted for storage since November 1973.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 8,070 ft³/s (229 m³/s) June 22, 1972, gage height, 12.06 ft (3.676 m), from floodmark, from rating curve extended above 5,000 ft³/s (140 m³/s); minimum, 7.2 ft³/s (0.20 m³/s) Sept. 2, 3, 11, 12, 13, 1966, gage height, 1.80 ft (0.549 m).

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 1,640 ft³/s (46.4 m³/s) Jan. 27, gage height, 5.60 ft (1.707 m); minimum, 23 ft³/s (0.65 m³/s) Sept. 13, 14, 15, gage height, 2.21 ft (0.674 m); minimum daily, 23 ft³/s (0.65 m³/s) Sept. 14, 15.

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	66	70	676	188	113	421	88	49	54	42	35
2	88	65	66	352	281	86	117	91	172	35	37	34
3	79	63	63	372	169	86	93	60	60	32	33	33
4	74	63	61	349	164	93	90	54	43	48	31	31
5	68	61	60	305	156	91	83	51	38	63	29	29
6	66	60	60	298	154	95	76	49	36	36	29	28
7	63	60	60	182	147	86	74	48	35	40	40	26
8	60	78	58	117	133	84	72	46	33	41	42	25
9	61	68	60	83	124	86	68	45	32	37	103	24
10	65	86	66	78	93	91	65	43	31	31	130	28
11	84	101	60	81	154	101	63	43	30	312	65	29
12	97	137	58	83	113	105	61	58	29	109	54	24
13	76	268	57	86	105	210	61	46	28	81	48	24
14	70	142	57	221	105	121	60	45	29	66	80	23
15	66	111	58	105	95	95	58	45	29	61	58	23
16	63	99	63	91	101	81	58	45	28	55	48	62
17	66	90	60	84	135	84	57	52	49	68	42	83
18	161	86	58	74	130	72	55	58	33	49	37	60
19	544	81	51	72	159	72	55	57	35	43	33	46
20	201	79	50	72	117	70	54	46	32	40	30	41
21	154	86	49	72	109	70	54	48	72	37	28	40
22	126	90	48	72	151	70	54	46	60	37	27	38
23	109	78	47	71	121	65	52	42	79	37	26	33
24	99	74	46	71	105	65	51	41	40	42	25	31
25	99	72	48	70	105	63	52	40	35	35	25	29
26	91	68	255	352	124	63	57	41	31	31	24	29
27	86	72	172	737	149	63	52	41	30	30	178	33
28	81	72	137	408	144	79	51	38	30	29	71	34
29	78	66	188	207	142	65	49	38	35	58	56	31
30	76	66	271	180	---	63	48	45	70	99	45	35
31	70	---	360	164	---	63	---	36	---	49	38	---
TOTAL	3216	2608	2817	6185	3973	2651	2261	1526	1333	1785	1554	1041
MEAN	104	86.9	90.9	200	137	85.5	75.4	49.2	44.4	57.6	50.1	34.7
MAX	544	268	360	737	281	210	421	91	172	312	178	83
MIN	60	60	46	70	93	63	48	36	28	29	24	23
MEAN#	101	86.2	71.7	167	122	98.7	98.3	57.0	56.7	67.4	49.9	34.2
CFSM#	1.67	1.42	1.18	2.76	2.01	1.63	1.62	.94	.94	1.11	.82	.56
IN.#	1.92	1.58	1.36	3.18	2.17	1.88	1.81	1.08	1.05	1.28	.94	.62
CAL YR 1975	TOTAL	45221	MEAN 124	MAX 1360	MIN 33	MEAN# 122	CFSM# 2.02	IN.# 27.39				
WTR YR 1976	TOTAL	30950	MEAN 84.6	MAX 737	MIN 23	MEAN# 84.1	CFSM# 1.39	IN.# 18.89				

Adjusted for change in reservoir contents.

DELAWARE RIVER BASIN

01480700 EAST BRANCH BRANDYWINE CREEK NEAR DOWNINGTOWN, PA--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--November 1970 to current year.

COOPERATION.--Five water-quality analyses for the 1976 water year were furnished by the Pennsylvania Department of Environmental Resources.

WATER QUALITY DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

DATE	TIME	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)	TEMPERATURE (DEG C)	DIS-SOLVED OXYGEN (MG/L)	HARDNESS (CA, MG)	NON-CARBONATE HARDNESS (MG/L)	DIS-SOLVED CALCIUM (CA) (MG/L)	DIS-SOLVED MAGNESIUM (MG)	DIS-SOLVED SODIUM (NA) (MG/L)	DIS-SOLVED POTASSIUM (K) (MG/L)	BICARBONATE (HCO3) (MG/L)
OCT 29...	1340	180	7.8	16.0	10.2	60	27	16	4.8	6.6	2.3	40

DATE	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)	DIS-SOLVED SILICA (SiO2) (MG/L)	DIS-SOLVED SOLIDS (RESIDUE AT 180 C) (MG/L)	DIS-SOLVED SOLIDS (SUM OF CONSTITUENTS) (MG/L)	TOTAL NITRATE (N) (MG/L)	TOTAL AMMONIA NITROGEN (N) (MG/L)	TOTAL ORGANIC NITROGEN (N) (MG/L)	TOTAL KJELDAHL NITROGEN (N) (MG/L)
OCT 29...	0	33	1.0	18	12	13	112	93	1.7	.00	.63	.63

DATE	TOTAL PHOSPHORUS (P) (MG/L)	TOTAL ORTHO PHOSPHORUS (P) (MG/L)	DIS-SOLVED CADMIUM (CD) (UG/L)	DIS-SOLVED CHROMIUM (CR) (UG/L)	DIS-SOLVED COBALT (CO) (UG/L)	DIS-SOLVED COPPER (CU) (UG/L)	DIS-SOLVED IRON (FE) (UG/L)	DIS-SOLVED LEAD (PB) (UG/L)	DIS-SOLVED MANGANESE (MN) (UG/L)	DIS-SOLVED NICKEL (NI) (UG/L)	DIS-SOLVED ZINC (ZN) (UG/L)
OCT 29...	.02	.01	1	0	0	0	80	5	10	2	10

DELAWARE RIVER BASIN

01480700 EAST BRANCH BRANDYWINE CREEK NEAR DOWNINGTOWN, PA--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

DATE	TIME	CODE FOR AGENCY COL- LECTING SAMPLE	INSTAN- TANEOUS DIS- CHARGE (CFS)	SPE- CIFIC CON- DUCT- ANCE (MICRO- MHOS)	TEMPER- ATURE (DEG C)	TUR- BID- ITY (JTU)	CHEM- ICAL OXYGEN DEMAND (HIGH LEVEL) (MG/L)	HARD- NESS (CA, MG) (MG/L)
OCT 21...	1145	9813	152	120	14.0	3	28	50
JAN 22...	1000	9813	76	150	.0	2	--	68
FEB 23...	0845	9813	123	110	3.0	60	--	48
MAY 05...	0900	9813	52	160	10.0	<1	--	52
AUG 18...	0900	9813	37	180	20.0	1	--	56

DATE	MINERAL ACIDITY (METHYL ORANGE) AS CACO3 (MG/L)	ACIDITY CO2 AS CACO3 (MG/L)	DIS- SOLVED CAL- CIUM (CA) (MG/L)	DIS- SOLVED MAG- NE- SIUM (MG) (MG/L)	ALKA- LINITY AS CACO3 (MG/L)	DIS- SOLVED SULFATE (SO4) (MG/L)	DIS- SOLVED CHLO- RIDE (CL) (MG/L)	TOTAL FLUO- RIDE (F) (MG/L)	TOTAL FILT- RABLE RESIDUE (MG/L)
OCT 21...	0	0	12	5.0	36	20	12	--	144
JAN 22...	0	0	13	8.5	30	26	22	<.1	124
FEB 23...	0	0	12	4.0	32	18	16	<.1	96
MAY 05...	0	0	9.0	4.0	40	14	14	.1	96
AUG 18...	--	0	15	4.5	40	10	19	.1	120

DATE	TOTAL NON- FILT- RABLE RESIDUE (MG/L)	TOTAL NITRATE (N) (MG/L)	TOTAL NITRITE (N) (MG/L)	TOTAL AMMONIA NITRO- GEN (N) (MG/L)	TOTAL PHOS- PHORUS (P) (MG/L)	TOTAL IRON (FE) (UG/L)	TOTAL ORGANIC CARBON (C) (MG/L)	METHY- LENE BLUE ACTIVE SUB- STANCE (MG/L)
OCT 21...	--	1.3	.04	.14	.08	290	5.0	--
JAN 22...	22	2.8	.09	.06	.06	310	--	--
FEB 23...	16	2.1	.03	.07	.10	340	--	.00
MAY 05...	2	2.0	.02	.08	.08	160	--	.00
AUG 18...	<5	1.6	.04	.10	.05	50	--	.00

DELAWARE RIVER BASIN

01480870 EAST BRANCH BRANDYWINE CREEK BELOW DOWNINGTOWN, PA

LOCATION.--Lat 39°58'07", long 75°40'25", Chester County, Hydrologic Unit 02040205, on left bank at downstream side of Sugars Bridge (State Highway 322), 2,000 ft (610 m) upstream from Valley Creek, 1.5 mi (2.4 km) north of Marshallton, and 3.3 mi (5.3 km) southeast of Downingtown.

DRAINAGE AREA.--89.9 mi² (232.8 km²).

WATER-DISCHARGE RECORDS

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

REVISED RECORDS.--WDR PA-75-1: 1972(P), 1973, 1974.

GAGE.--Water-stage recorder Apr. 11, 1972 to June 22, 1972, Nov. 18, 1972 to present. Altitude of gage is 195 ft (59.4 m), from topographic map. Nonrecording gage Feb. 1 to Apr. 10, June 25 to Nov. 17, 1972.

REMARKS.--Records good. Flow regulated by Marsh Creek Reservoir, about 7.5 mi (12.1 km) upstream, since November 1973 (see p. 311).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 8,160 ft³/s (231 m³/s) June 22, 1972, gage height, 13.4 ft (4.08 m), from floodmark, from rating curve extended above 2,200 ft³/s (62.3 m³/s) on basis of slope-area measurement of peak flow; minimum observed, 29 ft³/s (0.82 m³/s) Oct. 5, 1972; minimum gage height, 2.15 ft (0.655 m) Nov. 17, 1973.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 1,910 ft³/s (54.1 m³/s) Jan. 27, gage height, 7.84 ft (2.390 m), from rating curve extended as explained above; minimum, 32 ft³/s (0.91 m³/s) Sept. 13, 14, 15, gage height, 2.08 ft (0.634 m); minimum daily, 34 ft³/s (0.96 m³/s) Sept. 15.

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	143	91	113	985	291	171	702	155	94	86	72	54
2	133	88	110	493	533	133	195	167	420	49	61	52
3	121	86	106	515	267	135	155	101	107	40	55	51
4	115	86	103	496	245	143	147	91	76	59	51	48
5	107	83	101	400	235	141	135	86	64	76	48	46
6	106	82	101	387	230	145	124	83	56	47	56	42
7	100	94	100	306	215	131	121	82	55	49	72	39
8	97	130	97	225	205	126	118	79	52	59	67	38
9	100	116	100	151	191	131	113	76	49	52	149	37
10	103	130	107	141	155	141	109	73	46	37	218	44
11	141	157	100	133	250	153	107	73	43	557	98	45
12	169	222	95	143	193	161	103	109	40	175	81	37
13	116	507	94	147	169	315	101	79	35	116	73	36
14	107	232	94	471	169	187	101	74	38	97	131	35
15	101	179	95	189	153	149	100	73	38	91	84	34
16	98	157	101	159	159	131	98	74	37	82	77	92
17	101	145	97	149	203	137	97	82	91	100	64	133
18	273	135	94	126	201	116	94	101	52	73	58	89
19	871	128	82	125	262	119	92	92	50	67	52	69
20	359	122	80	124	183	116	92	74	50	61	50	61
21	248	141	79	123	169	116	91	82	118	66	47	60
22	195	147	78	122	240	116	91	73	100	64	46	57
23	165	126	78	121	199	110	88	65	112	63	43	50
24	147	121	78	121	165	109	85	64	61	75	40	46
25	145	118	79	118	161	107	88	61	50	58	41	44
26	133	115	461	563	177	106	98	61	43	50	40	49
27	122	119	276	1130	205	107	88	61	37	48	291	54
28	115	119	205	746	201	128	83	56	40	48	109	51
29	107	110	248	338	195	109	82	58	49	123	81	46
30	103	109	375	282	---	104	80	76	101	279	67	61
31	94	---	511	248	---	104	---	59	---	84	58	---
TOTAL	5035	4195	4438	9777	6221	4197	3778	2540	2204	2931	2480	1600
MEAN	162	140	143	315	215	135	126	81.9	73.5	94.5	80.0	53.3
MAX	871	507	511	1130	533	315	702	167	420	557	291	133
MIN	94	82	78	118	153	104	80	56	35	37	40	34
MEAN#	159	139	124	282	200	148	149	89.7	85.8	104	79.8	52.8
CFSM#	1.77	1.55	1.38	3.14	2.22	1.65	1.66	1.00	.95	1.16	.89	.59
IN.#	2.04	1.73	1.59	3.62	2.39	1.90	1.85	1.15	1.06	1.34	1.03	.66

CAL YR 1975 TOTAL 76152 MEAN 209 MAX 2300 MIN 54 MEAN# 207 CFSM# 2.30 IN.# 31.26
WTR YR 1976 TOTAL 49396 MEAN 135 MAX 1130 MIN 34 MEAN# 134 CFSM# 1.50 IN.# 20.37

Adjusted for change in reservoir contents.

DELAWARE RIVER BASIN

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01480870 EAST BRANCH BRANDYWINE CREEK BELOW DOWNINGTON, PA--Continued

WATER-QUALITY RECORDS

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

PERIOD OF DAILY RECORD.--

SPECIFIC CONDUCTANCE: February 1972 to current year.

pH: February 1972 to current year.

WATER TEMPERATURES: February 1972 to current year.

DISSOLVED OXYGEN: February 1972 to current year.

EXTREMES FOR PERIOD OF DAILY RECORD.--

SPECIFIC CONDUCTANCE: Maximum, 430 micromhos Jan. 26, 1976; minimum, 85 micromhos Apr. 13, 1974.

pH: Maximum, 9.9 May 13, June 5, 1973; minimum, 5.4 Oct. 24, 26, 1973.

WATER TEMPERATURES: Maximum, 30.0°C Aug. 30, 1973; minimum, freezing point Jan. 22, 23, 1976.

DISSOLVED OXYGEN: Maximum, 15.9 mg/l Feb. 16, 1974; minimum, 1.1 mg/l Aug. 17, 1974.

EXTREMES FOR CURRENT YEAR.--

SPECIFIC CONDUCTANCE: Maximum, 430 micromhos Jan. 26; minimum, 100 micromhos July 11.

WATER TEMPERATURES: Maximum, 26.0°C June 26-28; minimum, freezing point Jan. 22, 23.

SPECIFIC CONDUCTANCE (MICROMHOS/CM AT 25°C), 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	260	245	251	280	275	278	260	255	257	250	210	218
2	260	250	256	280	280	280	260	260	260	220	215	220
3	265	250	259	380	375	379	265	255	264	220	220	220
4	265	260	262	285	280	281	255	255	255	215	215	215
5	260	250	254	390	380	384	280	255	270	210	210	210
6	280	250	266	285	280	284	280	275	279	210	210	210
7	280	265	272	285	280	282	280	270	271	390	205	245
8	285	265	276	282	280	280	270	260	268	360	240	311
9	285	270	279	280	265	272	280	270	271	285	265	272
10	275	265	272	265	264	265	280	270	276	275	265	266
11	275	240	260	260	260	260	280	270	274	270	255	263
12	255	230	246	270	230	259	285	270	278	365	255	290
13	280	255	266	250	220	238	290	280	283	370	270	293
14	280	275	277	345	340	341	290	280	285	400	195	238
15	285	270	279	345	340	342	290	270	280	255	230	245
16	285	270	281	350	340	344	285	275	280	270	255	260
17	280	260	274	250	245	247	280	260	273	270	250	259
18	255	225	240	260	250	254	275	270	272	280	255	264
19	245	215	232	260	255	258	295	270	276	280	260	266
20	235	230	231	260	260	260	285	275	280	275	265	270
21	235	230	232	260	260	260	285	270	279	300	255	278
22	240	235	236	---	---	---	285	275	280	315	270	288
23	245	240	243	---	---	---	300	275	283	310	285	295
24	250	245	246	---	---	---	290	270	279	290	275	285
25	250	250	250	---	---	---	270	265	269	280	260	271
26	250	250	250	260	255	---	340	240	275	430	200	295
27	250	249	250	260	255	258	270	210	225	220	160	192
28	260	250	256	260	255	256	230	220	225	220	170	---
29	264	260	262	255	250	251	235	210	224	---	---	---
30	265	265	265	255	250	252	220	210	214	---	---	---
31	280	260	270	---	---	---	250	210	233	---	---	---
MONTH	285	215	258	390	220	283	340	210	266	430	160	257

DELAWARE RIVER BASIN

01480870 EAST BRANCH BRANDYWINE CREEK BELOW DOWNINGTOWN, PA--Continued

SPECIFIC CONDUCTANCE (MICROMHOS/CM AT 25 C), WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

DAY	FEBRUARY			MARCH			APRIL			MAY		
	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	---	---	---	245	225	---	285	140	178	250	180	226
2	---	---	---	250	240	247	210	170	181	205	180	191
3	---	---	---	260	240	251	220	200	204	240	205	222
4	---	---	---	260	240	246	255	220	240	250	230	239
5	245	240	---	255	240	245	260	255	256	250	240	245
6	250	230	236	250	235	241	275	260	266	250	240	243
7	250	230	238	245	230	240	275	220	243	250	240	246
8	270	220	239	250	230	244	235	230	231	255	230	241
9	265	210	246	270	245	255	240	225	233	235	215	226
10	260	250	253	335	260	295	240	230	235	245	215	231
11	255	215	240	340	250	297	240	220	228	260	235	248
12	240	220	229	265	240	244	230	215	224	250	215	232
13	250	230	240	240	170	206	240	225	233	255	240	248
14	250	230	233	215	180	195	240	220	229	260	245	254
15	235	225	230	230	210	217	250	220	233	260	250	257
16	235	220	230	240	235	238	250	230	240	270	240	258
17	240	220	225	300	230	260	245	220	233	260	230	245
18	250	220	226	300	290	293	230	210	219	260	215	237
19	235	215	228	300	280	288	260	210	232	245	225	232
20	235	235	---	285	265	278	250	235	241	250	240	245
21	---	---	---	290	270	278	250	240	241	250	230	239
22	---	---	---	280	260	273	250	230	239	250	235	243
23	---	---	---	290	275	279	250	230	241	255	235	246
24	---	---	---	290	275	281	255	240	247	260	225	242
25	240	235	---	290	275	283	250	220	240	255	240	250
26	245	220	234	290	270	284	250	215	237	250	235	246
27	230	230	---	290	275	283	250	240	246	265	240	249
28	---	---	---	290	260	266	255	240	245	270	255	264
29	---	---	---	290	265	276	250	230	241	265	240	257
30	---	---	---	285	270	278	250	240	243	240	220	231
31	---	---	---	290	275	283	---	---	---	245	225	236
MONTH	---	---	---	340	170	261	285	140	233	270	180	241
DAY	JUNE			JULY			AUGUST			SEPTEMBER		
	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	270	155	238	245	210	226	260	240	251	270	255	---
2	250	150	195	270	235	251	270	240	253	---	---	---
3	240	200	220	285	260	276	265	250	260	---	---	---
4	260	240	248	260	220	235	285	270	275	---	---	---
5	260	245	257	235	190	214	290	270	282	---	---	---
6	270	235	247	250	215	231	295	250	280	---	---	---
7	265	240	254	280	235	255	270	245	255	---	---	---
8	270	255	265	240	225	231	270	255	260	280	262	---
9	280	260	272	240	225	232	260	170	203	292	255	271
10	275	260	268	255	230	245	205	180	191	264	249	257
11	280	270	277	255	100	163	240	210	227	261	231	247
12	295	275	287	190	130	163	250	240	244	293	236	260
13	290	275	285	225	190	208	260	250	253	---	---	---
14	290	275	285	230	220	226	255	185	211	---	---	---
15	290	275	283	235	230	233	240	210	228	---	---	---
16	295	270	283	250	235	240	250	220	235	---	---	---
17	265	220	238	245	210	225	260	250	255	---	---	---
18	280	250	264	245	230	238	280	255	266	---	---	---
19	280	260	273	255	245	249	280	270	277	---	---	---
20	280	255	268	260	245	255	285	265	277	---	---	---
21	255	190	214	265	240	253	290	265	275	---	---	---
22	230	200	214	260	240	251	290	275	285	189	177	---
23	235	190	213	270	255	261	305	260	282	199	181	190
24	265	230	248	255	230	241	310	295	303	204	199	---
25	275	255	267	260	245	250	305	285	298	211	198	205
26	285	265	276	270	235	252	310	290	304	200	169	186
27	310	260	280	280	255	268	310	130	216	203	172	188
28	295	245	272	280	255	270	215	160	196	208	185	194
29	290	260	271	290	130	256	230	215	224	200	190	195
30	280	205	232	210	135	171	255	225	238	200	165	186
31	---	---	---	250	210	236	265	250	258	---	---	---
MONTH	310	150	256	290	100	236	310	130	254	---	---	---

DELAWARE RIVER BASIN

01480870 EAST BRANCH BRANDYWINE CREEK BELOW DOWNINGTOWN, PA--Continued

PH (UNITS). 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										---	---	---
2										---	---	---
3										---	---	---
4										---	---	---
5										---	---	---
6										---	---	---
7										---	---	---
8										---	---	---
9										---	---	---
10										---	---	---
11										---	---	---
12										---	---	---
13										---	---	---
14										---	---	---
15										---	---	---
16										---	---	---
17										---	---	---
18										---	---	---
19										---	---	---
20										---	---	---
21										7.1	6.3	---
22										7.1	6.4	6.8
23										7.5	7.0	7.2
24										---	---	---
25										---	---	---
26										---	---	---
27										---	---	---
28										---	---	---
29										---	---	---
30										7.2	6.8	---
31										7.2	6.7	6.9
MONTH										---	---	---

DAY	FEBRUARY			MARCH			APRIL			MAY		
	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	6.9	6.5	6.8	7.1	6.4	---	7.4	6.8	---	6.0	5.7	5.8
2	7.9	6.4	7.3	7.7	6.4	7.1	6.7	6.7	---	6.4	5.6	6.0
3	8.2	7.4	7.8	7.7	7.4	---	---	---	---	7.1	5.5	6.3
4	7.9	6.8	7.4	---	---	---	---	---	---	7.4	6.2	6.7
5	7.2	7.0	7.1	---	---	---	---	---	---	7.7	6.2	6.8
6	7.5	7.2	7.4	---	---	---	8.4	7.3	---	8.9	6.1	7.2
7	7.9	7.2	7.5	---	---	---	8.1	6.5	7.4	8.8	7.5	8.0
8	7.4	6.7	7.1	---	---	---	8.2	6.5	7.4	9.5	7.6	8.5
9	7.3	6.3	6.9	---	---	---	8.3	7.1	7.7	9.7	8.0	8.8
10	7.2	6.1	6.7	---	---	---	8.4	6.6	7.6	9.4	7.7	8.5
11	6.5	6.2	---	---	---	---	8.0	6.6	7.4	9.1	7.6	8.2
12	---	---	---	---	---	---	8.7	7.4	8.0	8.2	7.0	7.8
13	---	---	---	---	---	---	8.6	6.1	7.4	8.5	7.0	7.7
14	---	---	---	---	---	---	7.8	6.2	7.0	8.6	7.0	7.5
15	---	---	---	---	---	---	8.7	6.7	7.8	8.2	6.8	7.5
16	---	---	---	---	---	---	9.0	7.4	8.2	7.8	6.8	7.2
17	---	---	---	8.0	7.1	---	9.0	7.1	8.0	7.9	6.9	7.4
18	---	---	---	8.0	6.7	7.4	8.8	7.0	7.8	7.4	6.8	7.1
19	---	---	---	7.2	6.5	---	8.7	7.0	7.7	8.1	7.1	7.8
20	---	---	---	---	---	---	8.9	7.1	7.9	7.9	6.9	7.6
21	---	---	---	---	---	---	8.9	7.0	7.9	7.4	6.4	7.0
22	---	---	---	---	---	---	8.8	7.2	8.0	7.6	6.6	7.1
23	---	---	---	---	---	---	---	---	---	7.7	6.7	7.2
24	---	---	---	---	---	---	---	---	---	7.4	5.6	7.0
25	---	---	---	---	---	---	---	---	---	7.5	6.6	7.1
26	---	---	---	---	---	---	---	---	---	7.8	7.2	7.5
27	---	---	---	---	---	---	---	---	---	7.8	6.4	7.2
28	---	---	---	---	---	---	7.5	5.9	---	7.1	6.1	6.7
29	---	---	---	---	---	---	6.8	5.7	6.2	7.3	6.3	6.8
30	---	---	---	---	---	---	6.9	5.7	6.2	7.2	5.4	6.8
31	---	---	---	---	---	---	---	---	---	7.4	6.4	6.9
MONTH	---	---	---	---	---	---	---	---	---	9.7	5.5	7.3

DELAWARE RIVER BASIN

01480870 EAST BRANCH BRANDYWINE CREEK BELOW DOWNINGTOWN, PA--Continued

PH (UNITS), WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

DAY	JUNE			JULY			AUGUST			SEPTEMBER		
	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	7.0	6.1	6.6	7.3	6.9	7.1	7.9	7.0	7.4	8.4	7.6	---
2	7.2	6.1	6.8	7.6	6.9	7.2	8.4	7.2	7.8	---	---	---
3	7.6	6.7	7.2	7.8	7.0	7.4	8.7	7.4	8.0	---	---	---
4	7.6	6.8	7.1	8.0	7.1	7.5	8.9	7.4	8.1	---	---	---
5	7.6	6.7	7.2	7.6	6.5	7.2	9.2	7.3	8.3	---	---	---
6	7.7	6.8	7.3	7.5	6.7	7.1	9.0	7.4	8.0	---	---	---
7	7.5	6.4	7.2	8.0	6.9	7.4	8.1	7.0	7.6	---	---	---
8	7.6	6.4	7.1	8.1	7.3	7.5	8.7	7.2	7.8	8.2	7.5	---
9	7.7	6.8	7.2	8.0	7.1	7.6	8.7	7.4	7.6	7.8	7.3	7.5
10	7.9	6.8	7.2	8.2	7.0	7.5	7.7	7.6	8.1	8.2	7.4	7.6
11	7.6	6.8	7.2	7.3	6.9	7.1	8.4	7.4	7.8	8.0	7.3	7.5
12	7.5	6.7	7.1	7.2	7.0	7.1	8.4	7.4	7.8	8.0	7.2	7.5
13	7.9	6.7	7.4	7.9	7.2	7.5	8.1	7.2	7.7	---	---	---
14	7.7	7.4	7.5	7.9	7.3	7.7	7.4	6.9	7.2	---	---	---
15	7.6	6.9	7.4	7.8	7.2	7.5	7.9	6.9	7.3	---	---	---
16	7.4	6.9	7.1	8.1	7.1	7.5	8.0	7.2	7.6	---	---	---
17	7.1	6.9	7.1	8.1	7.3	7.6	8.4	7.3	7.7	---	---	---
18	7.4	6.8	7.1	8.5	7.4	8.0	8.2	7.2	7.6	---	---	---
19	7.4	6.7	7.1	8.6	7.5	8.1	8.1	7.2	7.6	---	---	---
20	7.1	6.5	6.9	8.9	7.4	8.1	8.3	7.3	7.7	---	---	---
21	7.2	6.7	7.0	8.5	7.1	7.5	8.1	7.2	7.6	---	---	---
22	7.4	7.1	7.3	8.7	7.1	7.8	7.9	7.0	7.4	7.7	7.5	---
23	7.6	7.0	7.3	8.1	7.4	7.6	8.0	7.0	7.4	7.8	7.4	7.5
24	7.5	7.0	7.2	8.5	7.2	7.9	8.3	7.2	7.8	7.9	7.6	---
25	7.5	7.1	7.3	8.6	7.1	7.7	8.7	7.5	8.0	7.8	7.4	7.6
26	7.5	7.0	7.2	8.9	7.3	8.0	8.7	7.4	7.9	7.6	7.4	7.4
27	7.7	7.1	7.4	8.9	7.3	8.0	7.8	6.4	7.2	7.6	7.2	7.4
28	7.9	6.9	7.4	8.9	7.3	8.0	7.3	5.8	6.5	7.7	7.3	7.5
29	8.0	6.8	7.5	8.3	6.8	7.4	7.8	7.2	7.5	7.8	7.4	7.6
30	7.1	6.9	7.0	7.2	6.8	7.0	8.4	7.5	8.0	7.5	7.4	7.4
31	---	---	---	7.8	7.0	7.3	8.6	7.2	8.0	---	---	---
MONTH	8.0	6.1	7.2	8.9	6.5	7.5	9.2	5.8	7.7	---	---	---

TEMPERATURE (°C) OF WATER, 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	18.5	17.0	17.5	13.5	12.0	12.5	11.0	11.0	11.0	6.5	5.5	6.0
2	18.0	15.5	16.5	13.0	12.0	12.5	10.5	10.0	10.0	6.0	6.0	6.0
3	15.0	13.5	14.5	13.5	13.0	13.0	10.0	9.5	9.5	6.5	5.5	6.0
4	15.0	13.0	14.0	13.5	13.5	13.5	9.5	9.0	9.0	6.0	5.5	6.0
5	16.0	14.0	15.0	14.0	13.5	14.0	9.0	8.5	9.0	5.5	5.0	5.5
6	17.0	15.5	16.0	14.0	14.0	14.0	9.5	8.5	9.0	5.0	4.5	4.5
7	16.5	14.5	15.5	15.0	13.5	14.5	9.5	9.0	9.0	4.0	3.5	4.0
8	15.5	14.0	15.0	15.5	15.0	15.0	9.0	8.5	8.5	4.0	2.0	3.5
9	15.5	15.0	15.0	16.0	15.5	16.0	9.0	8.5	8.5	3.0	1.0	1.5
10	15.0	14.5	15.0	16.5	16.0	16.5	9.0	9.0	9.0	2.0	1.0	1.5
11	15.5	15.0	15.0	16.5	15.5	16.0	9.0	9.0	9.0	3.0	2.0	2.5
12	15.0	14.0	14.5	15.5	13.0	14.5	9.0	8.0	8.5	4.0	3.0	3.5
13	15.5	14.0	14.5	14.0	13.0	14.0	8.5	8.0	8.5	5.0	1.5	3.5
14	16.5	14.5	15.5	14.0	13.5	13.5	9.0	8.5	9.0	5.0	2.0	3.0
15	18.0	16.0	17.0	13.0	12.0	12.5	10.0	9.0	9.5	3.5	1.5	3.0
16	18.0	16.5	17.0	12.0	11.5	11.5	10.0	9.0	10.0	4.5	3.0	3.5
17	16.0	15.0	15.5	11.5	11.5	11.5	9.0	8.5	8.5	4.0	1.5	3.0
18	16.5	15.0	15.5	11.5	11.5	11.5	8.5	6.5	7.5	1.0	1.0	1.0
19	16.5	15.0	16.0	12.0	11.5	12.0	6.5	5.0	5.5	1.5	1.0	1.0
20	16.0	15.5	15.5	13.0	12.0	12.5	6.0	5.0	5.5	2.0	1.0	1.5
21	15.5	15.5	15.5	13.5	13.0	13.0	6.0	5.5	6.0	3.0	1.5	2.0
22	15.5	15.5	15.5	---	---	---	5.5	4.5	5.5	1.5	0.0	1.0
23	15.5	15.5	15.5	---	---	---	5.5	4.5	4.5	1.0	0.0	0.0
24	15.5	15.5	15.5	---	---	---	8.0	3.5	4.5	2.0	0.5	1.0
25	16.0	16.0	16.0	---	---	---	4.5	3.5	4.0	3.0	0.5	2.0
26	16.0	16.0	16.0	10.5	10.5	---	5.5	3.5	5.0	3.0	1.0	2.5
27	16.0	15.5	15.5	11.0	10.5	11.0	6.0	4.5	5.0	4.0	1.5	3.0
28	15.5	15.5	15.5	10.5	10.0	10.5	5.0	4.0	4.5	3.5	2.0	---
29	15.5	15.5	15.5	10.5	10.0	10.0	5.0	4.0	4.5	---	---	---
30	15.5	15.0	15.5	10.5	10.5	10.5	5.0	4.5	5.0	4.0	3.5	---
31	15.0	13.5	14.0	---	---	---	6.5	5.0	5.5	3.5	3.0	3.5
MONTH	18.5	13.0	15.5	16.5	10.0	13.0	11.0	3.5	7.5	6.5	0.0	3.0

01480870 EAST BRANCH BRANDYWINE CREEK BELOW DOWNINGTOWN, PA--Continued

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

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

DELAWARE RIVER BASIN

01480870 EAST BRANCH BRANDYWINE CREEK BELOW DOWNINGTOWN, PA--Continued

DISSOLVED OXYGEN (DO), MG/L, 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	12.3	10.3	11.5	7.5	7.0	7.2	8.7	8.3	8.5	9.4	8.3	9.2
2	12.4	11.0	11.7	7.2	6.6	7.0	9.2	8.6	8.9	9.4	8.8	9.2
3	13.3	12.0	---	6.8	6.2	6.5	9.5	9.0	9.2	9.4	8.8	9.1
4	---	---	---	6.2	5.6	5.9	9.6	9.3	9.4	9.5	9.4	---
5	---	---	---	6.5	5.3	5.8	10.2	9.3	9.7	---	---	---
6	11.0	9.0	---	6.1	5.5	5.9	10.2	9.5	9.8	---	---	---
7	11.1	8.9	9.8	5.9	5.8	---	10.0	9.4	9.7	12.4	10.8	---
8	11.8	9.2	10.2	---	---	---	10.2	9.6	9.9	12.8	12.0	12.4
9	9.4	8.3	9.0	---	---	---	9.8	9.2	9.6	13.6	12.8	13.3
10	9.9	8.3	9.0	8.2	7.6	---	9.2	8.9	9.1	13.8	12.8	13.4
11	9.2	8.6	8.9	7.6	6.6	7.0	9.1	8.8	---	13.4	12.8	13.1
12	9.8	7.8	8.8	8.4	6.8	7.3	9.4	8.2	---	13.3	12.5	12.8
13	9.4	7.3	8.3	8.2	7.4	7.7	8.4	7.4	8.0	13.6	12.1	12.9
14	9.2	6.9	7.8	8.0	7.4	7.7	9.0	7.1	7.9	13.1	12.0	12.7
15	9.0	6.6	7.6	8.4	7.9	8.3	9.0	8.1	---	13.4	12.6	13.0
16	10.5	6.9	8.6	8.8	8.4	8.6	---	---	---	13.1	12.1	12.7
17	9.8	7.8	8.6	8.9	8.1	8.5	9.7	7.7	---	13.3	12.1	12.8
18	8.5	6.5	7.5	8.8	8.1	8.4	9.4	7.4	8.4	13.9	13.3	13.6
19	7.6	6.5	---	8.8	8.4	8.6	10.8	8.9	10.0	13.8	13.5	13.6
20	6.8	6.5	---	8.8	8.1	8.4	11.2	7.1	10.2	13.4	13.1	13.3
21	7.0	6.6	6.8	8.2	8.0	8.2	10.5	7.8	9.2	13.5	13.0	13.1
22	6.9	6.7	6.8	---	---	---	10.4	9.0	9.7	14.1	13.4	13.8
23	7.2	6.6	7.0	---	---	---	10.9	9.6	10.1	14.5	14.0	14.2
24	7.7	7.2	7.5	---	---	---	11.4	10.0	10.7	14.0	13.4	13.8
25	7.3	6.2	6.7	---	---	---	11.4	10.4	10.9	14.3	13.3	13.9
26	6.1	5.5	5.9	8.8	8.6	---	10.7	9.3	10.0	13.9	13.2	13.4
27	6.0	5.4	5.8	8.6	8.2	8.4	10.8	9.2	10.4	13.3	12.4	12.8
28	5.6	5.2	5.4	8.8	8.1	8.5	11.2	10.5	10.9	13.0	11.5	---
29	5.8	5.1	5.5	9.1	8.6	8.8	11.4	10.8	11.0	---	---	---
30	6.5	5.8	6.1	8.8	8.0	8.6	10.9	10.2	10.6	12.4	12.0	---
31	7.1	6.4	6.7	---	---	---	10.3	8.4	9.4	12.7	12.0	12.4
MONTH	13.3	5.1	7.9	9.1	5.3	---	11.4	7.1	9.7	14.5	8.3	---
DAY	FEBRUARY			MARCH			APRIL			MAY		
	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	12.2	11.6	11.9	14.8	11.0	---	9.9	7.9	---	9.0	6.9	7.9
2	13.7	11.7	13.1	14.2	10.7	12.2	---	---	---	10.4	6.9	8.7
3	13.8	13.0	13.4	15.8	11.5	13.7	---	---	---	11.7	6.9	9.1
4	13.4	12.8	13.1	16.0	12.7	13.9	---	---	---	12.3	7.9	9.9
5	13.6	12.7	13.2	16.0	10.2	13.0	---	---	---	13.1	7.4	10.2
6	13.1	12.7	12.9	16.5	10.3	13.0	13.0	9.1	---	13.2	6.6	9.3
7	13.3	12.8	13.0	16.8	12.1	14.0	12.7	8.6	10.5	12.5	6.4	8.6
8	12.9	12.2	12.6	16.8	12.0	14.0	12.9	8.5	10.5	13.4	6.9	9.7
9	13.5	12.3	12.9	16.4	11.9	13.9	13.2	9.2	10.9	13.5	7.1	9.8
10	13.5	12.2	13.0	16.9	11.5	14.1	13.3	8.1	10.7	13.3	6.6	9.5
11	12.6	11.9	12.3	15.5	11.1	12.8	12.2	8.1	10.0	12.8	6.5	8.9
12	12.9	12.0	12.5	14.6	11.1	12.8	13.3	8.6	10.8	11.7	6.7	8.7
13	12.5	11.5	12.2	12.6	11.3	11.9	14.0	8.5	10.8	12.5	7.1	9.2
14	12.7	11.5	12.2	14.5	11.2	12.6	14.1	7.8	10.7	14.5	7.2	10.4
15	13.2	11.8	12.7	14.8	10.4	12.3	14.9	7.7	11.6	14.0	7.4	10.5
16	12.2	10.8	11.7	12.1	10.3	11.0	12.9	11.8	---	11.6	7.3	8.9
17	12.1	10.8	11.4	13.9	10.6	11.8	---	---	---	10.8	7.0	8.7
18	12.3	10.5	11.4	15.3	11.1	13.3	---	---	---	9.1	6.4	7.5
19	11.8	10.6	11.1	15.6	10.3	12.9	---	---	---	8.0	6.5	7.3
20	11.9	10.6	---	15.4	9.7	12.2	13.3	5.7	8.8	8.8	6.8	7.7
21	---	---	---	14.7	9.6	11.3	12.6	5.6	8.4	8.8	6.1	7.1
22	---	---	---	15.5	10.0	12.6	12.3	6.3	9.1	8.6	6.2	7.3
23	---	---	---	15.3	10.9	12.9	13.1	6.8	9.5	9.5	6.4	7.6
24	---	---	---	14.9	9.9	12.5	13.0	6.7	9.2	11.0	6.7	8.5
25	14.6	12.2	---	14.2	9.6	11.6	10.3	6.7	8.2	10.6	7.5	8.8
26	14.8	12.0	13.2	13.1	7.6	10.5	10.8	7.2	9.0	11.1	8.5	9.7
27	12.6	12.3	---	13.1	7.4	9.3	12.1	8.1	9.9	11.3	7.7	9.8
28	---	---	---	13.3	7.3	9.9	13.9	7.9	10.1	11.5	7.2	9.1
29	---	---	---	14.1	8.1	10.7	13.0	7.6	9.8	10.4	7.1	8.7
30	---	---	---	14.1	8.1	10.7	13.2	7.0	9.7	9.6	7.3	8.4
31	---	---	---	12.6	7.6	9.6	---	---	---	10.5	7.1	8.7
MONTH	14.8	10.5	---	16.9	7.3	12.2	---	---	---	14.5	6.1	8.8

DISSOLVED OXYGEN (DO), MG/L, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

[illegible]

DELAWARE RIVER BASIN

01481000 BRANDYWINE CREEK AT CHADDS FORD, PA

LOCATION.--Lat 39°52'11", long 75°35'37", Delaware County, Hydrologic Unit 02040205, on left bank 27 ft (8 m) upstream from Penn Central Railroad bridge at Chadds Ford, 150 ft (46 m) upstream from Harvey Run and 1,200 ft (370 m) downstream from highway bridge on U.S. Highway 1.

DRAINAGE AREA.--287 mi² (743 km²), including that of Harvey Run.

WATER-DISCHARGE RECORDS

PERIOD OF RECORD--August 1911 to December 1953, October 1962 to current year. Monthly discharge only for some periods, published in WSP 1302.

REVISED RECORDS.--WSP 756: Drainage area. WSP 1202: 1919-20, 1932-33, 1936, 1938(P), 1942, (maximum only, 1917-18, 1922-31, 1934, 1939, 1944-46). WDR PA-72: 1971.

GAGE.--Water-stage recorder. Datum of gage is 150.45 ft (45.857 m) above mean sea level. Prior to May 21, 1927, nonrecording gage at same site and datum.

REMARKS.--Records good. Flow regulated by Marsh Creek Reservoir (see p. 130) about 17 mi (27 km) upstream.

AVERAGE DISCHARGE.--56 years, (1911-53, 1962-76), 390 ft³/s (11.0 m³/s), 18.44 in/yr (468 mm/yr), adjusted for storage since November 1973.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 23,800 ft³/s (674 m³/s) June 22, 1972, gage height, 16.56 ft (5.047 m) from rating curve extended above 9,000 ft³/s (255 m³/s) on basis of area-velocity study; minimum, 4.9 ft³/s (0.14 m³/s) Oct. 2, 1941, gage height, 0.28 ft (0.085 m); minimum daily, 42 ft³/s (1.19 m³/s) Sept. 12, 1966.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 5,200 ft³/s (147 m³/s) Jan. 28, gage height, 8.78 ft (2.676 m); minimum, 104 ft³/s (2.95 m³/s) Sept. 7, gage height, 1.45 ft (0.442 m); minimum daily, 114 ft³/s (3.23 m³/s) Sept. 14. 15.

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	422	377	390	2230	703	479	1580	480	241	327	232	147
2	406	375	390	999	1420	436	676	641	1460	214	201	160
3	382	371	370	943	713	437	510	361	467	193	184	156
4	372	369	361	1010	645	451	440	313	318	219	168	151
5	364	362	355	689	622	456	463	295	276	241	160	144
6	358	356	358	646	595	460	430	286	254	210	180	147
7	345	352	355	611	554	428	410	281	250	193	267	121
8	335	412	346	725	547	413	398	276	241	267	232	121
9	336	390	349	469	516	423	390	267	227	259	528	121
10	350	406	374	419	482	451	375	263	223	193	666	132
11	410	500	353	422	714	473	366	254	214	1670	327	151
12	593	601	339	429	681	516	361	366	214	765	250	129
13	395	1520	339	435	520	799	356	286	206	342	219	121
14	359	700	340	1370	529	629	351	267	206	286	422	114
15	343	513	337	570	486	474	337	267	206	259	259	114
16	333	467	352	466	494	459	347	267	201	250	263	241
17	332	443	343	445	580	480	337	332	380	259	214	463
18	737	428	333	356	592	421	332	370	267	219	180	286
19	2410	417	309	350	799	421	323	366	241	197	164	214
20	978	410	306	346	558	413	323	281	236	188	160	176
21	651	478	303	342	504	427	318	295	402	184	164	164
22	524	467	301	340	709	446	323	281	418	241	156	164
23	479	418	300	339	661	424	318	254	394	193	147	151
24	452	405	298	338	512	421	295	241	267	272	144	136
25	462	396	298	337	500	419	309	236	232	201	132	136
26	447	388	1090	1200	494	414	366	236	214	176	136	156
27	428	397	741	3360	517	411	313	241	201	164	593	180
28	414	399	474	3080	508	473	290	227	206	164	475	164
29	405	379	446	954	496	426	290	227	201	201	232	147
30	401	375	530	760	---	412	286	286	267	1260	188	176
31	383	---	765	665	---	408	---	272	---	309	160	---
TOTAL	15606	13871	12545	25645	17651	14200	12253	9315	9130	10116	7803	4983
MEAN	503	462	405	827	609	458	408	300	304	326	252	166
MAX	2410	1520	1090	3360	1420	799	1580	641	1460	1670	666	463
MIN	332	352	298	337	482	408	286	227	201	164	132	114
MEAN#	500	461	386	794	594	471	431	308	316	336	252	166
CFSM#	1.74	1.61	1.34	2.77	2.07	1.64	1.50	1.07	1.10	1.17	.88	.58
IN.#	2.01	1.80	1.54	3.19	2.23	1.89	1.67	1.23	1.23	1.35	1.02	.65

CAL YR 1975 TOTAL 230286 MEAN 631 MAX 7640 MIN 227 MEAN# 629 CFSM# 2.19 IN.# 29.77
WTR YR 1976 TOTAL 153118 MEAN 418 MAX 3360 MIN 114 MEAN# 418 CFSM# 1.46 IN.# 19.82

Adjusted for change in contents in Marsh Creek Reservoir.

DELAWARE RIVER BASIN

279

01481000 BRANDYWINE CREEK AT CHADDS FORD, PA--Continued

WATER-QUALITY RECORDS

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

PERIOD OF DAILY RECORD.--

SPECIFIC CONDUCTANCE: October 1965 to current year.

pH: October 1965 to September 1966, December 1971 to current year.

WATER TEMPERATURES: October 1964 to current year.

DISSOLVED OXYGEN: October 1971 to current year.

SUSPENDED SEDIMENT DISCHARGE: July 1963 to current year.

REMARKS.--Unpublished records of specific conductance, pH, and temperature of sediment samples available in the district office at Harrisburg. Sediment data from 01481500 Brandywine Creek at Wilmington, Del., are used in computation of sediment records.

EXTREMES FOR PERIOD OF DAILY RECORD.--

SPECIFIC CONDUCTANCE: Maximum, 445 micromhos Oct. 25, 1971; minimum, 71 micromhos June 23, 1972.

DISSOLVED OXYGEN: Maximum, 16.5 mg/l Jan. 13, 1973; minimum, 4.7 July 10, 1975.

pH: Maximum, 9.8 Apr. 9, 1975; minimum, 6.1 Feb. 22, 1976.

WATER TEMPERATURES: Maximum, 29.0°C Aug. 9, 17, 1965; minimum daily, freezing point on many days during winter months.

SEDIMENT CONCENTRATIONS: Maximum daily, 2,000 mg/l (estimated) Feb. 8, 1965; minimum daily, 1 mg/l on many days.

SEDIMENT DISCHARGES: Maximum daily, 20,000 tons (18,100 t) (estimated) Feb. 8, 1965; minimum daily, 0 tons (0 t) on Oct. 7, 8, 1967.

EXTREMES FOR CURRENT YEAR.--

SPECIFIC CONDUCTANCE: Maximum 397 micromhos Jan. 26; minimum, 139 micromhos June 2.

pH: Maximum 9.2 Mar. 26; minimum, 6.1 Feb. 22.

WATER TEMPERATURES: Maximum, 26.5°C June 26-29; minimum, freezing point on many days during December through February.

SEDIMENT CONCENTRATIONS: Maximum daily, 726 mg/l July 11; minimum daily, 1 mg/l on several days during October through December.

SEDIMENT DISCHARGES: Maximum daily, 5,410 tons (4,910 t) July 11; minimum daily, 0.83 tons (0.75 t) Dec. 19, 20.

WATER QUALITY DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)	TEMPERATURE (DEG C)	DISSOLVED OXYGEN (MG/L)	HARDNESS (CA, MG)	NON-CARBONATE HARDNESS (MG/L)	DISSOLVED CALCIUM (CA) (MG/L)	DISSOLVED MAGNESIUM (MG)
OCT 30...	1130	425	210	7.4	13.5	10.0	81	32	20	7.5

DATE	DISSOLVED SODIUM (NA) (MG/L)	DISSOLVED POTASSIUM (K) (MG/L)	BICARBONATE (HCO3) (MG/L)	CARBONATE (CO3) (MG/L)	ALKALINITY AS CaCO3 (MG/L)	CARRON DIOXIDE (CO2) (MG/L)	DISSOLVED SULFATE (SO4) (MG/L)	DISSOLVED CHLORIDE (CL) (MG/L)	DISSOLVED FLUORIDE (F) (MG/L)
OCT 30...	8.0	2.6	60	0	49	3.8	21	14	.3

DATE	DISSOLVED SILICA (SI02) (MG/L)	DISSOLVED SOLIDS (RESIDUE AT 180 C) (MG/L)	DISSOLVED SOLIDS (SUM OF CONSTITUENTS) (MG/L)	TOTAL NITRATE (N) (MG/L)	TOTAL AMMONIA NITROGEN (N) (MG/L)	TOTAL ORGANIC NITROGEN (N) (MG/L)	TOTAL KJELDAHL NITROGEN (N) (MG/L)	TOTAL PHOSPHORUS (P) (MG/L)	TOTAL ORTHO PHOSPHORUS (P) (MG/L)
OCT 30...	11	133	114	2.7	.05	.81	.86	.16	.13

DATE	DISSOLVED CADMIUM (CD) (UG/L)	DISSOLVED CHROMIUM (CR) (UG/L)	DISSOLVED COBALT (CO) (UG/L)	DISSOLVED COPPER (CU) (UG/L)	DISSOLVED IRON (FE) (UG/L)	DISSOLVED LEAD (PB) (UG/L)	DISSOLVED MANGANESE (MN) (UG/L)	DISSOLVED NICKEL (NI) (UG/L)	DISSOLVED ZINC (ZN) (UG/L)
OCT 30...	1	<10	1	0	60	6	30	6	10

DELAWARE RIVER BASIN

01481000 BRANDYWINE CREEK AT CHADDS FORD, PA--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

DATE	TIME	INSTAN- TANEOUS DIS- CHARGE (CFS)	SPF- CIFIC CON- DUCT- ANCE (MICRO- MHOS)	PH (UNITS)	TEMPER- ATURE (DEG C)	DIS- SOLVED OXYGEN (MG/L)	FECAL COLI- FORM (COL. PER 100 ML)	TOTAL ORGANIC CARBON (C) (MG/L)
OCT								
04...	1440	366	260	8.1	15.0	10.8	880	1.7
17...	1230	337	240	7.9	17.0	9.2	81500	2.8
22...	0850	555	245	7.2	13.0	9.2	--	1.8
31...	1030	390	250	7.2	9.0	10.8	390	--
NOV								
10...	1345	390	255	7.0	15.0	9.6	--	6.4
17...	1115	460	280	7.1	7.5	12.2	--	3.4
DEC								
05...	1330	356	240	7.4	4.5	13.5	--	6.2
17...	0900	342	280	6.3	4.5	9.8	320	1.4
17...	0900	347	260	7.2	6.0	10.8	8230	2.5
30...	1500	530	225	7.6	4.0	14.3	390	6.2
JAN								
07...	1155	645	235	6.8	.5	13.5	230	11
14...	0900	2240	300	6.7	4.0	12.6	440	20
21...	1430	415	280	7.0	.5	14.0	--	4.8
29...	0930	980	250	6.9	3.5	13.0	--	6.2
FEB								
05...	1200	660	330	6.8	3.0	13.6	--	--
11...	1500	685	280	7.1	5.0	12.0	--	2.7
19...	1200	875	260	6.6	8.0	10.1	--	10
27...	0915	560	230	6.8	7.0	11.2	--	2.2
MAR								
03...	1030	455	240	6.7	6.5	10.8	--	5.2
16...	1230	445	260	6.4	6.5	11.0	570	5.2
26...	0830	420	250	7.3	12.0	6.6	370	4.4
APR								
07...	0945	690	200	6.5	9.5	10.4	650	8.2
07...	0900	425	210	6.8	9.5	9.4	870	--
17...	1345	361	210	8.0	9.0	14.0	8420	5.1
22...	1300	347	226	7.1	20.0	8.6	240	3.8
29...	0830	318	250	7.2	9.5	11.2	1200	8.5
MAY								
06...	1400	290	230	7.8	16.0	10.8	--	--
17...	0930	475	230	6.8	15.5	8.6	--	3.0
18...	1230	385	220	6.8	19.0	7.6	2600	3.3
27...	0930	268	220	7.0	14.0	8.2	360	3.0
JUN								
03...	1100	470	180	6.9	15.5	8.8	--	9.4
08...	0900	273	220	6.9	19.0	8.2	700	1.9
16...	1100	237	240	7.1	23.0	8.0	360	2.1
22...	1300	405	200	7.1	23.0	6.8	E6000	6.7
29...	1015	228	230	7.1	25.0	7.2	380	3.5
JUL								
07...	1330	240	225	7.4	24.0	8.4	420	4.4
16...	0830	246	220	7.2	21.5	8.4	410	--
23...	0830	224	225	7.5	21.5	8.0	320	--
28...	1330	206	250	8.2	23.0	11.6	230	4.0
AUG								
04...	0900	206	300	7.1	20.0	10.0	400	--
13...	1230	232	320	7.2	23.5	9.2	510	--
27...	1000	152	260	7.4	24.0	8.0	360	3.0
SEP								
02...	1230	168	240	7.5	20.0	10.0	240	3.2
15...	0930	156	207	7.4	19.0	8.6	200	4.8
22...	1230	215	190	7.6	17.0	10.0	220	--

DATE	TIME	INSTAN- TANEOUS DIS- CHARGE (CFS)	TEMPER- ATURE (DEG C)	SUS- PENDE SEDI- MENT (MG/L)	SUS- PENDE SEDI- MENT DIS- CHARGE (T/DAY)	SUS. SED. FALL DIAM. % FINER THAN .004 MM	SUS. SED. FALL DIAM. % FINER THAN .008 MM	SUS. SED. FALL DIAM. % FINER THAN .016 MM	SUS. SED. FALL DIAM. % FINER THAN .031 MM	SUS. SED. FALL DIAM. % FINER THAN .062 MM	SUS. SED. FALL DIAM. % FINER THAN .125 MM
JAN											
14...	1030	1940	4.0	479	2510	37	56	77	91	99	100

01481000 BRANDYWINE CREEK AT CHADDS FORD, PA--Continued

SPECIFIC CONDUCTANCE (MICROMHOS/CM AT 25°C), 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	273	266	270	272	266	268	256	247	252	245	169	194
2	276	265	270	270	260	266	255	248	253	249	213	223
3	277	267	272	264	258	262	259	254	256	245	225	232
4	277	270	275	267	258	263	262	257	259	250	214	224
5	281	272	277	270	264	267	267	262	---	226	219	223
6	276	271	273	268	264	266	---	---	---	232	225	228
7	277	272	275	269	264	268	---	---	---	246	227	230
8	281	275	278	270	261	265	---	---	---	364	251	312
9	282	275	279	270	255	259	---	---	---	305	270	290
10	280	271	277	260	246	254	233	232	---	272	265	269
11	276	270	273	253	238	246	236	231	233	266	256	259
12	271	236	249	248	202	236	243	235	239	283	258	263
13	251	242	248	215	202	210	243	235	239	334	280	302
14	255	250	253	234	214	225	245	239	242	299	210	244
15	252	242	247	244	234	239	253	239	246	246	217	236
16	243	237	240	248	244	246	255	238	248	253	246	251
17	246	235	242	247	244	245	259	254	257	259	253	256
18	235	214	222	253	248	252	261	254	258	275	256	265
19	218	151	181	257	251	254	264	258	260	278	267	272
20	221	178	202	259	255	257	280	265	271	272	263	269
21	241	223	234	261	243	252	277	269	274	330	262	281
22	251	240	246	250	243	246	274	263	268	350	302	317
23	260	250	254	256	245	251	269	264	266	366	322	338
24	259	252	256	255	253	254	275	260	267	366	294	317
25	262	255	259	255	251	253	274	263	268	306	295	301
26	261	253	257	257	252	255	308	239	266	397	283	313
27	258	254	256	257	251	254	244	226	234	271	228	242
28	263	255	259	263	253	259	275	240	258	248	226	236
29	269	260	264	255	249	252	264	257	261	259	249	255
30	264	260	262	253	250	252	259	227	240	263	257	260
31	272	263	267	---	---	---	231	221	226	267	257	263
MONTH	282	151	255	272	202	253	308	221	254	397	169	263
DAY	FEBRUARY			MARCH			APRIL			MAY		
	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	266	259	262	232	226	230	242	167	200	266	231	255
2	265	223	240	237	230	235	222	183	206	233	216	222
3	259	238	253	244	236	241	231	223	227	244	222	233
4	286	260	272	249	244	246	240	231	235	271	246	257
5	335	260	300	250	240	245	240	228	233	262	237	246
6	262	250	254	248	242	245	237	231	235	240	227	234
7	266	248	257	243	236	240	239	207	219	234	230	232
8	294	248	260	244	237	240	216	210	212	235	230	233
9	292	252	273	246	238	241	217	209	213	234	225	231
10	257	238	251	296	241	260	214	208	211	234	225	230
11	274	251	260	386	313	342	218	211	214	234	226	230
12	250	228	237	310	259	281	221	206	212	235	223	228
13	250	242	246	268	237	256	212	206	209	229	221	226
14	255	247	250	237	222	227	217	209	213	237	229	234
15	253	244	249	244	237	240	216	206	211	242	233	238
16	251	248	249	266	243	254	217	212	214	248	239	244
17	257	251	253	268	261	264	220	211	215	248	218	234
18	264	243	250	266	261	264	219	213	216	228	219	223
19	270	246	256	272	266	269	225	212	219	233	217	223
20	261	248	255	275	264	270	224	213	220	232	222	226
21	259	252	255	272	266	269	226	222	223	236	231	233
22	256	245	250	274	260	266	227	218	223	243	231	236
23	252	241	246	267	261	264	225	220	222	244	237	241
24	260	251	255	267	261	264	227	221	224	244	233	240
25	258	254	256	269	261	266	229	221	226	243	233	238
26	264	255	257	272	246	256	230	216	222	244	235	241
27	263	233	241	255	244	249	242	219	231	235	220	227
28	234	228	231	249	243	247	252	243	249	235	221	228
29	233	229	232	246	233	238	255	249	254	236	230	234
30	---	---	---	246	236	241	265	255	260	235	215	226
31	---	---	---	248	241	244	---	---	---	220	209	215
MONTH	335	223	253	386	222	255	265	167	222	271	209	233

DELAWARE RIVER BASIN

01481000 BRANDYWINE CREEK AT CHADDS FORD, PA--Continued

SPECIFIC CONDUCTANCE (MICROMHOS/CM AT 25°C), WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

DAY	JUNE			JULY			AUGUST			SEPTEMBER		
	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	216	211	214	248	209	222	357	321	332	236	225	229
2	185	139	154	253	215	233	339	332	336	246	231	238
3	216	159	181	269	253	261	334	307	323	255	243	248
4	266	206	230	282	269	276	310	299	305	254	243	248
5	273	225	243	280	263	269	322	301	309	251	243	247
6	232	225	229	262	245	253	322	310	316	249	238	245
7	279	226	240	261	225	252	318	280	304	250	246	---
8	279	227	239	235	219	227	307	295	301	---	---	---
9	233	229	231	246	207	235	301	203	264	237	227	---
10	237	231	234	251	199	219	244	202	230	243	233	239
11	245	233	238	263	233	255	274	240	254	248	230	241
12	241	234	238	262	143	208	297	276	288	246	227	237
13	246	237	241	314	169	238	325	299	311	237	228	232
14	244	239	242	360	295	325	315	232	283	240	230	233
15	241	235	238	317	295	307	291	256	274	245	202	218
16	242	235	238	293	221	258	274	255	265	207	190	201
17	237	204	220	279	223	239	268	244	253	192	144	158
18	225	213	219	277	263	270	248	242	245	166	149	158
19	234	221	227	277	257	269	249	245	247	169	162	167
20	239	234	237	280	277	279	259	244	249	179	170	177
21	237	188	225	280	275	278	258	248	253	188	174	179
22	209	184	197	287	246	281	261	252	257	198	184	189
23	226	206	215	282	219	240	264	254	257	196	187	191
24	229	212	218	233	220	225	266	249	258	198	191	194
25	255	231	247	222	213	219	258	254	255	204	197	200
26	304	252	265	229	214	223	262	253	257	202	198	199
27	310	287	303	230	218	223	264	149	237	200	189	196
28	316	268	292	242	230	235	171	145	159	196	184	190
29	267	226	243	241	206	229	201	173	189	199	191	195
30	242	229	238	303	226	261	230	203	218	198	191	194
31	---	---	---	325	303	318	234	222	228	---	---	---
MONTH	316	139	233	360	143	252	357	145	266	255	144	209

PH (UNITS), 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	7.3	7.2	7.2	7.8	7.4	7.6	7.5	6.5	7.1	7.0	6.9	6.9
2	7.4	7.2	7.3	7.9	7.5	7.6	7.7	7.1	7.3	7.0	6.9	7.0
3	7.4	7.2	7.3	7.7	7.3	7.5	7.6	7.1	7.4	7.0	7.0	7.0
4	7.4	7.2	7.3	7.8	7.1	7.5	7.7	7.3	7.5	7.1	6.9	7.0
5	7.5	7.2	7.3	7.8	7.2	7.5	7.4	7.2	---	7.1	7.0	7.1
6	8.5	7.2	7.8	7.8	7.1	7.5	---	---	---	7.5	7.1	7.2
7	8.4	7.5	7.9	8.0	7.1	7.6	---	---	---	7.3	7.1	7.2
8	8.6	7.6	8.0	7.7	7.3	7.5	---	---	---	7.3	7.2	7.2
9	8.0	7.6	7.7	7.7	7.2	7.4	---	---	---	7.4	7.3	7.3
10	7.7	7.5	7.6	7.3	7.1	7.2	7.9	7.7	---	7.4	7.3	7.4
11	7.8	7.6	7.7	7.3	7.1	7.2	8.1	7.5	7.7	7.4	7.3	7.3
12	7.7	7.5	7.6	7.1	6.7	7.0	7.7	7.5	---	7.5	7.3	7.4
13	7.7	7.4	7.6	6.9	6.7	6.8	---	---	---	7.4	7.3	7.4
14	7.9	7.5	7.7	7.0	6.9	7.0	---	---	---	7.2	6.7	7.0
15	8.0	7.5	7.7	7.1	6.9	7.0	7.8	7.5	---	7.1	7.0	7.0
16	8.0	7.6	7.7	7.1	6.9	7.0	8.0	7.3	7.6	7.1	7.0	7.1
17	7.6	7.2	7.3	7.3	6.9	7.1	7.9	7.3	7.6	7.2	7.1	7.1
18	8.0	6.9	7.6	7.3	7.1	7.2	8.0	7.4	7.7	7.2	7.1	7.1
19	8.2	6.9	7.2	7.4	7.1	7.2	8.0	7.6	7.8	7.1	6.6	7.0
20	7.2	7.1	7.1	7.4	7.1	7.3	7.9	7.6	7.8	7.1	7.0	7.1
21	7.2	7.1	7.1	7.3	6.6	7.0	7.9	7.6	7.7	7.2	7.0	7.1
22	7.2	7.0	7.2	7.3	7.1	7.2	7.8	7.5	7.7	7.2	7.2	7.2
23	7.2	7.1	7.1	7.3	7.0	7.2	7.9	7.6	7.7	7.2	7.1	7.1
24	7.1	7.0	7.1	7.3	7.0	7.1	7.8	7.6	7.7	7.1	7.0	7.1
25	7.1	7.0	7.0	7.3	7.0	7.2	7.8	7.6	7.7	7.1	7.1	7.1
26	7.2	7.0	7.1	7.5	7.1	7.3	7.7	7.3	7.4	7.1	6.8	7.0
27	7.3	7.1	7.2	7.2	6.3	7.0	7.5	7.4	7.5	6.9	6.8	6.9
28	7.4	7.1	7.2	7.6	7.0	7.3	7.7	7.5	7.6	7.4	6.8	7.0
29	7.4	7.2	7.3	7.6	7.1	7.3	7.7	7.6	7.7	7.1	6.9	7.0
30	7.5	7.2	7.3	7.5	7.0	7.2	7.7	7.2	7.4	7.1	7.1	7.1
31	7.6	7.2	7.4	---	---	---	7.2	7.0	7.1	7.1	7.0	7.1
MONTH	8.6	6.9	7.4	8.0	6.3	7.3	8.1	6.5	---	7.5	6.6	7.1

DELAWARE RIVER BASIN

01481000 BRANDYWINE CREEK AT CHADDS FORD, PA--Continued

PH (UNITS), WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

DAY	FEBRUARY			MARCH			APRIL			MAY		
	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	7.1	7.0	7.0	8.0	6.9	7.4	8.1	7.1	7.3	8.0	7.0	7.3
2	7.0	6.9	7.0	7.4	6.9	7.1	7.3	6.7	7.0	7.2	6.9	7.0
3	7.1	7.0	7.0	7.4	6.7	7.1	7.3	6.9	7.1	7.1	7.0	---
4	7.1	7.0	7.0	7.5	7.0	7.3	7.1	6.9	7.0	---	---	---
5	7.0	6.8	6.9	7.7	7.0	7.3	7.7	6.9	7.2	---	---	---
6	6.9	6.9	6.9	7.7	6.9	7.3	7.9	6.9	7.4	8.3	7.8	---
7	7.0	6.8	6.9	7.7	7.0	7.4	8.2	7.0	7.6	8.3	7.4	7.8
8	7.0	6.9	7.0	7.8	7.0	7.4	8.2	7.0	7.6	8.6	7.5	8.0
9	7.1	7.0	7.0	7.6	7.0	7.2	8.4	7.1	7.8	8.7	7.8	8.3
10	7.1	7.0	7.1	7.9	6.9	7.4	8.4	7.2	7.9	8.8	7.8	8.4
11	7.1	7.0	7.0	8.1	7.1	7.6	8.4	7.2	7.0	8.5	7.8	8.2
12	6.9	6.9	6.9	7.8	7.1	7.4	8.6	7.3	8.0	7.8	6.9	7.4
13	6.9	6.8	6.9	7.3	7.0	7.1	8.6	7.5	8.1	7.8	6.9	7.3
14	7.0	6.8	6.9	7.5	7.1	7.3	8.6	7.4	7.9	7.6	7.0	7.2
15	7.0	6.8	6.9	7.7	7.1	7.4	8.2	7.2	7.5	7.7	7.0	7.3
16	7.0	6.8	6.9	7.5	7.0	7.2	8.0	7.1	7.4	7.3	7.0	7.1
17	7.0	6.8	6.9	7.9	7.2	7.5	7.8	7.0	7.3	7.2	7.0	7.1
18	7.0	6.8	6.9	7.9	7.3	7.6	7.5	6.9	7.1	7.3	6.9	7.1
19	6.9	6.6	6.8	8.2	7.3	7.8	7.6	7.0	7.2	7.4	7.2	7.3
20	7.2	6.9	7.0	8.5	7.3	7.9	7.3	6.8	7.0	7.5	7.2	7.4
21	7.2	6.6	7.0	8.2	7.3	7.8	7.5	6.9	7.1	7.4	7.2	7.3
22	7.5	6.1	6.8	8.5	7.3	7.9	7.7	6.8	7.2	7.5	7.2	7.3
23	7.1	6.8	7.0	8.4	7.4	8.0	8.0	7.0	7.5	7.6	7.2	7.4
24	7.1	6.8	7.0	8.6	7.4	8.0	8.0	7.1	7.5	7.6	7.2	7.4
25	7.2	6.8	7.0	8.8	7.4	8.2	7.5	7.0	7.2	7.4	7.2	7.3
26	7.3	6.9	7.1	9.2	7.4	8.5	7.3	6.9	7.1	7.5	7.2	7.3
27	7.7	6.8	7.2	8.9	7.8	8.4	7.9	7.1	7.5	7.9	7.2	7.5
28	7.7	6.9	7.3	9.0	7.5	8.3	8.1	7.2	7.7	8.0	7.3	7.6
29	7.8	7.0	7.4	9.1	7.6	8.4	8.2	7.3	7.8	7.6	7.2	7.4
30	---	---	---	9.1	7.7	8.5	8.3	7.3	7.8	7.3	7.2	7.2
31	---	---	---	8.8	7.7	8.3	---	---	---	7.6	7.1	7.3
MONTH	7.8	6.1	7.0	9.2	6.7	7.7	8.6	6.7	7.4	8.8	6.9	7.5
DAY	JUNE			JULY			AUGUST			SEPTEMBER		
	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	7.7	7.1	7.4	7.3	7.0	7.1	7.6	7.1	7.3	7.9	7.2	7.5
2	7.1	6.9	7.0	7.4	6.9	7.1	7.6	7.4	7.5	7.6	7.2	7.4
3	7.1	6.9	---	7.6	7.1	7.3	7.8	7.2	7.4	8.1	7.3	7.7
4	---	---	---	7.6	7.1	7.3	8.4	7.2	7.9	8.4	7.4	7.9
5	---	---	---	8.1	7.2	7.5	8.7	7.5	8.2	8.4	7.4	7.9
6	---	---	---	8.2	7.8	8.0	8.8	7.8	8.4	8.3	7.4	7.9
7	---	---	---	8.0	7.7	7.8	8.1	7.1	7.4	8.0	7.4	---
8	7.5	7.3	---	7.9	7.6	7.7	7.3	7.0	7.1	---	---	---
9	7.7	7.2	7.4	7.7	7.2	7.5	7.2	7.0	7.1	8.2	7.5	---
10	7.9	7.1	7.4	7.5	7.1	7.3	7.1	7.0	7.1	7.9	7.4	7.6
11	7.9	7.0	7.4	7.8	7.3	7.5	7.2	7.0	7.1	7.9	7.4	7.6
12	7.9	6.9	7.3	7.6	6.8	7.1	7.3	7.0	7.2	8.1	7.4	7.7
13	7.5	6.9	7.2	7.3	6.8	7.1	7.5	7.1	7.3	8.1	7.4	7.7
14	7.2	6.9	7.0	7.3	7.2	7.3	7.3	6.8	7.1	8.2	7.4	7.8
15	7.3	6.9	7.1	7.4	7.2	7.3	7.1	6.9	7.0	8.2	7.4	7.7
16	7.7	6.9	7.3	7.5	7.2	7.3	7.4	6.9	7.0	7.7	7.5	7.6
17	7.4	6.9	7.1	7.9	7.4	7.5	7.5	7.1	7.3	7.5	7.3	7.4
18	7.2	6.9	7.0	7.8	7.4	7.6	8.0	7.3	7.7	7.6	7.3	7.4
19	7.7	7.1	7.3	8.1	7.4	7.7	8.2	7.2	7.7	7.5	7.3	7.4
20	7.8	7.4	7.6	8.5	7.5	7.9	8.2	7.3	7.8	7.8	7.2	7.5
21	7.5	7.1	7.3	8.6	7.7	8.2	8.3	7.3	7.8	7.6	7.4	7.5
22	7.2	7.0	7.1	8.6	7.5	7.9	8.4	7.2	7.9	7.8	7.5	7.6
23	7.5	7.1	7.2	7.9	7.3	7.5	8.5	7.2	7.9	7.8	7.5	7.6
24	7.7	7.3	7.5	7.8	7.2	7.5	8.4	7.3	7.9	7.9	7.4	7.7
25	8.1	7.4	7.7	8.0	7.4	7.7	8.3	7.2	7.9	7.9	7.4	7.7
26	7.7	7.3	7.5	8.2	7.4	7.8	8.4	7.3	7.9	7.7	7.5	7.6
27	7.7	7.3	7.5	8.5	7.4	8.0	8.2	6.9	7.4	7.7	7.4	7.5
28	7.8	7.3	7.6	8.7	7.5	8.2	6.9	6.8	6.9	7.9	7.4	7.6
29	7.7	7.2	7.5	8.6	6.9	7.6	7.2	6.8	7.0	7.9	7.4	7.7
30	7.5	7.2	7.4	7.2	6.9	7.0	7.5	7.1	7.3	7.7	7.4	7.5
31	---	---	---	7.5	7.1	7.2	7.6	7.2	7.4	---	---	---
MONTH	8.1	6.9	7.3	8.7	6.8	7.5	8.8	6.8	7.5	8.4	7.2	7.6

DELAWARE RIVER BASIN

01481000 BRANDYWINE CREEK AT CHADDS FORD, PA--Continued

TEMPERATURE (°C) OF WATER, 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	16.5	15.0	15.5	10.0	8.5	9.5	9.5	7.0	8.5	4.0	1.5	2.0
2	16.0	14.5	15.5	11.5	10.0	10.5	7.0	5.5	6.0	1.5	0.5	1.0
3	14.5	12.0	13.0	13.0	11.0	12.0	5.0	4.0	4.5	3.0	1.5	2.5
4	13.0	11.0	12.0	14.0	12.0	13.5	4.5	4.0	4.0	3.0	0.5	1.5
5	13.5	11.5	12.5	14.5	13.0	14.0	4.0	3.5	---	1.0	0.0	0.5
6	15.5	13.5	14.5	14.0	12.0	13.0	---	---	---	1.0	0.0	0.5
7	15.0	14.0	14.5	14.5	12.0	13.0	---	---	---	2.0	0.0	1.0
8	14.5	13.0	14.0	16.5	14.5	15.5	---	---	---	3.0	1.0	2.5
9	14.0	13.5	13.5	16.5	15.5	16.0	---	---	---	1.0	0.0	0.0
10	13.5	13.5	13.5	16.5	15.5	16.0	6.0	5.5	---	0.0	0.0	0.0
11	14.0	13.5	13.5	15.0	12.0	13.5	5.5	5.0	5.0	0.5	0.0	0.0
12	14.0	13.0	13.5	11.5	10.5	11.0	6.0	4.5	5.0	1.5	0.5	1.0
13	14.0	12.0	13.0	11.5	10.5	11.0	7.0	6.0	6.5	3.0	0.5	1.5
14	15.5	13.0	14.0	10.0	8.0	9.0	8.5	7.0	8.0	3.0	2.0	2.5
15	16.5	14.5	15.5	8.0	6.5	7.5	9.5	7.0	8.5	2.0	1.5	2.0
16	17.0	16.0	16.5	8.0	6.5	7.5	10.0	8.0	9.5	3.0	1.5	2.5
17	16.5	14.0	15.0	8.5	6.5	7.5	8.0	5.5	6.0	3.0	0.5	2.0
18	16.0	14.0	15.0	9.5	7.0	8.5	5.5	3.0	4.5	0.5	0.0	0.0
19	16.0	14.5	15.0	10.5	8.5	9.5	3.0	0.5	1.0	0.5	0.0	0.0
20	14.5	14.0	14.5	10.5	9.5	10.0	2.0	0.5	1.0	0.5	0.0	0.0
21	14.0	13.0	13.5	11.0	10.5	10.5	3.0	2.0	2.5	0.5	0.0	0.5
22	15.0	13.0	14.0	10.5	8.0	9.5	3.0	1.0	2.0	0.5	0.0	0.0
23	15.5	14.0	15.0	8.0	6.5	7.0	1.0	0.5	1.0	0.0	0.0	0.0
24	16.0	15.0	15.5	6.5	6.5	6.5	0.5	0.0	0.0	0.5	0.0	0.5
25	16.5	16.0	16.5	7.0	6.0	6.5	1.0	0.0	0.5	0.5	0.0	0.5
26	16.5	14.5	15.5	6.5	6.0	6.5	4.0	1.0	3.0	3.5	0.5	2.0
27	14.5	13.5	14.0	8.0	6.0	7.0	4.0	4.0	4.0	4.5	3.0	4.0
28	14.5	13.0	14.0	8.0	6.5	7.0	4.0	3.5	3.5	3.5	2.0	2.5
29	15.0	14.0	14.5	6.5	5.5	6.0	3.5	2.0	3.0	4.5	3.0	3.5
30	14.5	11.5	13.5	8.5	6.0	7.0	3.5	3.0	3.0	4.0	3.5	4.0
31	11.0	9.0	10.0	---	---	---	4.0	3.5	3.5	4.0	3.5	3.5
MONTH	17.0	9.0	14.0	16.5	5.5	10.0	10.0	0.0	4.0	4.5	0.0	1.5
DAY	FEBRUARY			MARCH			APRIL			MAY		
	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	5.0	3.5	4.0	10.0	8.5	9.0	13.0	11.5	12.0	15.5	13.5	14.0
2	5.0	0.0	2.0	9.5	8.0	8.5	13.0	8.5	10.0	16.0	13.5	14.5
3	1.0	0.0	0.5	8.0	6.5	7.0	10.0	7.0	9.0	15.5	14.5	15.0
4	3.0	0.5	1.5	8.5	6.5	7.5	9.5	8.5	9.0	14.5	12.0	13.0
5	3.0	1.5	2.5	11.5	8.5	10.0	9.5	6.5	8.0	15.0	10.5	12.5
6	1.5	0.5	1.0	11.5	8.0	10.0	11.0	8.0	9.5	18.0	14.5	16.0
7	1.0	0.0	0.5	8.0	6.0	7.0	13.0	9.5	11.0	19.0	17.0	18.0
8	3.5	1.0	2.0	8.0	6.0	7.0	11.5	9.5	10.5	18.0	15.0	16.0
9	3.5	2.0	3.0	6.5	2.0	4.5	10.0	8.5	9.0	15.5	13.5	14.5
10	4.5	1.5	3.0	5.0	1.5	3.0	10.5	7.0	9.0	16.5	14.0	15.0
11	5.0	4.0	4.5	8.0	5.0	6.5	10.5	9.0	10.0	17.0	15.5	16.5
12	4.0	3.0	3.5	7.0	5.0	6.0	8.5	6.0	7.5	16.5	15.0	16.0
13	5.5	3.5	4.5	8.5	5.0	7.0	10.5	6.5	8.5	16.0	14.0	15.0
14	6.0	5.0	5.5	8.0	6.0	7.0	14.0	9.5	11.5	18.0	15.0	16.5
15	5.0	3.5	4.0	8.0	6.0	7.0	14.0	11.0	12.5	20.5	17.0	19.0
16	8.5	5.0	6.5	8.0	6.0	6.5	16.5	12.0	14.5	20.5	20.0	20.0
17	9.5	8.0	9.0	6.0	4.0	5.0	19.5	15.5	17.5	20.0	18.5	19.5
18	8.5	8.0	8.5	5.5	2.0	4.0	21.0	18.0	19.5	19.5	17.0	18.5
19	8.5	7.0	8.0	9.5	5.0	7.0	22.0	19.0	20.5	16.5	13.0	14.0
20	8.0	6.0	7.0	13.0	9.0	11.0	23.0	20.0	21.5	15.5	11.5	13.5
21	8.0	5.0	6.0	14.0	12.0	13.0	23.5	20.5	22.0	18.0	15.0	16.5
22	9.5	8.0	9.0	13.0	10.0	11.0	22.0	19.5	20.5	18.5	16.0	17.5
23	7.0	4.0	5.5	9.5	7.0	9.0	19.0	16.5	18.0	18.0	16.0	17.0
24	5.0	3.0	4.0	11.0	8.0	9.5	18.0	15.5	16.5	18.0	16.0	17.0
25	7.0	4.5	6.0	12.0	10.0	11.0	16.5	14.0	15.0	17.0	15.5	16.5
26	8.5	7.0	8.0	14.5	10.5	13.0	14.0	10.5	12.5	15.0	14.5	15.0
27	9.5	7.0	8.5	15.0	13.5	14.5	10.0	9.0	9.5	16.5	13.5	15.0
28	9.0	7.0	8.0	15.0	13.5	14.5	13.0	9.0	11.0	18.5	15.5	17.0
29	9.0	6.0	7.5	14.5	11.5	13.0	14.5	11.5	13.0	18.0	16.5	17.0
30	---	---	---	13.5	11.5	12.5	15.5	12.0	14.0	17.0	16.5	16.5
31	---	---	---	13.0	11.5	12.0	---	---	---	19.0	16.0	17.5
MONTH	9.5	0.0	5.0	15.0	1.5	9.0	23.5	6.0	13.0	20.5	10.5	16.0

01481000 BRANDYWINE CREEK AT CHADDS FORD, PA--Continued

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

DAY	JUNE			JULY			AUGUST			SEPTEMBER		
	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	21.0	18.5	20.0	24.5	23.5	24.0	24.5	20.5	22.5	19.5	17.0	18.5
2	19.5	15.5	17.0	24.5	22.0	23.5	22.0	21.5	22.0	19.5	18.5	19.0
3	18.0	14.5	16.5	24.5	22.0	23.5	22.0	19.5	21.0	20.0	18.0	19.0
4	19.0	16.0	17.5	24.0	21.5	22.5	22.0	19.5	21.5	20.0	18.0	19.0
5	19.0	16.0	18.0	24.0	21.0	22.5	23.0	20.0	21.5	21.0	18.5	19.5
6	18.5	16.5	17.0	24.5	21.5	23.5	24.0	21.0	22.5	20.0	18.0	19.0
7	20.0	15.5	17.5	23.5	23.0	23.5	23.0	21.5	22.0	18.5	16.5	---
8	21.0	19.0	20.0	24.0	23.5	23.5	22.0	21.5	21.5	---	---	---
9	23.5	19.5	21.5	23.5	22.0	23.0	21.5	20.0	20.5	21.0	19.5	---
10	24.5	21.0	23.0	24.5	21.0	23.0	21.0	19.5	20.0	21.0	19.0	20.0
11	25.0	22.0	23.5	25.0	22.0	23.5	23.0	19.5	21.0	19.5	17.0	18.5
12	25.0	22.0	23.5	24.0	20.5	21.5	23.5	21.0	22.0	20.0	16.5	18.5
13	23.5	20.5	22.0	23.0	21.0	21.5	24.5	21.5	23.5	20.5	17.0	19.5
14	20.5	20.0	20.5	21.5	19.5	20.5	24.5	21.5	23.0	21.0	18.0	20.0
15	23.0	19.5	21.0	21.5	19.0	20.0	24.0	23.0	23.5	20.5	19.0	19.5
16	24.5	22.0	23.0	23.5	20.5	21.5	23.5	21.5	22.5	19.5	19.0	19.5
17	23.5	22.0	23.0	24.0	22.0	23.0	23.0	20.0	21.5	20.5	19.0	20.0
18	24.5	23.0	23.5	24.0	20.5	22.0	22.0	20.5	21.5	20.0	19.5	20.0
19	25.5	23.0	24.0	23.5	20.0	22.0	22.0	19.5	21.0	20.5	19.0	20.0
20	26.0	24.5	25.0	24.5	21.0	22.5	21.5	19.0	20.5	20.5	19.0	19.5
21	25.0	24.0	24.5	24.0	22.0	23.5	23.0	19.5	21.5	19.5	18.0	19.0
22	24.0	23.0	23.5	24.0	22.0	22.5	24.0	21.0	22.5	18.0	16.0	16.5
23	24.0	21.5	23.0	22.0	21.0	21.5	25.0	22.0	24.0	16.5	14.0	15.5
24	25.5	23.0	24.0	23.5	20.5	22.0	25.0	23.0	24.0	16.5	15.0	16.0
25	26.0	24.5	25.0	24.0	21.5	23.0	24.5	22.0	23.5	16.5	15.5	16.0
26	26.5	24.5	25.5	23.0	20.0	21.5	25.0	23.0	24.0	16.0	15.0	15.5
27	26.5	24.0	25.5	22.0	20.0	21.5	25.0	21.5	23.5	18.0	16.0	17.0
28	26.5	24.0	25.5	24.0	20.5	22.5	23.0	21.5	22.0	19.0	17.0	18.0
29	26.5	24.5	25.5	24.0	20.5	22.5	24.0	22.0	23.0	17.0	15.5	16.5
30	25.5	24.0	24.5	24.0	21.5	22.5	23.0	20.0	21.0	16.0	14.0	14.5
31	---	---	---	24.5	23.0	23.5	20.0	18.0	19.0	---	---	---
MONTH	26.5	14.5	22.0	25.0	19.0	22.5	25.0	18.0	22.0	21.0	14.0	18.5

DISSOLVED OXYGEN (DO), MG/L, 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	9.1	8.5	8.8	11.7	10.3	10.9	11.3	10.0	10.8	---	---	---
2	9.5	8.6	8.9	11.0	9.4	10.3	13.2	11.1	12.1	---	---	---
3	10.9	9.7	10.4	10.5	8.8	9.7	14.1	12.1	13.1	12.0	11.2	---
4	12.0	11.1	11.4	10.3	8.4	9.3	14.5	12.9	13.6	12.9	11.1	12.1
5	12.0	11.1	11.5	9.8	8.1	8.9	13.8	12.8	---	13.8	12.8	13.3
6	12.0	11.0	11.3	10.0	7.8	8.8	---	---	---	13.7	12.4	13.0
7	12.7	10.6	11.6	12.2	8.8	10.7	---	---	---	13.2	11.8	12.5
8	13.3	10.4	11.7	10.7	9.1	9.8	---	---	---	12.7	11.6	11.9
9	11.5	10.2	---	10.5	8.2	9.2	---	---	---	14.7	12.6	13.9
10	---	---	---	10.3	8.4	9.3	12.2	11.2	---	14.6	14.0	14.4
11	---	---	---	11.8	9.9	11.0	12.7	10.6	11.6	14.4	13.5	13.9
12	---	---	---	12.4	11.1	11.7	11.6	9.9	10.9	13.2	12.2	12.8
13	---	---	---	11.8	10.7	11.2	10.4	9.4	9.8	14.0	12.5	13.4
14	---	---	---	12.4	11.4	---	10.3	8.7	9.3	13.1	12.5	12.8
15	---	---	---	---	---	---	9.3	8.0	---	13.4	13.0	13.2
16	10.0	8.6	---	---	---	---	---	---	---	13.3	12.2	12.8
17	9.9	8.1	9.0	12.7	11.8	---	12.7	11.0	---	13.7	12.0	12.7
18	9.3	8.2	8.8	12.5	11.1	11.9	14.0	10.9	12.7	14.6	14.0	---
19	9.9	8.3	8.9	11.7	10.4	11.2	14.2	13.5	---	---	---	---
20	10.4	10.0	10.3	11.5	9.9	10.5	---	---	---	---	---	---
21	10.9	10.4	10.7	9.9	8.5	9.1	---	---	---	15.1	14.5	---
22	10.4	9.0	9.7	10.1	8.5	9.3	---	---	---	15.0	14.3	14.7
23	9.4	8.7	9.1	11.7	9.7	10.5	---	---	---	15.4	14.5	14.9
24	9.5	8.1	8.7	11.1	10.1	10.6	---	---	---	15.2	14.5	14.8
25	9.0	8.5	8.8	11.9	10.1	10.7	---	---	---	14.9	14.1	14.6
26	9.1	8.3	8.7	13.2	10.1	11.9	---	---	---	14.3	12.7	13.4
27	9.8	8.8	9.2	12.2	11.2	11.7	13.0	12.3	---	14.1	13.0	13.5
28	9.9	8.6	9.3	12.9	10.9	11.9	13.4	12.4	13.1	15.0	13.3	14.0
29	9.3	7.9	8.7	13.7	11.9	12.7	13.9	13.3	13.7	13.5	12.2	12.8
30	9.4	7.9	8.6	12.9	11.3	12.1	14.1	13.1	13.5	12.7	12.2	12.5
31	11.4	8.8	10.2	---	---	---	13.1	12.3	12.8	13.1	12.6	12.8
MONTH	13.3	7.9	---	13.7	7.8	10.6	---	---	---	15.4	11.1	---

DELAWARE RIVER BASIN

01481000 BRANDYWINE CREEK AT CHADDS FORD, PA--Continued

DISSOLVED OXYGEN (DO), MG/L, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

DAY	FEBRUARY			MARCH			APRIL			MAY		
	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	12.6	10.8	11.9	12.0	10.0	11.0	---	---	---	11.0	8.6	9.5
2	13.2	10.1	---	10.3	9.0	9.8	12.5	10.5	---	8.5	7.0	7.7
3	---	---	---	12.5	9.8	11.3	13.2	11.5	12.6	9.9	8.0	8.9
4	---	---	---	12.0	10.5	11.3	11.8	10.8	11.3	11.8	9.0	10.2
5	14.1	13.5	---	10.4	9.7	---	13.7	11.1	12.8	11.3	9.3	10.3
6	15.0	14.0	14.5	---	---	---	13.4	11.5	12.3	11.7	8.4	10.0
7	15.5	14.6	15.1	---	---	---	12.1	9.7	10.9	11.3	8.2	9.7
8	15.0	13.0	14.1	---	---	---	11.8	9.2	10.5	12.2	8.1	10.1
9	13.7	13.0	13.3	---	---	---	13.0	10.1	11.6	12.9	8.9	10.9
10	13.9	11.8	13.2	14.2	12.6	---	13.3	10.1	11.8	13.2	9.6	11.2
11	12.3	11.1	11.7	13.2	11.6	12.4	12.1	9.0	10.4	11.4	8.7	10.0
12	13.3	12.4	12.8	13.1	11.2	12.1	13.8	10.4	12.2	11.5	7.8	9.5
13	12.6	11.1	12.1	12.2	10.5	11.0	14.4	10.4	12.5	12.3	8.3	10.2
14	11.7	10.9	11.3	12.2	10.6	11.4	14.2	10.0	12.1	9.9	8.0	9.0
15	12.3	10.9	11.8	12.4	11.0	11.6	14.3	9.3	11.6	9.2	7.0	7.9
16	10.9	10.2	---	11.1	10.7	10.9	12.1	9.2	10.8	---	---	---
17	---	---	---	13.4	10.9	12.4	12.6	7.9	9.9	8.4	7.7	---
18	---	---	---	14.3	12.7	13.7	11.2	6.8	8.8	8.0	6.9	7.5
19	10.0	9.5	---	12.7	10.5	12.0	10.9	5.9	8.4	9.0	7.7	8.4
20	11.4	9.6	10.4	11.4	9.3	10.3	10.0	7.0	8.4	9.7	8.1	8.9
21	11.8	10.4	11.2	10.2	8.2	9.0	9.2	6.4	7.7	7.9	7.0	---
22	10.2	8.7	9.1	11.7	8.4	10.0	9.2	6.2	7.6	---	---	---
23	10.9	9.0	10.1	12.4	9.9	11.1	10.1	6.7	8.4	---	---	---
24	11.3	10.5	---	12.0	9.4	10.7	10.7	7.4	8.9	9.9	8.7	---
25	---	---	---	11.0	8.2	9.4	8.5	7.4	7.7	9.3	7.4	8.5
26	---	---	---	8.5	7.8	---	8.9	7.0	8.1	9.5	8.1	8.8
27	12.5	11.1	---	---	---	---	11.2	8.8	9.9	9.5	8.3	8.8
28	12.7	10.5	11.6	---	---	---	13.3	9.1	11.6	8.9	7.1	8.0
29	12.6	10.8	11.7	---	---	---	13.5	10.5	12.0	---	---	---
30	---	---	---	---	---	---	13.5	10.3	11.7	---	---	---
31	---	---	---	---	---	---	---	---	---	---	---	---
MONTH	15.5	8.7	---	---	---	---	14.4	5.9	10.4	13.2	6.9	---
DAY	JUNE			JULY			AUGUST			SEPTEMBER		
	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	---	---	---	8.1	7.1	7.5	8.2	6.9	7.5	9.2	7.9	---
2	---	---	---	8.7	7.1	7.8	8.3	7.6	8.0	10.7	9.7	---
3	8.9	8.1	---	9.0	7.4	8.1	7.8	7.2	---	10.7	9.2	9.9
4	9.0	7.9	8.5	8.9	7.4	8.0	13.3	10.1	---	11.5	8.2	9.8
5	8.8	7.7	8.3	9.0	7.5	8.1	13.5	9.6	11.5	11.2	8.4	9.7
6	7.8	7.0	---	8.8	7.2	7.9	13.7	9.6	11.5	12.1	8.4	9.9
7	---	---	---	7.7	6.8	7.2	---	---	---	9.3	7.5	---
8	9.5	8.0	---	9.0	7.5	8.1	---	---	---	---	---	---
9	12.1	7.2	9.4	8.8	7.5	8.1	---	---	---	12.0	9.4	---
10	11.7	9.0	10.3	8.3	7.0	7.6	---	---	---	11.5	9.1	10.1
11	11.6	8.4	9.9	8.6	7.1	7.8	---	---	---	12.4	9.4	10.8
12	11.5	7.2	9.5	7.5	3.9	6.3	---	---	---	13.2	10.2	11.5
13	10.5	7.6	9.3	5.1	4.5	4.8	10.1	8.8	---	13.6	10.4	11.7
14	9.3	7.1	8.1	6.1	4.6	5.4	8.7	7.3	7.9	13.9	10.5	11.9
15	9.2	7.1	8.2	6.7	5.8	6.1	---	---	---	11.0	8.9	10.0
16	9.2	8.0	8.5	8.7	5.9	7.6	12.8	11.5	---	8.9	8.0	8.4
17	7.9	7.0	7.5	8.4	6.7	7.2	13.7	11.1	12.0	8.7	8.0	8.3
18	8.2	7.0	7.5	8.4	6.6	7.5	13.7	9.1	10.9	8.8	8.0	8.4
19	---	---	---	8.5	4.1	7.4	10.8	7.9	9.3	8.7	7.6	8.1
20	---	---	---	8.4	6.1	6.9	11.0	8.0	9.4	9.3	7.2	8.0
21	7.6	6.9	---	---	---	---	9.5	7.4	8.5	8.1	7.0	7.5
22	7.1	6.7	6.9	---	---	---	10.8	7.6	9.0	10.2	7.3	8.7
23	7.3	6.7	7.0	9.0	7.8	---	9.2	6.5	7.7	10.6	9.0	9.6
24	7.1	6.7	6.9	9.4	8.0	8.6	---	---	---	10.4	8.6	9.4
25	8.2	6.2	7.0	8.8	7.0	7.8	---	---	---	10.1	8.4	9.2
26	6.9	5.9	6.4	8.4	6.5	7.3	---	---	---	9.0	8.2	---
27	7.7	5.5	6.8	9.9	6.5	8.3	9.2	7.3	---	---	---	---
28	8.5	5.6	7.1	13.4	7.6	10.1	8.4	7.5	8.1	---	---	---
29	8.6	6.5	7.5	12.2	6.6	9.1	8.7	7.1	7.8	---	---	---
30	8.3	7.0	7.5	6.7	5.6	6.2	9.5	7.4	8.4	---	---	---
31	---	---	---	8.2	6.2	6.9	9.7	8.1	8.8	---	---	---
MONTH	12.1	5.5	---	13.4	3.9	7.5	---	---	---	13.9	7.0	---

01481000 BRANDYWINE CREEK AT CHADDS FORD, PA--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	422	13	15	377	1	1.0	390	3	3.2
2	406	9	9.9	375	1	1.0	390	3	3.2
3	382	8	8.3	371	2	2.0	370	8	8.0
4	372	5	5.0	369	1	1.0	361	15	15
5	364	5	4.9	362	2	2.0	355	20	19
6	358	5	4.8	356	2	1.9	358	8	7.7
7	345	6	5.6	352	1	.95	355	5	4.8
8	335	5	4.5	412	3	3.3	346	4	3.7
9	336	5	4.5	390	2	2.1	349	4	3.8
10	350	8	7.6	406	7	7.7	374	3	3.0
11	410	10	11	500	14	19	353	3	2.9
12	593	34	54	601	60	97	339	5	4.6
13	395	17	18	1520	145	595	339	5	4.6
14	359	16	16	700	22	42	340	4	3.7
15	343	11	10	513	11	15	337	3	2.7
16	333	8	7.2	467	7	8.8	352	4	3.8
17	332	6	5.4	443	3	3.6	343	3	2.8
18	737	60	119	428	3	3.5	333	1	.90
19	2410	235	1530	417	5	5.6	309	1	.83
20	978	46	121	410	5	5.5	306	1	.83
21	651	14	25	478	9	12	303	2	1.6
22	524	8	11	467	8	10	301	3	2.4
23	479	8	10	418	4	4.5	300	3	2.4
24	452	10	12	405	4	4.4	298	2	1.6
25	462	9	11	396	5	5.3	298	3	2.4
26	447	8	9.7	388	3	3.1	1090	95	280
27	428	8	9.2	397	5	5.4	741	53	106
28	414	6	6.7	399	3	3.2	474	14	18
29	405	4	4.4	379	2	2.0	446	6	7.2
30	401	2	2.2	375	2	2.0	530	9	13
31	383	1	1.0	---	---	---	765	20	41
TOTAL	15606	---	2063.9	13871	---	869.85	12545	---	574.66
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	2230	225	1350	703	25	47	479	5	6.5
2	999	52	140	1420	200	767	436	5	5.9
3	943	40	102	713	15	29	437	5	5.9
4	1010	45	123	645	12	21	451	4	4.9
5	689	10	19	622	7	12	456	6	7.4
6	646	9	16	595	6	9.6	460	8	9.9
7	611	12	20	554	10	15	428	13	15
8	725	27	53	547	6	8.9	413	11	12
9	469	10	13	516	3	4.2	423	12	14
10	419	5	5.7	482	4	5.2	451	11	13
11	422	7	8.0	714	15	29	473	11	14
12	429	9	10	681	40	74	516	12	17
13	435	6	7.0	520	14	20	799	24	52
14	1370	280	1040	529	10	14	629	20	34
15	570	65	100	486	7	9.2	474	14	18
16	466	12	15	494	5	6.7	459	11	14
17	445	5	6.0	580	20	31	480	10	13
18	356	7	6.7	592	17	27	421	8	9.1
19	350	8	7.6	799	54	116	421	9	10
20	346	10	9.3	558	19	29	413	8	8.9
21	342	12	11	504	14	19	427	10	12
22	340	9	8.3	709	29	56	446	10	12
23	339	8	7.3	661	22	39	424	11	13
24	338	8	7.3	512	5	6.9	421	10	11
25	337	7	6.4	500	3	4.1	419	10	11
26	1200	140	454	494	6	8.0	414	9	10
27	3360	550	4990	517	6	8.4	411	7	7.8
28	3080	400	3330	508	4	5.5	473	25	32
29	954	56	144	496	4	5.4	426	12	14
30	760	28	57	---	---	---	412	10	11
31	665	18	32	---	---	---	408	11	12
TOTAL	25645	---	12098.6	17651	---	1427.1	14200	---	430.3

DELAWARE RIVER BASIN

01481000 BRANDYWINE CREEK AT CHADDS FORD, PA--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	1580	405	2620	480	39	51	241	16	10
2	676	67	122	641	55	95	1460	700	2760
3	510	17	23	361	14	14	467	160	202
4	480	10	13	313	6	5.1	318	44	38
5	463	10	13	295	3	2.4	276	24	18
6	430	12	14	286	3	2.3	254	21	14
7	410	13	14	281	2	1.5	250	15	10
8	398	18	19	276	2	1.5	241	20	13
9	390	16	17	267	3	2.2	227	18	11
10	375	15	15	263	2	1.4	223	15	9.0
11	366	13	13	254	2	1.4	214	12	6.9
12	361	12	12	366	13	13	214	10	5.8
13	356	11	11	286	4	3.1	206	10	5.6
14	351	12	11	267	3	2.2	206	11	6.1
15	337	12	11	267	3	2.2	206	11	6.1
16	347	13	12	267	5	3.6	201	12	6.5
17	337	12	11	332	12	11	380	70	72
18	332	15	13	370	18	18	267	26	19
19	323	16	14	366	22	22	241	18	12
20	323	15	13	281	7	5.3	236	18	11
21	318	14	12	295	8	6.4	402	44	48
22	323	15	13	281	7	5.3	418	115	130
23	318	15	13	254	6	4.1	394	75	80
24	295	14	11	241	6	3.9	267	47	34
25	309	14	12	236	7	4.5	232	39	24
26	366	14	14	236	7	4.5	214	22	13
27	313	10	8.5	241	7	4.6	201	20	11
28	290	11	8.6	227	5	3.1	206	26	14
29	290	13	10	227	6	3.7	201	12	6.5
30	286	11	8.5	286	18	14	267	18	13
31	---	---	---	272	15	11	---	---	---
TOTAL	12253	---	3101.6	9315	---	323.3	9130	---	3609.5
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	327	30	26	232	22	14	147	8	3.2
2	214	23	13	201	14	7.6	160	9	3.9
3	193	21	11	184	11	5.5	156	9	3.8
4	219	16	9.5	168	10	4.5	151	7	2.9
5	241	14	9.1	160	9	3.9	144	7	2.7
6	210	12	6.8	180	8	3.9	147	8	3.2
7	193	11	5.7	267	12	8.7	121	10	3.3
8	267	16	12	232	10	6.3	121	9	2.9
9	259	40	28	528	48	68	121	12	3.9
10	193	25	13	666	65	117	132	15	5.3
11	1670	726	5410	327	20	18	151	16	6.5
12	765	200	413	250	15	10	129	15	5.2
13	342	58	54	219	14	8.3	121	11	3.6
14	286	37	29	422	65	74	114	8	2.5
15	259	30	21	259	20	14	114	11	3.4
16	250	27	18	263	16	11	241	32	21
17	259	22	15	214	11	6.4	463	42	53
18	219	13	7.7	180	7	3.4	286	14	11
19	197	9	4.8	164	7	3.1	214	12	6.9
20	188	6	3.0	160	6	2.6	176	13	6.2
21	184	7	3.5	164	8	3.5	164	13	5.8
22	241	9	5.9	156	10	4.2	164	11	4.9
23	193	6	3.1	147	8	3.2	151	10	4.1
24	272	16	12	144	5	1.9	136	9	3.3
25	201	9	4.9	132	7	2.5	136	8	2.9
26	176	8	3.8	136	11	4.0	156	10	4.2
27	164	7	3.1	593	105	168	180	13	6.3
28	164	6	2.7	475	58	74	164	9	4.0
29	201	12	6.5	232	17	11	147	10	4.0
30	1260	350	1190	188	12	6.1	176	16	7.6
31	309	39	33	160	11	4.8	---	---	---
TOTAL	10116	---	7378.1	7803	---	673.4	4983	---	201.5
YEAR	153118		32751.81						

01481000 BRANDYWINE CREEK AT CHADDS FORD, PA--Continued

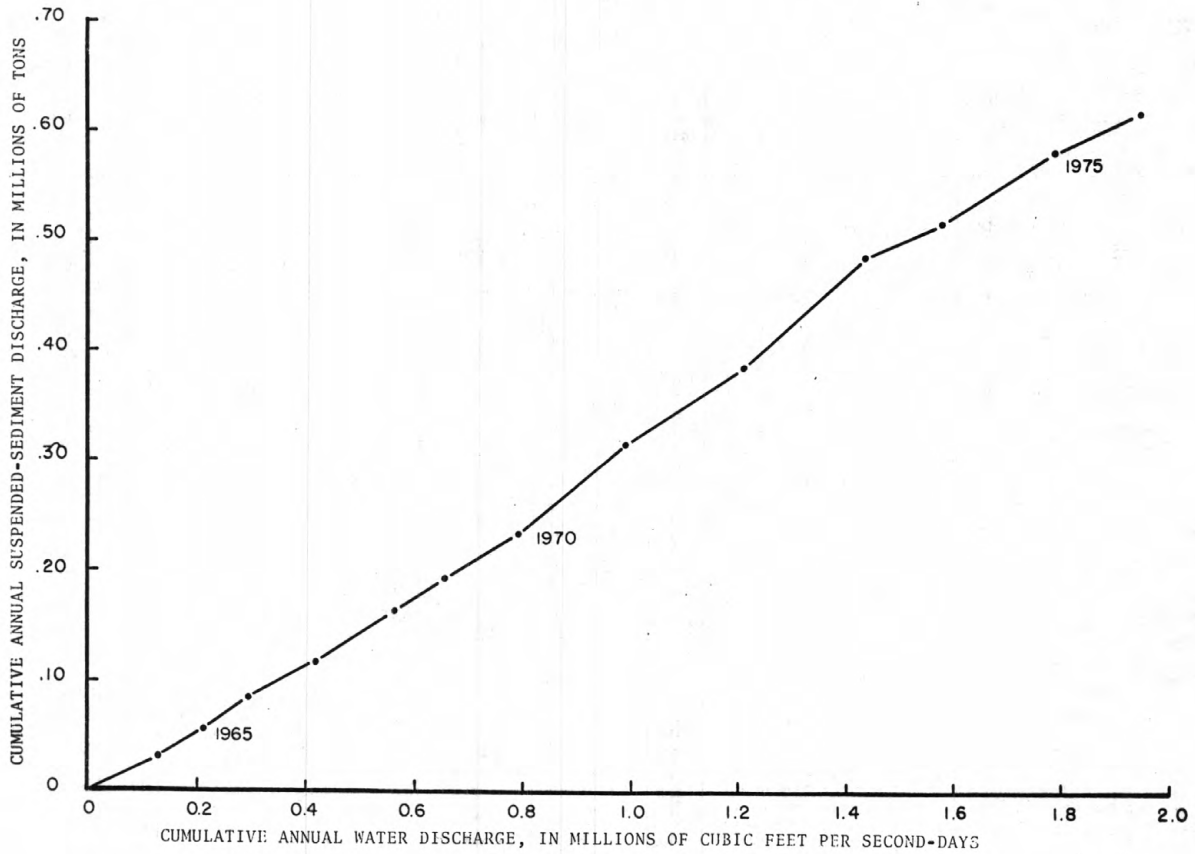


Figure 11.--Double mass accumulation of annual suspended-sediment discharge versus annual water discharge, Brandywine Creek at Chadds Ford, Pa.

Table 3.--Suspended sediment concentration-duration table, Brandywine Creek at Chadds Ford

Period	Mean daily concentration, in milligrams per liter, that was equaled or exceeded for indicated percentage of time													
	1	2	5	10	20	30	40	50	60	70	80	90	95	99
1976	430	250	76	47	21	15	12	11	9	7	6	4	2	1
1964-76	465	290	124	54	27	20	16	13	11	9	7	5	4	2

DELAWARE RIVER BASIN

01481500 BRANDYWINE CREEK AT WILMINGTON, DE

LOCATION.--Lat 39°46'09", long 75°34'25", New Castle County, Hydrologic Unit 02040205, on right bank in Rockford Park, 0.2 mi (0.3 km) downstream from Henry Clay Bridge, in Wilmington, and 4.2 mi (6.8 km) upstream from mouth.

DRAINAGE AREA.--314 mi² (813 km²).

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--October 1946 to current year. Prior to December 1946 monthly discharge only, published in WSP 1302.

REVISED RECORDS.--WSP 1432: 1948, 1950.

GAGE.--Water-stage recorder and concrete control. Datum of gage is 68.23 ft (20.797 m) above mean sea level.

REMARKS.--Water-discharge records good. Some diurnal fluctuation at low flow caused by mills above station. Flow regulated since November 1973 by Marsh Creek Reservoir about 27 mi (43 km) upstream. No diversion just above station by plant of E. I. du Pont de Nemours & Co. since June 13, 1960.

AVERAGE DISCHARGE.--30 years, 469 ft³/s (13.28 m³/s), 20.28 in/yr (515 mm/yr), adjusted for storage since November 1973.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 29,000 ft³/s (821 m³/s) June 23, 1972, gage height, 15.49 ft (4.721 m), from rating curve extended above 18,000 ft³/s (510 m³/s); minimum, about 30 ft³/s (0.85 m³/s) Dec. 26, 1948, during period of ice effect; minimum daily, 56 ft³/s (1.59 m³/s) Aug. 23, 24, 1957.

EXTREMES FOR CURRENT YEAR.--Peak discharges above base of 4,000 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. 19	1700	4700 133	7.33 2.234	Jan. 28	0815	*5240 148	7.96 2.426

Minimum discharge, 120 ft³/s (3.40 m³/s) Sept. 7, 8, 10, 14, 15; minimum daily, 122 ft³/s (3.46 m³/s) Sept. 14, 15.

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	466	364	426	2830	902	597	1780	669	276	286	272	144
2	443	365	431	1340	1750	519	987	962	1440	209	233	153
3	412	361	407	1210	975	517	670	463	609	186	213	153
4	397	355	392	1340	867	538	621	358	326	205	197	147
5	392	345	384	938	833	553	597	336	276	217	186	144
6	386	338	388	844	779	563	542	320	254	197	183	141
7	373	328	385	855	708	502	511	320	250	179	286	136
8	358	408	373	1080	698	471	491	310	237	201	286	125
9	360	386	374	679	645	484	482	295	217	267	621	128
10	379	382	405	445	597	548	454	290	209	183	844	133
11	432	548	385	500	800	588	445	290	197	1790	358	153
12	655	858	364	564	950	662	436	418	197	1280	254	136
13	441	2020	361	532	657	987	427	331	186	378	225	128
14	392	778	362	1720	679	869	418	300	186	300	445	122
15	363	615	359	811	597	580	405	300	190	276	290	122
16	340	548	375	633	597	549	410	290	186	267	263	179
17	338	513	366	575	718	601	402	364	347	267	221	501
18	742	489	354	370	779	481	402	445	263	237	186	267
19	2970	473	323	370	1040	482	386	482	221	209	166	217
20	1070	462	322	472	728	461	378	320	205	194	166	172
21	674	565	330	491	633	458	370	320	326	190	163	159
22	557	561	332	460	890	465	370	315	402	250	159	159
23	506	483	318	370	925	417	370	281	364	201	159	153
24	474	460	304	430	657	407	342	267	245	276	153	144
25	485	443	304	450	621	404	347	263	217	229	147	141
26	473	431	1290	1250	609	395	454	263	194	183	150	144
27	444	439	908	3540	657	387	364	267	186	176	445	166
28	426	447	555	3330	633	475	336	250	194	176	633	163
29	406	420	495	1250	621	411	326	245	172	281	254	150
30	398	410	584	1040	---	382	320	300	225	1560	190	166
31	376	---	838	902	---	375	---	295	---	394	156	---
TOTAL	16928	15595	13794	31621	22545	16128	14843	10929	8797	11244	8504	4946
MEAN	546	520	445	1020	777	520	495	353	293	363	274	165
MAX	2970	2020	1290	3540	1750	987	1780	962	1440	1790	844	501
MIN	338	328	304	370	597	375	320	245	172	176	147	122
(*)	-3.1	-.7	-19.2	-32.8	-14.8	+13.2	+22.9	+7.8	+12.3	+9.8	-.2	-.5
MEAN*	543	519	426	987	762	533	518	361	305	373	274	165
CFSM*	1.73	1.65	1.36	3.14	2.43	1.70	1.65	1.15	.97	1.19	.87	.53
IN*	1.99	1.84	1.56	3.62	2.62	1.96	1.84	1.33	1.08	1.37	1.01	.59

CAL YR 1975 TOTAL 261548 MEAN 717 MAX 6570 MIN 245 MEAN* 715 CFSM* 2.28 IN* 30.92
WTR YR 1976 TOTAL 175874 MEAN 481 MAX 3540 MIN 122 MEAN* 481 CFSM* 1.53 IN* 20.86

* Change in contents in Marsh Creek Reservoir, equivalent in cubic feet per second, furnished by Pennsylvania Department of Environmental Resources.

* Adjusted for change in reservoir contents.

DELAWARE RIVER BASIN

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01481500 BRANDYWINE CREEK AT WILMINGTON, DE--Continued

WATER-QUALITY RECORDS

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

PERIOD OF DAILY RECORD.--

SUSPENDED SEDIMENT DISCHARGE: December 1946 to September 1961, July 1962 to current year.

REMARKS.--Unpublished chemical-quality data and specific conductance, pH, and temperature of sediment samples available in the district office at Parkville, Md. Sediment data from 01481000 Brandywine Creek at Chadds Ford, Pa., are used in computation of sediment records.

EXTREMES FOR PERIOD OF DAILY RECORD.--

SEDIMENT CONCENTRATIONS: Maximum daily, 1,700 mg/l Feb. 14, 1966; minimum daily, 1 mg/l on many days.

SEDIMENT LOADS: Maximum daily, 35,700 tons (32,400 t) Feb. 14, 1971; minimum daily, less than 0.50 tons (0.45 t) on many days.

EXTREMES FOR CURRENT YEAR.--

SEDIMENT CONCENTRATIONS: Maximum daily, 650 mg/l June 2, July 11; minimum daily, 1 mg/l on several days during Nov. and Dec.

SEDIMENT LOADS: Maximum daily, 4,990 tons (4,530 t) July 11; minimum daily, 0.98 tons (0.89 t) Nov. 1, Dec. 12.

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)
OCT					
01...	1230	436	210	7.8	15.5
NOV					
03...	1230	351	224	7.8	12.5
DEC					
01...	1310	434	214	7.9	9.0
JAN					
02...	1240	1280	199	6.8	1.5
FEB					
04...	1315	822	195	7.7	2.5
MAR					
01...	1230	614	141	7.7	10.0
APR					
01...	1245	2970	150	7.5	10.5
MAY					
03...	1130	464	190	7.7	15.0
JUN					
01...	1235	260	203	8.0	20.5
JUL					
01...	1150	306	--	7.9	26.0
14...	1435	299	196	7.3	21.0
AUG					
02...	1135	232	210	7.5	23.0
SEP					
01...	1130	145	219	7.6	21.0

DELAWARE RIVER BASIN

01481500 BRANDYWINE CREEK AT WILMINGTON, DE--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

DATE	TIME	COLOR (PLAT- INUM- COBALT UNITS)	DIS- SOLVED OXYGEN (MG/L)	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)	DIS- SOLVED PO- TAS- SIUM (K) (MG/L)
OCT 01...	1230	1	12.8	76	29	18	7.6	8.0	2.9
JAN 02...	1240	18	14.1	51	21	12	5.0	12	3.3
APR 01...	1245	10	--	63	23	14	6.7	8.1	.5
JUL 14...	1435	4	8.4	65	26	16	6.0	8.5	3.2
SEP 01...	1130	6	9.3	81	29	20	7.5	9.9	3.1

DATE	BICAR- BONATE (HCO3) (MG/L)	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 (SiO2) (MG/L)	DIS- SOLVED SOLIDS (RESI- DUE AT 180 C) (MG/L)
OCT 01...	58	--	48	1.5	22	12	.2	12	--
JAN 02...	36	0	30	9.1	16	21	.1	8.6	--
APR 01...	48	0	39	2.4	20	14	.1	7.3	--
JUL 14...	47	0	39	3.8	21	12	.1	11	118
SFP 01...	63	0	52	2.5	22	14	.2	9.1	134

DATE	DIS- SOLVED SOLIDS (SUM OF CONSTI- TUENTS) (MG/L)	TOTAL NITRITE PLUS NITRATE (N) (MG/L)	TOTAL PHOS- PHORUS (P) (MG/L)	TOTAL IRON (FE) (UG/L)	DIS- SOLVED IRON (FE) (UG/L)	TOTAL MAN- GANESE (MN) (UG/L)	SUS- PENDE- MAN- GANESE (MN) (UG/L)	DIS- SOLVED MAN- GANESE (MN) (UG/L)
OCT 01...	111	2.3	.19	540	--	70	--	--
JAN 02...	96	1.9	.23	2400	--	150	--	--
APR 01...	94	2.8	.74	9200	--	770	--	--
JUL 14...	101	1.8	.21	1200	50	80	30	50
SEP 01...	117	1.8	.23	480	70	80	30	50

01481500 BRANDYWINE CREEK AT WILMINGTON, DE--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	466	12	15	364	1	.98	426	3	3.5
2	443	9	11	365	1	.99	431	2	2.3
3	412	7	7.8	361	3	2.9	407	3	3.3
4	397	5	5.4	355	5	4.8	392	2	2.1
5	392	6	6.4	345	4	3.7	384	2	2.1
6	386	6	6.3	338	3	2.7	388	2	2.1
7	373	6	6.0	328	5	4.4	385	3	3.1
8	358	7	6.8	408	4	4.4	373	3	3.0
9	360	7	6.8	386	4	4.2	374	3	3.0
10	379	8	8.2	382	6	6.2	405	2	2.2
11	432	9	10	548	10	15	385	1	1.0
12	655	30	53	858	55	127	364	1	.98
13	441	18	21	2020	135	736	361	3	2.9
14	392	16	17	778	25	53	362	4	3.9
15	363	10	9.8	615	5	8.3	359	3	2.9
16	340	7	6.4	548	2	3.0	375	3	3.0
17	338	6	5.5	513	2	2.8	366	2	2.0
18	742	65	130	489	3	4.0	354	4	3.8
19	2970	250	2000	473	3	3.8	323	3	2.6
20	1070	40	116	462	5	6.2	322	2	1.7
21	674	15	27	565	8	12	330	3	2.7
22	557	8	12	561	8	12	332	3	2.7
23	506	7	9.6	483	4	5.2	318	4	3.4
24	474	8	10	460	3	3.7	304	3	2.5
25	485	7	9.2	443	1	1.2	304	4	3.3
26	473	7	8.9	431	1	1.2	1290	105	366
27	444	8	9.6	439	1	1.2	908	70	172
28	426	6	6.9	447	3	3.6	555	20	30
29	406	4	4.4	420	1	1.1	495	6	8.0
30	398	3	3.2	410	1	1.1	584	7	11
31	376	2	2.0	---	---	---	838	19	43
TOTAL	16928	---	2551.2	15595	---	1036.67	13794	---	696.08
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	2830	250	1910	902	23	56	597	8	13
2	1340	65	235	1750	190	898	519	9	13
3	1210	35	114	975	20	53	517	5	7.0
4	1340	40	145	867	15	35	538	4	5.8
5	938	9	23	833	16	36	553	6	9.0
6	844	5	11	779	12	25	563	7	11
7	855	9	21	708	10	19	502	6	8.1
8	1080	24	70	698	10	19	471	5	6.4
9	679	9	16	645	11	19	484	8	10
10	445	4	4.8	597	18	29	548	6	8.9
11	500	6	8.1	800	22	48	588	6	9.5
12	564	7	11	950	60	154	662	10	18
13	532	5	7.2	657	18	32	987	30	80
14	1720	250	1160	679	12	22	869	20	47
15	811	58	127	597	10	16	580	7	11
16	633	15	26	597	12	19	549	9	13
17	575	5	7.8	718	15	29	601	7	11
18	370	7	7.0	779	13	27	481	5	6.5
19	370	8	8.0	1040	45	126	482	5	6.5
20	472	9	11	728	23	45	461	5	6.2
21	491	11	15	633	15	26	458	7	8.7
22	460	9	11	890	25	60	465	7	8.8
23	370	8	8.0	925	22	55	417	6	6.8
24	430	7	8.1	657	10	18	407	5	5.5
25	450	6	7.3	621	8	13	404	6	6.5
26	1250	130	439	609	6	9.9	395	8	8.5
27	3540	580	5540	657	8	14	387	7	7.3
28	3330	440	3960	633	7	12	475	27	35
29	1250	55	186	621	6	10	411	12	13
30	1040	20	56	---	---	---	382	12	12
31	902	13	32	---	---	---	375	11	11
TOTAL	31621	---	14185.3	22545	---	1924.9	16128	---	424.0

01481500 BRANDYWINE CREEK AT WILMINGTON, DE--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	1780	195	1340	669	40	72	276	22	16	
2	987	87	232	962	46	119	1440	650	2530	
3	670	19	34	463	20	25	609	235	386	
4	621	18	30	358	33	32	326	85	75	
5	597	13	21	336	58	53	276	38	28	
6	542	13	19	320	55	48	254	25	17	
7	511	11	15	320	15	13	250	17	11	
8	491	13	17	310	13	11	237	18	12	
9	482	15	20	295	13	10	217	17	10	
10	454	17	21	290	11	8.6	209	14	7.9	
11	445	12	14	290	12	9.4	197	12	6.4	
12	436	13	15	418	19	21	197	14	7.4	
13	427	12	14	331	15	13	186	16	8.0	
14	418	13	15	300	10	8.1	186	16	8.0	
15	405	12	13	300	9	7.3	190	12	6.2	
16	410	14	15	290	10	7.8	186	13	6.5	
17	402	15	16	364	11	11	347	65	61	
18	402	14	15	445	17	20	263	22	16	
19	386	13	14	482	25	33	221	15	9.0	
20	378	13	13	320	18	16	205	16	8.9	
21	370	13	13	320	16	14	326	37	33	
22	370	13	13	315	12	10	402	95	103	
23	370	12	12	281	12	9.1	364	65	64	
24	342	13	12	267	18	13	245	31	21	
25	347	13	12	263	17	12	217	24	14	
26	454	15	18	263	15	11	194	22	12	
27	364	12	12	267	16	12	186	19	9.5	
28	336	8	7.3	250	12	8.1	194	33	17	
29	326	8	7.0	245	13	8.6	172	23	11	
30	320	9	7.8	300	17	14	225	22	13	
31	---	---	---	295	15	12	---	---	---	
TOTAL	14843	---	2007.1	10929	---	662.0	8797	---	3527.8	
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	286	22	17	272	19	14	144	8	3.1	
2	209	18	10	233	15	9.4	153	8	3.3	
3	186	30	15	213	14	8.1	153	11	4.5	
4	205	28	15	197	12	6.4	147	12	4.8	
5	217	21	12	186	9	4.5	144	10	3.9	
6	197	15	8.0	183	7	3.5	141	9	3.4	
7	179	11	5.3	286	9	6.9	136	9	3.3	
8	201	15	8.1	286	14	11	125	10	3.4	
9	267	31	22	521	42	70	128	11	3.8	
10	183	19	9.4	844	55	125	133	11	4.0	
11	1790	650	4990	358	19	18	153	9	3.7	
12	1280	350	1210	254	14	9.6	136	8	2.9	
13	378	65	66	225	11	6.7	128	6	2.1	
14	300	30	24	445	70	84	122	6	2.0	
15	276	24	18	290	20	16	122	7	2.3	
16	267	15	11	263	16	11	179	30	14	
17	267	16	12	221	13	7.8	501	40	54	
18	237	9	5.8	186	8	4.0	267	15	11	
19	209	7	4.0	166	7	3.1	217	12	7.0	
20	194	5	2.6	166	8	3.6	172	13	6.0	
21	190	5	2.6	163	8	3.5	159	12	5.2	
22	250	8	5.4	159	6	2.6	159	11	4.7	
23	201	6	3.3	159	5	2.1	153	12	5.0	
24	276	10	7.5	153	5	2.1	144	9	3.5	
25	229	7	4.3	147	5	2.0	141	8	3.0	
26	183	6	3.0	150	8	3.2	144	6	2.3	
27	176	5	2.4	445	90	108	166	10	4.5	
28	176	6	2.9	632	70	120	163	12	5.3	
29	281	20	15	254	20	14	150	10	4.1	
30	1560	280	1180	190	13	6.7	166	20	9.0	
31	394	42	45	156	12	5.1	---	---	---	
TOTAL	11244	---	7736.6	8504	---	691.9	4946	---	189.1	
YEAR	175874		35632.65							

01481500 BRANDYWINE CREEK AT WILMINGTON, DE--Continued

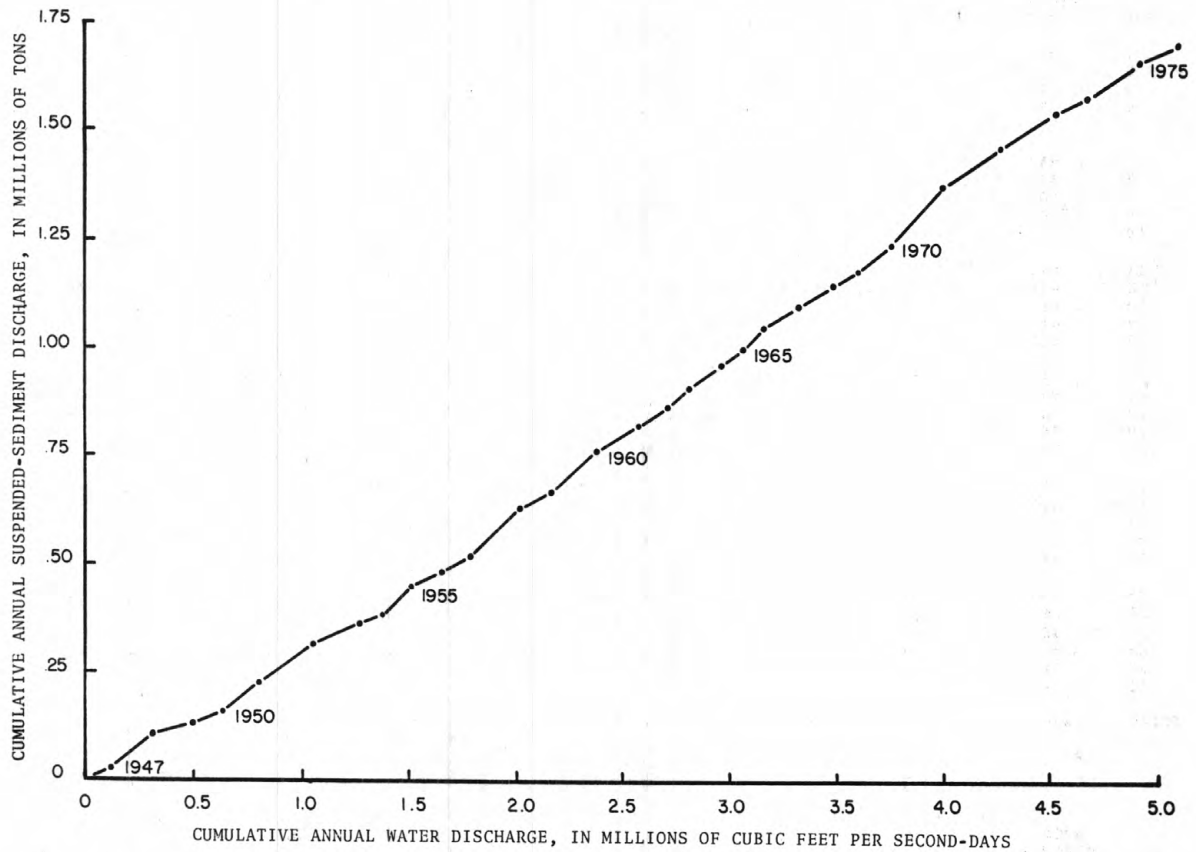


Figure 12.--Double mass accumulation of annual suspended-sediment discharge versus annual water discharge, Brandywine Creek at Wilmington, Delaware

Table 4.--Suspended sediment concentration-duration table, Brandywine Creek at Wilmington, Del.

Period	Mean daily concentration, in milligrams per liter, that was equaled or exceeded for indicated percentage of time													
	1	2	5	10	20	30	40	50	60	70	80	90	95	99
1976	390	250	89	45	22	17	14	12	9	8	6	4	3	2
1947-76*	480	300	130	59	28	19	15	12	10	8	6	5	4	3

*Excludes 1962-63.

DELAWARE RIVER BASIN

01482100 DELAWARE RIVER AT DELAWARE MEMORIAL BRIDGE, NEAR WILMINGTON, DE

LOCATION.--Lat 39°41'21", long 75°31'19", New Castle County, Hydrologic Unit 02040205, at tidal-gaging station located on channel side of west tower of south bridge between Pigeon Point, Del., and Deepwater Point, N.J.

DRAINAGE AREA.--11,030 mi² (28,600 km²).

PERIOD OF RECORD.--July 1955 to current year.

PERIOD OF DAILY RECORD.--

SPECIFIC CONDUCTANCE: October 1963 to current year.

pH: January 1968 to current year.

WATER TEMPERATURES: October 1956 to current year.

DISSOLVED OXYGEN: November 1962 to current year.

EXTREMES FOR PERIOD OF DAILY RECORD.--

SPECIFIC CONDUCTANCE: Maximum, 12,700 micromhos Nov. 13, 1966; minimum, 100 micromhos on many days.

pH: Maximum, 9.3 Nov. 10-11, 13, 1970; minimum, 4.2 Nov. 6, 1969.

WATER TEMPERATURES: Maximum, 31.0°C Aug. 9, 1968; minimum, freezing point on many days during winter periods.

DISSOLVED OXYGEN: Maximum, 13.5 mg/l Dec. 29, 1969; minimum, 0.0 mg/l on many days during summer periods.

EXTREMES FOR CURRENT YEAR.--

WATER TEMPERATURES: Maximum, 27.0°C on several days during June and July; minimum, freezing point Jan. 23-25.

SPECIFIC CONDUCTANCE (MICROMHOS/CM AT 25°C), 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	---	---	---	270	250	256	290	270	282	910	280	521
2	---	---	---	260	250	259	290	270	280	700	260	352
3	---	---	---	260	250	252	290	270	284	1110	270	364
4	---	---	---	260	250	255	290	270	285	380	260	289
5	---	---	---	260	250	254	290	270	280	440	260	275
6	---	---	---	260	250	253	290	270	280	750	260	381
7	---	---	---	260	250	255	290	270	281	660	260	427
8	1610	490	---	260	250	254	290	270	280	570	250	328
9	1510	450	811	260	250	253	290	270	281	300	230	264
10	1210	460	803	260	250	253	460	270	319	330	230	266
11	1410	470	839	260	250	256	430	260	324	530	240	320
12	1460	460	946	260	250	256	660	260	384	1090	250	475
13	930	500	685	260	250	259	1710	270	473	1600	280	670
14	1230	310	643	260	250	255	1060	230	499	1550	260	616
15	490	310	365	260	250	254	1290	260	571	790	260	384
16	540	310	392	270	250	258	1140	270	568	840	270	409
17	550	310	408	260	250	258	1210	270	565	750	280	435
18	610	320	460	260	250	255	1210	250	581	710	270	353
19	500	310	385	260	250	257	910	250	437	1240	260	553
20	510	300	340	260	250	253	1560	250	588	1350	290	731
21	330	310	316	260	250	252	1590	270	691	1480	290	727
22	320	300	315	260	250	253	1620	300	782	810	290	445
23	320	240	297	260	250	255	1260	280	714	620	290	360
24	270	240	253	290	250	268	1600	270	828	1220	300	675
25	260	240	250	290	270	280	1820	330	981	1210	390	768
26	260	250	256	290	270	280	2650	310	1290	1280	510	847
27	260	250	253	290	270	280	2160	280	1090	960	390	533
28	260	240	250	290	270	277	1210	270	619	390	310	353
29	260	240	249	290	270	279	1090	270	563	320	250	278
30	260	250	257	290	270	280	1250	280	708	260	230	---
31	260	250	254	---	---	---	1230	280	576	---	---	---
MONTH	---	---	---	290	250	260	2650	230	538	1600	230	462

01482100 DELAWARE RIVER AT DELAWARE MEMORIAL BRIDGE, NEAR WILMINGTON, DE--Continued

SPECIFIC CONDUCTANCE (MICROMHOS/CM AT 25°C), WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

DAY	FEBRUARY			MARCH			APRIL			MAY		
	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	---	---	---	280	240	263	340	320	---	2610	280	1120
2	---	---	---	280	250	263	350	320	328	2480	230	1400
3	---	---	---	300	230	---	320	320	320	1770	220	1000
4	---	---	---	300	260	283	330	320	323	1040	330	650
5	180	160	---	320	270	297	330	310	325	1360	340	578
6	190	150	171	320	290	304	340	290	322	850	340	475
7	200	170	183	310	290	302	340	280	315	650	350	441
8	220	160	188	310	300	303	350	270	307	550	350	385
9	210	180	198	320	300	309	380	270	309	560	340	420
10	220	190	205	350	310	324	370	260	308	1200	340	544
11	230	200	213	410	320	346	850	260	359	1590	350	660
12	250	170	209	430	330	348	720	250	315	1330	340	646
13	520	180	251	1060	340	491	1540	250	570	1670	360	707
14	380	180	224	390	340	364	1690	260	688	1740	360	823
15	800	190	287	590	360	403	2230	270	910	1370	330	767
16	640	210	319	720	370	462	2510	270	1050	1330	730	1050
17	520	210	---	840	200	474	4310	280	1460	1750	350	957
18	---	---	---	440	340	358	3700	1490	2300	2150	350	1030
19	---	---	---	510	350	395	3380	1110	2140	940	320	551
20	---	---	---	490	350	389	3130	1170	2050	970	310	570
21	---	---	---	480	340	393	3140	1210	1940	930	360	608
22	---	---	---	440	340	378	3500	1220	2130	780	340	545
23	---	---	---	440	340	376	3240	1210	2070	740	340	492
24	---	---	---	430	250	365	3350	1280	2040	1210	320	573
25	---	---	---	390	340	---	3140	1310	2110	950	320	569
26	330	270	---	---	---	---	3220	230	1480	1600	320	733
27	310	250	284	---	---	---	1180	210	667	1380	320	651
28	310	240	273	---	---	---	1350	240	729	1410	320	677
29	290	250	268	---	---	---	2800	290	1150	2270	330	829
30	---	---	---	---	---	---	2480	280	1090	1530	350	770
31	---	---	---	---	---	---	---	---	---	1830	360	973
MONTH	---	---	---	1060	200	---	4310	210	1040	2610	220	716
DAY	JUNE			JULY			AUGUST			SEPTEMBER		
	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	1610	360	902	2130	430	1120	3270	1540	2390	---	---	---
2	2170	360	1060	1540	340	958	3120	1530	2340	---	---	---
3	2100	340	1080	1370	340	840	3840	1390	2670	---	---	---
4	1640	320	966	1520	350	758	4200	1140	3040	---	---	---
5	1840	320	1010	2010	340	747	3120	1170	---	---	---	---
6	2260	330	1100	1430	340	723	---	---	---	---	---	---
7	2010	290	1120	1860	360	852	---	---	---	---	---	---
8	2120	320	1030	1590	360	783	---	---	---	3120	1590	---
9	2420	360	1200	1370	360	759	---	---	---	3920	1640	2840
10	2580	380	1280	1590	370	810	---	---	---	3990	1750	3040
11	2960	380	1400	1730	370	911	2480	650	---	4170	1760	2940
12	2990	460	1420	1910	330	855	2970	500	1660	4090	1610	2910
13	3280	1740	2500	1690	350	990	2420	530	---	4110	1650	2900
14	3180	650	2370	2160	1030	1730	---	---	---	4010	1720	2850
15	3190	600	1800	2340	1390	1860	---	---	---	3620	1920	---
16	2970	790	2460	2200	620	1330	1580	540	---	---	---	---
17	2810	1970	2360	2490	540	1270	1360	360	888	---	---	---
18	2460	1760	2120	2110	690	1370	1500	380	883	---	---	---
19	2480	1790	2110	1980	920	1390	1830	470	1020	---	---	---
20	2420	1910	2160	1730	340	1270	1750	360	1020	---	---	---
21	2470	1870	2120	1740	360	970	2500	370	1000	---	---	---
22	2370	590	1780	1710	410	964	2130	410	---	---	---	---
23	1870	560	1320	1760	490	1060	---	---	---	---	---	---
24	1810	500	1160	2130	420	1070	2260	690	---	---	---	---
25	1590	480	1030	2040	460	1090	3310	690	---	---	---	---
26	1510	450	930	2360	630	1380	---	---	---	---	---	---
27	1400	460	938	2600	570	1500	---	---	---	---	---	---
28	1660	450	933	3120	620	1780	---	---	---	---	---	---
29	1930	480	1030	3530	790	2050	---	---	---	---	---	---
30	1860	520	1140	3400	790	2190	---	---	---	---	---	---
31	---	---	---	3150	920	2400	---	---	---	---	---	---
MONTH	3280	290	1460	3530	330	1220	---	---	---	---	---	---

01482100 DELAWARE RIVER AT DELAWARE MEMORIAL BRIDGE, NEAR WILMINGTON, DE--Continued

PH (UNITS), WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

	OCTOBER			NOVEMBER			DECEMBER			JANUARY		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	---	---	---	6.8	6.6	6.7	---	---	---	6.6	6.5	6.6
2	---	---	---	6.7	6.6	6.7	---	---	---	6.6	6.5	6.6
3	---	---	---	6.7	6.6	6.6	6.9	6.7	---	6.6	6.5	6.5
4	---	---	---	6.7	6.6	6.6	6.9	6.8	6.9	6.6	6.4	6.5
5	---	---	---	6.6	6.5	6.6	6.9	6.7	6.8	6.7	6.5	6.6
6	---	---	---	6.6	6.5	6.6	6.8	6.7	6.8	6.7	6.6	6.7
7	---	---	---	6.6	6.5	6.6	6.9	6.7	6.8	6.7	6.5	6.6
8	6.6	6.5	---	6.6	6.4	6.5	6.9	6.7	6.8	6.7	6.6	6.6
9	6.6	6.4	6.6	6.5	6.4	6.5	6.9	6.5	6.8	6.7	6.7	6.7
10	6.6	6.4	6.6	6.5	6.5	6.5	6.8	6.2	6.6	6.7	6.6	6.7
11	6.6	6.4	6.5	6.6	6.3	6.5	6.6	6.4	6.6	6.7	6.6	6.7
12	6.6	6.3	6.5	6.6	6.2	6.5	6.6	6.5	6.6	6.8	6.6	6.7
13	6.6	6.5	6.6	6.5	6.4	6.4	6.6	6.5	6.6	6.8	6.6	6.7
14	6.6	6.5	6.6	6.6	6.5	6.6	6.6	6.5	6.5	6.8	6.6	6.7
15	6.6	6.5	6.5	6.7	6.6	6.7	6.5	6.5	6.5	6.8	6.6	6.7
16	6.6	6.5	6.6	6.7	6.6	6.7	6.6	6.4	6.5	6.8	6.5	6.7
17	6.6	6.4	6.6	6.7	6.6	6.7	6.6	6.5	6.6	6.8	6.6	6.7
18	6.6	6.4	---	6.8	6.6	6.7	6.7	6.5	6.6	6.8	6.6	6.7
19	---	---	---	6.8	6.6	6.7	6.7	6.7	6.7	6.8	6.6	6.7
20	6.7	6.6	---	6.8	6.7	6.7	6.9	6.6	6.7	6.8	6.6	6.7
21	6.7	6.6	6.6	6.8	6.6	6.7	6.9	6.6	6.7	6.8	6.6	6.7
22	6.8	6.6	6.7	6.7	6.6	6.7	6.9	6.6	6.7	6.8	6.6	6.7
23	6.8	6.7	6.8	6.8	6.3	6.6	6.9	6.7	6.8	6.8	6.6	---
24	---	---	---	6.8	6.8	6.8	6.9	6.7	6.8	---	---	---
25	---	---	---	6.8	6.7	6.8	6.9	6.7	6.8	---	---	---
26	---	---	---	6.8	6.7	6.7	6.9	6.7	6.8	---	---	---
27	---	---	---	---	---	---	6.9	6.7	6.8	---	---	---
28	---	---	---	---	---	---	6.8	6.7	6.8	---	---	---
29	---	---	---	---	---	---	6.8	6.6	6.7	---	---	---
30	6.8	6.6	---	---	---	---	6.8	6.4	6.6	---	---	---
31	6.8	6.6	6.7	---	---	---	6.6	6.4	6.5	---	---	---
MONTH	---	---	---	6.8	6.2	6.6	6.9	6.2	6.7	---	---	---

[illegible]

01482100 DELAWARE RIVER AT DELAWARE MEMORIAL BRIDGE, NEAR WILMINGTON, DE--Continued

PH (UNITS), WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

DAY	JUNE			JULY			AUGUST			SEPTEMBER		
	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	---	---	---	7.1	6.6	6.9	7.1	6.7	6.9	---	---	---
2	---	---	---	7.1	6.9	7.0	7.1	6.9	7.0	---	---	---
3	---	---	---	7.1	6.9	7.0	7.0	6.9	6.9	---	---	---
4	---	---	---	7.1	6.9	7.0	7.5	6.9	7.1	---	---	---
5	---	---	---	7.1	6.9	6.9	7.8	6.9	---	---	---	---
6	---	---	---	7.1	6.8	6.9	---	---	---	---	---	---
7	---	---	---	7.0	6.7	6.9	---	---	---	---	---	---
8	---	---	---	7.0	6.6	6.8	---	---	---	6.8	6.6	---
9	7.2	6.4	6.8	7.1	6.7	6.9	---	---	---	6.9	6.5	6.7
10	7.4	6.8	7.1	7.1	6.9	7.0	---	---	---	6.9	6.3	6.6
11	7.5	5.8	6.8	7.1	6.5	6.8	7.4	6.9	---	6.6	6.3	6.5
12	6.7	5.5	6.2	7.1	6.6	6.9	7.5	6.9	7.2	6.6	6.3	6.5
13	6.0	5.5	5.7	7.2	6.9	7.1	7.6	7.0	---	6.5	6.0	6.4
14	7.4	6.1	6.7	7.3	6.9	7.1	---	---	---	6.6	6.1	6.4
15	7.7	6.7	7.3	7.3	6.7	7.0	---	---	---	6.4	6.2	---
16	7.7	7.2	7.5	7.2	6.6	6.9	7.3	6.8	---	---	---	---
17	7.7	7.2	7.6	7.3	6.4	7.0	7.5	7.2	7.4	7.0	6.7	---
18	7.7	7.1	7.5	7.3	7.0	7.2	7.5	6.8	7.2	7.2	6.9	7.1
19	7.5	7.2	7.4	7.2	6.9	7.1	7.4	6.9	7.2	7.2	7.0	7.1
20	7.6	6.8	7.2	7.3	6.8	7.1	7.5	7.0	7.3	7.2	7.0	7.1
21	7.2	6.7	7.0	7.4	6.7	7.1	7.6	7.2	7.4	7.2	7.0	7.1
22	7.1	6.7	---	7.2	6.7	7.0	7.8	7.2	---	7.2	6.7	7.0
23	---	---	---	7.4	6.8	7.1	---	---	---	6.9	6.7	6.8
24	---	---	---	7.3	6.7	7.1	---	---	---	6.9	6.7	6.8
25	---	---	---	7.0	6.4	6.5	---	---	---	7.0	6.7	6.8
26	---	---	---	6.7	6.4	6.5	---	---	---	7.0	6.7	6.8
27	---	---	---	7.3	6.1	6.7	---	---	---	6.9	6.7	6.8
28	---	---	---	6.8	6.3	6.6	---	---	---	6.9	6.6	6.8
29	6.8	6.1	---	6.9	6.4	6.7	---	---	---	6.9	6.7	6.8
30	6.8	6.2	6.6	7.0	6.5	6.8	---	---	---	6.9	6.6	6.8
31	---	---	---	7.0	6.6	6.8	---	---	---	---	---	---
MONTH	---	---	---	7.4	6.1	6.9	---	---	---	---	---	---

TEMPERATURE (°C) OF WATER, 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	---	---	---	14.0	13.5	14.0	9.0	8.5	9.0	6.0	5.0	5.5
2	---	---	---	14.0	13.5	14.0	9.0	8.5	9.0	6.0	5.5	6.0
3	---	---	---	14.0	14.0	14.0	8.5	8.0	8.0	7.0	5.5	6.0
4	---	---	---	14.0	14.0	14.0	8.0	7.0	7.5	6.5	5.5	6.0
5	---	---	---	14.0	13.5	14.0	8.0	7.0	7.5	6.0	5.0	5.5
6	---	---	---	14.0	13.5	14.0	8.0	7.0	7.5	5.0	4.5	5.0
7	---	---	---	14.0	14.0	14.0	8.0	6.5	7.0	5.0	4.5	5.0
8	18.5	18.0	---	14.5	14.0	14.5	6.5	6.0	6.5	5.0	4.5	5.0
9	18.0	18.0	18.0	15.0	14.5	15.0	6.5	6.0	6.0	5.0	4.0	4.5
10	18.0	18.0	18.0	16.0	15.0	15.5	8.0	6.0	7.0	4.5	4.0	4.5
11	18.0	18.0	18.0	15.0	14.5	15.0	8.0	7.0	7.0	4.5	3.5	4.0
12	18.0	17.0	17.5	15.0	14.5	15.0	7.0	6.0	7.0	4.5	1.5	3.5
13	17.0	17.0	17.0	15.0	14.5	14.5	7.0	6.5	7.0	2.0	1.0	1.5
14	17.0	16.5	17.0	14.5	13.5	14.0	8.0	7.0	7.0	2.0	1.5	2.0
15	17.0	16.5	17.0	13.5	13.0	13.0	8.0	7.0	7.0	2.0	2.0	2.0
16	17.0	17.0	17.0	13.0	12.0	12.5	8.0	7.0	8.0	2.0	1.5	2.0
17	17.0	16.5	17.0	12.0	11.5	12.0	8.0	7.0	7.5	2.0	1.5	2.0
18	20.0	16.5	18.0	12.0	11.5	12.0	8.0	7.0	7.0	1.5	1.0	1.5
19	19.0	17.0	18.0	12.0	12.0	12.0	7.0	6.0	6.5	1.5	0.5	1.0
20	18.0	16.5	17.0	12.0	12.0	12.0	6.5	5.0	6.0	1.0	0.5	0.5
21	16.5	16.5	16.5	12.0	11.5	12.0	6.0	5.0	5.5	1.0	0.5	0.5
22	16.5	16.0	16.5	12.0	11.0	11.5	6.0	5.0	5.5	1.0	0.5	1.0
23	19.5	16.0	16.5	11.5	10.5	11.0	5.5	4.5	5.0	1.0	0.0	0.5
24	20.5	17.0	19.0	11.0	10.0	10.5	5.5	4.5	5.0	0.5	0.0	0.0
25	19.5	14.5	18.0	10.5	10.0	10.0	6.0	4.5	5.0	0.5	0.0	0.5
26	14.5	11.5	12.5	10.5	9.5	10.0	6.5	4.5	5.0	1.0	0.5	1.0
27	14.5	11.5	13.5	10.0	9.5	9.5	5.5	5.0	5.0	1.5	1.0	1.0
28	19.0	13.0	16.5	10.0	9.0	9.5	5.5	4.5	5.0	2.0	1.5	2.0
29	20.0	15.0	17.0	9.5	9.0	9.5	5.5	4.5	5.0	2.0	1.5	2.0
30	15.0	13.5	14.5	9.0	9.0	9.0	5.0	4.5	5.0	2.0	2.0	---
31	14.5	14.0	14.0	---	---	---	6.0	5.0	5.0	---	---	---
MONTH	---	---	---	16.0	9.0	12.5	9.0	4.5	6.5	7.0	0.0	3.0

DELAWARE RIVER BASIN

01482100 DELAWARE RIVER AT DELAWARE MEMORIAL BRIDGE, NEAR WILMINGTON, DE--Continued

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

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

01482100 DELAWARE RIVER AT DELAWARE MEMORIAL BRIDGE, NEAR WILMINGTON, DE--Continued

DISSOLVED OXYGEN (DO), MG/L. 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	---	---	---	7.6	6.7	7.0	6.6	6.1	6.4	11.2	9.4	10.3
2	---	---	---	7.1	6.6	7.0	6.9	6.5	6.7	10.8	8.8	9.8
3	---	---	---	6.9	6.3	6.7	8.0	6.3	7.3	9.9	8.6	9.4
4	---	---	---	6.7	6.0	6.4	8.5	8.0	8.3	10.5	8.9	9.7
5	---	---	---	6.6	5.8	6.2	8.4	8.0	8.2	10.8	7.7	9.5
6	---	---	---	6.4	5.7	6.0	8.2	7.4	7.8	10.1	8.2	9.0
7	---	---	---	6.4	5.3	5.8	8.3	7.2	7.7	10.8	9.8	10.2
8	4.8	4.0	---	6.0	5.2	5.6	8.4	7.9	8.1	11.4	10.4	11.0
9	4.8	3.9	4.3	5.7	4.6	5.3	8.7	8.1	8.5	11.5	11.1	11.3
10	5.0	4.2	4.5	4.6	3.7	4.0	9.0	8.1	8.6	11.5	11.2	11.3
11	4.9	4.2	4.6	5.9	4.0	4.9	9.1	8.4	8.8	11.7	11.1	11.4
12	4.9	4.0	4.5	6.2	5.2	5.7	9.1	8.4	8.7	11.6	9.8	10.9
13	5.3	4.1	4.7	6.7	4.7	5.7	8.8	8.3	8.5	11.6	9.7	10.7
14	5.8	4.1	4.9	5.9	4.6	5.5	8.5	7.9	8.2	12.3	10.1	11.3
15	5.1	4.2	4.6	5.7	4.7	5.2	8.3	7.2	7.8	12.4	11.3	11.9
16	5.3	4.0	4.6	5.5	4.7	5.1	8.0	5.4	7.2	12.4	11.5	12.0
17	5.1	4.0	4.7	5.3	4.7	4.9	9.0	7.2	7.8	12.2	11.4	11.9
18	5.7	4.5	5.2	5.1	4.7	4.8	7.8	6.8	7.4	12.5	11.9	12.3
19	5.4	4.3	4.9	5.1	4.5	4.8	8.0	7.4	7.7	12.1	10.0	11.1
20	5.4	4.0	5.0	5.1	4.5	4.7	8.7	7.7	8.1	11.3	9.5	10.3
21	5.2	4.1	4.6	5.0	4.3	4.6	9.1	8.7	8.9	11.3	10.1	10.7
22	5.6	4.7	5.0	4.9	3.9	4.4	9.9	9.1	9.4	11.3	10.5	11.0
23	5.6	4.8	5.2	5.7	4.6	5.0	10.2	9.9	10.1	11.5	9.9	10.6
24	---	---	---	6.8	5.8	6.4	10.1	9.3	9.6	10.5	9.8	10.1
25	---	---	---	7.0	6.6	6.8	9.7	9.2	9.4	10.2	9.6	9.9
26	---	---	---	6.6	6.2	6.4	10.7	8.9	9.7	9.7	9.4	9.5
27	---	---	---	6.6	6.2	6.4	11.1	10.1	10.5	10.6	9.5	10.0
28	---	---	---	6.5	6.1	6.3	11.7	10.7	11.2	10.9	9.3	10.1
29	---	---	---	6.4	6.1	6.3	11.7	10.6	---	12.8	10.3	11.7
30	7.4	6.4	---	6.4	6.0	6.2	10.1	8.7	---	13.3	12.4	---
31	7.7	6.7	7.1	---	---	---	10.2	8.5	9.2	---	---	---
MONTH	---	---	---	7.6	3.7	5.7	11.7	5.4	8.5	13.3	7.7	10.7
DAY	FEBRUARY			MARCH			APRIL			MAY		
	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	---	---	---	9.9	9.6	9.8	8.0	6.8	---	8.2	7.4	7.8
2	---	---	---	9.9	9.6	9.8	7.8	6.3	7.1	7.8	7.1	7.5
3	---	---	---	10.1	9.9	---	7.6	6.1	6.9	7.3	6.6	7.0
4	---	---	---	10.1	9.5	9.8	7.5	6.1	6.8	7.0	6.0	---
5	---	---	---	10.4	9.6	10.2	7.4	6.2	6.7	---	---	---
6	---	---	---	10.5	10.1	10.3	7.2	6.4	6.8	---	---	---
7	---	---	---	10.6	10.0	10.4	7.4	6.4	6.8	---	---	---
8	---	---	---	10.5	9.7	10.1	7.3	6.5	6.8	---	---	---
9	---	---	---	10.9	9.8	10.4	7.2	6.7	7.0	---	---	---
10	---	---	---	11.3	9.6	10.6	7.8	6.9	7.4	6.4	5.7	---
11	12.0	11.5	---	10.9	9.3	10.3	8.0	7.3	7.6	6.4	5.6	5.9
12	12.4	11.7	12.1	10.2	9.0	9.6	9.0	7.4	8.1	6.4	5.6	5.9
13	12.3	12.0	12.2	9.7	8.9	9.3	9.2	7.7	8.4	6.2	5.0	5.5
14	12.2	12.0	12.1	9.3	8.4	8.8	8.9	7.5	8.2	6.2	4.8	5.2
15	12.2	12.0	---	9.4	7.6	8.6	8.5	7.2	7.9	5.4	4.3	4.7
16	12.2	11.9	12.0	8.9	7.4	8.2	8.1	7.1	7.5	5.1	3.9	4.2
17	12.1	11.9	---	9.5	7.5	8.8	7.7	6.8	7.3	5.4	3.7	4.4
18	---	---	---	10.2	9.1	9.5	7.7	7.0	7.3	6.0	4.8	---
19	---	---	---	10.5	9.0	9.6	7.6	6.9	7.3	---	---	---
20	---	---	---	10.1	8.8	9.3	7.4	6.0	7.0	---	---	---
21	---	---	---	9.9	9.0	9.3	6.7	6.0	6.3	---	---	---
22	---	---	---	9.7	9.0	9.3	7.0	6.0	6.4	---	---	---
23	---	---	---	9.3	8.6	9.0	7.1	6.0	6.4	---	---	---
24	---	---	---	9.3	8.3	8.8	7.3	6.6	7.0	---	---	---
25	---	---	---	8.5	7.7	---	8.0	6.8	7.3	---	---	---
26	10.3	9.9	---	---	---	---	7.9	6.7	7.3	---	---	---
27	10.5	9.8	10.1	---	---	---	8.2	7.3	7.8	---	---	---
28	10.3	9.9	10.0	---	---	---	8.2	7.7	8.1	---	---	---
29	10.1	9.7	9.9	---	---	---	8.4	7.7	8.1	---	---	---
30	---	---	---	---	---	---	8.1	7.7	7.9	---	---	---
31	---	---	---	---	---	---	---	---	---	---	---	---
MONTH	---	---	---	11.3	7.4	---	9.2	6.0	7.3	---	---	---

DELAWARE RIVER BASIN

01482100 DELAWARE RIVER AT DELAWARE MEMORIAL BRIDGE, NEAR WILMINGTON, DE--Continued

DISSOLVED OXYGEN (DO), MG/L, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

DAY	JUNE			JULY			AUGUST			SEPTEMBER		
	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	3.2	2.4	---	3.6	1.2	2.6	---	---	---	---	---	---
2	3.5	2.5	2.9	3.3	1.0	2.4	---	---	---	---	---	---
3	3.5	2.6	3.0	3.3	1.2	2.3	---	---	---	---	---	---
4	3.4	2.7	3.0	3.2	1.2	2.2	4.4	2.7	---	---	---	---
5	3.6	2.7	3.0	3.2	1.1	2.0	4.1	3.0	---	---	---	---
6	3.6	2.7	3.0	3.1	.9	1.8	---	---	---	---	---	---
7	4.2	2.6	3.1	3.7	1.1	2.2	---	---	---	---	---	---
8	4.0	2.5	3.0	3.5	1.0	2.1	---	---	---	---	---	---
9	3.9	2.1	2.8	3.4	.5	1.8	---	---	---	---	---	---
10	3.6	1.8	2.4	3.3	.3	1.7	---	---	---	2.8	1.9	---
11	3.7	1.6	2.4	3.4	.8	2.3	---	---	---	2.5	1.9	2.3
12	3.5	1.6	2.6	3.7	1.2	2.6	---	---	---	2.4	1.7	2.1
13	4.4	2.5	3.4	4.3	1.8	3.3	---	---	---	2.5	1.7	2.2
14	4.7	2.8	3.7	4.8	2.2	3.6	---	---	---	3.8	1.8	2.2
15	4.3	2.7	3.6	4.6	2.3	3.6	---	---	---	---	---	---
16	4.7	3.0	3.9	4.3	2.1	3.4	---	---	---	---	---	---
17	5.0	3.1	4.2	4.1	2.1	3.3	---	---	---	4.6	3.4	---
18	4.8	2.7	4.0	4.2	2.6	3.5	---	---	---	4.3	3.2	3.8
19	4.6	2.8	3.9	4.0	2.7	3.4	---	---	---	4.5	3.0	3.6
20	4.7	2.9	3.9	4.7	3.0	3.7	---	---	---	4.3	3.0	3.5
21	5.0	3.1	4.1	4.6	3.2	3.9	---	---	---	---	---	---
22	5.1	3.1	4.2	4.7	3.1	3.8	---	---	---	5.5	3.7	---
23	4.7	2.6	3.9	4.4	3.3	3.9	---	---	---	6.0	3.5	5.0
24	4.5	1.9	3.3	4.1	3.0	3.6	---	---	---	6.2	4.2	5.4
25	4.2	2.0	3.2	4.3	2.9	3.5	---	---	---	6.5	4.4	5.4
26	4.4	1.5	2.8	4.5	3.0	3.8	---	---	---	6.7	4.1	5.5
27	4.2	1.2	2.7	4.7	3.0	3.8	---	---	---	6.6	4.3	5.6
28	4.0	.8	2.5	4.4	2.7	3.6	---	---	---	6.6	3.9	5.4
29	3.8	1.2	2.4	4.3	2.6	3.4	---	---	---	5.9	3.9	4.9
30	3.5	1.0	2.5	4.0	2.2	3.2	---	---	---	4.8	3.0	4.1
31	---	---	---	3.5	2.4	---	---	---	---	---	---	---
MONTH	5.1	.8	3.2	4.8	.3	3.0	---	---	---	---	---	---

DELAWARE RIVER BASIN

303

01482800 DELAWARE RIVER AT REEDY ISLAND JETTY, DE

LOCATION.--Lat 39°30'03", long 75°34'07", New Castle County, Hydrologic Unit 02040205, water-quality recorder located on platform about 0.4 mi (0.6 km) downstream from Reedy Island near Port Penn.

DRAINAGE AREA.--11,200 mi² (29,100 km²), approximately.

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

PERIOD OF DAILY RECORD.--

SPECIFIC CONDUCTANCE: October 1963 to current year.

pH: February 1970 to current year.

WATER TEMPERATURES: February 1970 to current year.

DISSOLVED OXYGEN: February 1970 to current year.

EXTREMES FOR PERIOD OF DAILY RECORD.--

SPECIFIC CONDUCTANCE: Maximum, 35,400 micromhos Nov. 7, 1963; minimum, 100 micromhos on several days in August 1969, April 1970, and February 1974.

pH: Maximum, 8.8 Aug. 29, Sept. 2, 1973; minimum, 5.4 Dec. 31, 1972.

WATER TEMPERATURES: Maximum, 29.5°C Aug. 5, 1975; minimum, freezing point on many days during winter periods.

DISSOLVED OXYGEN: Maximum, 13.7 mg/l Feb. 18, 19, 1973; minimum, 0.3 mg/l Sept. 16, 17, 1971.

EXTREMES FOR CURRENT YEAR.--

WATER TEMPERATURES: Maximum, 26.5°C June 28, 29, July 6, 10; minimum, freezing point on several days during January.

SPECIFIC CONDUCTANCE (MICROMHOS/CM AT 25 C), 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	7000	1280	3150	8360	5200	6590	1720	1080	1320	10800	3080	5430
2	5440	1400	2620	6360	5000	5680	2960	760	1330	9960	2520	6730
3	4960	1320	2310	6120	5000	5580	3040	680	1320	7760	6160	6910
4	4160	1600	2450	6240	5480	5860	2960	720	1190	6080	2480	4700
5	5520	1640	2680	8000	2160	4460	3160	720	1330	3440	1600	2350
6	4320	1800	---	9280	2240	4190	2440	720	1260	7680	2240	5610
7	---	---	---	8080	2480	4600	3160	760	1410	7040	5280	6160
8	8040	2320	---	6120	2200	3850	5200	1200	2480	5760	4080	5140
9	7320	2280	4060	5640	2080	3230	7160	2320	4850	7600	3800	5910
10	7200	2800	4560	6560	2000	3690	8640	2840	4840	11000	6320	9120
11	6640	560	4280	6120	1800	2880	5920	2080	3540	12000	8760	10000
12	6000	3040	4360	6360	1720	3410	6720	2240	4780	12300	10500	11300
13	7760	3360	5210	4360	1520	2480	8680	3240	5990	13400	10500	12200
14	9880	4600	7370	4840	920	2180	8680	3800	6190	12400	9560	11200
15	9240	2680	6730	3760	640	1710	9320	4200	6000	9440	6480	7790
16	8160	2440	4810	4360	1160	2440	7320	3680	5120	9560	5200	---
17	7880	2360	5110	4640	1600	2780	8640	4320	5920	---	---	---
18	9960	3160	6280	3680	2080	2820	7480	4360	5720	---	---	---
19	7160	2920	4960	3680	2240	2830	6600	3200	4510	---	---	---
20	7000	1200	4180	3840	480	2090	8080	3160	4650	---	---	---
21	3960	1080	1890	4240	400	1430	7360	3280	4690	---	---	---
22	1440	640	988	2600	200	742	8760	4640	6130	---	---	---
23	1840	600	897	1480	160	507	8720	5080	6400	---	---	---
24	2000	360	755	3400	200	1320	7400	4960	---	---	---	---
25	2120	320	722	4200	1160	2650	---	---	---	---	---	---
26	1520	200	468	2440	960	1560	---	---	---	---	---	---
27	3760	280	1080	2880	920	1670	---	---	---	---	---	---
28	4760	400	1650	2600	840	1460	---	---	---	---	---	---
29	4760	480	1710	2440	1080	1590	6920	3640	---	---	---	---
30	4680	480	1410	2400	1080	1700	11200	3440	5710	560	360	---
31	6640	560	3200	---	---	---	10400	3360	5140	600	360	450
MONTH	9960	200	3210	9280	160	2930	11200	680	4070	---	---	---

DELAWARE RIVER BASIN

01482800 DELAWARE RIVER AT REEDY ISLAND JETTY, PA--Continued

SPECIFIC CONDUCTANCE (MICROMHOS/CM AT 25°C), WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

DAY	FEBRUARY			MARCH			APRIL			MAY		
	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	440	320	388	560	240	363	3680	600	1490	12800	5200	8610
2	1200	280	472	760	320	448	2200	360	778	12900	4120	6960
3	840	440	675	1240	360	688	600	320	438	11200	3440	6020
4	640	400	515	1200	240	535	1760	360	562	8640	2840	4660
5	520	360	422	640	240	402	1400	320	547	10800	2440	5230
6	480	320	387	480	240	302	4440	360	1480	7960	1880	3500
7	1880	200	587	760	240	288	5560	560	2660	7520	1560	3560
8	4600	320	2900	1320	160	318	5840	720	2680	7640	1760	3150
9	8920	1400	4140	4000	200	2100	7280	1560	3420	9320	1560	4410
10	9880	2280	6400	6160	2600	4460	9440	3280	5610	10200	2320	4950
11	9600	3000	5220	8320	1920	4220	10500	4360	7650	9080	2680	5090
12	9640	1960	4690	5600	1680	3040	7400	3360	4810	7960	3480	5160
13	10600	2200	4880	6720	1840	3510	7320	3280	4970	8160	4200	5540
14	5480	1960	3400	3840	880	1730	7920	3160	4990	7520	4920	5810
15	6200	1920	3610	3720	880	1810	11400	3400	5860	7280	4960	5910
16	4560	2120	3090	4960	800	2020	10500	3680	5830	6440	5040	5550
17	3920	2040	2740	1960	560	1190	9920	3640	5700	6840	4920	5890
18	4760	2240	3150	1160	520	795	10100	3760	5720	6920	5360	6080
19	4080	2200	2750	2760	520	1080	9000	3920	5560	5680	2400	3900
20	2160	1960	---	2680	560	1050	7920	3800	5220	6600	1600	3540
21	---	---	---	3640	680	1300	7720	3720	5110	9840	1840	4910
22	---	---	---	920	440	583	9000	3840	5740	9040	2120	5530
23	---	---	---	1600	400	730	8320	3920	5560	9920	4640	6630
24	---	---	---	1240	560	743	8840	3680	5610	10200	2760	5660
25	---	---	---	840	480	602	9520	3920	6090	12600	3360	6890
26	---	---	---	1040	480	643	8680	4200	5690	10700	4080	7080
27	400	320	---	1440	560	930	9920	3560	5310	9480	3520	5690
28	680	320	385	1280	920	1030	9320	3160	4950	9960	2800	5030
29	600	320	377	1120	920	995	12900	4280	7550	10200	3240	5600
30	---	---	---	3480	600	1310	15400	4520	8350	9400	3400	5410
31	---	---	---	2640	560	1370	---	---	---	9440	3440	5600
MONTH	10600	200	---	8320	160	1310	15400	320	4530	12900	1560	5400
DAY	JUNE			JULY			AUGUST			SEPTEMBER		
	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	9600	3800	5870	9120	2880	5260	14200	7400	10300	---	---	---
2	9600	6600	8020	8520	2960	5770	14200	4440	9960	---	---	---
3	11400	7760	9490	8160	5320	6780	14800	7000	9780	---	---	---
4	8800	6320	7650	8440	4480	6040	15600	7480	10300	---	---	---
5	9080	6480	7850	10200	4800	6990	15900	7760	10300	---	---	---
6	10100	6800	8420	9680	2880	6640	15000	6800	9400	---	---	---
7	9240	4040	6460	8720	2920	4940	15600	6640	9360	12800	7360	---
8	11100	3880	6010	8720	2360	4310	14600	6960	9480	14100	7360	9460
9	9520	4160	---	9120	2320	4170	15200	6800	9100	15100	7520	10300
10	---	---	---	8240	2560	4340	12000	6040	8310	15300	8520	11400
11	---	---	---	9320	2920	4950	12400	5600	7700	15100	8000	11000
12	---	---	---	8600	2800	4610	13400	5720	7940	13200	8200	10200
13	---	---	---	7160	2640	4300	10200	5680	7030	13600	7760	10200
14	9240	5600	---	11000	2600	5530	9400	5360	6670	14100	7840	10500
15	10400	4600	6850	11900	3320	---	10800	5240	---	14200	8120	10600
16	9960	4640	6840	---	---	---	---	---	---	13900	8280	10600
17	8960	3640	5750	---	---	---	---	---	---	14200	7600	10200
18	8240	3520	5410	---	---	---	---	---	---	14500	7120	9950
19	7440	3880	5430	---	---	---	---	---	---	15200	6920	9770
20	7480	4480	5710	---	---	---	---	---	---	16800	6880	10600
21	6480	4560	5550	---	---	---	---	---	---	16800	7480	10600
22	6040	4680	---	---	---	---	---	---	---	16000	7800	11200
23	6080	4640	5300	---	---	---	---	---	---	16400	8000	11000
24	6120	4440	5190	---	---	---	---	---	---	13900	7360	9960
25	10900	4280	5300	---	---	---	---	---	---	17100	7640	11400
26	5720	4240	4970	15600	6560	---	---	---	---	16800	8600	11900
27	6600	4400	5830	16000	6720	9550	---	---	---	15100	8600	11600
28	7120	5440	6380	14400	4440	8530	---	---	---	15700	8360	10900
29	7600	3080	5750	15200	6920	9960	---	---	---	15800	8440	11500
30	9600	3120	5590	15200	7160	10200	---	---	---	13200	8800	10600
31	---	---	---	15300	7160	10100	---	---	---	---	---	---
MONTH	11400	3080	---	---	---	---	---	---	---	17100	6880	---

01482800 DELAWARE RIVER AT REEDY ISLAND JETTY, PA--Continued

PH (UNITS), 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	7.6	7.3	7.4	7.6	6.2	7.0	---	---	---	---	---	---
2	7.5	6.8	7.1	8.1	6.4	7.2	7.0	6.8	---	7.2	6.8	---
3	7.2	6.7	6.9	8.3	7.2	7.8	7.2	6.7	6.9	7.6	7.2	7.4
4	7.3	6.7	7.0	8.6	7.9	8.2	7.2	6.8	6.9	7.3	6.7	6.9
5	7.7	7.2	7.4	7.9	7.2	---	7.1	6.4	6.8	7.4	6.7	6.9
6	7.7	7.5	---	---	---	---	6.9	6.5	6.6	7.1	6.8	6.9
7	---	---	---	---	---	---	7.2	6.6	6.9	7.4	6.9	7.1
8	7.6	7.3	---	---	---	---	7.2	6.9	7.0	7.2	6.8	7.0
9	7.8	7.5	7.6	---	---	---	7.3	7.0	7.2	7.1	6.8	7.0
10	7.9	7.5	7.7	---	---	---	7.4	7.1	7.2	7.2	6.9	7.0
11	7.8	7.4	7.7	---	---	---	7.2	7.0	7.1	7.2	6.9	7.1
12	7.5	6.8	7.1	---	---	---	7.3	7.0	7.1	7.2	7.0	7.1
13	7.4	6.8	7.1	---	---	---	7.3	7.0	7.2	7.5	7.0	7.2
14	8.1	7.1	7.6	---	---	---	7.3	6.8	7.1	7.6	7.0	7.3
15	7.9	7.7	---	---	---	---	7.2	6.7	6.9	7.9	7.1	7.4
16	7.7	6.8	7.1	---	---	---	7.2	6.7	7.0	7.8	7.5	7.6
17	8.0	6.6	7.4	---	---	---	7.4	6.9	7.1	7.5	7.0	7.1
18	---	---	---	---	---	---	7.2	6.9	7.1	7.6	7.1	7.2
19	---	---	---	---	---	---	7.6	7.0	7.2	7.4	7.0	7.2
20	---	---	---	---	---	---	7.6	7.1	7.2	---	---	---
21	---	---	---	---	---	---	7.6	7.2	7.3	---	---	---
22	---	---	---	---	---	---	7.8	7.4	7.6	---	---	---
23	---	---	---	---	---	---	7.9	7.5	7.7	---	---	---
24	---	---	---	---	---	---	7.8	7.4	---	---	---	---
25	---	---	---	---	---	---	---	---	---	---	---	---
26	---	---	---	---	---	---	---	---	---	---	---	---
27	---	---	---	---	---	---	---	---	---	---	---	---
28	8.1	7.3	---	---	---	---	---	---	---	---	---	---
29	8.5	7.9	8.2	---	---	---	7.2	6.9	---	---	---	---
30	7.7	6.5	7.0	---	---	---	7.2	6.9	7.0	7.1	6.9	---
31	7.5	6.6	7.0	---	---	---	7.2	6.9	7.0	7.5	7.0	7.2
MONTH	---	---	---	---	---	---	7.9	6.4	---	---	---	---
DAY	FEBRUARY			MARCH			APRIL			MAY		
	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	7.8	7.3	7.6	7.1	6.8	6.9	7.1	7.0	7.1	---	---	---
2	7.8	7.2	7.4	7.1	6.9	7.1	7.1	6.8	7.0	7.3	7.1	---
3	8.2	7.3	7.5	7.2	6.9	7.0	7.0	6.8	6.9	7.4	6.9	7.1
4	7.8	7.5	7.7	7.1	6.7	6.9	7.1	6.9	7.0	7.0	6.8	6.9
5	7.6	7.0	7.3	7.1	6.6	6.9	7.1	6.9	7.0	7.0	6.7	6.8
6	7.9	7.4	7.7	7.0	6.5	6.6	7.2	6.9	7.0	6.9	6.8	6.8
7	7.5	7.0	7.2	6.6	6.5	6.5	7.2	7.0	7.1	7.0	6.7	6.9
8	7.6	7.3	7.4	6.7	6.5	6.6	7.3	7.0	7.1	7.0	6.8	6.9
9	7.6	7.4	7.5	7.2	6.5	6.9	7.4	7.1	7.2	7.0	6.8	6.8
10	8.0	7.5	7.7	7.2	6.9	7.1	7.8	7.2	7.5	6.9	6.7	6.8
11	8.1	7.7	7.9	7.3	6.9	7.1	8.0	7.3	7.6	6.9	6.6	6.8
12	8.0	7.5	7.7	7.4	6.8	7.0	7.5	7.1	7.2	6.9	6.7	6.8
13	8.1	7.9	8.0	7.8	7.0	7.4	7.4	7.0	7.2	6.9	6.7	6.8
14	8.0	7.5	7.7	7.6	6.8	7.0	7.4	6.9	7.0	---	---	---
15	8.1	7.5	7.9	7.1	6.9	7.0	7.3	6.9	7.0	---	---	---
16	8.1	7.8	7.9	7.4	6.9	7.1	7.3	6.8	7.0	---	---	---
17	8.1	7.9	8.0	7.1	6.6	6.9	7.1	6.8	6.9	---	---	---
18	8.2	7.9	8.0	6.9	6.7	6.8	7.0	6.8	6.9	---	---	---
19	8.1	7.6	7.9	7.0	6.8	6.9	7.3	6.8	7.0	---	---	---
20	7.8	7.6	---	7.2	6.9	7.1	7.4	6.8	7.0	---	---	---
21	---	---	---	7.5	7.1	7.3	7.5	6.9	7.1	---	---	---
22	---	---	---	7.1	7.0	7.0	7.9	6.9	7.2	7.0	6.8	6.9
23	---	---	---	7.1	6.9	7.0	7.0	6.7	6.8	7.3	6.7	6.8
24	---	---	---	7.2	6.9	7.0	6.9	6.7	6.8	7.1	6.7	6.9
25	---	---	---	7.2	7.0	7.1	7.5	6.7	6.9	7.2	6.8	7.0
26	---	---	---	7.3	7.2	7.3	6.9	6.7	6.8	7.4	6.8	7.1
27	7.3	6.9	---	7.8	7.3	7.5	7.1	6.7	6.8	7.1	6.8	6.9
28	7.2	6.9	7.1	7.7	7.5	7.6	7.1	6.7	6.9	7.0	6.7	6.9
29	7.1	6.8	6.9	7.9	7.6	7.7	7.1	6.8	7.0	---	---	---
30	---	---	---	7.8	7.1	7.4	7.3	6.9	---	---	---	---
31	---	---	---	7.2	6.9	7.0	---	---	---	---	---	---
MONTH	8.2	6.8	---	7.9	6.5	7.1	8.0	6.7	7.0	---	---	---

DELAWARE RIVER BASIN

01482800 DELAWARE RIVER AT REEDY ISLAND JETTY, PA--Continued

PH (UNITS), WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

DAY	JUNE			JULY			AUGUST			SEPTEMBER		
	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	---	---	---	6.7	6.4	6.6	7.2	7.0	7.1	---	---	---
2	7.4	6.9	7.1	6.7	6.5	6.6	7.2	7.1	7.2	---	---	---
3	7.3	7.0	7.2	6.6	6.4	6.5	7.3	7.1	7.2	---	---	---
4	7.2	6.9	7.1	6.7	6.5	6.5	7.3	7.1	7.2	---	---	---
5	7.2	6.9	7.1	6.7	6.5	6.6	7.3	7.1	7.2	---	---	---
6	7.1	6.9	7.0	6.5	6.4	---	7.3	7.1	7.2	---	---	---
7	---	---	---	---	---	---	7.3	7.1	7.1	7.4	7.3	---
8	---	---	---	---	---	---	7.3	7.1	7.2	7.5	7.2	7.3
9	---	---	---	---	---	---	7.3	7.1	7.2	7.5	7.3	7.4
10	---	---	---	---	---	---	7.3	7.1	7.2	7.5	7.3	7.4
11	---	---	---	---	---	---	7.3	7.1	7.1	7.5	7.3	7.4
12	---	---	---	---	---	---	7.3	7.0	7.1	7.5	7.3	7.4
13	---	---	---	---	---	---	7.2	7.0	7.1	7.5	7.3	7.4
14	7.6	7.1	---	---	---	---	7.2	7.0	7.1	7.5	7.3	7.4
15	7.5	7.2	7.4	---	---	---	7.1	7.0	---	7.5	7.3	7.4
16	7.6	7.0	7.3	---	---	---	---	---	---	7.5	7.3	7.4
17	7.3	6.8	7.1	---	---	---	---	---	---	7.5	7.3	7.4
18	7.1	6.8	7.0	---	---	---	---	---	---	7.5	7.3	7.4
19	6.9	6.7	6.8	---	---	---	---	---	---	7.5	7.3	7.4
20	7.0	6.7	6.8	---	---	---	---	---	---	7.6	7.3	7.4
21	7.0	6.7	6.8	---	---	---	---	---	---	7.5	7.3	7.4
22	7.0	6.6	---	---	---	---	---	---	---	7.5	7.3	7.4
23	7.1	6.6	6.8	---	---	---	---	---	---	7.5	7.3	7.4
24	7.0	6.6	6.8	---	---	---	---	---	---	7.4	7.3	7.4
25	6.9	6.8	6.8	---	---	---	---	---	---	7.5	7.3	7.4
26	7.0	6.7	6.8	7.4	7.1	---	---	---	---	7.5	7.3	7.4
27	6.9	6.6	6.8	7.4	7.1	7.2	---	---	---	7.4	7.2	7.3
28	6.9	6.7	6.8	7.3	7.1	7.1	---	---	---	7.4	7.2	7.3
29	6.9	6.7	6.8	7.3	7.1	7.2	---	---	---	7.4	7.3	7.3
30	6.9	6.5	6.7	7.3	7.0	7.1	---	---	---	7.4	7.3	7.3
31	---	---	---	7.2	7.0	7.1	---	---	---	---	---	---
MONTH	---	---	---	---	---	---	---	---	---	7.6	7.2	---

TEMPERATURE (C) OF WATER, 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	20.5	19.5	20.0	14.0	13.5	13.5	10.0	9.0	9.5	3.0	2.0	3.0
2	20.0	18.5	19.5	14.0	13.0	13.5	9.5	8.5	9.0	3.5	2.0	2.5
3	19.5	18.0	18.5	14.5	13.0	13.5	9.0	8.5	8.5	3.5	2.0	3.0
4	19.0	18.0	18.5	14.0	13.5	13.5	8.5	8.0	8.0	3.0	1.5	2.5
5	19.0	18.0	18.5	15.0	14.0	14.5	8.5	8.0	8.0	2.0	1.0	1.5
6	18.5	18.5	---	14.5	14.0	14.5	8.5	8.0	8.0	1.5	1.0	1.5
7	---	---	---	14.5	14.0	14.5	8.0	7.0	7.5	1.5	1.0	1.5
8	18.5	18.5	---	15.0	14.5	15.0	7.0	5.5	6.5	1.5	0.5	1.0
9	18.5	18.0	18.5	15.0	14.5	15.0	6.0	5.5	6.0	1.0	0.0	0.5
10	18.0	18.0	18.0	15.0	15.0	15.0	6.5	5.5	6.0	1.0	0.0	0.5
11	18.0	17.0	18.0	15.0	14.5	15.0	6.0	6.0	6.0	0.5	0.0	0.5
12	18.0	16.5	17.0	14.5	14.5	14.5	6.0	5.5	6.0	1.0	0.5	0.5
13	18.0	16.5	17.0	14.5	13.5	14.0	6.0	5.5	6.0	1.0	0.5	0.5
14	18.5	17.0	17.5	13.5	12.0	13.5	6.5	6.0	6.0	1.5	1.0	1.0
15	18.0	16.5	17.5	13.0	12.0	12.5	6.5	6.0	6.5	1.5	0.5	1.0
16	17.0	16.5	17.0	13.0	11.5	12.0	6.5	6.0	6.5	1.0	0.5	1.0
17	16.5	15.5	16.0	13.0	11.5	12.0	6.5	5.5	6.5	1.0	0.0	0.5
18	16.5	16.0	16.0	13.0	11.5	12.0	6.5	5.5	6.0	0.0	0.0	0.0
19	16.0	16.0	16.0	13.0	12.0	12.5	5.0	4.5	5.0	0.0	0.0	0.0
20	16.0	16.0	16.0	13.0	12.0	12.5	4.5	4.0	4.5	1.0	0.0	0.0
21	16.0	15.5	15.5	12.0	12.0	12.0	4.5	4.0	4.0	0.0	0.0	0.0
22	16.5	15.5	16.0	12.0	11.0	11.5	4.0	3.5	3.5	0.0	0.0	---
23	16.0	15.5	16.0	11.5	10.5	11.0	3.5	3.0	3.5	---	---	---
24	16.0	15.5	16.0	11.0	10.5	10.5	3.0	2.0	---	---	---	---
25	16.5	16.0	16.0	10.5	10.0	10.5	---	---	---	---	---	---
26	16.5	15.5	16.0	10.5	10.0	10.0	---	---	---	---	---	---
27	15.5	15.5	15.5	10.5	10.0	10.0	---	---	---	---	---	---
28	16.0	15.5	15.5	10.5	9.5	10.0	---	---	---	---	---	---
29	16.0	15.5	15.5	10.0	9.5	9.5	3.5	3.0	---	---	---	---
30	15.5	14.0	15.0	10.0	9.5	9.5	3.0	2.0	2.5	3.0	3.0	---
31	14.5	13.5	14.0	---	---	---	3.5	3.0	3.0	3.0	2.0	3.0
MONTH	20.5	13.5	17.0	15.0	9.5	12.5	10.0	2.0	6.0	---	---	---

DELAWARE RIVER BASIN

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01482800 DELAWARE RIVER AT REEDY ISLAND JETTY, PA--Continued

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

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

DELAWARE RIVER BASIN

01482800 DELAWARE RIVER AT REEDY ISLAND JETTY, PA--Continued

DISSOLVED OXYGEN (DO), 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	5.7	5.0	5.4	8.1	7.3	7.6	8.9	8.1	8.6	11.7	11.2	11.4
2	5.7	4.8	5.3	7.6	7.1	7.4	9.2	8.7	8.9	11.6	10.8	11.2
3	6.5	5.3	5.9	7.4	6.7	7.0	9.6	8.8	9.2	11.6	10.6	11.1
4	6.1	5.3	5.8	7.2	6.5	6.8	9.6	9.1	9.3	11.7	10.7	11.1
5	6.2	5.2	5.7	7.5	7.0	7.2	9.7	9.0	9.3	12.3	11.2	11.7
6	6.2	5.3	---	7.7	6.9	7.2	9.4	8.8	9.1	12.0	11.6	11.8
7	---	---	---	7.4	6.7	7.1	9.9	8.7	9.5	11.8	11.4	11.6
8	5.5	4.5	---	7.2	6.7	7.0	10.1	9.5	9.9	12.1	11.5	11.7
9	5.1	4.4	4.7	6.9	6.5	6.8	10.4	9.8	10.2	12.3	11.7	12.0
10	5.2	4.7	5.0	7.3	6.6	6.9	10.3	9.9	10.1	12.2	11.8	12.0
11	5.0	4.2	4.9	7.3	6.6	7.0	10.1	9.9	10.0	12.3	11.9	12.0
12	5.2	4.7	5.0	7.6	6.7	7.2	10.1	9.7	9.8	12.0	11.8	11.9
13	5.5	5.1	5.3	7.6	7.0	7.3	9.9	9.5	9.7	11.9	11.6	11.8
14	5.6	5.2	5.4	7.8	7.1	7.5	9.7	9.1	9.4	11.9	11.7	11.8
15	7.0	5.2	6.3	7.9	6.9	7.5	9.5	9.0	9.2	11.9	11.8	---
16	6.8	6.3	6.6	7.8	7.0	7.4	9.4	9.0	9.2	---	---	---
17	7.1	6.4	6.7	8.2	7.0	7.4	9.5	9.0	9.2	---	---	---
18	7.2	6.7	7.0	7.8	6.6	7.2	9.6	9.0	9.3	---	---	---
19	6.8	6.4	6.7	7.4	6.4	6.8	10.0	9.4	9.7	---	---	---
20	6.6	6.0	6.4	7.5	6.2	6.8	10.3	9.8	10.1	---	---	---
21	6.3	5.8	6.1	7.9	6.6	7.3	10.5	10.1	10.3	---	---	---
22	6.2	5.6	5.9	8.4	7.1	7.8	10.8	10.4	10.6	---	---	---
23	6.1	5.5	5.8	8.1	7.4	7.8	10.8	10.6	10.7	---	---	---
24	5.8	5.1	5.5	8.7	7.7	8.3	10.9	10.6	---	---	---	---
25	5.6	4.8	5.3	8.8	7.9	8.3	---	---	---	---	---	---
26	5.2	4.2	4.8	8.2	7.6	8.0	---	---	---	---	---	---
27	6.1	4.8	5.4	8.4	7.7	8.2	---	---	---	---	---	---
28	6.1	5.1	5.4	8.4	7.7	8.1	---	---	---	---	---	---
29	5.8	5.0	5.4	8.6	7.7	8.2	11.8	11.1	---	---	---	---
30	7.1	5.4	6.3	8.8	8.0	8.4	11.7	11.1	11.3	---	---	---
31	7.9	6.8	7.3	---	---	---	11.5	10.9	11.2	---	---	---
MONTH	7.9	4.2	5.8	8.8	6.2	7.5	11.8	8.1	9.8	---	---	---
DAY	FEBRUARY			MARCH			APRIL			MAY		
	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	---	---	---	10.0	9.7	9.9	9.6	8.4	8.9	8.4	7.7	8.1
2	---	---	---	10.2	10.0	10.1	8.8	7.8	8.4	8.3	7.4	7.8
3	---	---	---	10.3	10.0	10.2	8.8	7.9	8.4	7.9	7.2	7.5
4	---	---	---	10.2	9.3	9.8	8.6	8.0	8.3	7.6	7.1	7.4
5	---	---	---	9.6	9.2	9.4	8.5	7.9	8.1	7.8	7.1	7.4
6	---	---	---	9.9	9.2	9.5	9.0	7.8	8.5	7.7	7.1	7.4
7	---	---	---	9.9	9.5	9.7	9.3	8.3	8.8	8.4	7.2	7.7
8	---	---	---	9.9	9.3	9.6	9.2	8.4	8.8	8.7	7.9	8.3
9	8.8	8.7	---	10.4	9.5	10.0	10.0	8.7	9.2	8.5	7.8	8.1
10	9.0	8.7	8.8	10.6	10.1	10.3	10.3	9.3	9.8	8.4	7.4	7.9
11	8.8	8.6	8.7	10.5	9.9	10.2	10.6	9.2	10.0	8.4	7.5	7.9
12	8.9	8.6	8.7	10.3	9.9	10.1	10.3	9.4	10.0	8.2	7.2	7.8
13	8.9	8.4	8.6	10.3	9.9	10.1	10.8	9.7	10.1	8.2	7.1	7.6
14	8.6	8.3	8.5	10.4	9.4	9.8	10.8	9.4	9.9	8.1	6.8	7.5
15	8.7	8.3	8.5	10.9	9.1	10.1	10.9	9.3	9.9	7.7	6.4	7.0
16	8.6	8.2	8.4	10.8	10.3	10.6	10.7	9.0	9.7	7.3	6.1	6.8
17	8.4	8.0	8.2	11.3	10.5	10.9	10.3	8.6	9.2	7.3	6.1	6.8
18	8.3	7.8	8.1	11.4	10.7	11.1	10.1	8.4	9.0	7.2	5.8	6.6
19	8.1	7.7	7.8	11.2	10.7	11.0	9.7	8.2	8.8	8.3	6.1	7.3
20	7.7	7.5	---	10.9	10.5	10.7	9.2	8.0	8.4	8.5	7.6	8.1
21	---	---	---	10.9	10.6	10.7	9.2	7.8	8.5	8.3	7.8	8.1
22	---	---	---	11.0	10.4	10.7	9.4	8.2	8.6	8.4	7.7	8.1
23	---	---	---	10.7	10.3	10.5	8.9	7.9	8.4	8.4	7.7	8.1
24	---	---	---	10.5	10.3	10.4	9.1	8.1	8.5	8.7	7.4	8.0
25	---	---	---	10.4	9.8	10.1	9.0	8.2	8.5	8.7	7.3	8.1
26	---	---	---	10.2	9.7	9.9	8.8	8.0	8.4	8.6	7.5	8.0
27	10.4	9.9	---	10.0	9.8	9.9	9.8	8.5	9.1	8.3	7.0	7.7
28	10.3	9.8	10.1	9.9	9.4	9.7	9.8	9.2	9.5	8.1	6.7	7.5
29	10.2	9.9	10.0	9.7	9.2	9.4	10.0	9.2	9.7	8.0	7.1	7.6
30	---	---	---	9.3	8.7	9.0	10.2	7.7	9.0	8.0	6.8	7.4
31	---	---	---	9.2	8.4	8.8	---	---	---	7.6	6.6	7.1
MONTH	---	---	---	11.4	8.4	10.1	10.9	7.7	9.0	8.7	5.8	7.6

DISSOLVED OXYGEN (DO), WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

[illegible]

LAKES AND RESERVOIRS IN DELAWARE RIVER BASIN

- 01428900 PROMPTON RESERVOIR.--Lat 41°35'18", long 75°19'39", Wayne County, Hydrologic Unit 02040103, at dam on West Branch Lackawaxen River, 0.3 mi (0.5 km) north of Prompton, 0.4 mi (0.6 km) upstream from highway bridge and 0.5 mi (0.8 km) upstream from Van Auker Creek. DRAINAGE AREA, 59.6 mi² (154 km²). PERIOD OF RECORD: December 1960 to current year. GAGE, water-stage recorder. Datum of gage is at mean sea level (levels by Corps of Engineers).
Reservoir formed by an earth and rockfill dam with ungated bedrock spillway at elevation 1,205.00 ft (367.284 m). Storage began July 1960. Capacity at elevation 1,205.00 ft (367.284 m) is 51,700 acre-ft (63.7 hm³). Ordinary minimum (conservation) pool elevation, 1,125.00 ft or 342.900 m (capacity, 3,420 acre-ft or 4.22 hm³). Reservoir is used for flood control and recreation. Figures given herein represent total contents. Regulation is accomplished by discharge through an ungated tunnel. Records furnished by Corps of Engineers.
EXTREMES FOR PERIOD OF RECORD: Maximum contents, 8,170 acre-ft (10.1 hm³) June 29, 1973 (elevation, 1,138.40 ft or 347.070 m); minimum (after first filling), 2,920 acre-ft (3.60 hm³) Sept. 27, 1964 (elevation, 1,123.20 ft or 342.351 m).
EXTREMES FOR CURRENT YEAR: Maximum contents, 5,400 acre-ft (6.66 hm³) Oct. 18 (elevation, 1,131.40 ft or 344.851 m); minimum, 3,450 acre-ft (4.25 hm³) Sept. 5 (elevation, 1,125.10 ft or 342.930 m).
- 01429400 GENERAL EDGAR JADWIN RESERVOIR.--Lat 41°36'44", long 75°15'55", Wayne County, Hydrologic Unit 02040103, at dam on Dyberry Creek, 0.45 mi (0.72 km) upstream from unnamed tributary, 2.4 mi (3.9 km) north of Honesdale, and 2.9 mi (4.7 km) upstream from mouth. DRAINAGE AREA, 64.5 mi² (167.1 km²). PERIOD OF RECORD, October 1959 to current year. GAGE, water-stage recorder. Datum of gage is at mean sea level (levels by Corps of Engineers).
Reservoir formed by an earth and rockfill dam with ungated, concrete spillway at elevation, 1,053.00 ft (320.954 m). Storage began in October 1959. Capacity at elevation 1,053.00 ft (320.954 m) is 24,500 acre-ft (30.2 hm³). Reservoir is used for flood control. Figures given herein represent total contents. Regulation is accomplished by discharge through an ungated tunnel. Records furnished by Corps of Engineers.
EXTREMES FOR PERIOD OF RECORD: Maximum contents, 6,520 acre-ft (8.04 hm³) June 19, 1973 (elevation, 1,017.40 ft or 310.104 m); minimum, no storage many times.
EXTREMES FOR CURRENT YEAR: Maximum contents, 2,440 acre-ft (3.01 hm³) Oct. 19, 20 (elevation, 1,002.70 ft or 305.623 m); minimum, no storage many times.
- 01431700 LAKE WALLENPAUPACK.--Lat 41°27'35", long 75°11'10", Wayne County, Hydrologic Unit 02040103, at dam on Wallenpaupack Creek at Wilsonville, 1.2 mi (1.9 km) south of Hawley and 1.5 mi (2.4 km) upstream from mouth. DRAINAGE AREA, 228 mi² (591 km²). PERIOD OF RECORD, January 1926 to current year. GAGE, vertical staff. Datum of gage is at mean sea level (levels by Pennsylvania Power and Light Co.).
Reservoir formed by concrete gravity-type and earthfill dam, with concrete spillway at elevation, 1,176.00 ft (358.445 m) in two sections. Spillway equipped with roller gate, 14 ft high (4.267 m) on each section. Storage began Nov. 3, 1925; water in reservoir first reached minimum pool elevation in January 1926. Total capacity at elevation, 1,190.00 ft or 362.712 m (top of gates) is 209,300 acre-ft (258 hm³), of which 157,800 acre-ft (195 hm³) is controlled storage above elevation, 1,160.00 ft or 353.568 m (minimum pool). Reservoir is used for generation of hydroelectric power. Figures given herein represent usable contents. Records furnished by Pennsylvania Power and Light Co.
EXTREMES FOR PERIOD OF RECORD: Maximum contents, 178,200 acre-ft (220 hm³) Aug. 19-21, 1955 (elevation, 1,193.45 ft or 363.764 m); minimum (after first filling), 12,280 acre-ft (15.1 hm³) Mar. 28, 1958 (elevation, 1,162.60 ft or 354.360 m).
EXTREMES FOR CURRENT YEAR: Maximum contents, 136,510 acre-ft (168 hm³) June 10 (elevation, 1,186.30 ft or 361.584 m); minimum, 91,340 acre-ft (113 hm³) Mar. 26 (elevation, 1,178.10 ft or 359.085 m).
- 01447780 FRANCIS E. WALTER RESERVOIR (formerly published as Bear Creek Reservoir).--Lat 41°06'45", long 75°43'15", Luzerne County, Hydrologic Unit 02040106, at dam on Lehigh River, 2,200 ft (670 m) downstream from Bear Creek and 5 mi (8 km) northwest of White Haven. DRAINAGE AREA, 289 mi² (749 km²). PERIOD OF RECORD, February 1961 to current year. GAGE, water-stage recorder. Datum of gage is at mean sea level (levels by Corps of Engineers).
Reservoir formed by an earthfill embankment covered with a rock shell, with concrete spillway at elevation, 1,450.0 ft (441.96 m). Storage began Feb. 17, 1961; water in reservoir first reached conservation pool elevation in June 1961. Total capacity at elevation 1,450.0 ft (441.96 m) is 110,700 acre-ft (136 hm³) of which 108,700 acre-ft (134 hm³) is controlled storage above elevation 1,300.0 ft or 396.24 m (conservation pool). Dead storage is 2,000 acre-ft (2.47 hm³). Reservoir is used for flood control and recreation. Figures given herein represent total contents. Flow regulated by three gates and low flow by-pass system. Records furnished by Corps of Engineers.
EXTREMES FOR PERIOD OF RECORD: Maximum contents, 42,600 acre-ft (52.5 hm³) June 26, 1972 (elevation, 1,398.20 ft or 426.171 m); minimum (after establishment of conservation pool), 1,400 acre-ft (1.73 hm³) Apr. 5, 1976 (elevation, 1,293.75 ft or 394.335 m).
EXTREMES FOR CURRENT YEAR: Maximum contents, 26,360 acre-ft (32.5 hm³) Jan. 29 (elevation, 1,377.80 ft or 419.953 m); minimum, 1,400 acre-ft (1.73 hm³) Apr. 5 (elevation, 1,293.75 ft or 394.335 m).
- 01449400 PENN FOREST RESERVOIR.--Lat 40°55'45", long 75°33'45", Carbon County, Hydrologic Unit 02040106, at dam on Wild Creek near Hatchery, Pa., 0.7 mi (1.1 km) upstream from Hatchery, 2.6 mi (4.2 km) upstream from Wild Creek Dam, 4.4 mi (7.1 km) upstream from mouth, and 10 mi (16 km) northeast of Palmerton. DRAINAGE AREA 16.5 mi² (42.7 km²). PERIOD OF RECORD, October 1958 to current year. GAGE, water-stage recorder. Datum of gage is at mean sea level (levels by city of Bethlehem).
Reservoir formed by an earthfill dam, with ungated concrete spillway at elevation, 1,000.00 ft (304.800 m). Storage began in October 1958. Capacity at elevation 1,000.00 ft (304.800 m) is 19,980 acre-ft (24.6 hm³). Reservoir is used for municipal water supply. Figures given herein represent total contents. Regulation is done by valves on pipe through dam. Records furnished by city of Bethlehem. Figures given herein include diversion, since October 1969, from Tunkhannock Creek basin into Wild Creek basin (see p.61).
EXTREMES FOR PERIOD OF RECORD: Maximum contents, 20,510 acre-ft (25.3 hm³) Jan. 28, 1976 (elevation, 1,000.91 ft or 305.077 m); minimum, 176 acre-ft (0.217 hm³) Oct. 6, 1965 (elevation, 902.40 ft or 275.052 m).
EXTREMES FOR CURRENT YEAR: Maximum contents, 20,510 acre-ft (25.3 hm³) Jan. 28 (elevation, 1,000.91 ft or 305.077 m); minimum, 17,980 acre-ft (22.2 hm³) Sept. 30 (elevation, 995.56 ft or 303.447 m).

Lakes and reservoirs in Delaware River basin--Continued

- 01449700 WILD CREEK RESERVOIR.--Lat 40°53'50", long 75°33'50", Carbon County, Hydrologic Unit 02040106, at dam on Wild Creek near Hatchery, Pa., 1.6 mi (2.6 km) upstream from mouth, 2.4 mi (3.9 km) south of Hatchery, and 7.5 mi (12 km) northeast of Palmerton. DRAINAGE AREA, 22.2 mi² (57.5 km²). PERIOD OF RECORD, January 1941 to current year. NONRECORDING GAGE. Datum of gage is at mean sea level (levels by city of Bethlehem). Reservoir formed by earthfill dam, with concrete ungated spillway at elevation, 820.00 ft (249.936 m). Storage began January 27, 1941; water in reservoir first reached minimum pool elevation in February 1941. Total capacity at elevation 820.00 ft (249.936 m) is 12,500 acre-ft (15.4 hm³) of which 12,000 acre-ft (15 hm³) is controlled storage. Reservoir is used for municipal water supply. Figures given herein represent usable contents. Regulation is accomplished by valves on pipe through dam. Records furnished by city of Bethlehem. Since October 1969 the basin upstream has received diversion from Tunkhannock Creek basin (see p. 61).
EXTREMES FOR PERIOD OF RECORD: Maximum contents, 12,880 acre-ft (15.9 hm³) May 23, 1942 (elevation, 822.93 ft or 250.829 m); minimum (after first filling), 2,680 acre-ft (3.30 hm³) Nov. 15, 1966 (elevation, 774.10 ft or 235.946 m).
EXTREMES FOR CURRENT YEAR: Maximum contents, 12,280 acre-ft (15.1 hm³) Jan. 29 (elevation, 820.93 ft or 250.219 m); minimum, 11,690 acre-ft (14.4 hm³) Jan. 26 (elevation, 818.57 ft or 249.500 m).
- 01449790 BELTZVILLE LAKE.--Lat 40°50'56", long 75°38'19", Carbon County, Hydrologic Unit 02040106, at dam on Pohopoco Creek, 0.45 mi (0.72 km) upstream from gaging station on Pohopoco Creek, 0.55 mi (0.88 km) upstream from Sawmill Run and 2.3 mi (3.7 km) northeast of Parryville. DRAINAGE AREA, 96.3 mi² (249.4 km²). PERIOD OF RECORD, February 1971 to current year. GAGE, water-stage recorder. Datum of gage is at mean sea level (levels by Corps of Engineers). Reservoir formed by an earth and rockfill dam with ungated, partially lined spillway at elevation, 651.00 ft (198.425 m). Storage began Feb. 8, 1971. Capacity at elevation 651.00 ft (198.425 m) is 68,300 acre-ft (84.2 hm³). Ordinary minimum (conservation) pool elevation, 628.00 ft or 191.414 m (capacity, 41,250 acre-ft or 50.9 hm³). Dead storage is 1,390 acre-ft (1.71 hm³). Reservoir is used for recreation, flood control, low-flow augmentation and water supply. Figures given herein represent total contents. Regulation is accomplished by a multi-level water-quality outlet system and two flood-control gates. Records furnished by Corps of Engineers.
EXTREMES FOR PERIOD OF RECORD: Maximum contents, 49,730 acre-ft (61.3 hm³) Jan. 29, 1976 (elevation, 636.30 ft or 193.944 m); minimum, 136 acre-ft (0.168 hm³) Feb. 8, 1971 (elevation, 516.20 ft or 157.338 m).
EXTREMES FOR CURRENT YEAR: Maximum contents, 49,730 acre-ft (61.3 hm³) Jan. 29 (elevation, 636.30 ft or 193.944 m); minimum, 39,440 acre-ft (48.6 hm³) Feb. 11 (elevation, 626.10 ft or 190.835 m).
- 01469200 STILL CREEK RESERVOIR.--Lat 40°51'25", long 75°59'30", Schuylkill County, Hydrologic Unit 02040203, at dam on Still Creek, 1 mi (1.6 km) upstream from mouth and 2.3 mi (3.7 km) north of Hometown, Pa. DRAINAGE AREA, 8.5 mi² (22.0 km²) PERIOD OF RECORD, January 1933 to current year. NONRECORDING GAGE, Datum of gage is at mean sea level (levels by Panther Valley Water Co.). Reservoir formed by earthfill dam, with ungated concrete spillway at elevation 1,182.00 ft (360.274 m). Storage began in February 1933. Capacity at elevation 1,182.00 ft (360.274 m) is 8,290 acre-ft (10.2 hm³). Reservoir is used for municipal water supply. Figures given herein represent total contents. Regulation is accomplished by valves on pipe through dam. Records furnished by Panther Valley Water Co.
EXTREMES FOR PERIOD OF RECORD: Maximum contents, 8,570 acre-ft (10.6 hm³) Oct. 15, 1955 (elevation, 1,182.92 ft or 360.554 m), but may have been greater during 1950 and 1951 water years; minimum (after first filling), 588 acre-ft (0.725 hm³) Dec. 8, 1944 (elevation, 1,136.70 ft or 346.466 m).
EXTREMES FOR CURRENT YEAR: Maximum contents, 8,440 acre-ft (10.4 hm³) Jan. 28 (elevation, 1,182.50 ft or 360.426 m); minimum, 8,020 acre-ft (9.89 hm³) Aug. 31 (elevation, 1,181.08 ft or 359.993 m).
- 01472200 GREEN LANE RESERVOIR.--Lat 40°20'30", long 75°28'45", Montgomery County, Hydrologic Unit 02040203, at dam on Perkiomen Creek at Green Lane, Pa., 0.4 mi (0.6 km) west of Green Lane and 2.1 mi (3.4 km) upstream from Unami Creek. DRAINAGE AREA, 70.9 mi² (183.6 km²). PERIOD OF RECORD, December 1956 to current year. GAGE, water-stage recorder. Datum of gage is at mean sea level (levels by Philadelphia Suburban Water Co.). Reservoir formed by concrete, gravity-type dam, with ungated spillway at elevation 286.00 ft (87.173 m). Storage began December 21, 1956. Capacity at spillway level (elevation 286.00 ft or 87.173 m), 13,430 acre-ft (16.6 hm³). Reservoir is used for municipal water supply. Figures given herein represent total contents. Regulation is accomplished by valves on pipe through dam. Records furnished by Philadelphia Suburban Water Co.
EXTREMES FOR PERIOD OF RECORD: Maximum contents, 17,030 acre-ft (21.0 hm³) June 23, 1972 (elevation, 290.05 ft or 88.407 m); minimum (after first filling), 1,270 acre-ft (1.57 hm³) Aug. 25, 1957 (elevation, 251.60 ft or 76.688 m).
EXTREMES FOR CURRENT YEAR: Maximum contents, 14,340 acre-ft (17.7 hm³) Jan. 26 (elevation, 287.02 ft or 87.484 m); minimum, 11,970 acre-ft (14.8 hm³) Sept. 25 (elevation, 284.29 ft or 86.652 m).
- 01480684 MARSH CREEK RESERVOIR.--Lat 40°03'24", long 75°43'06", Chester County, Hydrologic Unit 02040205, on right bank at dam on Marsh Creek, 0.3 mi (0.5 km) upstream from mouth and 3.2 mi (5.1 km) north of Downingtown. DRAINAGE AREA, 20.1 mi² (52.1 km²). PERIOD OF RECORD, November 1973 to current year. GAGE, water-stage recorder. Datum of gage is at mean sea level (levels by Pennsylvania Department of Environmental Resources). Reservoir formed by earthfill dam with concrete spillway at elevation 359.5 ft (109.58 m). Storage began November 1973. Total capacity 22,190 acre-ft (27.4 hm³) at elevation 373 ft (113.69 m). Reservoir is used for water supply, flood control and recreation. Figures given herein represent contents above lowest gate sill at elevation 289.5 ft (88.240 m). Records furnished by Pennsylvania Department of Environmental Resources.
EXTREMES FOR PERIOD OF RECORD: Maximum contents, 15,480 acre-ft (19.1 hm³) Mar. 21, 1975 (elevation, 361.85 ft or 110.292 m), minimum, (after first filling), 10,410 acre-ft (12.8 hm³) Mar. 3, 1976 (elevation, 351.75 ft or 107.213 m).
EXTREMES FOR CURRENT YEAR: Maximum contents, 15,040 acre-ft (18.5 hm³) Oct. 20 (elevation, 361.05 ft or 110.048 m); minimum, 10,410 acre-ft (12.8 hm³) Mar. 3 (elevation, 351.75 ft or 107.213 m).

DELAWARE RIVER BASIN

Lakes and reservoirs in Delaware River basin--Continued

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

Date	Elevation (feet)	Contents (acre- feet)	Change in contents (equivalent in cfs)	Elevation (feet)	Contents (acre- feet)	Change in contents (equivalent in cfs)
<hr/>						
	01428900	PROMPTON LAKE		01429400	GENERAL EDGAR JADWIN RESERVOIR	
Sept. 30	1,126.55	3,850	-	976.84	0	-
Oct. 31	1,125.60	3,590	-4.2	976.53	0	0
Nov. 30	1,126.00	3,700	+1.8	977.24	0	0
Dec. 31	1,125.60	3,590	-1.8	976.91	0	0
CAL YR 1975	-	-	0	-	-	0
Jan. 31	1,130.10	4,970	+22.4	978.81	16	+3
Feb. 29	1,128.30	4,400	-9.9	978.97	19	+1
Mar. 31	1,126.00	3,700	-11.4	976.72	0	-3
Apr. 30	1,125.90	3,670	-5	976.55	0	0
May 31	1,125.70	3,620	-8	976.22	0	0
June 30	1,126.00	3,700	+1.3	980.60	68	+1.1
July 31	1,126.10	3,730	+5	976.38	0	-1.1
Aug. 31	1,125.30	3,500	-3.7	975.63	0	0
Sept. 30	1,126.10	3,730	+3.9	975.33	0	0
WTR YR 1976	-	-	-2	-	-	0
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	01431700	LAKE WALLENPAUPACK		01447780	FRANCIS E. WALTER LAKE	
Sept. 30	1,180.50	104,300	-	1,301.40	2,140	-
Oct. 31	1,181.90	111,950	+124	1,300.81	2,080	-1.0
Nov. 30	1,182.90	117,450	+92.4	1,299.70	1,970	-1.8
Dec. 31	1,181.10	107,550	-161	1,300.13	2,010	+7
CAL YR 1975	-	-	-14.4	-	-	-1
Jan. 31	1,180.20	102,680	-79.2	1,353.70	13,460	+186
Feb. 29	1,180.30	103,220	+9.4	1,304.21	2,420	-192
Mar. 31	1,178.70	94,580	-141	1,298.70	1,860	-9.1
Apr. 30	1,182.40	114,700	+338	1,300.41	2,040	+3.0
May 31	1,185.50	132,000	+281	1,300.28	2,030	-2
June 30	1,186.00	134,800	+47.1	1,309.05	2,970	+15.8
July 31	1,182.90	117,450	-282	1,302.15	2,220	-12.2
Aug. 31	1,180.60	104,840	-205	1,301.74	2,170	-8
Sept. 30	1,178.50	93,500	-191	1,301.62	2,160	-2
WTR YR 1976	-	-	-14.9	-	-	0
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	01449400	PENN FOREST RESERVOIR		01449700	WILD CREEK RESERVOIR	
Sept. 30	999.79	19,880	-	819.03	11,810	-
Oct. 31	1,000.13	20,050	+2.8	820.21	12,060	+4.1
Nov. 30	1,000.11	20,040	-2	820.21	12,060	0
Dec. 31	1,000.22	20,110	+1.1	820.19	12,060	0
CAL YR 1975	-	-	+3	-	-	+7
Jan. 31	1,000.49	20,260	+2.4	820.58	12,170	+1.8
Feb. 29	1,000.29	20,150	-1.9	820.11	12,030	-2.4
Mar. 31	1,000.19	20,090	-1.0	820.15	12,040	+2
Apr. 30	1,000.08	20,020	-1.2	820.00	12,000	-7
May 31	1,000.10	20,040	+3	820.18	12,050	+8
June 30	1,000.05	20,010	-5	819.20	11,840	-3.5
July 31	999.12	19,580	-7.0	819.22	11,840	0
Aug. 31	997.68	18,930	-10.6	819.34	11,870	+5
Sept. 30	995.56	17,980	-16.0	819.21	11,840	-5
WTR YR 1976	-	-	-2.7	-	-	0

DELAWARE RIVER BASIN

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Lakes and reservoirs in Delaware River basin--Continued

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

Date	Elevation (feet)	Contents (acre- feet)	Change in contents (equivalent in cfs)	Elevation (feet)	Contents (acre- feet)	Change in contents (equivalent in cfs)
01449790 BELTZVILLE LAKE			01469200 STILL CREEK RESERVOIR			
Sept. 30	627.90	41,160	-	1,182.25	8,360	-
Oct. 31	627.40	40,680	-7.8	1,182.04	8,300	-1.0
Nov. 30	627.90	41,160	+8.1	1,182.06	8,300	0
Dec. 31	628.60	41,820	+10.7	1,182.08	8,310	++2
CAL YR 1975	-	-	+8	-	-	0
Jan. 31	635.80	49,180	+120	1,182.12	8,320	+2
Feb. 29	627.80	41,060	-141	1,182.08	8,310	-2
Mar. 31	627.80	41,060	0	1,182.08	8,310	0
Apr. 30	627.60	40,870	-3.2	1,182.08	8,310	0
May 31	627.50	40,780	-1.5	1,182.04	8,300	-2
June 30	628.38	41,610	+13.9	1,182.04	8,300	0
July 31	627.95	41,200	-6.7	1,182.04	8,300	0
Aug. 31	628.20	41,440	+3.9	1,181.08	8,020	-4.6
Sept. 30	628.25	41,490	+8	1,182.33	8,390	+6.2
WTR YR 1976	-	-	+5	-	-	0
01472200 GREEN LANE RESERVOIR			01480684 MARSH CREEK RESERVOIR			
Sept. 30	286.04	13,470	-	360.56	14,770	-
Oct. 31	286.02	13,450	-0.3	360.21	14,580	-3.1
Nov. 30	286.07	13,490	+7	360.15	14,540	-7
Dec. 31	286.49	13,870	+6.2	357.89	13,360	-19.2
CAL YR 1975	-	-	+5	-	-	-1.6
Jan. 31	286.10	13,520	-5.7	353.80	11,340	-32.8
Feb. 29	286.04	13,470	-9	351.92	10,490	-14.8
Mar. 31	286.79	14,130	+10.7	353.73	11,300	+13.2
Apr. 30	285.95	13,390	-12.4	356.51	12,660	+22.9
May 31	285.97	13,410	+3	357.45	13,140	+7.8
June 30	285.97	13,410	0	358.92	13,870	+12.3
July 31	285.22	12,740	-10.9	360.01	14,470	+9.8
Aug. 31	285.26	12,770	+5	360.00	14,460	-2
Sept. 30	284.54	12,170	-10.1	359.95	14,430	-5
WTR YR 1976	-	-	-1.8	-	-	-5

DISCHARGE AT PARTIAL-RECORD STATIONS AND MISCELLANEOUS SITES

As the number of streams on which streamflow information is likely to be desired far exceeds the number of stream-gaging stations feasible to operate at one time, the Geological Survey collects limited streamflow data at sites other than stream-gaging stations. When limited streamflow data are collected on a systematic basis over a period of years for use in hydrologic analyses, the site at which the data are collected is called a partial-record station. Data collected at these partial-record stations are usable in low-flow or floodflow analyses, depending on the type of data collected. In addition, discharge measurements are made at other sites not included in the partial-record program. These measurements are generally made in times of drought or flood to give better areal coverage to those events. Those measurements and others collected for some special reason are called measurements at miscellaneous sites.

Records collected at partial-record stations are presented in two tables. The first is a table of discharge measurements at low-flow partial-record stations, and the second is a table of annual maximum stage and discharge at crest-stage stations. Discharge measurements made at miscellaneous sites for both low flow and high flow are given in a third table.

Low-flow partial-record stations

Measurements of streamflow in the area covered by this report made at low-flow partial-record stations are given in the following table. 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 the stream. The column headed "Period of record" shows the water years in which measurements were made at the same, or practically the same, site.

Discharge measurements made at low-flow partial-record stations during water year 1976

Station No.	Station name	Location	Drainage area (sq mi)	Period of record	Measurements	
					Date	Discharge (cfs)
Delaware River basin						
*01427950	West Branch Lackawaxen River near Aldenville, Pa.	Lat 41°40'28", long 75°22'35", Wayne County, at bridge on State Highway 247, 0.3 mile downstream from Johnsons Creek and 2 miles northwest of Aldenville. Datum of gage is 1,244.60 ft above mean sea level.	40.6	1975-76	11-4 -75 4-21-76	44 28
*01429300	Dyberry Creek above reservoir near Honesdale, Pa.	Lat 41°39'26", long 75°17'12", Wayne County, on right bank, 955 ft downstream from bridge on West Branch Dyberry Creek at Tanners Falls, 0.2 mile downstream from confluence of east and west branches of Dyberry Creek, and 6 miles north of Dyberry. Datum of gage is 1,023.43 ft above mean sea level.	45.8	1975-76	11- 4-75 4-21-76	49 34
01439400	Toms Creek at Egypt Mills near Bushkill, Pa.	Lat 41°07'29", long 74°57'14", Pike County, at bridge on U.S. Highway 209 at Egypt, 0.3 mile upstream from mouth and 3 miles northwest of Bushkill.	3.34	1970-76	10- 9-75 4-14-76	3.7 11
01440250	Shawnee Creek at Shawnee on Delaware, Pa.	Lat 41°00'42", long 75°06'40", Monroe County, at bridge on State Highway 945, in village of Shawnee on Delaware, 0.6 mile upstream from mouth and 3 miles east of East Stroudsburg.	4.58	1970-76	10- 9-75 4-14-76	4.5 6.1
01440500	Paradise Creek Henryville, Pa.	Lat 41°06'00", long 75°15'05", Monroe County, at bridge on State Highway 191, 200 ft upstream from Cranberry Creek, and 0.5 mile northwest of Henryville.	30.2	1970-76	10- 7-75 4-16-76	41 53
*01440900	McMichaels Creek near Stroudsburg, Pa.	Lat 40°58'04", long 75°13'08", Monroe County, at bridge on Dreher Avenue, 2 miles southwest of Stroudsburg and 3.2 miles upstream from mouth.	63.9	1975-76	10- 7-75 4-16-76	102 111
01441500	Pocono Creek near Stroudsburg, Pa.	Lat 40°59'10", long 75°13'35", Monroe County, at bridge on Bridge Street. 1.3 miles west of Stroudsburg.	41.0	1911-19/ 1970-76	10- 7-75 4-16-76	50 61

* Also a crest-stage partial-record station.

/ Operated as a continuous-record gaging station.

DELAWARE RIVER BASIN

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DISCHARGE AT PARTIAL-RECORD STATIONS AND MISCELLANEOUS SITES

Discharge measurements made at low-flow partial-record stations during water year 1976--Continued

Station No.	Station name	Location	Drainage area of (sq mi)	Period of record	Measurements	
					Date	Discharge (cfs)
Delaware River basin--Continued						
01443100	Jacoby Creek at Portland, Pa.	Lat 40°55'00", long 75°06'19", Northampton County, at county highway bridge, 0.6 mile southwest of Portland and 0.7 mile upstream from mouth.	6.17	1970-76	10- 9-75 4-14-76	10 13
01446650	Martins Creek below Little Martins Creek at Martins Creek Pa.	Lat 40°47'02", long 75°11'08", Northampton County, at bridge on U.S. Highway 611 in village of Martins Creek and 0.9 mile upstream from mouth.	43.4	1932 1970-76	10- 9-75 4-14-76	60 67
01446900	Bushkill Creek near Easton, Pa.	Lat 40°42'38", long 75°14'46", Northampton County, at bridge just west of Bushkill Drive at Coilton, 0.8 mile downstream from Schoeneck Creek and 2 miles north of Easton.	72.0	1970-76	10- 7-75 4-16-76	120 100
01448100	Sandy Run near White Haven, Pa.	Lat 41°00'31, long 75°46'08", Luzerne County, at bridge on L.R. 40118, 800 ft upstream from Pond Creek and 3.8 miles south of White Haven.	10.9	1970-76	11- 4-75 4-19-76	18 14
01449355	Middle Creek at Kresgeville, Pa.	Lat 40°54'03", long 75°29'50", Monroe County, at bridge on U.S. Highway 209, at Kresgeville, 0.5 mile downstream from Dotters Creek and 0.5 mile upstream from mouth.	18.6	1970-76	10- 8-75 4-16-76	28 34
*01450455	Buckwha Creek at Little Gap, Pa.	Lat 40°49'21", long 75°32'04", Carbon County, at bridge on L.R. 13035, 0.35 mile upstream from mouth and 0.75 mile south of Little Gap.	42.5	1975-76	10- 6-75 10- 8-75 4-15-76	64 51 51
01451110	Hockendauqua Creek near Northampton, Pa.	Lat 40°42'50", long 75°29'45", Northampton County, at bridge on county road, 1.7 miles north of Northampton and 3.3 miles upstream from mouth.	38.1	1970-76	10- 6-75 4-15-76	47 42
01451165	Catasauqua Creek at Catasauqua, Pa.	Lat 40°38'52", long 75°28'06", Lehigh County, at bridge on North Dauphin Street, Catasauqua, 0.1 mile upstream from mouth.	15.7	1970-76	10- 6-75 4-15-76	16 13
01457790	Cooks Creek at Durham Furnace, Pa.	Lat 40°34'56", long 75°12'20", Bucks County, on east side of Red Brick Road, 0.1 mile north of State Highway 212, 0.5 mile upstream from mouth and Durham Furnace.	29.4	1934 1944 1949-50 1970-76	4-21-76	28
*01458900	Tinicum Creek near Ottsville, Pa.	Lat 40°28'14", long 75°08'13", Bucks County, at concrete bridge on gravel road, 0.9 mile below confluence of Rapp Creek and Beaver Creek, 1.5 miles east of Ottsville and 5.3 miles above mouth.	14.7	1971-76	10- 9-75 4-14-76	1.7 4.9
01459150	Tohickon Creek near Quakertown, Pa.	Lat 40°26'26", long 76°18'42", Bucks County, 1,000 ft downstream from highway bridge and mouth of Morgan Creek and 1 mile east of Quakertown.	27.5	1970-76	4-21-76	6.9
01462300	Jericho Creek at Washington Crossing, Pa.	Lat 40°18'40", long 74°54'23", Bucks County, at bridge on State Highway 32, 0.3 mile upstream from mouth and 2.5 miles northwest of Washington Crossing.	9.52	1971-76	10- 9-75 4-14-76 4-21-76	3.2 4.3 3.1
*01467500	Schuylkill River at Pottsville, Pa.	Lat 40°40'53", long 76°11'25", Schuylkill County, at bridge on State Highway 61 at Pottsville and 1.7 miles downstream from Mill Creek.	53.4	1975-76	4-19-76 4-29-76	73 81

*Also a crest-stage partial-record station.

DELAWARE RIVER BASIN

DISCHARGE AT PARTIAL-RECORD STATIONS AND MISCELLANEOUS SITES

Discharge measurements made at low-flow partial-record stations during water year 1976--Continued

Station No.	Station name	Location	Drainage area (sq mi)	Period of record	Measurements	
					Date	Discharge (cfs)
Delaware River basin--Continued						
*01467948	West Branch Schuylkill River near Cressona, Pa.	Lat 40°38'30", long 76°11'43", Schuylkill County, at bridge on Gordon-Nagle Trail, 0.75 mile upstream from Panther Creek and 1 mile north at Cressona.	52.5	1975-76	4-19-76 4-29-76	77 53
*01470190	Little Schuylkill River at Port Clinton, Pa.	Lat 40°35'24", long 76°01'43", Schuylkill County, 0.65 mile upstream from Rattling Run and 0.7 mile north of Port Clinton.	132	1975-76	4-19-76 4-29-76	176 134
*01470748	Sacony Creek near Virginville, Pa.	Lat 40°31'27", long 75°51'29", Berks County, at bridge on L.R. 06135, 1 mile upstream from mouth and 1 mile east of Virginville.	54.1	1975-76	4-19-76 4-28-76	48 41
01470758	Moselem Creek near Shoemakersville, Pa.	Lat 40°30'10", long 75°52'47", Berks County, at bridge on county road, 0.4 mile upstream from mouth, 2.8 miles west of Moselem Springs and 5 miles east of Shoemakersville.	13.5	1970-76	10- 6-75 4-15-76	32 22
*01470810	Northkill Creek at Bernville, Pa.	Lat 40°26'22", long 76°07'12", Berks County, at bridge on State Highway 183, 0.3 mile upstream from Little Northkill Creek and 0.7 mile north-west of Bernville.	18.8	1975-76	4-20-76 4-30-76	12 9.5
*01470818	Little Northkill Creek near Bernville, Pa.	Lat 40°26'33", long 76°08'23", Berks County, at bridge on L.R. 06013, 1.5 miles west of Bernville and 1.6 miles upstream from mouth.	21.2	1975-76	4-20-76 4-30-76	12 8.6
*01470825	Northkill Creek at Bernville, Pa.	Lat 40°25'42", long 76°06'52", Berks County, at bridge on L.R. 06047, at Bernville, 0.25 mile upstream from mouth and 0.55 mile downstream from Little Northkill Creek.	42.0	1975-76	4-20-76 4-29-76	29 21
*01471800	Pine Creek near Manatawny, Pa.	Lat 40°24'43", long 75°44'02", Berks County, at steel bridge on macadam road, Lobachsville, 0.5 mile upstream from mouth, 0.5 mile below West Branch Pine Creek and 2 miles north of Manatawny.	15.6	1970-76	4-21-76	12
*01475850	Crum Creek near Newtown Square, Pa.	Lat 39°58'35", long 75°26'13", Delaware County, at Castle Rock Bridge on State Highway 3, 0.6 mile upstream from Preston Run, 0.8 mile upstream from Geist Reservoir and 2 miles west of Newtown Square.	15.8	1932 1949 1970-76	4-20-76	18
01478150	East Branch White Clay Creek at Landenberg, Pa.	Lat 30°46'40", long 75°46'18", Chester County, at county highway bridge at Landenberg, 1.4 miles downstream from Egypt River and 4 miles southeast of West Grove.	25.6	1970-76	4-20-76	32
01479700	West Branch Red Clay Creek near Kennett Square, Pa.	Lat 39°48'39", long 75°42'19", Chester County, at county highway bridge on Kaolin Road, 1 mile upstream from East Branch Red Clay Creek, 1.4 miles east of Kaolin and 2.5 miles south of Kennett Square.	17.0	1970-76	4-20-76	23

* Also a crest-stage partial-record station.

DELAWARE RIVER BASIN

DISCHARGE AT PARTIAL-RECORD STATIONS AND MISCELLANEOUS SITES

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Crest-stage partial-record stations

The following table contains annual maximum discharges for crest-stage stations. A crest-stage gage is a device which will register the peak stage occurring between inspections of the gage. A stage-discharge relation for each gage is developed from discharge measurements made by indirect measurements of peak flow or by current meter. The date of the maximum discharge is not always certain but is usually determined by comparison with nearby continuous-record stations, weather records, or local inquiry. Only the maximum discharge for each water year is given. Information on some lower floods may have been obtained but is not published herein. The years given in the period of record represent water years for which the annual maximum has been determined.

Annual maximum discharge at crest-stage partial-record stations

Station No.	Station name	Location	Drainage area (mi ²)	Period of record	Date	Annual maximum Gage height (feet)	Dis-charge (ft ³ /s)
Delaware River basin							
01427650	N.B. Calkins Creek near Damascus, Pa.	Lat 41°42'00", long 75°10'00", at concrete bridge on State Highway 371 at West Damascus, 4.0 miles west of Damascus, 4.8 miles above Sunny Brook, and 8.0 miles above mouth.	7.02	1962-64 1965-73 [#] 1974-76	1-27-76	8.12	782
*01427950	W.B. Lackawaxen River near Aldenville, Pa.	Lat 41°40'28", long 75°22'35" Wayne County, at bridge on State Highway 247, 0.3 mile downstream from Johnsons Creek and 2.0 miles northwest of Aldenville. Datum of gage is 1,244.60 ft above mean sea level.	40.6	1975-76	10-18-75	6.26	2,210
*01429300	Dyberry Creek above Reservoir near Honesdale, Pa.	Lat 41°39'26", long 75°17'12", Wayne County, on right bank, 955 ft downstream from bridge on West Branch Dyberry Creek at Tanners Falls, 0.2 mile downstream from confluence of the east and west branches of Dyberry Creek, and 6 miles north of Dyberry. Datum of gage is 1,023.43 ft above mean sea level.	45.8	1975-76	10-17-75	9.68	1,710
01430000	Lackawaxen River near Honesdale, Pa.	Lat 41°33'43", long 75°14'54", at Lemnitzer Bridge in Honesdale, Wayne County, on U.S. Highway 6, and 1.2 miles downstream from Dyberry Creek.	164	1949-69 [#] 1974-76	10-19-75	6.11	4,360
01431000	Middle Creek near Hawley, Pa.	Lat 41°29'05", long 75°13'20", Wayne County, at bridge on L.R. 63022, 0.1 mile below Red Shale Brook, 2 miles northwest of Hawley, and 2.5 miles above mouth.	78.4	1945-60 [#] 1961-76	10-19-75	5.41	1,680
01431680	Mill Brook near Paupack, Pa.	Lat 41°23'15", long 75°14'20", Pike County, at culvert on State Highway 507, 400 ft above mouth, 1.8 miles south of Paupack. Datum of gage is 1,183.84 ft above mean sea level.	4.84	1960-76	4-26-76	5.74	222
01438300	Vandermark Creek at Milford, Pa.	Lat 41°19'35", long 74°47'50", Pike County, at stone bridge on Broad Street in Milford, and 0.4 mile above mouth. Datum of gage is 490.50 ft above mean sea level.	5.36	1962-76	6-30-76	3.2	210
01440300	Mill Creek at Mountainhome, Pa.	Lat 41°09'50", long 75°16'00", Monroe County, at stone-arch bridge on macadam road 0.5 mile east of Mountainhome, and 1.5 miles above mouth.	5.84	1961-76	1-27-76	7.82	388

[#] Operated as a continuous-record station.

* Also low-flow partial-record station.

DELAWARE RIVER BASIN

DISCHARGE AT PARTIAL-RECORD STATIONS AND MISCELLANEOUS SITES

Annual maximum discharge at crest-stage partial-record stations--continued

Station No.	Station name	Location	Drainage area (mi ²)	Period of record	Annual maximum		
					Date	Gage height (feet)	Dis-charge (ft ³ /s)
Delaware River basin--Continued							
*01440900	McMichael Creek near Stroudsburg, Pa.	Lat 40°58'04", long 75°13'08", Monroe County, at bridge on Dreher Ave. two miles southwest of Stroudsburg, 3.2 miles upstream from mouth of Brodhead Creek.	63.9	1975-76	1-28-76	8.00	3,720
*01450455	Buckwha Creek at Little Gap, Pa.	Lat 40°49'21", long 75°32'04", Carbon County, at bridge on L.R. 13035, 0.35 mile upstream from mouth and 0.75 mile south of Little Gap.	42.5	1975-76	2-24-75 1-27-76	7.84 8.52	2,160 2,880
01452300	East Branch Monocacy Creek near Bath, Pa.	Lat 40°43'10", long 75°22'10", Northampton County, on left bank 25 ft downstream from bridge on L.R. 40863, 1.5 miles southeast of Bath, and 2.5 miles upstream from mouth. Datum of gage is 372.06 ft above mean sea level.	5.35	1962-68# 1969-76	1-26-76	5.97	585
01454600	Polk Valley Run at Hellertown, Pa.	Lat 40°34'05", long 75°19'45", Northampton County, at concrete bridge on L.R. 48093, 0.7 mile above mouth, and 1.5 miles south-east of Hellertown.	2.14	1963-76	11-13-75	3.54	64
*01458900	Tinicum Creek near Ottsville, Pa.	Lat 40°28'14", long 75°08'13", Bucks County, at concrete bridge on gravel road, 0.9 mile below confluence of Rapp Creek, 1.5 miles east of Ottsville, and 5.3 miles above mouth.	14.7	1962-76	5- 2-76	7.28	4,180
01465780	Poquessing Creek above Byberry Creek at Philadelphia, Pa.	Lat 40°14'10", long 74°58'33", Philadelphia County, on left bank 2,200 ft upstream from Byberry Creek, Philadelphia. Datum of gage is 17.26 ft above mean sea level.	13.2	1965-70# 1971-76	1-27-76	7.41	1,610
01465795	Byberry Creek at Grant Avenue Philadelphia, Pa.	Lat 40°03'45", long 74°59'47", Philadelphia County, on left bank 120 ft upstream from Grant Avenue Bridge, 1,300 ft west of Frankford Avenue, Philadelphia. Datum of gage is 26.17 ft above mean sea level.	7.13	1964-70# 1971-76	1-27-76	.93	/
01467043	Stream "A" at Philadelphia, Pa.	Lat 40°05'27", long 75°03'50", Philadelphia County, at concrete box culvert on Bloomfield Avenue in Philadelphia, Pa.	1.20	1965-76	1-27-76	13.30	180
01467045	Pennypack Creek below Verree Road, Philadelphia, Pa.	Lat 40°05'04", long 75°03'34", Philadelphia County, on left bank 600 ft downstream from Verree Road and 1 mile downstream from Rockledge Branch, Philadelphia. Datum of gage is 67.26 ft above mean sea level.	42.8	1964-70# 1971-76	5- 1-76	8.70	1,610
*01467500	Schuylkill River at Pottsville, Pa.	Lat 40°40'53", long 76°11'25", Schuylkill County, at bridge on State Highway 61 at Pottsville, and 1.7 miles downstream from Mill Creek.	53.4	1975-76	1-26-76	6.32	1,290

/ Not determined.

Operated as a continuous-record station.

* Also low-flow partial-record station.

DELAWARE RIVER BASIN

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DISCHARGE AT PARTIAL-RECORD STATIONS AND MISCELLANEOUS SITES

Annual maximum discharge at crest-stage partial-record stations--continued

Station No.	Station name	Location	Drainage area (mi ²)	Period of record	Date	Annual maximum Gage height (feet)	Discharge (ft ³ /s)
Delaware River basin--Continued							
*01467948	West Branch Schuylkill River near Cressona, Pa.	Lat 40°38'30", long 76°11'43", Schuylkill County, at bridge on Gordon-Nagle Trail, 0.75 mile upstream from Panther Creek, and 1.0 mile north of Cressona.	52.5	1975-76	1-26-76	4.94	1,020
*01470190	Little Schuylkill River at Port Clinton, Pa.	Lat 40°35'24", long 76°01'43", Schuylkill County, 0.65 mile upstream from Rattling Run and 0.7 mile north of Port Clinton.	132	1975-76	1-26-76	9.22	7,320
*01470748	Saony Creek near Virginville, Pa.	Lat 40°31'27", long 75°51'29", Berks County, at bridge on L.R. 06135, 1.0 mile upstream from mouth, and 1.0 mile east of Virginville.	54.1	1975-76	1-26-76	9.08	2,590
*01470810	Northkill Creek at Bernville, Pa.	Lat 40°26'22", long 76°07'12", Berks County, at bridge on State Highway 183, 0.3 mile upstream from Little Northkill Creek and 0.7 mile northwest of Bernville.	18.8	1975-76	1-26-76	c9.12	f2,400
*01470818	Little Northkill Creek near Bernville, Pa.	Lat 40°26'33", long 76°07'23", Berks County, at bridge on L.R. 06013, 1.5 miles west of Bernville and 1.6 miles upstream from mouth.	21.2	1975-76	1-26-76	7.25	2,130
*01470825	Northkill Creek at Bernville, Pa.	Lat 40°25'42", long 76°06'52", Berks County, at bridge on L.R. 06047, 0.25 mile upstream from mouth, and 0.55 mile downstream from Little Northkill Creek.	42.0	1975-76	1-26-76	8.79	b6,600
*01471800	Pine Creek near Manatawny, Pa.	Lat 40°24'43", long 75°44'02", Berks County, at steel bridge on macadam road, 0.5 mile above mouth, 0.5 mile below West Branch Pine Creek, and 2 miles north of Manatawny.	15.6	1961-76	1-27-76	5.19	318
01472162	Schuylkill River at Phoenixville, Pa.	Lat 40°08'11", long 75°30'41", Chester County, on the downstream end of the left bank wingwall of Reading Railroad bridge across the mouth of French Creek at Phoenixville.	1,280	1971-76	2-14-71 6-23-72 6-29-73 12-21-73 9-25-75 1-27-76	88.02b37,000 100.58b96,000 88.03b37,000 85.93b29,000 84.12b21,000 89.12b42,000	
01473100	Zacharias Creek near Skippack, Pa.	Lat 40°12'26", long 75°21'57", Montgomery County, at concrete weir 1.2 miles above mouth, and 2.2 miles southeast of Skippack.	7.27	1960-76	1-27-76	6.88	666
01473470	Stony Creek at Norristown, Pa.	Lat 40°07'38", long 75°20'43", Montgomery County, on right bank at culvert on Sterger Street in Norristown, 0.1 mile downstream from dam, 0.7 mile downstream from unnamed tributary, and 1.1 miles upstream from mouth.	20.4	1975-76	1-27-76	5.35	/
01473880	Pine Run tributary at Fort Washington, Pa.	Lat 40°08'13", long 75°11'21", Montgomery County, at corrugated half-round culvert on Delaware Road in Fort Washington Industrial Park at Fort Washington, and 300 ft above mouth.	2.01	1962-76	1-27-76	4.64	b140

/ Not determined.

* Operated as a continuous-record station.

* Also low-flow partial-record station.

b Estimated.

c Flood mark

f Indirect measurement.

DELAWARE RIVER BASIN

DISCHARGE AT PARTIAL-RECORD STATIONS AND MISCELLANEOUS SITES

Annual maximum discharge at crest-stage partial-record stations--continued

Station No.	Station name	Location	Drainage area (mi ²)	Period of record	Date	Annual maximum Gage height (feet)	Dis-charge (ft ³ /s)
Delaware River basin--Continued							
01473900	Wissahickon Creek at Fort Washington, Pa.	Lat 40°07'26", long 75°13'13", Montgomery County, on concrete bridge on State Highway 73, 0.5 mile downstream from Sandy Run, and 1 mile south of Fort Washington.	40.8	1961-68 [#] 1969-76	3-20-75 1-27-76	11.98 9.70	3,410 2,270
01473980	Wissahickon Creek at Livezey Lane Philadelphia, Pa.	Lat 40°02'59", long 75°12'52", Philadelphia County, on left bank 300 ft upstream from Green Valley Boat Club, 500 ft downstream from Creshiem Creek in Philadelphia. Datum of gage is 78.55 ft above mean sea level.	59.2	1965-70 [#] 1971-76	1-27-76	4.25	2,180
01475555	Hermesprota Creek at Darby, Pa.	Lat 39°54'02", long 75°16'19", Delaware County, on right bank at culvert on Linden Avenue in Darby, 1.7 miles upstream from mouth.	1.01	1975-76	8- 9-76	4.53	/
01475560	Stony Creek at Prospect Park, Pa.	Lat 39°53'14", long 75°19'00", Delaware County, on left bank at culvert and dam on 13th Street in Prospect Park.	2.29	1975-76	11-12-75	11.41	/
01475600	Muckinipattis Creek at Glenolden, Pa.	Lat 39°53'44", long 75°17'20", Delaware County, on left bank at Glenolden Avenue in Glenolden, 1.5 miles upstream from mouth.	3.50	1975-76	5- 1-76	4.22	/
01476000	Crum Creek at Woodlyn, Pa.	Lat 39°52'44", long 75°20'58", Delaware County, on right bank at bridge on Bullens Lane in Woodlyn.	33.3	1931-37 [#] 1975-76	9-24-75 7-11-76	6.62 5.92	b1,250 920
01476435	Ridley Creek at Dutton Mill near West Chester, Pa.	Lat 39°58'52", long 75°31'02", Chester County, on left bank at Strasburg Road, 0.1 mile west of Dutton Mill and 4.9 miles east of West Chester.	9.70	1975-76	1-27-76	4.05	/
01476836	East Branch Chester Creek near West Chester Pa.	Lat 39°56'09", long 75°32'29", Chester County, at bridge on Street Road, 0.4 mile upstream from Goose Run, 1.1 miles northwest of Cheyney, and 3.8 miles east of the intersection of Pa. Route 100 and U.S. Highway 202 in West Chester.	10.8	1975-76	1-27-76	6.40	/
01476853	East Branch Chester Creek at Cheyney, Pa.	Lat 39°55'58", long 75°31'03", Delaware County, at bridge on Station Road, 0.5 mile northeast of Cheyney and 1.5 miles downstream from Goose Run.	22.8	1975-76	7-21-75 1-27-76	10.66 7.98	b1,400 660
01476950	West Branch Chester Creek near Chester Heights, Pa.	Lat 39°52'36", long 75°27'05", Delaware County, at bridge on Birney Road at Aston Mills, 1.2 miles upstream from confluence with East Branch, and 1.8 miles southeast of Chester Heights.	18.0	1975-76	7-11-76	4.59	/
01478200	Middle Branch White Clay Creek near Landenberg, Pa.	Lat 39°46'54", long 75°48'03", Chester County, at bridge on L.R. 15017, 1.4 miles above mouth, and 1.7 miles west of Landenberg.	12.7	1960-76	7-11-76	7.76	1,030
01480610	Sucker Run near Coatesville, Pa.	Lat 39°58'20", long 75°51'06", Chester County, at concrete bridge on South Park Avenue at State Highway 372, 1.6 miles above mouth, and 2 miles west of Coatesville.	2.57	1964-76	7-11-76	4.72	/

/ Not determined

[#] Operated as a continuous-record station.

b Approximately.

DELAWARE RIVER BASIN

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DISCHARGE AT PARTIAL-RECORD STATIONS AND MISCELLANEOUS SITES

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)
Delaware River basin						
Shohola Creek	Delaware River	Lat 41°27'20", long 74°55'25", Pike County, 1.4 miles above mouth and 1.4 miles south of Shohola.	83.6	1920-28# 1957 1959-67 1969-74	5-28-76 7-22-76 9- 4-76	*149 *50 28
North Branch Neshaminy Creek	Neshaminy Creek	Lat 40°18'44", long 75°12'28", Bucks County, at stone arch highway bridge 4.1 miles west of Doylestown.	-	1975	10-24-75 10-24-75	580 714
Tulpehocken Creek Tributary	Tulpehocken Creek	Lat 40°25'36", long 76°10'01", Berks County, 0.65 mi upstream from mouth and 2.3 mi northwest of Host.	-	1970-75	11-28-75 4-21-76 7- 2-76 8- 3-76 8-27-76	.61 .94 1.1 1.1 .65
Tulpehocken Creek	Schuylkill River	Lat 40°25'32", long 76°06'51", Berks County, at bridge on LR 06047, 600 ft upstream from Northkill Creek and 0.5 mi south of Bernville.	84.8	1972-75	2-10-76 4-29-76 9- 2-76	157 89 93
Pigeon Creek	Schuylkill River	Lat 40°12'03", long 75°32'10", Chester County, at bridge on Ellis Woods Road, 1.8 miles west of Parker Ford and 3.0 miles upstream from mouth.	12.0	1970-75	2-17-76	31
Stony Creek	Schuylkill River	Lat 40°10'01", long 75°32'57", on down- stream side of Pikeland Avenue bridge, 0.3 mile south of Spring City, Chester County, and about 2.2 miles upstream from mouth.	4.07	1971-73 1975	2-17-76	8.8
Big Elk Creek	Elk River	Lat 39°44'08", long 75°52'33", Chester County, at Fergusons Bridge (No. 35) on State Highway 841, 0.9 mile north of Lewisville.	31.2	1975	5- 6-76	30
Little Elk Creek	Elk River	Lat 39°43'13", long 75°53'50", Cecil County, Maryland at single span highway bridge on Lewisville, Pa. Blake, Md. road, 1.2 miles west of Lewisville, Pa. and 2.2 miles northwest of Providence, Md.	13.4	1975	5- 6-76	11

* Base flow.

Operated as a continuous-record gaging station.

DELAWARE RIVER BASIN

Jordan Creek seepage investigations - Lowhill to Allentown, Pa.

One series of measurements was made during the 1976 water year, June 14, 15, 1976, on Jordan Creek and Hassen Creek in Pennsylvania, to study channel gains and losses. The reach is 22.4 miles in length and extends from a partial-record station at Lowhill (01451000) to the gaging station at Allentown (01452000). The measurements were made during a period of constant base flow of the streams; for three days before the investigation no measureable precipitation had fallen. Tributary flow was considered a contribution and not a gain. Indicated gains or losses may be substantially in error as affected by small inaccuracies in open-channel measurements.

Jordan Creek Mile	Stream	Drainage Area	Location	Meas. disch. (ft ³ /s) June 14, 15, 1976	Gain or loss (ft ³ /s)
26.8	Jordan	23.0	U.S. Highway 309 at Lowhill	7.24	-----
18.8	Jordan	53.0	Gaging station near Schnecksville	14.9	+7.66
15.4	Jordan	55.4	At Kernsville-Lowhill Rd nr Kernsville	16.3	+1.40
14.5	Jordan	57.2	At Kernsville	15.6	-0.70
14.0	Jordan	57.4	110 ft upstream from Hassen Creek nr Kernsville	15.6	0.0
----	Hassen	7.70	At mouth	1.63	-----
12.1	Jordan	68.8	At old Mill Dam nr Guthsville	11.1	-6.13
10.1	Jordan	71.8	At Cedar Crest Boulevard nr Myersville	8.82	-2.28
7.1	Jordan	74.2	At 15th Street at Scherersville	9.79	+0.97
4.4	Jordan	75.8	Gaging station at Allentown	17.2	+7.41
TOTAL:			Mile 26.8 to 4.4		+9.96
			Mile 18.8 to 4.4		+2.30

DELAWARE RIVER BASIN

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East Branch Brandywine Creek seepage investigation - Downingtown, Pa.

One series of discharge measurements was made during the 1974 water year, on Nov. 13, 1973, on the East Branch Brandywine Creek and tributaries and diversions in Pennsylvania, to study channel gains and losses. The reach is 6.06 miles (9.75 km) in length and extends from the gaging station East Branch Brandywine Creek near Downingtown (01480700) to the gaging station East Branch Brandywine Creek below Downingtown (01480870). The measurements were made during a period of constant base flow of the stream; for several weeks before the investigation very little precipitation had fallen. Tributary flow was considered a contribution and not a gain; diversion was considered a reduction and not a loss. Indicated gains or losses may be substantially in error as affected by small inaccuracies in open-channel measurements. River miles measured upstream from confluence with West Branch Brandywine Creek.

East Branch Brandywine Creek Mile	Stream	Location	Meas. disch. (ft ³ /s)	Gain or loss (ft ³ /s)	Water temp. (°C)
				Nov. 13, 1973	
10.99	E. Br. Brandywine Cr.	Gaging station near Downingtown	25.00	----	6.5
-----	Unnamed tributary	Left bank, upstream from dam of E. Br. Brandywine Cr near Downingtown, 120 ft upstream from mouth	0.58	----	5.5
-----	Canal	Left bank, upstream from dam of E. Br. Brandywine Cr near Downingtown, 80 ft downstream from gates	2.13	----	5.0
9.99	E. Br. Brandywine Cr.	300 ft downstream from dam above Downingtown	24.46	+1.01	5.0
9.77	E. Br. Brandywine Cr.	At U.S. Highway 30 overpass above Downingtown	25.36	+0.90	5.5
9.38	E. Br. Brandywine Cr.	At north boro line above Downingtown	23.94	-1.42	6.5
-----	Spring	Left bank, 800 ft upstream from Penn St. bridge, 100 ft upstream from inflow, at Downingtown	0.08	----	12.0
-----	Unnamed tributary	Right bank, near Downingtown park, 35 ft upstream from mouth, at Downingtown	0.65	----	10.5
8.98	Beaver Cr.	Right bank, 400 ft upstream from Penn St. bridge, 100 ft upstream from mouth, at Downingtown	6.34	----	9.0
8.95	E. Br. Brandywine Cr.	240 ft upstream from Penn St. bridge at Downingtown	35.34	+4.33	8.5
-----	Spring	Left bank, at south end of Downingtown park, 15 ft upstream from mouth at Downingtown	0.24	----	12.0
8.81	E. Br. Brandywine Cr.	50 ft downstream from U.S. Highway 30 (Business) bridge at Downingtown	37.24	+1.66	6.5
-----	Canal	50 ft downstream from U.S. Highway 322 bridge below Downingtown	0.41	----	20.5
7.51	E. Br. Brandywine Cr.	100 ft upstream from Penn Central RR bridge below Downingtown	37.94	+1.11	7.0
4.93	E. Br. Brandywine Cr.	Gaging station below Downingtown	40.00	+2.06	6.5
TOTAL:				+15.0	

DELAWARE RIVER BASIN

ANALYSES OF SAMPLES COLLECTED AT WATER-QUALITY PARTIAL-RECORD STATIONS

Water-quality partial-record stations are particular sites where chemical-quality, biological and or sediment data are collected systematically over a period of years for use in hydrologic analyses. The data are collected usually less than quarterly.

DATE	TIME	CODE FOR AGENCY COL- LECTING SAMPLE	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)
01428800 - W. BR. LACKAWAXEN R. AT ALDENVILLE, PA. (LAT 41 38 38 LONG 075 21 36)								
NOV , 1975								
04...	0940	--	58	60	6.0	12.0	<5	10.8
01430200 - LACKAWAXEN RIVER AT WHITE MILLS, PA (LAT 41 31 30 LONG 075 11 20)								
FEB , 1976								
25...	1230	9813	--	50	7.0	4.0	3	11.1
MAY								
11...	1300	9813	--	80	7.6	14.0	1	10.5
01431600 - WALLENPAUPACK CREEK AT EAST STERLING, PA. (LAT 41 20 10 LONG 075 20 25)								
FEB , 1976								
25...	1400	9813	--	--	7.0	4.0	1	11.1
MAY								
11...	1430	9813	--	80	7.0	15.0	1	9.8
AUG								
22...	1515	9813	--	140	7.5	22.0	2	10.0
01432119 - LACKAWAXEN RIVER AT MOUTH AT LACKAWAXEN PA (LAT 41 29 12 LONG 074 59 31)								
JAN , 1976								
21...	1515	9813	--	70	7.2	.1	<1	12.0
FEB								
25...	1300	9813	--	110	7.0	5.0	2	11.1
MAY								
11...	1330	9813	--	70	8.1	15.0	1	10.0
AUG								
22...	1515	9813	--	130	7.2	22.0	<1	10.0
01440500 - PARADISE CREEK AT HENRYVILLE, PA. (LAT 41 06 00 LONG 075 15 05)								
OCT , 1975								
07...	0945	--	41	65	6.9	11.5	<5	10.4
01440650 - BRODHEAD CR NR ANALOMINK, PA. (LAT 41 02 07 LONG 075 12 45)								
JAN , 1976								
22...	1515	9813	--	42	7.2	.0	<1	12.0
FEB								
25...	1430	9813	--	110	7.0	7.0	<1	11.7
MAY								
12...	1330	9813	--	40	6.5	12.0	2	10.0
AUG								
30...	1515	9813	--	130	7.2	22.0	5	11.0
01441000 - MCMICHAELS CREEK AT STROUDSBURG, PA. (LAT 40 58 45 LONG 075 12 05)								
OCT , 1975								
07...	1130	--	106	75	6.7	12.5	<5	10.4
01441500 - POCONO CREEK NEAR STROUDSBURG, PA. (LAT 40 59 10 LONG 075 13 35)								
OCT , 1975								
07...	1315	--	50	75	8.1	14.0	<5	11.0

DELAWARE RIVER BASIN

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ANALYSES OF SAMPLES COLLECTED AT WATER-QUALITY PARTIAL-RECORD STATIONS

DATE	BIO-CHEMICAL OXYGEN DEMAND 5 DAY (MG/L)	MINERAL ACIDITY (METHYL ORANGE) AS CAC03 (MG/L)	ACIDITY CO2 AS CAC03 (MG/L)	HARDNESS (CA, MG) (MG/L)	DIS-SOLVED CALCIUM (CA) (MG/L)	DIS-SOLVED MAGNESIUM (MG) (MG/L)	ALKALINITY AS CAC03 (MG/L)	DIS-SOLVED SULFATE (SO4) (MG/L)	DIS-SOLVED CHLORIDE (CL) (MG/L)
01428800 - W. BR. LACKAWAXEN R. AT ALDENVILLE, PA. (LAT 41 38 38 LONG 075 21 36)									
NOV , 1975									
04...	.9	--	--	29	8.0	2.3	24	10	4.0
01430200 - LACKAWAXEN RIVER AT WHITE MILLS, PA (LAT 41 31 30 LONG 075 11 20)									
FEB , 1976									
25...	--	0	0	31	7.1	3.0	16	6.0	5.0
MAY									
11...	--	0	0	34	9.5	2.5	24	6.0	6.0
01431600 - WALLENPAUPACK CREEK AT EAST STERLING, PA. (LAT 41 20 10 LONG 075 20 25)									
FEB , 1976									
25...	--	0	0	32	6.3	4.0	14	6.0	5.0
MAY									
11...	--	0	0	20	8.0	.0	22	6.0	5.0
AUG									
22...	--	--	0	47	12	4.2	32	14	8.0
01432119 - LACKAWAXEN RIVER AT MOUTH AT LACKAWAXEN PA (LAT 41 29 12 LONG 074 59 31)									
JAN , 1976									
21...	--	0	0	25	8.0	1.0	18	22	8.0
FEB									
25...	--	0	0	25	6.3	2.0	14	6.0	5.0
MAY									
11...	--	0	0	42	8.0	6.0	24	6.0	5.0
AUG									
22...	--	--	0	48	14	3.0	32	14	8.0
01440500 - PARADISE CREEK AT HENRYVILLE, PA. (LAT 41 06 00 LONG 075 15 05)									
OCT , 1975									
07...	.7	--	--	28	5.6	3.5	14	8.0	10
01440650 - BRODHEAD CR NR ANALOMINK, PA. (LAT 41 02 07 LONG 075 12 45)									
JAN , 1976									
22...	--	0	6	19	3.1	2.5	4	12	6.0
FEB									
25...	--	0	0	26	4.7	3.5	12	6.0	7.0
MAY									
12...	--	0	0	<10	3.1	--	16	16	4.0
AUG									
30...	--	--	0	54	16	3.0	36	8.0	11
01441000 - MCMICHAELS CREEK AT STROUDSBURG, PA. (LAT 40 58 45 LONG 075 12 05)									
OCT , 1975									
07...	.5	--	--	34	10	2.3	24	8.0	5.0
01441500 - POCONO CREEK NEAR STROUDSBURG, PA. (LAT 40 59 10 LONG 075 13 35)									
OCT , 1975									
07...	.9	--	--	27	6.4	2.8	16	6.0	12

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ANALYSES OF SAMPLES COLLECTED AT WATER-QUALITY PARTIAL-RECORD STATIONS

DATE	TOTAL FILT- RABLE RESIDUE (MG/L)	TOTAL NITRATE (N) (MG/L)	TOTAL 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 IRON (FE) (UG/L)
------	--	-----------------------------------	-----------------------------------	--	--	--	---	---------------------------------

01428800 - W. BR. LACKAWAXEN R. AT ALDENVILLE, PA. (LAT 41 38 38 LONG 075 21 36)

NOV , 1975								
04...	60	.79	.03	.03	.12	.15	--	60

01430200 - LACKAWAXEN RIVER AT WHITE MILLS, PA (LAT 41 31 30 LONG 075 11 20)

FEB , 1976								
25...	--	1.1	.06	.05	--	--	.05	190
MAY								
11...	--	.62	.03	.08	--	--	.09	120

01431600 - WALLENPAUPACK CREEK AT EAST STERLING, PA. (LAT 41 20 10 LONG 075 20 25)

FEB , 1976								
25...	--	.84	.02	.07	--	--	--	270
MAY								
11...	--	.50	.02	.05	--	--	.09	120
AUG								
22...	--	.58	.01	.03	--	--	.07	80

01432119 - LACKAWAXEN RIVER AT MOUTH AT LACKAWAXEN PA (LAT 41 29 12 LONG 074 59 31)

JAN , 1976								
21...	--	1.0	.09	.05	--	--	.06	70
FEB								
25...	--	.96	.06	.05	--	--	.05	290
MAY								
11...	--	.44	.03	.06	--	--	.08	100
AUG								
22...	--	.70	.02	.04	--	--	.06	60

01440500 - PARADISE CREEK AT HENRYVILLE, PA. (LAT 41 06 00 LONG 075 15 05)

OCT , 1975								
07...	50	.78	.05	.04	.09	.13	--	200

01440650 - BRODHEAD CR NR ANALOMINK, PA. (LAT 41 02 07 LONG 075 12 45)

JAN , 1976								
22...	--	1.6	.06	<.02	--	--	.04	60
FEB								
25...	--	.60	.02	.05	--	--	.04	520
MAY								
17...	--	.42	.03	.03	--	--	.07	80
AUG								
30...	--	.62	.02	.02	--	--	.10	1270

01441000 - MCMICHAELS CREEK AT STROUDSBURG, PA. (LAT 40 58 45 LONG 075 12 05)

OCT , 1975								
07...	40	.72	.02	<.02	--	.08	--	30

01441500 - POCONO CREEK NEAR STROUDSBURG, PA. (LAT 40 59 10 LONG 075 13 35)

OCT , 1975								
07...	22	.54	.03	.02	.10	.12	--	40

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ANALYSES OF SAMPLES COLLECTED AT WATER-QUALITY PARTIAL-RECORD STATIONS

DATE	TIME	CODE FOR AGENCY COL- LECTING SAMPLE	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)	RIO- CHEM- ICAL OXYGEN DEMAND 5 DAY (MG/L)	HARD- NESS (CA.MG) (MG/L)
01446655 - MARTINS CREEK AT MARTINS CREEK, PA. (LAT 40 46 42 LONG 075 10 36)										
OCT , 1975										
16...	0940	9813	--	200	--	15.0	1	10.1	--	96
NOV										
18...	0950	9813	--	170	7.5	8.5	3	11.1	--	89
DEC										
22...	1015	9813	--	210	--	2.0	1	6.7	--	162
FEB , 1976										
19...	1055	9813	--	160	7.2	6.0	40	11.5	--	100
MAY										
13...	1030	9813	--	280	7.3	12.5	2	8.5	--	108
AUG										
31...	1315	9813	--	270	7.7	18.5	1	10.7	--	94
01446900 - BUSHKILL CREEK NEAR EASTON, PA. (LAT 40 42 38 LONG 075 14 46)										
OCT , 1975										
07...	1645	--	120	290	7.8	14.5	9	11.2	1.1	96
01448100 - SANDY RUN NEAR WHITE HAVEN, PA. (LAT 41 00 31 LONG 075 46 08)										
NOV , 1975										
04...	1530	--	18	200	6.8	11.5	7	10.0	.5	99
01448850 - BLACK CREEK AT WEATHERLY, PA. (LAT 40 55 52 LONG 075 49 20)										
OCT , 1975										
20...	1310	9813	--	50	--	11.0	5	9.7	--	20
NOV										
17...	1015	9813	--	70	6.0	5.0	3	10.5	--	24
DEC										
22...	1330	9813	--	120	--	--	2	--	--	64
FEB , 1976										
23...	1335	9813	--	70	5.5	4.0	4	13.0	--	30
MAY										
12...	1300	9813	--	110	5.8	11.5	2	10.7	--	40
AUG										
17...	1245	9813	--	150	5.5	16.0	3	9.6	--	43
01448901 - NESQUEHONING CREEK AT JIM THORPE, PA (LAT 40 52 31 LONG 075 45 47)										
NOV , 1975										
24...	1105	9813	--	280	6.0	7.5	30	10.0	--	198
FEB , 1976										
23...	1400	9813	--	280	6.0	7.0	23	12.3	--	228
MAY										
12...	1330	9813	--	420	5.5	13.0	13	11.0	--	108
AUG										
17...	1440	9813	--	600	6.5	16.0	25	10.0	--	290
01449355 - MIDDLE CREEK AT KRESGEVILLE, PA. (LAT 40 54 03 LONG 075 29 50)										
OCT , 1975										
08...	0930	--	28	29	6.9	14.0	<5	11.0	.7	13

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ANALYSES OF SAMPLES COLLECTED AT WATER-QUALITY PARTIAL-RECORD STATIONS

DATE	MINERAL ACIDITY (METHYL ORANGE) AS CAC03 (MG/L)	ACIDITY CO2 AS CAC03 (MG/L)	DIS- SOLVED CAL- CIUM (CA) (MG/L)	DIS- SOLVED MAG- NE- SIUM (MG) (MG/L)	ALKA- LINITY AS CAC03 (MG/L)	DIS- SOLVED SULFATE (SO4) (MG/L)	DIS- SOLVED CHLO- RIDE (CL) (MG/L)	TOTAL FLUO- RIDE (F) (MG/L)	TOTAL FILT- RABLE RESIDUE (MG/L)	TOTAL NITRATE (N) (MG/L)
01446655 - MARTINS CREEK AT MARTINS CREEK, PA. (LAT 40 46 42 LONG 075 10 36)										
OCT , 1975										
16...	0	0	30	5.0	50	80	10	--	218	2.5
NOV										
18...	--	0	25	6.2	38	52	8.0	--	166	2.4
DEC										
22...	--	0	29	22	42	64	9.0	--	208	2.2
FEB , 1976										
19...	0	0	20	12	36	48	11	--	--	1.9
MAY										
13...	--	0	31	7.5	40	56	13	--	220	2.0
AUG										
31...	--	0	36	1.0	50	60	20	--	254	2.8
01446900 - BUSHKILL CREEK NEAR EASTON, PA. (LAT 40 42 38 LONG 075 14 46)										
OCT , 1975										
07...	--	--	30	5.0	120	60	11	--	294	4.8
01448100 - SANDY RUN NEAR WHITE HAVEN, PA. (LAT 41 00 31 LONG 075 46 08)										
NOV , 1975										
04...	--	--	34	3.3	24	120	2.0	--	200	.65
01448850 - BLACK CREEK AT WEATHERLY, PA. (LAT 40 55 52 LONG 075 49 20)										
OCT , 1975										
20...	0	0	3.1	3.0	4	16	6.0	--	74	.66
NOV										
17...	0	20	4.7	3.0	2	32	7.0	.1	80	.68
DEC										
22...	--	30	6.3	12	6	44	8.0	--	152	.85
FEB , 1976										
23...	0	10	2.3	6.0	4	24	9.0	.2	--	.94
MAY										
12...	18	0	5.5	6.5	6	34	7.0	.2	100	.70
AUG										
17...	--	14	4.7	7.7	6	20	9.0	.2	104	.76
01448901 - NESQUEHONING CREEK AT JIM THORPE, PA (LAT 40 52 31 LONG 075 45 47)										
NOV , 1975										
24...	0	18	43	22	16	264	5.0	--	336	.46
FEB , 1976										
23...	0	0	35	35	6	184	7.0	--	--	.78
MAY										
12...	0	0	32	6.5	12	170	6.0	--	360	.46
AUG										
17...	--	0	52	40	12	200	6.0	--	504	.48
01449355 - MIDDLE CREEK AT KRESGEVILLE, PA. (LAT 40 54 03 LONG 075 29 50)										
OCT , 1975										
08...	--	--	2.4	1.8	8	4.0	3.0	--	8	.90

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ANALYSES OF SAMPLES COLLECTED AT WATER-QUALITY PARTIAL-RECORD STATIONS

DATE	TOTAL 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 ALUM- INUM (AL) (UG/L)	TOTAL IRON (FE) (UG/L)	TOTAL MAN- GANESE (MN) (UG/L)	TOTAL ORGANIC CARBON (C) (MG/L)	METHY- LENE BLUE ACTIVE SUB- STANCE (MG/L)
01446655 - MARTINS CREEK AT MARTINS CREEK, PA. (LAT 40 46 42 LONG 075 10 36)										
OCT , 1975										
16...	.05	.04	--	--	.21	--	50	--	7.0	--
NOV										
18...	.07	.04	--	--	.14	--	210	10	4.0	.0
DEC										
22...	.06	.21	--	--	.40	--	90	--	--	--
FEB , 1976										
19...	.06	.12	--	--	.16	--	260	20	--	.0
MAY										
13...	.07	.08	--	--	.28	--	170	30	--	.0
AUG										
31...	.07	.03	--	--	.03	--	110	<10	--	.0
01446900 - BUSHKILL CREEK NEAR EASTON, PA. (LAT 40 42 38 LONG 075 14 46)										
OCT , 1975										
07...	.04	.04	.13	.17	--	--	230	--	--	--
01448100 - SANDY RUN NEAR WHITE HAVEN, PA. (LAT 41 00 31 LONG 075 46 08)										
NOV , 1975										
04...	.03	.37	.06	.43	--	--	1080	--	--	--
01448850 - BLACK CREEK AT WEATHERLY, PA. (LAT 40 55 52 LONG 075 49 20)										
OCT , 1975										
20...	.02	.07	--	--	.06	--	680	--	4.0	--
NOV										
17...	.03	.15	--	--	.12	1150	430	290	--	.0
DEC										
22...	.03	.20	--	--	.22	--	760	--	--	--
FEB , 1976										
23...	.04	.14	--	--	.08	900	430	220	--	.0
MAY										
12...	.03	.19	--	--	.12	1280	330	390	--	.0
AUG										
17...	.03	.21	--	--	.16	1630	460	430	--	.0
01448901 - NESQUEHONING CREEK AT JIM THORPE, PA (LAT 40 52 31 LONG 075 45 47)										
NOV , 1975										
24...	.03	.17	--	--	.07	1780	4850	2160	--	--
FEB , 1976										
23...	.04	.12	--	--	.08	2170	3780	1650	--	--
MAY										
12...	.02	.15	--	--	.06	1810	3100	1670	--	--
AUG										
17...	.01	.22	--	--	.05	2500	4750	2450	--	--
01449355 - MIDDLE CREEK AT KRESGEVILLE, PA. (LAT 40 54 03 LONG 075 29 50)										
OCT , 1975										
08...	.02	.03	.06	.09	--	--	30	--	--	--

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ANALYSES OF SAMPLES COLLECTED AT WATER-QUALITY PARTIAL-RECORD STATIONS

DATE	TIME	CODE FOR AGENCY COL- LECTING SAMPLE	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)	IMME- DIATE COLI- FORM (COL. PER 100 ML)	FECAL COLI- FORM (COL. PER 100 ML)
01450020 - POHOPOCO CREEK AT PARRYVILLE, PA. (LAT 40 48 57 LONG 075 40 21)											
OCT , 1975											
20...	1215	9813	--	65	--	13.0	4	9.1	--	--	--
NOV											
24...	1145	9813	--	50	6.7	8.0	1	9.5	--	--	--
DEC											
22...	1300	9813	--	50	--	1.0	1	5.2	--	--	--
FEB , 1976											
18...	1155	9813	--	80	6.7	4.0	3	11.0	--	--	--
MAY											
12...	1130	9813	--	70	6.8	10.5	2	11.0	--	--	--
AUG											
17...	1100	9813	--	90	6.8	16.5	2	9.5	--	--	--
01451110 - HOKENDAUQUA CREEK NR NORTHAMPTON, PA. (LAT 40 42 50 LONG 075 29 45)											
OCT , 1975											
06...	1530	--	47	150	7.7	16.0	<5	10.0	.7	--	--
01451165 - CATASAUQUA CREEK AT CATASAUQUA, PA. (LAT 40 38 52 LONG 075 28 06)											
OCT , 1975											
06...	1345	--	16	330	8.0	15.0	<5	9.2	1.1	--	--
01451695 - JORDAN CR NR PLEASANT CORNERS, PA. (LAT 40 39 55 LONG 075 41 19)											
OCT , 1975											
06...	1430	--	21	160	6.6	16.5	--	10.4	--	1000	87
NOV											
11...	1130	--	32	145	7.0	11.0	--	11.0	--	4800	430
01451700 - SWITZER CREEK NR PLEASANT CORNERS, PA. (LAT 40 39 34 LONG 075 41 33)											
OCT , 1975											
06...	1300	--	9.0	200	7.0	17.0	--	10.0	--	1100	670
NOV											
11...	1115	--	20	175	6.9	11.0	--	11.0	--	6000	1500
01451738 - LYON CREEK AT LYON VALLEY, PA. (LAT 40 37 30 LONG 075 40 27)											
OCT , 1975											
06...	1330	--	13	225	7.1	17.0	--	9.8	--	7700	3000
NOV											
11...	1000	--	13	200	7.1	10.0	--	11.2	--	28000	7100
01451770 - MILL CR NR SCHNECKSVILLE, PA. (LAT 40 40 35 LONG 075 38 25)											
OCT , 1975											
06...	1500	--	1.7	210	6.7	16.5	--	10.2	--	480	67
NOV											
11...	1230	--	4.5	190	7.1	12.5	--	10.9	--	1400	180

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ANALYSES OF SAMPLES COLLECTED AT WATER-QUALITY PARTIAL-RECORD STATIONS

DATE	STREP- TOCOCCI (COL- ONIES PER 100 ML)	HARD- NESS (CA,MG) (MG/L)	MINERAL ACIDITY (METHYL ORANGE) AS CACO3 (MG/L)	ACIDITY CO2 AS CACO3 (MG/L)	DIS- SOLVED CAL- CIUM (CA) (MG/L)	DIS- SOLVED MAG- NE- SIUM (MG) (MG/L)	ALKA- LINITY AS CACO3 (MG/L)	DIS- SOLVED SULFATE (SO4) (MG/L)	DIS- SOLVED CHLO- RIDE (CL) (MG/L)	TOTAL FILT- RABLE RESIDUE (MG/L)
01450020 - POHOPOCO CREEK AT PARRYVILLE, PA. (LAT 40 48 57 LONG 075 40 21)										
OCT , 1975										
20...	--	25	0	0	3.1	4.0	12	12	10	62
NOV										
24...	--	16	0	0	5.5	.5	16	2.0	7.0	26
DEC										
22...	--	30	--	0	3.1	5.5	38	8.0	7.0	42
FEB , 1976										
18...	--	23	0	0	4.0	3.0	12	12	17	--
MAY										
12...	--	26	0	0	1.5	5.5	14	14	10	70
AUG										
17...	--	20	--	0	16	1.0	12	4.0	13	48
01451110 - HOKENDAUQUA CREEK NR NORTHAMPTON, PA. (LAT 40 42 50 LONG 075 29 45)										
OCT , 1975										
06...	--	68	--	--	22	3.5	44	24	6.0	100
01451165 - CATASAUQUA CREEK AT CATASAUQUA, PA. (LAT 40 38 52 LONG 075 28 06)										
OCT , 1975										
06...	--	230	--	--	23	68	150	68	11	340
01451695 - JORDAN CR NR PLEASANT CORNERS, PA. (LAT 40 39 55 LONG 075 41 19)										
OCT , 1975										
06...	340	--	--	--	--	--	18	--	--	--
NOV										
11...	4400	--	--	--	--	--	25	--	--	--
01451700 - SWITZER CREEK NR PLEASANT CORNERS, PA. (LAT 40 39 34 LONG 075 41 33)										
OCT , 1975										
06...	420	--	--	--	--	--	21	--	--	--
NOV										
11...	3400	--	--	--	--	--	30	--	--	--
01451738 - LYON CREEK AT LYON VALLEY, PA. (LAT 40 37 30 LONG 075 40 27)										
OCT , 1975										
06...	780	--	--	--	--	--	30	--	--	--
NOV										
11...	38000	--	--	--	--	--	31	--	--	--
01451770 - MILL CR NR SCHNECKSVILLE, PA. (LAT 40 40 35 LONG 075 38 25)										
OCT , 1975										
06...	260	--	--	--	--	--	31	--	--	--
NOV										
11...	1900	--	--	--	--	--	34	--	--	--

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ANALYSES OF SAMPLES COLLECTED AT WATER-QUALITY PARTIAL-RECORD STATIONS

DATE	TOTAL NITRATE (N) (MG/L)	TOTAL 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)	TOTAL IRON (FE) (UG/L)	TOTAL MAN- GANESE (MN) (UG/L)	TOTAL ORGANIC CARBON (C) (MG/L)
01450020 - POHOPOCO CREEK AT PARRYVILLE, PA. (LAT 40 48 57 LONG 075 40 21)										
OCT , 1975										
20...	1.3	.02	.03	--	--	.02	--	80	--	3.0
NOV										
24...	1.1	.03	.03	--	--	.03	--	90	70	--
DEC										
22...	1.1	.03	.02	--	--	.14	--	80	--	--
FEB , 1976										
18...	1.2	.05	.05	--	--	.05	--	130	50	--
MAY										
12...	1.0	.03	.06	--	--	.05	--	80	70	--
AUG										
17...	.92	.01	.04	--	--	.02	--	180	120	--
01451110 - HOKENDAUQUA CREEK NR NORTHAMPTON, PA. (LAT 40 42 50 LONG 075 29 45)										
OCT , 1975										
06...	3.5	.02	<.02	--	.14	--	--	<10	--	--
01451165 - CATASAUQUA CREEK AT CATASAUQUA, PA. (LAT 40 38 52 LONG 075 28 06)										
OCT , 1975										
06...	5.9	.03	.04	.12	.16	--	--	190	--	--
01451695 - JORDAN CR NR PLEASANT CORNERS, PA. (LAT 40 39 55 LONG 075 41 19)										
OCT , 1975										
06...	4.1	--	.04	.32	.36	.02	.01	--	--	1.6
NOV										
11...	2.4	--	.01	.70	.71	.09	.01	--	--	4.6
01451700 - SWITZER CREEK NR PLEASANT CORNERS, PA. (LAT 40 39 34 LONG 075 41 33)										
OCT , 1975										
06...	4.6	--	.07	.36	.43	.03	.01	--	--	1.4
NOV										
11...	3.5	--	.01	.67	.68	.06	.01	--	--	3.8
01451738 - LYON CREEK AT LYON VALLEY, PA. (LAT 40 37 30 LONG 075 40 27)										
OCT , 1975										
06...	5.2	--	.06	.49	.55	.05	.02	--	--	2.0
NOV										
11...	4.2	--	.01	.56	.57	.08	.01	--	--	3.1
01451770 - MILL CR NR SCHNECKSVILLE, PA. (LAT 40 40 35 LONG 075 38 25)										
OCT , 1975										
06...	4.6	--	.04	.35	.39	.09	.08	--	--	1.0
NOV										
11...	3.5	--	.01	.54	.55	.06	.06	--	--	2.4

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ANALYSES OF SAMPLES COLLECTED AT WATER-QUALITY PARTIAL-RECORD STATIONS

DATE	TIME	CODE FOR AGENCY COL- LECTING SAMPLE	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)	CHEM- ICAL OXYGEN DEMAND (HIGH LEVEL) (MG/L)	BIO- CHEM- ICAL OXYGEN DEMAND (MG/L)
01452400 - MONOCACY CREEK NEAR BETHLEHEM, PA. (LAT 40 41 13 LONG 075 20 26)										
OCT , 1975										
16...	1055	9813	--	330	--	14.5	2	11.0	--	--
NOV										
18...	1300	9813	--	290	7.8	10.5	3	10.7	--	--
DEC										
16...	0940	9813	--	360	--	8.0	1	12.5	--	--
FEB , 1976										
19...	1245	9813	--	310	7.8	8.0	25	11.7	--	--
MAY										
13...	1300	9813	--	600	8.5	15.5	5	10.5	--	--
AUG										
19...	1010	9813	--	500	8.5	17.0	3	10.2	--	--
01452600 - MONOCACY CR AT BETHLEHEM, PA. (LAT 40 37 01 LONG 075 22 52)										
OCT , 1975										
16...	1225	9813	--	290	--	14.5	3	10.8	--	--
NOV										
19...	1015	9813	--	280	8.5	10.0	4	10.7	--	--
DEC										
16...	1320	9813	--	340	--	9.0	2	12.7	--	--
FEB , 1976										
23...	1015	9813	--	310	8.1	5.0	16	12.0	--	--
MAY										
20...	1050	9813	--	500	8.5	12.0	2	10.5	--	--
AUG										
19...	1155	9813	--	600	8.5	16.0	3	10.3	--	--
01459182 - TOHICKON CR NR QUAKERTOWN, PA. (LAT 40 27 18 LONG 075 16 46)										
OCT , 1975										
23...	0930	9813	--	170	--	14.0	16	--	28	--
JAN , 1976										
14...	0900	9813	--	110	--	.0	63	--	--	--
FEB										
24...	1515	9813	--	150	--	--	13	--	--	--
MAY										
20...	1045	9813	--	300	--	--	20	--	--	--
AUG										
17...	0830	9813	--	340	--	21.0	--	--	--	--
01467087 - FRANKFORD CREEK AT CASTOR AVE, PHILADELPHIA, PA. (LAT 40 01 18 LONG 075 06 13)										
NOV , 1975										
05...	1330	9813	--	290	--	16.0	3	--	30	--
FEB , 1976										
03...	1200	9813	--	290	--	1.0	3	--	--	--
26...	0930	9813	--	330	--	8.0	2	--	--	--
MAR										
25...	1045	9813	--	370	--	11.0	3	--	--	--
MAY										
03...	1400	9813	--	370	--	16.0	3	--	--	--
AUG										
24...	1000	9813	--	500	--	25.0	2	--	--	--
01470758 - MOSELEM CR NR SHOEMAKERSVILLE, PA. (LAT 40 30 10 LONG 075 52 47)										
OCT , 1975										
06...	1145	--	32	330	7.8	13.5	<5	10.8	--	.7

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ANALYSES OF SAMPLES COLLECTED AT WATER-QUALITY PARTIAL-RECORD STATIONS

DATE	HARD- NESS (CA, MG) (MG/L)	MINERAL ACIDITY (METHYL ORANGE) AS CAC03 (MG/L)	ACIDITY C02 AS CAC03 (MG/L)	DIS- SOLVED CAL- CIUM (CA) (MG/L)	DIS- SOLVED MAG- NE- SIUM (MG) (MG/L)	ALKA- LINITY AS CAC03 (MG/L)	DIS- SOLVED SULFATE (S04) (MG/L)	DIS- SOLVED CHLO- RIDE (CL) (MG/L)	TOTAL FLUO- RIDE (F) (MG/L)	TOTAL FILT- RABLE RESIDUE (MG/L)
01452400 - MONOCACY CREEK NEAR BETHLEHEM, PA. (LAT 40 41 13 LONG 075 20 26)										
OCT , 1975										
16...	312	0	0	70	34	152	48	15	--	390
NOV										
18...	192	--	0	60	10	118	82	12	--	320
DEC										
16...	204	--	0	72	5.5	262	116	14	--	382
FEB , 1976										
19...	198	0	0	58	13	114	84	16	--	--
MAY										
13...	240	--	0	65	19	138	98	15	--	428
AUG										
19...	255	--	0	73	17	122	100	20	--	420
01452600 - MONOCACY CR AT BETHLEHEM, PA. (LAT 40 37 01 LONG 075 22 52)										
OCT , 1975										
16...	192	0	0	58	6.5	160	62	15	--	382
NOV										
19...	204	--	0	56	14	142	76	14	--	314
DEC										
16...	228	--	0	42	30	334	94	15	--	390
FEB , 1976										
23...	180	0	0	44	17	132	70	16	--	--
MAY										
20...	216	0	0	56	19	158	78	16	--	362
AUG										
19...	240	--	0	36	37	136	76	19	--	432
01459182 - TOHICKON CR NR QUAKERTOWN, PA. (LAT 40 27 18 LONG 075 16 46)										
OCT , 1975										
23...	71	0	0	19	5.5	58	30	19	--	230
JAN , 1976										
14...	34	0	0	8.7	3.0	24	14	17	--	124
FEB										
24...	63	0	0	14	6.5	40	24	16	--	--
MAY										
20...	113	0	0	21	14	58	30	25	--	--
AUG										
17...	100	0	0	25	9.0	64	40	24	.2	216
01467087 - FRANKFORD CREEK AT CASTOR AVE, PHILADELPHIA, PA. (LAT 40 01 18 LONG 075 06 13)										
NOV , 1975										
05...	132	--	--	36	12	84	54	41	--	242
FEB , 1976										
03...	138	0	0	28	17	72	50	52	.1	312
26...	96	0	0	34	2.5	78	60	48	.1	278
MAR										
25...	252	--	--	33	42	86	56	487	.1	252
MAY										
03...	132	0	0	31	13	82	44	38	.1	252
AUG										
24...	178	0	0	40	19	94	62	65	.1	342
01470758 - MOSELEM CR NR SHOEMAKERSVILLE, PA. (LAT 40 30 10 LONG 075 52 47)										
OCT , 1975										
06...	250	--	--	67	21	20	26	10	--	338

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ANALYSES OF SAMPLES COLLECTED AT WATER-QUALITY PARTIAL-RECORD STATIONS

DATE	TOTAL NON- FILT- RABLE RESIDUE (MG/L)	TOTAL NITRATE (N) (MG/L)	TOTAL NITRITE (N) (MG/L)	TOTAL KJEL- DAHL NITRO- GEN (N) (MG/L)	TOTAL PHOS- PHORUS (P) (MG/L)	TOTAL IRON (FF) (UG/L)	TOTAL MAN- GANESE (MN) (UG/L)	TOTAL ORGANIC CARRON (C) (MG/L)	METHY- LENE BLUE ACTIVE SUB- STANCE (MG/L)
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01452400 - MONOCACY CREEK NEAR BETHLEHEM, PA. (LAT 40 41 13 LONG 075 20 26)

OCT , 1975									
16...	--	4.5	.06	--	.07	30	--	1.0	--
NOV									
18...	--	5.0	.05	--	.08	320	--	4.0	--
DEC									
16...	--	3.7	.05	--	.11	260	--	--	--
FEB , 1976									
19...	--	3.1	.06	--	.09	1400	--	--	--
MAY									
13...	--	3.8	.05	--	.08	260	--	--	--
AUG									
19...	--	3.5	.06	--	.12	110	<10	--	--

01452600 - MONOCACY CR AT BETHLEHEM, PA. (LAT 40 37 01 LONG 075 22 52)

OCT , 1975									
16...	--	3.7	.04	--	.05	80	--	9.0	--
NOV									
19...	--	4.1	.07	--	.07	490	30	--	--
DEC									
16...	--	3.9	.03	--	.09	290	--	--	--
FEB , 1976									
23...	--	3.7	.03	--	.09	400	40	--	--
MAY									
20...	--	4.3	.04	--	.12	220	110	--	--
AUG									
19...	--	3.9	.04	--	.05	110	80	--	--

01459182 - TOHICKON CR NR QUAKERTOWN, PA. (LAT 40 27 18 LONG 075 16 46)

OCT , 1975									
23...	--	1.0	.09	--	.30	540	--	--	.0
JAN , 1976									
14...	88	1.1	.08	--	.47	2680	--	--	.0
FEB									
24...	--	1.0	.05	--	.25	400	--	--	--
MAY									
20...	16	1.5	.09	--	.42	1260	--	--	.0
AUG									
17...	20	1.5	.05	--	.58	1220	--	--	.0

01467087 - FRANKFORD CREEK AT CASTOR AVE, PHILADELPHIA, PA. (LAT 40 01 18 LONG 075 06 13)

NOV , 1975									
05...	4	2.7	.12	--	.17	400	--	--	.1
FEB , 1976									
03...	8	2.6	.05	--	2.5	320	--	--	.0
26...	14	2.7	.10	--	.13	230	--	--	.0
MAR									
25...	8	2.3	.77	--	.12	400	--	--	.1
MAY									
03...	4	2.1	.04	--	.10	440	--	--	.0
AUG									
24...	12	1.2	.06	--	.14	510	--	--	.0

01470758 - MOSELEM CR NR SHOEMAKERSVILLE, PA. (LAT 40 30 10 LONG 075 52 47)

OCT , 1975									
06...	--	7.3	.04	.03	--	180	--	--	--

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ANALYSES OF SAMPLES COLLECTED AT WATER-QUALITY PARTIAL-RECORD STATIONS

DATE	TIME	SPE- CIFIC CON- DUCT- ANCE (MICRO- MHOS)	PH (UNITS)	TEMPER- ATURE (DEG C)	DIS- SOLVED OXYGEN (MG/L)	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)	DIS- SOLVED PO- TAS- SIUM (K) (MG/L)	BICAR- BONATE (HC03) (MG/L)
01472054 - PIGEON CREEK NEAR BUCKTOWN, PA. (LAT 40 11 50 LONG 075 40 10)												
NOV , 1975	05... 0800	120	6.7	12.5	9.6	35	14	10	2.5	4.7	1.2	26
01472065 - PIGEON CREEK NEAR PORTERS MILL, PA. (LAT 40 11 27 LONG 075 38 10)												
NOV , 1975	05... 0930	130	7.1	13.0	10.2	37	12	10	2.8	5.4	1.3	30
01472080 - PIGEON CREEK NEAR PARKER FORD, PA. (LAT 40 12 03 LONG 075 37 10)												
NOV , 1975	05... 1345	--	7.5	15.5	--	52	26	13	4.8	6.4	1.7	32
01472109 - STONY RUN NEAR SPRING CITY, PA. (LAT 40 10 11 LONG 075 34 45)												
NOV , 1975	04... 1430	230	7.6	17.0	10.9	72	37	18	6.5	13	2.8	42
01472110 - STONY RUN AT SPRING CITY, PA. (LAT 40 10 01 LONG 075 32 57)												
NOV , 1975	05... 1500	--	7.3	16.5	11.0	78	41	20	6.7	13	2.8	45
01472126 - FRENCH CREEK NEAR TRYTHALL, PA. (LAT 40 12 00 LONG 075 45 53)												
OCT , 1975	30... 1400	60	7.1	13.0	9.2	18	2	5.5	1.0	2.5	.9	19
01472129 - FRENCH CREEK NEAR KNAURERTOWN, PA. (LAT 40 11 09 LONG 075 45 28)												
NOV , 1975	10... 1500	95	7.1	16.0	10.2	31	6	8.9	2.1	3.1	1.7	30
01472138 - FRENCH CREEK NEAR COVENTRYVILLE, PA. (LAT 40 10 14 LONG 075 41 50)												
NOV , 1975	04... 1100	140	7.2	13.0	11.2	49	16	13	4.0	4.4	1.3	40
01472140 - S BR FRENCH CR AT COVENTRYVILLE, PA. (LAT 40 09 18 LONG 075 42 52)												
NOV , 1975	04... 1015	190	7.0	13.0	11.9	63	29	17	5.0	6.3	1.8	42
01472154 - FRENCH CREEK NEAR PUGHTOWN, PA. (LAT 40 09 14 LONG 075 38 25)												
NOV , 1975	04... 1230	150	7.6	13.5	11.2	51	19	14	4.0	5.7	1.6	40

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ANALYSES OF SAMPLES COLLECTED AT WATER-QUALITY PARTIAL-RECORD STATIONS

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 (RESI- DUE AT 180 C) (MG/L)	DIS- SOLVED SOLIDS (SUM OF CONSTI- TUENTS) (MG/L)	TOTAL 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)
01472054 - PIGEON CREEK NEAR BUCKTOWN, PA. (LAT 40 11 50 LONG 075 40 10)												
NOV , 1975 05...	0	21	8.3	15	4.4	13	81	64	.97	.00	.56	.56
01472065 - PIGEON CREEK NEAR PORTERS MILL, PA. (LAT 40 11 27 LONG 075 38 10)												
NOV , 1975 05...	0	25	3.8	14	6.3	14	86	69	1.4	.00	.59	.59
01472080 - PIGEON CREEK NEAR PARKER FORD, PA. (LAT 40 12 03 LONG 075 37 10)												
NOV , 1975 05...	0	26	1.6	17	7.4	14	98	80	2.2	.01	.65	.66
01472109 - STONY RUN NEAR SPRING CITY, PA. (LAT 40 10 11 LONG 075 34 45)												
NOV , 1975 04...	0	34	1.7	25	16	17	148	119	6.6	.02	.78	.80
01472110 - STONY RUN AT SPRING CITY, PA. (LAT 40 10 01 LONG 075 32 57)												
NOV , 1975 05...	0	37	3.6	27	16	15	153	123	6.1	.13	.77	.90
01472126 - FRENCH CREEK NEAR TRYTHALL, PA. (LAT 40 12 00 LONG 075 45 53)												
OCT , 1975 30...	0	16	2.4	7.1	2.7	8.6	52	38	.11	.01	.21	.22
01472129 - FRENCH CREEK NEAR KNAURERTOWN, PA. (LAT 40 11 09 LONG 075 45 28)												
NOV , 1975 10...	0	25	3.8	7.3	4.2	11	62	54	.52	.01	.44	.45
01472138 - FRENCH CREEK NEAR COVENTRYVILLE, PA. (LAT 40 10 14 LONG 075 41 50)												
NOV , 1975 04...	0	33	4.0	10	7.0	14	81	74	.68	.01	.32	.33
01472140 - S BR FRENCH CR AT COVENTRYVILLE, PA. (LAT 40 09 18 LONG 075 42 52)												
NOV , 1975 04...	0	34	6.7	14	11	18	110	94	2.9	.00	.59	.59
01472154 - FRENCH CREEK NEAR PUGHTOWN, PA. (LAT 40 09 14 LONG 075 38 25)												
NOV , 1975 04...	0	33	1.6	13	8.6	15	95	82	1.6	.01	.53	.54

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ANALYSES OF SAMPLES COLLECTED AT WATER-QUALITY PARTIAL-RECORD STATIONS

DATE	TOTAL PHOS- PHORUS (P) (MG/L)	TOTAL ORTHO PHOS- PHORUS (P) (MG/L)	DIS- SOLVED CAD- MIUM (CD) (UG/L)	DIS- SOLVED CHRO- MIUM (CR) (UG/L)	DIS- SOLVED COBALT (CO) (UG/L)	DIS- SOLVED COPPER (CU) (UG/L)	DIS- SOLVED IRON (FE) (UG/L)	DIS- SOLVED LEAD (PB) (UG/L)	DIS- SOLVED MAN- GANESE (MN) (UG/L)	DIS- SOLVED NICKEL (NI) (UG/L)	DIS- SOLVED ZINC (ZN) (UG/L)
01472054 - PIGEON CREEK NEAR BUCKTOWN, PA. (LAT 40 11 50 LONG 075 40 10)											
NOV , 1975 05...	.05	.02	1	0	0	0	20	5	50	3	10
01472065 - PIGEON CREEK NEAR PORTERS MILL, PA. (LAT 40 11 27 LONG 075 38 10)											
NOV , 1975 05...	.05	.02	1	0	0	0	80	4	30	3	10
01472080 - PIGEON CREEK NEAR PARKER FORD, PA. (LAT 40 12 03 LONG 075 37 10)											
NOV , 1975 05...	.05	.03	0	0	0	0	40	1	30	4	10
01472109 - STONY RUN NEAR SPRING CITY, PA. (LAT 40 10 11 LONG 075 34 45)											
NOV , 1975 04...	.33	.28	1	0	0	0	10	6	50	2	10
01472110 - STONY RUN AT SPRING CITY, PA. (LAT 40 10 01 LONG 075 32 57)											
NOV , 1975 05...	.25	.22	1	0	0	0	40	3	30	3	20
01472126 - FRENCH CREEK NEAR TRYTHALL, PA. (LAT 40 12 00 LONG 075 45 53)											
OCT , 1975 30...	.03	.00	1	0	0	0	190	10	60	1	10
01472129 - FRENCH CREEK NEAR KNAURERTOWN, PA. (LAT 40 11 09 LONG 075 45 28)											
NOV , 1975 10...	.05	.01	1	0	0	0	250	3	130	6	10
01472138 - FRENCH CREEK NEAR COVENTRYVILLE, PA. (LAT 40 10 14 LONG 075 41 50)											
NOV , 1975 04...	.02	.00	1	0	0	0	190	6	30	2	10
01472140 - S BR FRENCH CR AT COVENTRYVILLE, PA. (LAT 40 09 18 LONG 075 42 52)											
NOV , 1975 04...	.02	.01	1	0	0	0	100	4	30	2	10
01472154 - FRENCH CREEK NEAR PUGHTOWN, PA. (LAT 40 09 14 LONG 075 38 25)											
NOV , 1975 04...	.02	.01	0	0	0	0	180	4	20	1	20

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ANALYSES OF SAMPLES COLLECTED AT WATER-QUALITY PARTIAL-RECORD STATIONS

DATE	TIME	SPE- CIFIC CON- DUCT- ANCE (MICRO- MHOS)	PH (UNITS)	TEMPER- ATURE (DEG C)	DIS- SOLVED OXYGEN (MG/L)	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)	DIS- SOLVED PO- TAS- SIUM (K) (MG/L)	RICAR- BONATE (HCO3) (MG/L)
01472161 - FRENCH CREEK AT PHOENIXVILLE, PA. (LAT 40 08 07 LONG 075 31 05)												
NOV , 1975 07...	0915	240	7.6	15.5	10.4	88	38	23	7.4	9.7	2.0	61
01472170 - PICKERING CREEK NEAR EAGLE, PA. (LAT 40 04 43 LONG 075 39 14)												
NOV , 1975 03...	0845	190	7.4	11.0	11.9	74	34	21	5.2	6.0	2.0	49
01472174 - PICKERING CREEK NEAR CHESTER SPRINGS, PA. (LAT 40 05 22 LONG 075 37 50)												
NOV , 1975 03...	1000	190	7.4	11.5	10.4	72	28	19	6.0	6.0	2.0	54
01472188 - PICKERING CREEK AT CHARLESTOWN, PA. (LAT 40 06 05 LONG 075 34 17)												
NOV , 1975 03...	1245	190	7.8	14.0	12.0	71	28	19	5.6	6.9	2.1	52
01472191 - PICKERING CREEK NEAR PHOENIXVILLE, PA. (LAT 40 06 33 LONG 075 31 42)												
NOV , 1975 03...	1400	200	7.3	15.0	11.6	74	32	19	6.5	7.0	2.1	51

DATE	TIME	CODE FOR AGENCY COL- LECTING SAMPLE	SPE- CIFIC CON- DUCT- ANCE (MICRO- MHOS)	TEMPER- ATURE (DEG C)	TUR- BID- ITY (JTU)	HARD- NESS (CA, MG) (MG/L)	MINERAL ACIDITY (METHYL ORANGE) AS CACO3 (MG/L)	ACIDITY CO2 AS CACO3 (MG/L)	DIS- SOLVED CAL- CIUM (CA) (MG/L)	DIS- SOLVED MAG- NE- SIUM (MG) (MG/L)	ALKA- LITY AS CACO3 (MG/L)	DIS- SOLVED SULFATE (SO4) (MG/L)
01472820 - EAST BR PERKIOMEN CREEK AT SCHWENKSVILLE, PA. (LAT 40 15 29 LONG 075 26 29)												
OCT , 1975												
15...	1345	9813	220	18.0	2	93	0	0	26	6.0	80	42
JAN , 1976												
22...	1230	9813	290	.0	3	102	0	0	28	8.0	66	58
FEB												
17...	1400	9813	180	8.0	70	91	0	0	18	3.5	46	30
MAY												
12...	0800	9813	420	16.0	4	90	0	0	31	3.0	90	44
AUG												
26...	0815	9813	600	23.0	2	140	0	0	37	11	114	46
01473140 - SKIPPACK CREEK AT ARCOLA, PA. (LAT 40 09 01 LONG 075 26 46)												
OCT , 1975												
09...	1200	9813	280	14.0	1	83	--	0	28	3.2	78	40
JAN , 1976												
12...	1400	9813	240	.0	4	78	0	0	24	4.0	46	42
FEB												
17...	1215	9813	250	8.0	--	97	0	0	24	11	54	38
MAY												
17...	1130	9813	600	21.0	4	150	0	0	34	16	102	38
AUG												
19...	1230	9813	700	24.0	6	118	0	0	42	3.0	110	34

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ANALYSES OF SAMPLES COLLECTED AT WATER-QUALITY PARTIAL-RECORD STATIONS

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 (RESI- DUE AT 180 C) (MG/L)	DIS- SOLVED SOLIDS (SUM OF CONSTI- TUENTS) (MG/L)	TOTAL 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)
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01472161 - FRENCH CREEK AT PHOENIXVILLE, PA. (LAT 40 08 07 LONG 075 31 05)

NOV , 1975 07...	0	50	2.5	34	13	11	149	131	2.1	.00	.73	.73
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01472170 - PICKERING CREEK NEAR EAGLE, PA. (LAT 40 04 43 LONG 075 39 14)

NOV , 1975 03...	0	40	3.1	14	14	17	118	104	2.0	.01	.66	.67
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01472174 - PICKERING CREEK NEAR CHESTER SPRINGS, PA. (LAT 40 05 22 LONG 075 37 50)

NOV , 1975 03...	0	44	3.4	16	11	17	117	104	1.8	.00	.49	.49
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01472188 - PICKERING CREEK AT CHARLESTOWN, PA. (LAT 40 06 05 LONG 075 34 17)

NOV , 1975 03...	0	43	1.3	16	15	17	115	108	1.4	.00	.47	.47
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01472191 - PICKERING CREEK NEAR PHOENIXVILLE, PA. (LAT 40 06 33 LONG 075 31 42)

NOV , 1975 03...	0	42	4.1	17	15	16	125	108	1.4	.00	.66	.66
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DATE	DIS- SOLVED CHLO- RIDE (CL) (MG/L)	TOTAL FLUO- RIDE (F) (MG/L)	TOTAL FILT- RABLE RESIDUE (MG/L)	TOTAL NON- FILT- RABLE RESIDUE (MG/L)	TOTAL RESI- DUE (MG/L)	TOTAL NITRATE (N) (MG/L)	TOTAL NITRITE (N) (MG/L)	TOTAL AMMONIA NITRO- GEN (N) (MG/L)	TOTAL PHOS- PHORUS (P) (MG/L)	TOTAL IRON (FE) (UG/L)	TOTAL ORGANIC CARBON (C) (MG/L)	METHY- LENE BLUE ACTIVE SUB- STANCE (MG/L)
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01472820 - EAST BR PERKIOMEN CREEK AT SCHWENKSVILLE, PA. (LAT 40 15 29 LONG 075 26 29)

OCT , 1975 15...	28	--	276	--	--	1.2	.03	.05	.35	50	19	.02
JAN , 1976 22...	44	--	256	22	--	3.3	.11	.77	.67	20	--	--
FEB 17...	34	--	210	188	--	2.3	.06	.45	1.0	3050	--	.00
MAY 12...	40	.1	246	10	256	1.3	.10	.12	.61	150	--	.00
AUG 26...	52	.1	286	<5	--	.59	.02	.06	.96	110	--	.03

01473140 - SKIPPACK CREEK AT ARCOLA, PA. (LAT 40 09 01 LONG 075 26 46)

OCT , 1975 09...	45	--	270	--	--	3.5	.06	.13	.44	<10	5.0	--
JAN , 1976 12...	38	--	272	0	--	4.3	.06	.61	.41	160	--	.00
FEB 17...	50	--	246	128	--	3.1	.11	.80	.88	1860	--	.00
MAY 17...	82	.2	320	12	332	1.6	.11	.16	1.4	300	--	.00
AUG 19...	100	.2	370	8	--	3.0	.05	.11	.85	350	--	.00

DELAWARE RIVER BASIN

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ANALYSES OF SAMPLES COLLECTED AT WATER-QUALITY PARTIAL-RECORD STATIONS

DATE	TOTAL PHOS- PHORUS (P) (MG/L)	TOTAL ORTHO PHOS- PHORUS (P) (MG/L)	DIS- SOLVED CAD- MIUM (CD) (UG/L)	DIS- SOLVED CHRO- MIUM (CR) (UG/L)	DIS- SOLVED COBALT (CO) (UG/L)	DIS- SOLVED COPPER (CU) (UG/L)	DIS- SOLVED IRON (FE) (UG/L)	DIS- SOLVED LEAD (PB) (UG/L)	DIS- SOLVED MAN- GANESE (MN) (UG/L)	DIS- SOLVED NICKEL (NI) (UG/L)	DIS- SOLVED ZINC (ZN) (UG/L)
01472161 - FRENCH CREEK AT PHOENIXVILLE, PA. (LAT 40 08 07 LONG 075 31 05)											
NOV , 1975 07...	.06	.04	1	0	0	0	110	12	80	5	10
01472170 - PICKERING CREEK NEAR EAGLE, PA. (LAT 40 04 43 LONG 075 39 14)											
NOV , 1975 03...	.02	.01	0	0	0	10	60	2	50	3	10
01472174 - PICKERING CREEK NEAR CHESTER SPRINGS, PA. (LAT 40 05 22 LONG 075 37 50)											
NOV , 1975 03...	.02	.00	0	0	0	0	20	1	40	3	10
01472188 - PICKERING CREEK AT CHARLESTOWN, PA. (LAT 40 06 05 LONG 075 34 17)											
NOV , 1975 03...	.03	.02	1	0	2	10	100	3	30	3	10
01472191 - PICKERING CREEK NEAR PHOENIXVILLE, PA. (LAT 40 06 33 LONG 075 31 42)											
NOV , 1975 03...	.03	.02	0	0	0	0	40	1	20	2	10

DELAWARE RIVER BASIN

ANALYSES OF SAMPLES COLLECTED AT WATER-QUALITY PARTIAL-RECORD STATIONS

DATE	TIME	SPE- CIFIC CON- DUCT- ANCE (MICRO- MHOS)	PH (UNITS)	TEMPER- ATURE (DEG C)	DIS- SOLVED OXYGEN (MG/L)	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)	DIS- SOLVED PO- TAS- SIUM (K) (MG/L)	BICAR- BONATE (HCO3) (MG/L)
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01473167 - LITTLE VALLEY CR NR VALLEY FORGE, PA. (LAT 40 03 51 LONG 075 28 22)

NOV , 1975	11...	0900	480	7.1	10.1	11.6	190	54	48	17	24	2.7	166
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01473168 - VALLEY CREEK NR VALLEY FORGE, PA. (LAT 40 04 08 LONG 075 28 25)

NOV , 1975	11...	1030	520	8.1	11.5	11.0	240	47	48	28	20	3.0	229
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DATE	TIME	CODE FOR AGENCY COL- LECTING SAMPLE	SPE- CIFIC CON- DUCT- ANCE (MICRO- MHOS)	TEMPER- ATURE (DEG C)	TUR- BID- ITY (JTU)	HARD- NESS (CA, MG) (MG/L)	MINERAL ACIDITY (METHYL ORANGE) AS CAC03 (MG/L)	ACIDITY CO2 AS CAC03 (MG/L)	DIS- SOLVED CAL- CIUM (CA) (MG/L)	DIS- SOLVED MAG- NE- SIUM (MG) (MG/L)	ALKA- LINITY AS CAC03 (MG/L)
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01473170 - VALLEY CR AT VALLEY FORGE STATE PARK, PA. (LAT 40 04 53 LONG 075 27 25)

OCT , 1975	15...	0920	9813	330	14.0	5	220	0	0	43	28	174
JAN , 1976	07...	0900	9813	310	3.0	6	168	0	0	42	15	176
FEB	19...	1200	9813	360	9.0	25	144	0	0	48	6.0	156
MAY	17...	0900	9813	500	17.0	20	150	0	0	48	7.5	166
AUG	18...	1400	9813	500	21.0	8	235	0	0	40	33	174

01474010 - SCHUYLKILL R AT FALLS BRIDGE, PHILADELPHIA, PA. (LAT 40 01 00 LONG 075 11 52)

FEB , 1976	25...	1030	9813	430	7.0	7	192	0	0	24	32	54
MAY	13...	1000	9813	400	--	5	127	0	0	33	11	68
JUN	22...	0945	9813	480	27.0	9	138	0	0	41	8.2	78
JUL	27...	1315	9813	500	--	6	172	0	0	42	4.0	90

01475470 - DARBY CREEK AT UPPER DARBY, PA. (LAT 39 56 04 LONG 075 18 00)

DEC , 1975	09...	0930	9813	250	6.0	3	132	--	--	20	20	68
FEB , 1976	25...	0930	9813	240	6.0	3	150	0	0	22	23	62
MAY	18...	1030	9813	240	19.0	30	38	0	0	15	<.5	40
AUG	23...	1300	9813	440	25.0	2	96	--	0	23	9.5	74

DELAWARE RIVER BASIN

ANALYSES OF SAMPLES COLLECTED AT WATER-QUALITY PARTIAL-RECORD STATIONS

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 (RESI- DUE AT 180 C) (MG/L)	DIS- SOLVED SOLIDS (SUM OF CONSTI- TUENTS) (MG/L)	TOTAL 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)
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01473167 - LITTLE VALLEY CR NR VALLEY FORGE, PA. (LAT 40 03 51 LONG 075 28 22)

NOV , 1975 11...	0	136	21	31	42	7.8	274	255	4.3	.01	.54	.55
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01473168 - VALLEY CREEK NR VALLEY FORGE, PA. (LAT 40 04 08 LONG 075 28 25)

NOV , 1975 11...	0	188	2.9	30	31	7.6	291	281	2.7	.01	.54	.55
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DATE	DIS- SOLVED SULFATE (SO4) (MG/L)	DIS- SOLVED CHLO- RIDE (CL) (MG/L)	TOTAL FLUO- RIDE (F) (MG/L)	TOTAL FILT- RABLE RESIDUE (MG/L)	TOTAL NON- FILT- RABLE RESIDUE (MG/L)	TOTAL RESI- DUE (MG/L)	TOTAL NITRATE (N) (MG/L)	TOTAL NITRITE (N) (MG/L)	TOTAL AMMONIA NITRO- GEN (N) (MG/L)	TOTAL PHOS- PHORUS (P) (MG/L)	TOTAL ALUM- INUM (AL) (UG/L)
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01473170 - VALLEY CR AT VALLEY FORGE STATE PARK, PA. (LAT 40 04 53 LONG 075 27 25)

OCT , 1975 15...	38	37	--	344	4	--	2.8	.06	.04	.08	--
JAN , 1976 07...	36	40	--	324	8	--	3.1	.04	.13	.19	--
FEB 19...	30	50	.1	484	92	--	2.0	.05	.14	.07	1160
MAY 17...	38	47	.1	316	32	348	2.1	.09	.12	.15	--
AUG 18...	28	44	.1	340	14	--	2.6	.06	.13	.10	--

01474010 - SCHUYLKILL R AT FALLS BRIDGE, PHILADELPHIA, PA. (LAT 40 01 00 LONG 075 11 52)

FEB , 1976 25...	44	18	.1	184	12	--	1.5	.08	.35	.19	--
MAY 13...	46	28	.2	280	6	286	2.5	.14	.30	.36	260
JUN 22...	84	32	.2	338	16	--	2.2	.08	.22	.35	290
JUL 27...	82	41	.2	316	22	--	2.8	.06	.09	.27	320

01475470 - DARBY CREEK AT UPPER DARBY, PA. (LAT 39 56 04 LONG 075 18 00)

DEC , 1975 09...	32	29	--	194	4	198	2.9	.17	1.7	1.7	--
FEB , 1976 25...	24	33	<.1	200	10	--	2.6	.10	.99	.65	--
MAY 18...	18	27	.1	174	58	232	1.5	.19	.26	.55	--
AUG 23...	32	43	<.1	220	20	--	3.2	.46	3.0	2.0	--

DELAWARE RIVER BASIN

ANALYSES OF SAMPLES COLLECTED AT WATER-QUALITY PARTIAL-RECORD STATIONS

DATE	TOTAL PHOS- PHORUS (P) (MG/L)	TOTAL ORTHO PHOS- PHORUS (P) (MG/L)	DIS- SOLVED CAD- MIUM (CD) (UG/L)	DIS- SOLVED CHRO- MIUM (CR) (UG/L)	DIS- SOLVED CORALT (CO) (UG/L)	DIS- SOLVED COPPER (CU) (UG/L)	DIS- SOLVED IRON (FF) (UG/L)	DIS- SOLVED LEAD (PR) (UG/L)	DIS- SOLVED MAN- GANESE (MN) (UG/L)	DIS- SOLVED NICKEL (NI) (UG/L)	DIS- SOLVED ZINC (ZN) (UG/L)
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01473167 - LITTLE VALLEY CR NR VALLEY FORGE, PA. (LAT 40 03 51 LONG 075 28 22)

NOV , 1975											
11...	.13	.11	1	0	1	0	10	3	20	5	30

01473168 - VALLEY CREEK NR VALLEY FORGE, PA. (LAT 40 04 08 LONG 075 28 25)

NOV , 1975											
11...	.07	.02	1	0	1	0	10	4	30	2	10

DATE	TOTAL CAD- MIUM (CD) (UG/L)	TOTAL CHRO- MIUM (CR) (UG/L)	TOTAL COPPER (CU) (UG/L)	TOTAL IRON (FE) (UG/L)	TOTAL LEAD (PR) (UG/L)	TOTAL MAN- GANESE (MN) (UG/L)	TOTAL NICKEL (NI) (UG/L)	TOTAL ZINC (ZN) (UG/L)	TOTAL ORGANIC CARBON (C) (MG/L)	PHENOLS (UG/L)	METHY- LENE BLUE ACTIVE SUB- STANCE (MG/L)
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01473170 - VALLEY CR AT VALLEY FORGE STATE PARK, PA. (LAT 40 04 53 LONG 075 27 25)

OCT , 1975											
15...	--	--	--	230	--	--	--	--	6.0	--	--
JAN , 1976											
07...	--	--	--	380	--	--	--	--	--	--	--
FEB											
19...	<3	10	<10	1240	<50	90	<10	10	--	--	.00
MAY											
17...	--	--	--	640	--	--	--	--	--	--	.00
AUG											
18...	--	--	--	770	--	--	--	--	--	--	.00

01474010 - SCHUYLKILL R AT FALLS BRIDGE, PHILADELPHIA, PA. (LAT 40 01 00 LONG 075 11 52)

FEB , 1976											
25...	--	--	<10	550	--	--	--	--	--	--	.00
MAY											
13...	<3	<10	<10	330	<50	230	10	60	--	<10	--
JUN											
22...	<3	10	20	450	<50	160	30	430	--	<10	.00
JUL											
27...	<3	20	10	280	<50	130	10	110	--	<10	.00

01475470 - DARBY CREEK AT UPPER DARBY, PA. (LAT 39 56 04 LONG 075 18 00)

DEC , 1975											
09...	--	--	--	280	--	--	--	--	--	--	.00
FEB , 1976											
25...	--	--	--	340	--	--	--	--	--	--	.00
MAY											
18...	--	--	--	2180	--	--	--	--	--	--	.00
AUG											
23...	--	--	--	240	--	--	--	--	--	--	.00

DELAWARE RIVER BASIN

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ANALYSES OF SAMPLES COLLECTED AT WATER-QUALITY PARTIAL-RECORD STATIONS

DATE	TIME	SPE- CIFIC CON- DUCT- ANCE (MICRO- MHOS)	PH (UNITS)	TEMPER- ATURE (DEG C)	DIS- SOLVED OXYGEN (MG/L)	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 PO- TAS- SIUM (K) (MG/L)	BICAR- BONATE (HCO3) (MG/L)	
01475830 - EAST BRANCH CRUM CREEK NEAR PAOLI, PA. (LAT 40 00 28 LONG 075 27 55)												
NOV , 1975 10...	1030	180	7.5	16.0	9.6	63	22	13	7.3	8.5	2.1 50	
01475840 - WEST BRANCH CRUM CREEK NEAR PAOLI, PA. (LAT 39 59 52 LONG 075 27 38)												
OCT , 1975 31...	1415	180	7.6	8.5	12.4	68	25	14	8.0	8.3	1.8 52	
01476430 - RIDLEY CREEK NEAR GOSHENVILLE, PA. (LAT 39 59 26 LONG 075 32 38)												
OCT , 1975 31...	0900	170	7.0	6.5	11.8	54	24	11	6.4	7.6	1.6 36	
01476435 - RIDLEY CREEK NEAR DUTTON MILL, PA. (LAT 39 58 50 LONG 075 31 00)												
OCT , 1975 31...	1045	160	7.3	7.0	12.1	56	26	12	6.3	6.8	1.6 37	
DATE	TIME	CODE FOR AGENCY COL- LECTING SAMPLE	SPE- CIFIC CON- DUCT- ANCE (MICRO- MHOS)	TEMPER- ATURE (DEG C)	TUR- BID- ITY (JTU)	CHEM- ICAL OXYGEN DEMAND (HIGH LEVEL) (MG/L)	HARD- NESS (CA, MG) (MG/L)	MINERAL ACIDITY (METHYL ORANGE) AS CAC03 (MG/L)	ACIDITY C02 AS CAC03 (MG/L)	DIS- SOLVED CAL- CIUM (CA) (MG/L)	DIS- SOLVED MAG- NE- SIUM (MG) (MG/L)	ALKA- LITY AS CAC03 (MG/L)
01476510 - RIDLEY CREEK NR GRADYVILLE, PA. (LAT 39 52 28 LONG 075 22 56)												
OCT , 1975 30...	1000	9813	150	13.0	3	0	69	0	0	14	8.0	44
JAN , 1976 07...	1000	9813	150	1.0	5	--	70	0	0	12	9.5	46
FEB 25...	0915	9813	200	5.0	2	--	64	0	0	12	8.5	36
MAY 18...	1005	9813	190	19.0	25	--	35	0	0	12	1.0	36
AUG 23...	1130	9813	270	24.0	2	--	75	0	0	19	--	44

DELAWARE RIVER BASIN

ANALYSES OF SAMPLES COLLECTED AT WATER-QUALITY PARTIAL-RECORD STATIONS

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 (RESI- DUE AT 180 C) (MG/L)	DIS- SOLVED SOLIDS (SUM OF CONSTI- TUENTS) (MG/L)	TOTAL 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)
01475830 - EAST BRANCH CRUM CREEK NEAR PAOLI, PA. (LAT 40 00 28 LONG 075 27 55)												
NOV , 1975 10...	0	41	2.5	11	14	11	106	92	2.7	.00	.69	.69
01475840 - WEST BRANCH CRUM CREEK NEAR PAOLI, PA. (LAT 39 59 52 LONG 075 27 38)												
OCT , 1975 31...	0	43	2.1	14	12	15	110	99	2.3	.00	.54	.54
01476430 - RIDLEY CREEK NEAR GOSHENVILLE, PA. (LAT 39 59 26 LONG 075 32 38)												
OCT , 1975 31...	0	30	5.8	14	12	11	89	82	2.5	.00	.58	.58
01476435 - RIDLEY CREEK NEAR DUTTON MILL, PA. (LAT 39 58 50 LONG 075 31 00)												
OCT , 1975 31...	0	30	3.0	13	11	13	100	82	2.7	.09	.68	.77
DATE	DIS- SOLVED SULFATE (SO4) (MG/L)	DIS- SOLVED CHLO- RIDE (CL) (MG/L)	TOTAL FLUO- RIDE (F) (MG/L)	TOTAL FILT- RABLE RESIDUE (MG/L)	TOTAL NON- FILT- RABLE RESIDUE (MG/L)	TOTAL RESI- DUE (MG/L)	TOTAL NITRATE (N) (MG/L)	TOTAL NITRITE (N) (MG/L)	TOTAL AMMONIA NITRO- GEN (N) (MG/L)	TOTAL PHOS- PHORUS (P) (MG/L)	TOTAL IRON (FE) (UG/L)	METHY- LENE BLUE ACTIVE SUB- STANCE (MG/L)
01476510 - RIDLEY CREEK NR GRADYVILLE, PA. (LAT 39 52 28 LONG 075 22 56)												
OCT , 1975 30...	16	18	--	154	0	--	2.6	.09	.23	.30	380	.05
JAN , 1976 07...	24	19	--	134	6	--	2.7	.05	.35	.21	340	.00
FEB 25...	16	20	.1	132	2	--	1.7	.05	.21	.17	310	.00
MAY 18...	16	18	.1	152	46	198	2.2	.12	.20	.37	1400	.00
AUG 23...	22	26	.2	150	6	--	3.5	.24	.10	.81	350	.00

DELAWARE RIVER BASIN

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ANALYSES OF SAMPLES COLLECTED AT WATER-QUALITY PARTIAL-RECORD STATIONS

DATE	TOTAL PHOS- PHORUS (P) (MG/L)	TOTAL ORTHO PHOS- PHORUS (P) (MG/L)	DIS- SOLVED CAD- MIUM (CD) (UG/L)	DIS- SOLVED CHRO- MIUM (CR) (UG/L)	DIS- SOLVED COBALT (CO) (UG/L)	DIS- SOLVED COPPER (CU) (UG/L)	DIS- SOLVED IRON (FE) (UG/L)	DIS- SOLVED LEAD (PB) (UG/L)	DIS- SOLVED MANG- ANESE (MN) (UG/L)	DIS- SOLVED NICKEL (NI) (UG/L)	DIS- SOLVED ZINC (ZN) (UG/L)
01475830 - EAST BRANCH CRUM CREEK NEAR PAOLI, PA. (LAT 40 00 28 LONG 075 27 55)											
NOV , 1975 10...	.02	.00	1	<10	0	0	100	4	20	2	10
01475840 - WEST BRANCH CRUM CREEK NEAR PAOLI, PA. (LAT 39 59 52 LONG 075 27 38)											
OCT , 1975 31...	.01	.01	0	0	0	10	100	8	20	3	10
01476430 - RIDLEY CREEK NEAR GOSHENVILLE, PA. (LAT 39 59 26 LONG 075 32 38)											
OCT , 1975 31...	.09	.07	1	0	0	10	120	3	70	4	10
01476435 - RIDLEY CREEK NEAR DUTTON MILL, PA. (LAT 39 58 50 LONG 075 31 00)											
OCT , 1975 31...	.06	.03	0	0	0	10	60	4	50	3	30

DELAWARE RIVER BASIN

ANALYSES OF SAMPLES COLLECTED AT WATER-QUALITY PARTIAL-RECORD STATIONS

DATE	TIME	SPE- CIFIC CON- DUCT- ANCE (MICRO- MHOS)	PH (UNITS)	TEMPER- ATURE (DEG C)	DIS- SOLVED OXYGEN (MG/L)	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 PO- TAS- SIUM (K) (MG/L)	BICAR- BONATE (HCO3) (MG/L)
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01476790 - CHESTER CREEK NEAR WEST CHESTER, PA. (LAT 39 59 49 LONG 075 35 40)

NOV , 1975	03...	1500	200	6.6	14.5	9.9	65	40	14	7.3	10	1.5	30
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01476830 - CHESTER CREEK NEAR MILLTOWN, PA. (LAT 39 58 21 LONG 075 32 57)

OCT , 1975	31...	0945	230	7.6	8.0	13.4	83	36	19	8.7	9.1	3.6	58
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01478120 - WHITE CLAY CREEK NEAR AVONDALE, PA. (LAT 39 49 39 LONG 075 46 52)

NOV , 1975	06...	1100	280	7.9	10.5	12.3	120	42	29	12	6.4	2.6	97
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01478190 - WHITE CLAY CREEK NEAR WICKERTON, PA. (LAT 39 47 44 LONG 075 49 27)

NOV , 1975	06...	1245	170	7.8	13.0	12.0	58	24	14	5.6	6.4	2.9	41
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01478220 - W BR WHITE CLAY CR NR CHESTERVILLE, PA. (LAT 39 45 56 LONG 075 47 47)

NOV , 1975	06...	1330	130	8.0	13.0	11.9	41	19	11	3.4	5.7	3.0	27
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DATE	TIME	CODE FOR AGENCY COL- LECTING SAMPLE	SPE- CIFIC CON- DUCT- ANCE (MICRO- MHOS)	TEMPER- ATURE (DEG C)	TUR- BID- ITY (JTU)	HARD- NESS (CA,MG) (MG/L)	MINERAL ACIDITY (METHYL ORANGE) AS CAC03 (MG/L)	ACIDITY C02 AS CAC03 (MG/L)
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01478240 - WHITE CLAY CREEK NEAR STRICKERSVILLE, PA. (LAT 39 44 54 LONG 075 46 12)

NOV , 1975	17...	1115	9813	130	7.0	1	73	0	0
FEB , 1976	27...	1100	9813	120	3.0	21	64	0	0
MAY	05...	1130	9813	150	12.0	1	49	0	0
AUG	30...	1330	9813	250	20.0	2	93	0	0

DATE	TIME	SPE- CIFIC CON- DUCT- ANCE (MICRO- MHOS)	PH (UNITS)	TEMPER- ATURE (DEG C)	DIS- SOLVED OXYGEN (MG/L)	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 PO- TAS- SIUM (K) (MG/L)	BICAR- BONATE (HCO3) (MG/L)
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01479780 - RED CLAY CREEK NEAR KENNETT SQUARE, PA. (LAT 39 50 13 LONG 075 43 33)

NOV , 1975	06...	1030	240	7.5	10.5	11.6	95	33	22	9.8	7.0	3.3	76
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01479800 - RED CLAY CREEK NEAR FIVE POINT, PA. (LAT 39 49 11 LONG 075 41 29)

NOV , 1975	06...	0900	240	7.6	10.5	12.5	98	42	24	9.3	8.0	3.3	69
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ANALYSES OF SAMPLES COLLECTED AT WATER-QUALITY PARTIAL-RECORD STATIONS

DATE	CAR- BONATE (CO3) (MG/L)	ALKA- LINITY AS CAC03 (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 (RESI- DUE AT 180 C) (MG/L)	DIS- SOLVED SOLIDS (SUM OF CONSTI- TUENTS) (MG/L)	TOTAL 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)
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01476790 - CHESTER CREEK NEAR WEST CHESTER, PA. (LAT 39 59 49 LONG 075 35 40)

NOV , 1975 03...	0	25	12	13	24	7.7	119	92	4.5	.00	.54	.54
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01476830 - CHESTER CREEK NEAR MILLTOWN, PA. (LAT 39 58 21 LONG 075 32 57)

OCT , 1975 31...	0	48	2.3	19	18	13	138	119	2.7	.03	.71	.74
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01478120 - WHITE CLAY CRFEK NEAR AVONDALE, PA. (LAT 39 49 39 LONG 075 46 52)

NOV , 1975 06...	0	80	2.0	23	14	13	162	148	4.3	.00	.53	.53
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01478190 - WHITE CLAY CREEK NEAR WICKERTON, PA. (LAT 39 47 44 LONG 075 49 27)

NOV , 1975 06...	0	34	1.0	10	12	11	93	82	4.3	.01	.72	.73
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01478220 - W BR WHITE CLAY CR NR CHESTERVILLE, PA. (LAT 39 45 56 LONG 075 47 47)

NOV , 1975 06...	0	22	.4	12	9.3	11	86	69	2.9	.00	.56	5.6
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DATE	DIS- SOLVED CAL- CIUM (CA) (MG/L)	DIS- SOLVED MAG- NE- SIUM (MG) (MG/L)	ALKA- LINITY AS CAC03 (MG/L)	DIS- SOLVED SULFATE (SO4) (MG/L)	DIS- SOLVED CHLO- RIDE (CL) (MG/L)	DIS- SOLVED SOLIDS (RESI- DUE AT 180 C) (MG/L)	TOTAL FLUO- RINE (F) (MG/L)	TOTAL FILT- RABLE RESIDUE (MG/L)	TOTAL NON- FILT- RABLE RESIDUE (MG/L)	TOTAL RESI- DUE (MG/L)
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01478240 - WHITE CLAY CREEK NEAR STRICKERSVILLE, PA. (LAT 39 44 54 LONG 075 46 12)

NOV , 1975 17...	13	9.5	34	10	12	--	126	6	132	
FEB , 1976 23...	11	9.0	28	20	12	--	140	10	--	
MAY 05...	12	4.5	38	12	12	<.1	88	2	--	
AUG 30...	23	8.7	64	14	17	<.1	188	<5	--	

DATE	CAR- BONATE (CO3) (MG/L)	ALKA- LINITY AS CAC03 (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 (RESI- DUE AT 180 C) (MG/L)	DIS- SOLVED SOLIDS (SUM OF CONSTI- TUENTS) (MG/L)	TOTAL 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)
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01479780 - RED CLAY CREEK NEAR KENNETT SQUARE, PA. (LAT 39 50 13 LONG 075 43 33)

NOV , 1975 06...	0	62	3.8	22	11	13	118	126	4.3	.01	.64	.65
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01479800 - RED CLAY CREEK NEAR FIVE POINT, PA. (LAT 39 49 11 LONG 075 41 29)

NOV , 1975 06...	0	57	2.8	29	15	14	117	137	3.5	.01	.78	.79
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DELAWARE RIVER BASIN

ANALYSES OF SAMPLES COLLECTED AT WATER-QUALITY PARTIAL-RECORD STATIONS

DATE	TOTAL PHOS- PHORUS (P) (MG/L)	TOTAL ORTHO PHOS- PHORUS (P) (MG/L)	DIS- SOLVED CAD- MIUM (CD) (UG/L)	DIS- SOLVED CHRO- MIUM (CR) (UG/L)	DIS- SOLVED COBALT (CO) (UG/L)	DIS- SOLVED COPPER (CU) (UG/L)	DIS- SOLVED IRON (FE) (UG/L)	DIS- SOLVED LEAD (PB) (UG/L)	DIS- SOLVED MAN- GANESE (MN) (UG/L)	DIS- SOLVED NICKEL (NI) (UG/L)	DIS- SOLVED ZINC (ZN) (UG/L)
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01476790 - CHESTER CREEK NEAR WEST CHESTER, PA. (LAT 39 59 49 LONG 075 35 40)

NOV , 1975											
03...	.02	.01	0	0	3	10	30	0	40	2	20

01476830 - CHESTER CREEK NEAR MILLTOWN, PA. (LAT 39 58 21 LONG 075 32 57)

OCT , 1975											
31...	.05	.02	1	0	0	10	100	2	120	2	10

01478120 - WHITE CLAY CREEK NEAR AVONDALE, PA. (LAT 39 49 39 LONG 075 46 52)

NOV , 1975											
06...	.02	.01	1	0	0	0	20	2	20	1	10

01478190 - WHITE CLAY CREEK NEAR WICKERTON, PA. (LAT 39 47 44 LONG 075 49 27)

NOV , 1975											
06...	.17	.15	0	0	0	0	60	2	20	1	10

01478220 - W BR WHITE CLAY CR NR CHESTERVILLE, PA. (LAT 39 45 56 LONG 075 47 47)

NOV , 1975											
06...	.01	.00	0	0	1	0	90	2	40	1	10

DATE	TOTAL NITRATE (N) (MG/L)	TOTAL NITRITE (N) (MG/L)	TOTAL AMMONIA NITRO- GEN (N) (MG/L)	TOTAL PHOS- PHORUS (P) (MG/L)	TOTAL IRON (FE) (UG/L)	TOTAL ORGANIC CARBON (C) (MG/L)	PHENOLS (UG/L)	METHY- LENE BLUE ACTIVE SUB- STANCE (MG/L)
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01478240 - WHITE CLAY CREEK NEAR STRICKERSVILLE, PA. (LAT 39 44 54 LONG 075 46 12)

NOV , 1975								
17...	2.8	.07	.03	.10	280	3.0	0	--
FEB , 1976								
2...	2.7	.04	.24	.16	580	--	--	--
MAY								
05...	2.8	.04	.11	.11	180	--	--	.00
AUG								
30...	3.2	.08	.10	--	80	--	--	.00

DATE	TOTAL PHOS- PHORUS (P) (MG/L)	TOTAL ORTHO PHOS- PHORUS (P) (MG/L)	DIS- SOLVED CAD- MIUM (CD) (UG/L)	DIS- SOLVED CHRO- MIUM (CR) (UG/L)	DIS- SOLVED COBALT (CO) (UG/L)	DIS- SOLVED COPPER (CU) (UG/L)	DIS- SOLVED IRON (FE) (UG/L)	DIS- SOLVED LEAD (PB) (UG/L)	DIS- SOLVED MAN- GANESE (MN) (UG/L)	DIS- SOLVED NICKEL (NI) (UG/L)	DIS- SOLVED ZINC (ZN) (UG/L)
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01479780 - RED CLAY CREEK NEAR KENNETT SQUARE, PA. (LAT 39 50 13 LONG 075 43 33)

NOV , 1975											
06...	.05	.03	0	0	1	0	50	1	40	2	10

01479800 - RED CLAY CREEK NEAR FIVE POINT, PA. (LAT 39 49 11 LONG 075 41 29)

NOV , 1975											
06...	.03	.01	1	0	0	0	40	1	30	3	10

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ANALYSES OF SAMPLES COLLECTED AT WATER-QUALITY PARTIAL-RECORD STATIONS

DATE	TIME	CODE FOR AGENCY COL- LECTING SAMPLE	SPE- CIFIC CON- DUCT- ANCE (MICRO- MHOS)	TEMPER- ATURE (DEG C)	TUR- BID- ITY (JTU)	HARD- NESS (CA,MG) (MG/L)	MINERAL ACIDITY (METHYL ORANGE) AS CAC03 (MG/L)	ACIDITY C02 AS CAC03 (MG/L)
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01479820 - RED CLAY CREEK NEAR KENNETT SQUARE, PA. (LAT 39 49 00 LONG 075 41 31)

NOV , 1975								
17...	1215	9813	190	8.0	2	97	0	0
FEB , 1976								
23...	1040	9813	190	4.0	14	126	0	0
MAY								
05...	1100	9813	280	11.0	2	88	0	0
JUN								
22...	0845	9813	700	24.0	6	140	0	0
AUG								
30...	1030	9813	300	18.0	3	100	0	0

DATE	TIME	SPE- CIFIC CON- DUCT- ANCE (MICRO- MHOS)	PH (UNITS)	TEMPER- ATURE (DEG C)	DIS- SOLVED OXYGEN (MG/L)	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 PO- TAS- SIUM (K) (MG/L)	BICAR- BONATE (HC03) (MG/L)
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01480430 - W BR BRANDYWINE CR NR COATESVILLE, PA. (LAT 40 00 17 LONG 075 49 31)

OCT , 1975											
30...	0900	180	7.6	11.5	9.6	70	32	18	6.0	5.9	2.5 46

01480629 - BUCK RUN NEAR DOE RUN, PA. (LAT 39 55 44 LONG 075 49 47)

NOV , 1975											
11...	1430	190	7.6	12.0	12.1	67	32	16	6.5	7.5	3.4 42

01480632 - DOE RUN NEAR SPRINGDALE, PA. (LAT 39 54 21 LONG 075 49 42)

NOV , 1975											
11...	1330	140	7.5	13.0	11.2	50	25	12	4.8	4.4	4.0 30

DATE	TIME	CODE FOR AGENCY COL- LECTING SAMPLE	SPE- CIFIC CON- DUCT- ANCE (MICRO- MHOS)	TEMPER- ATURE (DEG C)	TUR- BID- ITY (JTU)	CHEM- ICAL OXYGEN DEMAND (HIGH LEVEL) (MG/L)	HARD- NESS (CA,MG) (MG/L)	MINERAL ACIDITY (METHYL ORANGE) AS CAC03 (MG/L)	ACIDITY C02 AS CAC03 (MG/L)	DIS- SOLVED CAL- CIUM (CA) (MG/L)	DIS- SOLVED MAG- NE- SIUM (MG) (MG/L)	ALKA- LINITY AS CAC03 (MG/L)
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01480640 - WEST BRANCH BRANDYWINE CREEK AT WAWASET, PA. (LAT 39 55 34 LONG 075 39 47)

OCT , 1975											
21...	1100	9813	140	13.0	11	24	66	0	0	15	7.0 46
JAN , 1976											
22...	1030	9813	200	.0	3	--	87	0	0	16	11 42
FEB											
23...	0930	9813	120	5.0	22	--	78	0	0	14	5.5 36
MAY											
05...	0930	9813	210	12.0	2	--	88	0	0	16	12 50
AUG											
18...	1245	9813	230	21.0	1	--	74	0	0	19	6.5 48

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ANALYSES OF SAMPLES COLLECTED AT WATER-QUALITY PARTIAL-RECORD STATIONS

DATE	DIS-SOLVED CALCIUM (CA) (MG/L)	DIS-SOLVED MAGNESIUM (MG)	ALKALINITY AS CACO3 (MG/L)	DIS-SOLVED SULFATE (SO4) (MG/L)	DIS-SOLVED CHLORIDE (CL) (MG/L)	TOTAL FLUORIDE (F) (MG/L)	TOTAL FILT-RABLE RESIDUE (MG/L)	TOTAL NON-FILT-RABLE RESIDUE (MG/L)	TOTAL RESIDUE (MG/L)
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01479820 - RED CLAY CREEK NEAR KENNETT SQUARE, PA. (LAT 39 49 00 LONG 075 41 31)

NOV , 1975									
17...	23	9.5	58	18	19	--	200	8	208
FEB , 1976									
23...	22	17	56	32	18	--	192	16	--
MAY									
05...	24	7.0	70	26	19	.1	174	2	--
JUN									
22...	41	9.0	122	84	83	.1	430	6	--
AUG									
30...	--	--	72	20	23	<.1	216	6	--

DATE	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)	DIS-SOLVED SILICA (SIO2) (MG/L)	DIS-SOLVED SOLIDS (RESI-DUE AT 180 C) (MG/L)	DIS-SOLVED SOLIDS (SUM OF CONSTITUENTS) (MG/L)	TOTAL NITRATE (N) (MG/L)	TOTAL AMMONIA NITROGEN (N) (MG/L)	TOTAL ORGANIC NITROGEN (N) (MG/L)	TOTAL KJEL-DAHL NITROGEN (N) (MG/L)
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01480430 - W BR BRANDYWINE CR NR COATESVILLE, PA. (LAT 40 00 17 LONG 075 49 31)

OCT , 1975												
30...	0	38	1.8	16	12	14	115	97	2.7	.01	.66	.67

01480629 - BUCK RUN NEAR DOE RUN, PA. (LAT 39 55 44 LONG 075 49 47)

NOV , 1975												
11...	0	34	1.7	14	17	9.2	123	95	3.6	.02	.84	.86

01480632 - DOE RUN NEAR SPRINGDALE, PA. (LAT 39 54 21 LONG 075 49 42)

NOV , 1975												
11...	0	25	1.5	9.9	11	9.1	89	70	4.1	.03	.82	.85

DATE	DIS-SOLVED SULFATE (SO4) (MG/L)	DIS-SOLVED CHLORIDE (CL) (MG/L)	TOTAL FLUORIDE (F) (MG/L)	TOTAL FILT-RABLE RESIDUE (MG/L)	TOTAL NON-FILT-RABLE RESIDUE (MG/L)	TOTAL NITRATE (N) (MG/L)	TOTAL NITRITE (N) (MG/L)	TOTAL AMMONIA NITROGEN (N) (MG/L)	TOTAL PHOSPHORUS (P) (MG/L)	TOTAL IRON (FE) (UG/L)	PHENOLS (UG/L)	METHYLENE BLUE ACTIVE SUBSTANCE (MG/L)
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01480640 - WEST BRANCH BRANDYWINE CREEK AT WAWASET, PA. (LAT 39 55 34 LONG 075 39 47)

OCT , 1975												
21...	22	14	.2	158	--	2.5	.06	.08	.14	340	--	--
JAN , 1976												
22...	30	38	.1	158	22	4.5	.12	.21	.16	330	<10	--
FEB												
23...	18	17	.1	140	26	3.2	.06	.16	.19	600	<10	.00
MAY												
05...	16	19	.2	120	0	2.7	.05	.10	.17	270	<10	--
AUG												
18...	12	20	.3	142	<5	2.6	.04	.11	.13	170	<10	.00

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ANALYSES OF SAMPLES COLLECTED AT WATER-QUALITY PARTIAL-RECORD STATIONS

DATE	TOTAL NITRATE (N) (MG/L)	TOTAL NITRITE (N) (MG/L)	TOTAL AMMONIA NITRO- GEN (N) (MG/L)	TOTAL PHOS- PHORUS (P) (MG/L)	TOTAL IRON (FE) (UG/L)	TOTAL ORGANIC CARBON (C) (MG/L)	PHENOLS (UG/L)	METHY- LENE BLUE ACTIVE SUB- STANCE (MG/L)
01479820 - RED CLAY CREEK NEAR KENNETT SQUARE, PA. (LAT 39 49 00 LONG 075 41 31)								
NOV , 1975								
17...	3.9	.10	.08	.20	330	6.0	0	--
FEB , 1976								
23...	3.7	.05	.18	.22	540	--	--	--
MAY								
05...	4.6	.11	.38	.35	270	--	--	.00
JUN								
22...	1.2	.06	.18	2.5	590	--	--	.00
AUG								
30...	3.8	.07	.07	.57	290	--	<10	.00

DATE	TOTAL PHOS- PHORUS (P) (MG/L)	TOTAL ORTHO PHOS- PHORUS (P) (MG/L)	DIS- SOLVED CAD- MIUM (CD) (UG/L)	DIS- SOLVED CHRO- MIUM (CR) (UG/L)	DIS- SOLVED COBALT (CO) (UG/L)	DIS- SOLVED COPPER (CU) (UG/L)	DIS- SOLVED IRON (FE) (UG/L)	DIS- SOLVED LEAD (PP) (UG/L)	DIS- SOLVED MAN- GANESE (MN) (UG/L)	DIS- SOLVED NICKEL (NI) (UG/L)	DIS- SOLVED ZINC (ZN) (UG/L)
01480430 - W BR BRANDYWINE CR NR COATESVILLE, PA. (LAT 40 00 17 LONG 075 49 31)											
OCT , 1975											
30...	.04	.02	1	0	0	0	200	4	40	2	20
01480629 - RUCK RUN NEAR DOE RUN, PA. (LAT 39 55 44 LONG 075 49 47)											
NOV , 1975											
11...	.11	.07	1	0	1	0	160	80	50	2	30
01480632 - DOE RUN NEAR SPRINGDALE, PA. (LAT 39 54 21 LONG 075 49 42)											
NOV , 1975											
11...	.08	.02	2	0	1	0	110	4	10	6	10

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ANALYSES OF SAMPLES COLLECTED AT WATER-QUALITY PARTIAL-RECORD STATIONS

DATE	TIME	SPE- CIFIC CON- DUCT- ANCE (MICRO- MHOS)	PH (UNITS)	TEMPER- ATURE (DEG C)	DIS- SOLVED OXYGEN (MG/L)	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)	DIS- SOLVED PO- TAS- SIUM (K) (MG/L)	BICAR- BONATE (HCO3) (MG/L)
01480640 - WEST BRANCH BRANDYWINE CREEK AT WAWASET, PA. (LAT 39 55 34 LONG 075 39 47)												
OCT , 1975												
30...	0940	200	7.5	13.0	9.8	67	26	16	6.6	7.8	2.9	50
01480647 - E BR BRANDYWINE CR NR STRUBLE DAM, PA. (LAT 40 06 05 LONG 075 51 40)												
OCT , 1975												
29...	1545	200	7.4	16.0	9.0	65	23	16	6.0	5.4	4.3	51
01480648 - EAST BRANCH BRANDYWINE CREEK NEAR CUPOLA, PA. (LAT 40 05 41 LONG 075 51 14)												
OCT , 1975												
30...	0815	160	7.5	11.5	9.5	62	19	16	5.3	5.4	3.3	52
01480653 - EAST BR BRANDYWINE CR AT GLENMOORE, PA. (LAT 40 05 48 LONG 075 46 44)												
OCT , 1975												
29...	1445	200	7.5	14.5	11.6	71	34	18	6.4	6.1	2.6	46
01480656 - INDIAN RUN NEAR SPRINGTON, PA. (LAT 40 04 30 LONG 075 46 57)												
NOV , 1975												
10...	1330	140	7.3	15.5	10.1	47	10	14	3.0	6.0	1.7	46
01480903 - VALLEY CREEK AT MULLSTEINS MEADOWS, PA. (LAT 39 58 31 LONG 075 39 48)												
NOV , 1975												
10...	0800	300	7.6	15.5	9.2	130	37	31	12	9.1	2.2	110
DATE	TIME	CODE FOR AGENCY COL- LECTING SAMPLE	SPE- CIFIC CON- DUCT- ANCE (MICRO- MHOS)	TEMPER- ATURE (DEG C)	TUR- BID- ITY (JTU)	CHEM- ICAL OXYGEN DEMAND (HIGH LEVEL) (MG/L)	HARD- NESS (CA, MG) (MG/L)	MINERAL ACIDITY (METHYL ORANGE) AS CAC03 (MG/L)				
01480940 - EAST BR BRANDYWINE CR NR SCONEMLLTOWN, PA. (LAT 39 56 20 LONG 075 38 13)												
OCT , 1975												
21...	1030	9813	160	12.0	5	20	69	0				
JAN , 1976												
22...	1100	9813	210	.0	4	--	100	0				
FEB												
2...	0910	9813	150	4.0	9	--	94	0				
MAY												
05...	0950	9813	260	11.0	1	--	114	0				
AUG												
18...	1115	9813	290	21.0	3	--	93	0				

DELAWARE RIVER BASIN

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ANALYSES OF SAMPLES COLLECTED AT WATER-QUALITY PARTIAL-RECORD STATIONS

DATE	CAR- BONATE (CO3) (MG/L)	ALKA- LINITY AS CAC03 (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 (RESI- DUE AT 180 C) (MG/L)	DIS- SOLVED SOLIDS (SUM OF CONSTI- TUENTS) (MG/L)	TOTAL 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)
01480640 - WEST BRANCH BRANDYWINE CREEK AT WAWASET, PA. (LAT 39 55 34 LONG 075 39 47)												
OCT , 1975 30...	0	41	2.5	19	14	10	124	101	3.2	.00	.70	.70
01480647 - E BR BRANDYWINE CR NR STRUBLE DAM, PA. (LAT 40 06 05 LONG 075 51 40)												
OCT , 1975 29...	0	42	3.2	13	11	11	130	93	2.7	.18	1.2	1.4
01480648 - EAST BRANCH BRANDYWINE CREEK NEAR CUPOLA, PA. (LAT 40 05 41 LONG 075 51 14)												
OCT , 1975 30...	0	43	2.6	12	10	15	115	93	2.8	.08	1.2	1.3
01480653 - EAST BR BRANDYWINE CR AT GLENMOORE, PA. (LAT 40 05 48 LONG 075 46 44)												
OCT , 1975 29...	0	38	2.3	25	10	17	129	108	3.2	.18	.86	1.0
01480656 - INDIAN RUN NEAR SPRINGTON, PA. (LAT 40 04 30 LONG 075 46 57)												
NOV , 1975 10...	0	38	3.7	7.3	7.4	19	106	82	2.7	.03	.94	.93
01480903 - VALLEY CREEK AT MULLSTEINS MEADOWS, PA. (LAT 39 58 31 LONG 075 39 48)												
NOV , 1975 10...	0	90	4.4	24	17	6.1	173	156	2.7	.00	.67	.67
DATE	ACIDITY CO2 AS CAC03 (MG/L)	DIS- SOLVED CAL- CIUM (CA) (MG/L)	DIS- SOLVED MAG- NE- SIUM (MG) (MG/L)	ALKA- LINITY AS CAC03 (MG/L)	DIS- SOLVED SULFATE (SO4) (MG/L)	DIS- SOLVED CHLO- RIDE (CL) (MG/L)	TOTAL FLUO- RIDE (F) (MG/L)	TOTAL FILT- RAHLE RESIDUE (MG/L)	TOTAL NON- FILT- RAHLE RESIDUE (MG/L)			
01480940 - EAST BR BRANDYWINE CR NR SCONNELLTOWN, PA. (LAT 39 56 20 LONG 075 38 13)												
OCT , 1975 21...	0	19	5.0	54	26	13	--	158	--			
JAN , 1976 22...	0	20	12	56	30	35	--	172	16			
FEB 23...	0	17	12	44	24	19	<.1	152	14			
MAY 05...	0	21	15	72	20	20	<.1	160	0			
AUG 18...	0	23	8.7	74	16	24	.1	184	<5			

DELAWARE RIVER BASIN

ANALYSES OF SAMPLES COLLECTED AT WATER-QUALITY PARTIAL-RECORD STATIONS

DATE	TOTAL PHOS- PHORUS (P) (MG/L)	TOTAL ORTHO PHOS- PHORUS (P) (MG/L)	DIS- SOLVED CAD- MIUM (CD) (UG/L)	DIS- SOLVED CHRO- MIUM (CR) (UG/L)	DIS- SOLVED COHALT (CO) (UG/L)	DIS- SOLVED COPPER (CU) (UG/L)	DIS- SOLVED IRON (FF) (UG/L)	DIS- SOLVED LEAD (PR) (UG/L)	DIS- SOLVED MAN- GANESE (MN) (UG/L)	DIS- SOLVED NICKEL (NI) (UG/L)	DIS- SOLVED ZINC (ZN) (UG/L)
01480640 - WEST BRANCH BRANDYWINE CREEK AT WAWASET, PA. (LAT 39 55 34 LONG 075 39 47)											
OCT , 1975 30...	.14	.09	2	0	1	0	80	22	60	10	10
01480647 - E BR BRANDYWINE CR NR STRUBLE DAM, PA. (LAT 40 06 05 LONG 075 51 40)											
OCT , 1975 29...	.06	.01	16	0	0	0	600	90	410	3	30
01480648 - EAST BRANCH BRANDYWINE CREEK NEAR CUPOLA, PA. (LAT 40 05 41 LONG 075 51 14)											
OCT , 1975 30...	.06	.01	1	0	0	0	430	3	180	2	10
01480653 - EAST BR BRANDYWINE CR AT GLENMOORE, PA. (LAT 40 05 48 LONG 075 46 44)											
OCT , 1975 29...	.05	.01	1	0	0	0	180	4	40	2	150
01480656 - INDIAN RUN NEAR SPRINGTON, PA. (LAT 40 04 30 LONG 075 46 57)											
NOV , 1975 10...	.11	.05	3	0	1	0	150	10	30	2	20
01480903 - VALLEY CREEK AT MULLSTEINS MEADOWS, PA. (LAT 39 58 31 LONG 075 39 48)											
NOV , 1975 10...	.09	.07	0	0	0	0	20	2	20	3	20
DATE	TOTAL NITRATE (N) (MG/L)	TOTAL NITRITE (N) (MG/L)	TOTAL AMMONIA NITRO- GEN (N) (MG/L)	TOTAL PHOS- PHORUS (P) (MG/L)	TOTAL IRON (FE) (UG/L)	TOTAL ORGANIC CARBON (C) (MG/L)	PHENOLS (UG/L)	METHY- LENE BLUE ACTIVE SUB- STANCE (MG/L)			
01480940 - EAST BR BRANDYWINE CR NR SCONEILLTOWN, PA. (LAT 39 56 20 LONG 075 38 13)											
OCT , 1975 21...	1.9	.04	.07	.12	200	6.0	--	.00			
JAN , 1976 22...	2.7	.09	.23	.20	210	--	<10	.00			
FEB 23...	2.0	.04	.02	.19	340	--	<10	.00			
MAY 05...	2.7	.06	.11	.19	280	--	<10	.00			
AUG 18...	1.9	.08	.18	.25	340	--	<10	.00			

ANALYSES OF SAMPLES COLLECTED AT WATER-QUALITY PARTIAL-RECORD STATIONS

DATE	TIME	SPE- CIFIC CON- DUCT- ANCE (MICRO- MHOS)	PH (UNITS)	TEMPER- ATURE (DEG C)	DIS- SOLVED OXYGEN (MG/L)	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 PO- TAS- SIUM (NA) (MG/L)	DIS- SOLVED PO- TAS- SIUM (K) (MG/L)	BICAR- BONATE (HCO3) (MG/L)
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01480950 - EAST BRANCH BRANDYWINE CREEK AT WAWASET, PA. (LAT 39 55 31 LONG 075 38 55)

OCT , 1975	30...	1045	250	7.5	13.0	10.3	87	26	21	8.3	9.5	2.6	74
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01494900 - ELK CREEK AT ELKVIEW, PA. (LAT 39 48 45 LONG 075 54 04)

NOV , 1975	12...	1245	130	7.0	10.5	11.5	46	23	12	4.0	5.0	2.7	28
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01494950 - ELK CREEK NEAR OXFORD, PA. (LAT 39 46 45 LONG 075 55 27)

NOV , 1975	12...	1400	150	7.0	10.5	11.8	49	24	12	4.5	6.8	3.2	30
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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 (RESI- DUE AT 180 C) (MG/L)	DIS- SOLVED SOLIDS (SUM OF CONSTI- TUENTS) (MG/L)	TOTAL 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)
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01480950 - EAST BRANCH BRANDYWINE CREEK AT WAWASET, PA. (LAT 39 55 31 LONG 075 38 55)

OCT , 1975	30...	0	61	3.7	23	15	12	142	128	2.3	.06	.67	.73
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01494900 - ELK CREEK AT ELKVIEW, PA. (LAT 39 48 45 LONG 075 54 04)

NOV , 1975	12...	0	23	4.5	7.2	9.8	11	91	66	4.5	.01	.59	.60
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01494950 - ELK CREEK NEAR OXFORD, PA. (LAT 39 46 45 LONG 075 55 27)

NOV , 1975	12...	0	25	4.8	7.9	13	11	92	73	4.5	.01	.70	.71
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DATE	TOTAL PHOS- PHORUS (P) (MG/L)	TOTAL ORTHO PHOS- PHORUS (P) (MG/L)	DIS- SOLVED CAD- MIUM (CD) (UG/L)	DIS- SOLVED CHRO- MIUM (CR) (UG/L)	DIS- SOLVED COBALT (CO) (UG/L)	DIS- SOLVED COPPER (CU) (UG/L)	DIS- SOLVED IRON (FF) (UG/L)	DIS- SOLVED LEAD (PP) (UG/L)	DIS- SOLVED MAN- GANESE (MN) (UG/L)	DIS- SOLVED NICKEL (NI) (UG/L)	DIS- SOLVED ZINC (ZN) (UG/L)
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01480950 - EAST BRANCH BRANDYWINE CREEK AT WAWASET, PA. (LAT 39 55 31 LONG 075 38 55)

OCT , 1975	30...	.27	.19	1	0	0	0	40	12	20	2	10
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01494900 - ELK CREEK AT ELKVIEW, PA. (LAT 39 48 45 LONG 075 54 04)

NOV , 1975	12...	.09	.07	1	<10	0	0	30	5	30	2	10
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01494950 - ELK CREEK NEAR OXFORD, PA. (LAT 39 46 45 LONG 075 55 27)

NOV , 1975	12...	.13	.09	1	0	0	0	50	7	30	3	20
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GROUND-WATER LEVELS

BERKS COUNTY

402615075530501. Local number, BE 623.

LOCATION.--Lat 40°26'15", long 75°53'05", Hydrologic Unit 02040203, at Wesner Road, Blandon.

Owner: Maiden Creek Township Water Authority.

AQUIFER.--Leithsville Formation of Middle Cambrian age.

WELL CHARACTERISTICS.--Drilled unused artesian well, diameter 8 in (20 cm), depth 385 ft (117 m), casing information not available.

DATUM.--Altitude of land-surface datum is 430 ft (131 m). Measuring point: Top of casing, 1.30 ft (39 cm) above land-surface datum.

REMARKS.--None.

PERIOD OF RECORD.--January 1975 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level, 118.55 ft (36.134 m) below land-surface datum, Apr. 15, 1975; lowest, 134.16 ft (40.892 m) below land-surface datum, Sept. 30, 1976.

WATER LEVEL, IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976
MAXIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	123.16	122.59	122.34	---	---	119.25	120.94	123.51	126.98	129.61	131.79	133.05
10	123.39	123.03	122.98	---	---	119.87	120.99	124.13	127.42	129.98	131.75	133.32
15	123.88	122.27	123.57	---	---	120.18	121.38	124.82	127.92	130.34	131.81	133.62
20	123.55	121.50	124.24	---	---	120.27	121.87	125.35	128.51	130.70	132.01	133.62
25	122.30	121.64	---	---	118.64	120.66	122.28	125.95	128.74	131.16	132.33	133.98
EOM	122.34	121.81	---	121.69	118.89	121.17	123.00	126.50	129.13	131.42	132.69	134.16

WTR YEAR 1976 MAX 118.62 FEB 26, 1976 MIN 134.16 SEPT 30, 1976

BUCKS COUNTY

402643075150501. Local number, BK 929.

LOCATION.--Lat 40°26'43", long 75°15'05", Hydrologic Unit 02040105, at Nockamixon State Park.

Owner: U.S. Geological Survey.

AQUIFER.--Shale of Brunswick Formation of Upper Triassic age.

WELL CHARACTERISTICS.--Drilled observation artesian well, diameter 6 in (15 cm), depth 116 ft (35.4 m), cased to 27 ft (8.2 m), open hole.

DATUM.--Altitude of land-surface datum is 460 ft (140 m). Measuring point: Top of casing, 1.05 ft (32 cm) above land-surface datum.

REMARKS.--None.

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

EXTREMES FOR PERIOD OF RECORD.--Highest water level, 44.21 ft (13.475 m) below land-surface datum, April 3, 1975; lowest, 58.67 ft (17.883 m) below land-surface datum, Oct. 26, 1970.

WATER LEVEL, IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976
MAXIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	47.27	46.22	46.53	47.21	46.94	46.11	45.57	46.98	48.46	49.81	51.46	52.50
10	47.14	46.21	46.50	46.96	46.76	46.40	45.54	46.99	48.36	49.98	51.75	52.63
15	47.00	46.02	46.96	46.86	47.34	46.24	45.81	47.20	48.83	50.14	51.69	53.05
20	46.85	45.65	47.73	47.00	46.73	45.80	45.96	47.30	49.01	50.64	52.02	52.83
25	46.31	45.70	48.41	47.30	46.13	45.80	46.25	47.74	49.21	50.85	52.08	53.36
EOM	46.25	46.16	47.41	46.86	46.09	46.16	46.80	47.83	49.33	50.98	52.52	53.30

WTR YEAR 1976 MAX 45.34 NOV 21, 1975 MIN 53.39 SEPT 24, 1976

CARBON COUNTY

359

410123075425401. Local number, CB 104.

LOCATION.--Lat 41°01'23", long 75°42'54", Hydrologic Unit 02040106, at Hickory Run State Park.

Owner: U.S. Geological Survey.

AQUIFER.--Shale of Lower Member of Mauch Chunk Formation of Upper Mississippian age.

WELL CHARACTERISTICS.--Drilled observation artesian well, diameter 6 in (15 cm), depth 125 ft (38.1 m), cased to 20 ft (6.1 m), open hole.

DATUM.--Altitude of land-surface datum is 1,290 ft (393 m). Measuring point: Top of casing, 3.00 ft (91 cm) above land-surface datum.

REMARKS.--None.

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

EXTREMES FOR PERIOD OF RECORD.--Highest water level, 21.10 ft (6.431 m) below land-surface datum Dec. 28, 1974; lowest, 83.51 ft (25.454 m) below land-surface datum, Nov. 8, 1972.

WATER LEVEL, IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976
MAXIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	48.74	41.90	40.26	42.01	27.32	41.33	34.66	42.02	46.70	---	54.11	55.97
10	51.43	46.18	43.81	43.81	32.88	44.96	38.15	42.85	---	---	---	---
15	51.06	31.94	47.22	46.86	38.39	46.38	43.17	46.19	---	43.13	---	---
20	37.30	32.10	50.67	48.98	33.68	44.88	47.45	41.74	---	46.49	---	---
25	30.41	33.81	53.92	52.07	33.21	45.42	51.27	38.53	54.33	50.21	46.04	66.58
EOM	36.42	36.83	44.88	24.76	36.57	43.57	46.94	43.40	55.01	53.59	51.54	65.64

WTR YEAR 1976 MAX 24.76 JAN 31, 1976 MIN 67.14 SEPT 27, 1976

CHESTER COUNTY

395450075485401. Local number, CH 10.

LOCATION.--Lat 39°54'50", long 75°48'54", Hydrologic Unit 02040205, at Route 841 and Route 82, Doe Run.

Owner: Robert J. Kleberg, Jr.

AQUIFER.--Cockeysville Marble of Paleozoic age.

WELL CHARACTERISTICS.--Drilled unused water-table well, diameter 6 in (15 cm), depth 34 ft (10.4 m), casing information not available.

DATUM.--Altitude of land-surface datum is 300 ft (91 m). Measuring point: Top of casing, 1.00 ft (30 cm) above land-surface datum.

REMARKS.--None.

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

EXTREMES FOR PERIOD OF RECORD.--Highest water level, 8.28 ft (2.524 m) below land-surface datum, March 30, 1958; lowest, 16.22 ft (4.944 m) below land-surface datum, Nov. 3, 1963.

WATER LEVEL, IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976
MAXIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	11.09	11.38	11.88	10.65	---	11.03	11.15	12.45	12.90	13.62	13.59	13.98
10	11.39	11.57	12.03	10.85	10.63	11.29	11.46	12.62	13.14	13.75	13.69	14.12
15	11.46	10.89	12.14	10.66	10.71	11.09	11.80	12.76	13.32	13.38	13.57	14.20
20	10.39	11.20	12.27	11.20	10.55	11.29	12.01	12.86	13.42	13.60	13.68	14.18
25	10.64	11.44	12.45	11.60	10.50	11.50	12.23	13.01	13.41	13.65	13.84	14.26
EOM	11.11	11.68	11.80	10.08	10.75	11.72	12.41	13.15	13.54	13.43	13.93	14.31

WTR YEAR 1976 MAX 9.76 FEB 2, 1976 MIN 14.31 SEPT 29, 30, 1976

DELAWARE COUNTY

395040075341801. Local number, DE 3.

LOCATION.--Lat 39°50'40", long 75°34'18", Hydrologic Unit 02040205, at Birmingham Township.

Owner: Mrs. Hope W. Ebert

AQUIFER.--Gneiss of Wissahickon Formation (age uncertain, Lower Paleozoic to Precambrian).

WELL CHARACTERISTICS.--Dug unused water-table well, diameter 42 in (107 cm), depth 22 ft (6.7 m), cased with stone.

DATUM.--Altitude of land-surface datum is 260 ft (79 m). Measuring point: Top of concrete base, 1.8 ft (55 cm) above land-surface datum.

REMARKS.--None.

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

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 7.90 ft (2.408 m) below land-surface datum, Aug. 22, 1955; lowest measured, dry many times since 1964.

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	15.29	DEC 1	14.08	FEB 2	13.24	APR 5	14.84	JUN 7	15.76	AUG 2	16.84
13	15.19	8	14.29	9	13.14	12	14.93	14	15.88	9	16.99
20	15.03	15	14.55	16	13.58	19	15.01	21	16.00	16	17.12
27	14.91	22	14.86	23	13.98	26	15.14	28	16.14	23	17.25
NOV 3	14.78	29	15.08	MAR 1	14.23	MAY 3	15.27	JUL 5	16.28	30	17.38
10	14.83	JAN 5	14.45	8	14.42	10	15.43	12	16.42	SEP 6	17.51
17	14.51	12	13.81	15	14.58	17	15.53	19	16.56	13	17.66
24	14.17	19	13.84	22	14.68	24	15.60	26	16.70	20	17.80
--	----	26	14.10	29	14.74	31	15.68	--	----	27	17.96

WTR YEAR 1976 MAX 13.14 FEB 9, 1976 MIN 17.96 SEPT 27, 1976

LACKAWANNA COUNTY

411310075375501. Local number, LK 4.

LOCATION.--Lat 41°13'10", long 75°37'55", Hydrologic Unit 02040106, at Lackawanna State Forest.

Owner: Commonwealth of Pennsylvania.

AQUIFER.--Shale and sandstone of Catskill Formation of Upper Devonian age.

WELL CHARACTERISTICS.--Dug unused water-table well, diameter 36 in (91 cm), depth 10 ft (3.0 m).

DATUM.--Altitude of land-surface datum is 1,910 ft (582 m). Measuring point: Wooden cover, 0.4 ft (12 cm) above land-surface datum.

REMARKS.--None.

PERIOD OF RECORD.--June 1953 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 1.62 ft (49 cm) below land-surface datum, March 17, 1972; lowest measured, dry, October, November 1964.

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	3.57	DEC 5	3.53	FEB 6	3.55	APR 2	2.90	JUN 4	3.46	AUG 6	3.77
10	3.61	12	3.57	13	3.65	9	3.52	11	3.51	20	3.60
17	3.45	19	3.65	20	2.61	23	3.80	18	3.69	27	3.67
24	3.48	JAN 2	3.50	28	3.53	28	3.45	25	3.48	SEP 3	3.90
31	3.57	9	3.69	MAR 5	3.42	MAY 7	3.40	JUL 1	2.85	10	3.95
NOV 7	3.66	16	3.66	12	3.64	17	3.20	9	3.37	20	3.70
18	3.42	23	3.83	19	3.58	28	3.47	16	3.23	24	3.89
28	3.35	30	3.37	--	----	--	----	23	3.53	--	----
--	----	--	----	--	----	--	----	30	3.37	--	----

WTR YEAR 1976 MAX 2.61 FEB 20, 1976 MIN 3.95 SEPT 10, 1976

LEBANON COUNTY

361

402207076180801. Local number, LB 372.

LOCATION.--Lat 40°22'07", long 76°18'08", Hydrologic Unit 02040203, at Myerstown.

Owner: Kohl Brothers, Inc.

AQUIFER.--Dolomite of Ontelaunee Formation of Middle Ordovician age.

WELL CHARACTERISTICS.--Drilled unused artesian well, diameter 6 in (15 cm), depth 80 ft (24.4 m), casing information not available, open hole.

DATUM.--Altitude of land-surface datum is 444 ft (135 m). Measuring point: Top of casing, 3.5 ft (1.07 m) above land-surface datum.

REMARKS.--None.

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

EXTREMES FOR PERIOD OF RECORD.--Highest water level, 4.02 ft (1.225 m) below land-surface datum, Jan. 27, 1976; lowest, 10.51 ft (3.203 m) below land-surface datum, Nov. 27, 1974.

WATER LEVEL, IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976
MAXIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	6.65	7.66	7.67	7.36	6.45	7.40	7.45	8.48	8.58	6.55	7.49	8.11
10	7.08	7.75	7.90	7.74	6.70	7.64	7.79	8.72	8.91	6.92	6.83	8.30
15	7.36	6.42	8.01	7.48	6.96	7.41	8.03	8.75	9.05	7.45	6.81	8.52
20	6.60	6.94	8.20	7.80	6.88	7.59	8.20	8.40	8.83	7.83	7.32	8.19
25	6.90	7.28	8.37	---	7.05	7.86	8.29	8.61	8.57	8.28	7.55	8.50
EOM	7.36	7.44	7.81	6.27	7.20	8.03	8.49	8.68	7.05	6.92	7.92	8.66

WTR YEAR 1976 MAX 4.02 JAN 27, 1976

MIN 9.10 JUNE 16, 1976

LEHIGH COUNTY

403429075392401. Local number, LE 644.

LOCATION.--Lat 40°34'29", long 75°39'24", Hydrologic Unit 02040106, at Haafsville.

Owner: Charles J. Haaf.

AQUIFER.--Beekmantown Group of Middle Ordovician age.

WELL CHARACTERISTICS.--Drilled unused artesian well, diameter 10 in (25 cm), depth 184 ft (56.1 m), cased to 63 ft (19.2 m), open hole.

DATUM.--Altitude of land-surface datum is 470 ft (143 m). Measuring point: Top of plywood cover, 1.45 ft (44 cm) above land-surface datum.

REMARKS.--Water-quality records for 1973-75 are available in files of district office.

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

EXTREMES FOR PERIOD OF RECORD.--Highest water level, 36.65 ft (11.170 m) below land-surface datum, June 27, 1975; lowest, 93.42 ft (28.474 m) below land-surface datum, Feb. 6, 1971.

WATER LEVEL, IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976
MAXIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	49.40	46.71	47.22	49.14	45.53	45.52	46.39	---	56.02	---	---	69.81
10	50.09	47.20	47.88	49.34	45.54	46.02	46.85	---	56.99	---	---	70.35
15	50.68	46.00	48.51	49.35	45.69	45.71	47.65	---	58.13	---	---	70.97
20	48.05	45.63	49.50	49.35	45.35	45.72	48.23	---	58.90	---	---	70.92
25	45.94	45.89	50.15	---	44.84	46.35	49.11	54.29	59.74	---	68.41	71.83
EOM	46.30	46.25	49.61	46.41	44.88	47.12	50.25	55.09	---	---	69.25	72.17

WTR YEAR 1976 MAX 44.72 FEB 23, 1976

MIN 72.17 SEPT 30, 1976

LEHIGH COUNTY

403226075343001. Local number, LE 860.

LOCATION.--Lat 40°32'26", long 75°34'30", Hydrologic Unit 02040106, at Lower Macungie Township.

Owner: Paul Knepper.

AQUIFER.--Dolomite of Allentown Formation of Upper Cambrian age.

WELL CHARACTERISTICS.--Drilled observation artesian well, diameter 6 in (15 cm), depth 100 ft (30.5 m), cased to 58 ft (17.7 m), open hole.

DATUM.--Altitude of land-surface datum is 358 ft (109 m). Measuring point: Top of casing, 2.00 ft (61 cm) above land-surface datum.

REMARKS.--None.

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

EXTREMES FOR PERIOD OF RECORD.--Highest water level, 1.28 ft (39 cm) below land-surface datum, June 27, 1972; lowest, 10.46 ft (3.188 m) below land-surface datum, July 23, 1969.

WATER LEVEL, IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976
MAXIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	3.33	3.23	3.55	3.82	---	3.50	3.63	4.39	4.89	5.13	5.65	5.94
10	3.55	3.34	3.69	3.93	---	3.66	3.82	4.55	4.98	5.19	5.29	6.06
15	3.71	2.75	3.81	3.61	3.22	3.52	4.00	4.65	5.10	5.22	5.40	6.20
20	1.93	3.05	3.99	3.93	3.11	3.64	4.12	4.65	5.02	5.33	5.54	6.06
25	2.61	3.25	4.13	---	3.18	3.83	4.22	4.69	5.11	5.43	5.70	6.21
EOM	3.03	3.40	3.81	---	3.35	3.93	4.38	4.81	5.01	5.50	5.84	6.21

WTR YEAR 1976 MAX 1.93 OCT 20, 1975 MIN 6.21 SEPT 25, 26, 30, 1976

MONROE COUNTY

411223075234901. Local number, MO 190.

LOCATION.--Lat 41°12'23", long 75°23'49", Hydrologic Unit 02040106, at Tobyhanna State Park.

Owner: U.S. Geological Survey.

AQUIFER.--Sandstone of Catskill Formation of Upper Devonian age.

WELL CHARACTERISTICS.--Drilled observation artesian well, diameter 6 in (15 cm), depth 98 ft (29.9 m), cased to 59 ft (17.9 m), open hole.

DATUM.--Altitude of land-surface datum is 1,960 ft (597 m). Measuring point: Top of plywood cover, 2.57 ft (78 cm) above land-surface datum.

REMARKS.--None.

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

EXTREMES FOR PERIOD OF RECORD.--Highest water level, 7.09 ft (2.161 m) below land-surface datum, April 14, 1970; lowest, 15.15 ft (4.617 m) below land-surface datum, Oct. 14, 1970.

WATER LEVEL, IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976
MAXIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	10.49	9.84	9.31	---	9.03	8.69	8.60	9.13	10.25	9.21	11.03	11.81
10	10.72	9.82	9.40	---	9.50	9.30	9.15	9.59	10.21	9.59	9.85	12.18
15	10.21	8.23	9.57	---	9.72	9.20	9.67	9.92	10.73	9.93	9.80	12.56
20	8.50	8.73	---	---	8.22	9.37	10.03	9.13	11.07	10.19	10.31	12.02
25	8.63	8.78	---	11.10	8.34	9.42	10.33	9.53	10.62	10.58	10.97	12.20
EOM	9.40	8.83	---	8.91	8.59	8.95	9.76	10.09	10.67	10.54	11.43	11.66

WTR YEAR 1976 MAX 7.98 FEB 22, 1976 MIN 12.57 SEPT 16, 1976

MONTGOMERY COUNTY

303

400808075210401. Local number, MG 225.

LOCATION.--Lat 40°08'08", long 75°21'04", Hydrologic Unit 02040203, at Willow and Locust Streets, Norristown.
 Owner: Norristown State Hospital.

AQUIFER.--Sandstone of Stockton Formation of Upper Triassic age.

WELL CHARACTERISTICS.--Drilled unused artesian well, diameter 12 in (30 cm), depth 300 ft (91.4 m), casing information not available.

DATUM.--Altitude of land-surface datum is 165 ft (50.3 m). Measuring point: Top of casing, 0.75 ft (23 cm) above land-surface datum.

REMARKS.--None.

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

EXTREMES FOR PERIOD OF RECORD.--Highest water level, 12.62 ft (3.846 m) below land-surface datum, July 15, 1975; lowest, 60.23 ft (18.364 m) below land-surface datum, Nov. 5, 1963.

WATER LEVEL, IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 1975 TO SEPTMBER 1976
 MAXIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	29.20	32.77	22.63	19.67	18.72	18.73	19.69	22.46	24.51	26.45	31.61	30.55
10	30.00	33.73	22.64	19.04	18.02	19.27	20.07	22.93	24.86	26.87	36.59	30.64
15	30.70	32.57	22.87	18.90	18.19	18.99	20.62	23.35	25.35	26.95	38.87	30.85
20	31.39	29.35	23.61	---	18.20	19.07	---	23.58	25.70	27.03	31.71	32.08
25	30.21	23.77	24.21	---	18.08	19.26	---	23.86	26.05	27.01	30.80	37.57
EOM	31.62	22.83	22.78	22.34	18.38	19.90	22.31	24.29	26.38	36.30	30.51	32.52

WTR YEAR 1976 MAX 17.92 FEB 8, 1976 MIN 38.87 AUG 15, 1976

MONTGOMERY COUNTY

401310075181702. Local number, MG 884.

LOCATION.--Lat 40°13'10", long 75°18'17", Hydrologic Unit 02040203, at Upper Gwyned Township near West Point.
 Owner: Merck, Sharp, and Dohme, Inc.

AQUIFER.--Shale of Brunswick Formation of Upper Triassic age.

WELL CHARACTERISTICS.--Drilled unused artesian well, diameter 12 in (30 cm) to 10 in (25 cm), depth 600 ft (183 m), casing information not available.

DATUM.--Altitude of land-surface datum is 351 ft (107 m). Measuring point: Top of casing, 1.30 ft (40 cm) above land-surface datum.

REMARKS.--None.

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

EXTREMES FOR PERIOD OF RECORD.--Highest water level, 38.40 ft (11.704 m) below land-surface datum, June 30, 1972; lowest, 93.17 ft (28.398 m) below land-surface datum, Oct. 20, 1966.

WATER LEVEL, IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976
 MAXIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	61.97	55.44	59.58	60.43	61.55	60.74	59.12	61.69	64.68	68.34	71.81	75.17
10	60.38	56.72	59.83	60.98	61.24	60.34	59.53	61.98	65.21	68.75	72.66	75.75
15	58.41	58.03	60.20	---	61.45	59.40	60.04	62.60	65.99	69.27	73.14	76.36
20	56.40	58.61	61.01	---	61.21	59.50	60.23	63.05	66.71	69.76	73.50	76.82
25	54.80	59.36	61.01	---	60.72	59.55	60.55	63.49	67.23	70.50	73.97	77.21
EOM	53.84	59.25	59.59	61.85	60.79	59.16	61.35	64.08	67.81	71.11	74.62	77.50

WTR YEAR 1976 MAX 53.01 OCT 30, 1975 MIN 77.50 SEPT 30, 1976

NORTHAMPTON COUNTY

403618075203801. Local number, NP 85.

LOCATION.--Lat 40°36'18", long 75°20'38", Hydrologic Unit 02040106, at Bethlehem.

Owner: City of Bethlehem.

AQUIFER.--Dolomite of Tomstown Formation of Lower Cambrian age.

WELL CHARACTERISTICS.--Drilled observation artesian well, diameter 12 in (30 cm), depth 344 ft (105 m), cased to 73 ft (22.3 m), open hole.

DATUM.--Altitude of land-surface datum is 230 ft (70.1 m). Measuring point: Top of casing, 1.00 ft (30 cm) above land-surface datum.

REMARKS.--None.

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

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 0.33 ft (10 cm) below land-surface datum, Sept. 24, 1975; lowest measured, 3.99 ft (1.216 m) below land-surface datum, Feb. 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 20	1.63	DEC 18	3.30	FEB 25	2.57	APR 28	3.19	JUN 24	3.21	AUG 24	3.44
NOV 20	3.11	JAN 26	1.81	MAR 29	3.05	MAY 24	3.30	JUL 26	3.41	SEP 23	3.57

WTR YEAR 1976 MAX 1.63 OCT 20, 1976 MIN 3.57 SEPT 23, 1976

PHILADELPHIA COUNTY

395342075102101. Local number, PH 12.

LOCATION.--Lat 39°53'42", long 75°10'21", Hydrologic Unit 02040202, at Barracks and East Fourth Streets, Philadelphia. Owner: U.S. Naval Base.

AQUIFER.--Sand of Raritan Formation ("middle aquifer") of Upper Cretaceous age.

WELL CHARACTERISTICS.--Drilled observation artesian well, diameter 8 in (20 cm), depth 110 ft (34 m), cased to 94 ft (28.7 m), screened 94-104 ft (28.6-31.7 m).

DATUM.--Altitude of land-surface datum is 10.00 ft (3.05 m). Measuring point: Top of casing, 1.80 ft (55 cm) above land-surface datum.

REMARKS.--Mean daily fluctuation caused by tidal loading, 0.20 ft (6 cm).

PERIOD OF RECORD.--January 1952 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level, 16.55 ft (5.044 m) below land-surface datum, Nov. 8, 1972; lowest, 39.60 ft (12.070 m) below land-surface datum, July 20, 1955.

WATER LEVEL, IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976
MAXIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	17.37	17.36	17.42	17.99	18.21	17.69	18.56	18.52	18.34	18.37	17.95	17.91
10	17.00	17.39	16.93	17.91	17.93	17.70	18.21	18.62	18.18	18.35	18.11	17.89
15	16.80	17.48	17.09	17.78	18.26	17.81	18.03	18.50	18.17	18.12	17.94	18.25
20	16.64	17.40	17.71	17.79	18.15	17.90	17.79	18.40	18.23	18.16	18.16	17.91
25	16.81	17.39	17.94	---	17.98	17.79	17.79	18.36	18.13	17.95	18.30	18.23
EOM	17.45	17.60	17.33	17.71	17.96	18.05	18.37	18.19	18.02	17.59	18.17	18.04

WTR YEAR 1976 MAX 16.64 OCT 20, 1975 MIN 18.64 MAY 9, 1976

SCHUYLKILL COUNTY

365

404708076070701. Local number, SC 296.

LOCATION.--Lat 40°47'08", long 76°07'07", Hydrologic Unit 02040203, at Locust Lake State Park.

Owner: U.S. Geological Survey.

AQUIFER.--Mauch Chunk Formation of Lower Pennsylvanian age.

WELL CHARACTERISTICS.--Drilled observation artesian well, diameter 6 in (15 cm), depth 242 ft (73.8 m), cased to 40 ft (12.2 m), open hole.

DATUM.--Altitude of land-surface datum is 1,290 ft (393 m). Measuring point: Top of casing, 2.30 ft (70 cm) above land-surface datum.

REMARKS.--None.

PERIOD OF RECORD.--July 1975 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level, 32.32 ft (9.851 m) below land-surface datum, Aug. 27, 1975; lowest, 51.44 ft (15.679 m) below land-surface datum, Sept. 16, 1976.

WATER LEVEL, IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976
MAXIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	42.24	47.48	47.00	44.79	43.36	46.55	42.32	48.94	47.70	44.89	49.28	50.53
10	45.82	48.34	47.84	46.08	45.63	47.81	44.16	48.60	48.83	45.49	47.47	50.95
15	47.31	42.85	48.54	47.11	46.45	47.11	46.72	48.97	49.67	47.06	46.92	51.41
20	41.92	43.08	49.08	---	43.87	47.21	48.22	47.95	50.25	48.44	47.79	50.69
25	41.39	43.94	49.53	49.20	43.33	47.15	49.15	44.74	47.45	49.25	48.95	51.39
EOM	45.20	45.42	46.18	41.64	44.71	47.35	49.46	45.96	47.44	48.57	49.93	49.43

WTR YEAR 1976 MAX 39.05 OCT 1, 1975 MIN 51.44 SEPT 16, 1976

WAYNE COUNTY

414333075153201. Local number, WN 64.

LOCATION.--Lat 41°43'33", long 75°15'32", Hydrologic Unit 02040103, at State Game Land Number 159.

Owner: U.S. Geological Survey.

AQUIFER.--Sand and gravel of Glacial Outwash of Quarternary age.

WELL CHARACTERISTICS.--Drilled observation artesian well, diameter 6 in (15 cm), depth 52 ft (15.8 m), cased to 52 ft (15.8 m), open end.

DATUM.--Altitude of land-surface datum is 1,330 ft (405 m). Measuring point: Top of plywood cover, 2.57 ft (78 cm) above land-surface datum.

REMARKS.--None.

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

EXTREMES FOR PERIOD OF RECORD.--Highest water level, 7.88 ft (2.401 m) below land-surface datum, Nov. 17, 1972; lowest, 31.95 ft (9.738 m) below land-surface datum, Nov. 4, 5, 1970.

WATER LEVEL, IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976
MAXIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	26.85	26.22	25.00	26.22	26.30	23.54	23.51	24.54	25.95	25.11	27.49	27.70
10	27.10	26.78	25.48	26.48	26.54	23.79	24.12	24.55	26.39	25.53	26.42	28.09
15	26.68	25.67	25.75	26.67	---	24.47	25.15	24.60	27.01	26.11	25.25	28.52
20	24.75	25.21	26.20	---	---	24.81	26.00	24.01	27.63	25.81	26.06	28.44
25	24.85	24.52	26.73	---	---	24.22	26.56	23.74	26.28	26.57	27.03	28.54
EOM	25.55	24.50	26.19	---	---	24.54	25.69	24.99	25.65	27.28	27.42	28.08

WTR YEAR 1976 MAX 23.30 MARCH 7, 1976 MIN 28.57 SEPT 24, 1976

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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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