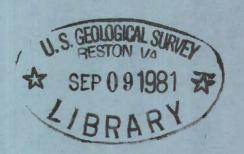
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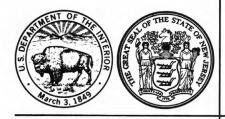
Volume 2. Delaware River Basin and Tributaries to Delaware Bay



U.S. GEOLOGICAL SURVEY WATER-DATA REPORT NJ-80-2
WATER YEAR 1980

Prepared in cooperation with the New Jersey Department of Environmental Protection and with other agencies

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Water Resources Data for New Jersey

Volume 2. Delaware River Basin and Tributaries to Delaware Bay

U.S. GEOLOGICAL SURVEY WATER-DATA REPORT NJ-80-2

Prepared in cooperation with the New Jersey Department of Environmental Protection and with other agencies

UNITED STATES DEPARTMENT OF THE INTERIOR

JAMES G. WATT, Secretary

GEOLOGICAL SURVEY

Doyle G. Frederick, Acting Director

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PREFACE

This report was prepared by the U.S. Geological Survey in cooperation with the State of New Jersey and with other agencies by personnel of the New Jersey district of the Water Resources Division under the supervision of D. E. Vaupel, District Chief, and J. E Biesecker, Regional Hydrologist, Northeastern Region.

This report is one of a series issued State by State under the general direction of Philip Cohen, Chief Hydrologist, U.S. Geological Survey, and R. J. Dingman, Assistant Chief Hydrologist for Scientific Publications and Data Management.

ta for New Jersey are in two volumes as follows:

Volume 1. Atlantic Slope Basins, Hudson River to Cape May Volume 2. Delaware River Basin and Tributaries to Delaware Bay

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INTRODUCTION

Water resources data for the 1980 water year for New Jersey consist of records of stage, discharge, and water quality of streams; stage, and contents of lakes and reservoirs; and water levels and water quality of ground water. This volume of the report contains discharge records for 27 gaging stations; tide summaries for 3 stations; stage and contents for 16 lakes and reservoirs; water quality for 59 surface water sites, and 95 wells; and water levels for 16 observation wells. Also included are data for 27 crest-stage partial-record stations; 7 tidal crest-stage gage and 19 low-flow partial-record stations. Locations of these sites are shown in figures 5, 6, and 7. Additional water data were collected at various sites, not part of the systematic data collection program, and are published as miscellaneous measurements. These data represent that part of the National Water Data System operated by the U.S. Geological Survey and cooperating State and Federal agencies in New Jersey.

Records of discharge or stage of streams, and contents or stage of lakes and reservoirs were first published in a series of U.S. Geological Survey water-supply papers entitled, "Surface Water Supply of the United States." Through water year 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, VA 22202.

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

Beginning with the 1971 water year, water data for streamflow, water quality, and ground water are published as an offical Survey report on a State-boundary basis. These offical 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 volume of the report is identified as "U.S. Geological Survey Water-Data Report NJ-30-2." These water-data reports are for sale, in paper copy or in microfiche by the National Technical Information Service, U.S. Department of Commerce, Springfield, VA 22161.

Additional information, including current prices, for ordering specific reports may be obtained from the district chief at the address given on the back of the title page or by telephone (609) 989-2162.

COOPERATION

This report was prepared by the U.S. Geological Survey under cooperative agreement with the following organizations:

New Jersey Department of Environmental Protection, Jerry F. English, commissioner.

Division of Water Resources, Arnold Schiffman, director.

Division of Fish, Game and Wildlife, Russell A. Cookingham, director.

New Jersey Department of Agriculture, Phillip Alampi, secretary.

Division of Rural Resources, Richard D. Chumney, director.

Delaware River Basin Commission, Gerald M. Hansler, executive director.

North Jersey District Water Supply Commission, Dean C. Noll, chief engineer.

Passaic Valley Water Commission, W.E. Inhoffer, general superintendent and chief engineer.

County of Bergen, V.J. Nunno, director of Public Works and E.R. Ranuska, county engineer.

County of Camden, Joseph T. Patermo, director of Camden County Planning Board.

County of Morris, James Plante, chairman of Morris County Municipal Utilities Authority.

County of Somerset, Thomas E. Decker, county engineer, and Thomas Harris, administrative engineer.

Township of West Windsor, Larry Ellery, chairman of Environmental Commission.

Assistance in the form of funds was given by the Corps of Engineers, U.S. Army, in collecting records for 50 surface water stations, and for the collection of sediment records at four stream-sampling stations, and by the U.S. Environmental Protection Agency for the collection of chemical analyses at four stream-sampling stations. In addition, several stations were operated fully or partially from funds appropriated directly to the Geological Survey. Assistance was also furnished by the National Weather Service and the National Ocean Survey.

Basic water-quality data collected at many sampling stations on the main stem of the Delaware River and estuary--an interstate stream--included in this report were collected in cooperation with the following additional agencies:

City of Philadelphia Water Department, W. J. Marrazzo, commissioner. Pennsylvania Department of Environmental Resources, Clifford L. Jones, secretary. Delaware Geological Survey, Robert R. Jordan, State geologist. Delaware River Master, Francis T. Schaefer.

The following organizations aided in collecting records:

Municipalities of Atlantic City, Jersey City, Newark, New Brunswick and Spotswood; American Cyanamid Co.; Commonwealth Water Co.; Elizabethtown Water Co.; Ewing-Lawrence Sewerage Authority: Hackensack Water Co.; Johns-Manville Products Corp.; and Monmouth Consolidated Water Co.

Organizations that supplied data are acknowledged in station descriptions.

ACKNOWLEDGMENTS

The water resources data for New Jersey were processed and prepared for publication under the supervision of John J. Murphy Chief, Hydrologic Records Section, by R. D. Schopp, G. R. Kish, E. W. Moshinsky, F. L. Schaefer, E. A. Pustay, S. J. Perry, and I. C. H. Santana. The data were collected, computed and processed by other personnel as follows:

K.	C.	Angebrandt	М.	J.	De Luca	c.	E.	Gurney	W.	J.	Pisch
Н.	Bi	vens	E.	Do	rr	D.	Α.	Harriman	G.	J.	Pheasant
J.	В.	Campbell	J.	F.	Dudek	J.	J.	Hochreiter	C.	L.	Qualls
G.	L.	Centinaro	J.	T.	Fisher	W.	D.	Jones III	N.	Ri	vera
T.	Α.	Chepiga	T.	٧.	Fusillo	P.	D.	Kammler	Α.	J.	Velnich
R.	S.	Cole	В.	D.	Gillespie	Α.	Α.	Meng	R.	L.	Walker

HYDROLOGIC CONDITIONS

Water year 1980 began with streamflow above the normal range throughout New Jersey. February precipitation was only 35 percent of normal causing streams to drop below normal. Above normal rainfall during March and April kept runoff normal or above normal through May. Starting in May, precipitation was below average for the rest of the water year for most of the State. Runoff declined steadily from May through September. On September 27 the Governor of New Jersey ordered mandatory water rationing in 114 northern New Jersey communities due to declining reservoir levels.

Monthly and annual discharges are compared with medians at three representative gaging stations in figures 2 and 3. The streamflow stations chosen for illustration were South Branch Raritan River near High Bridge and Great Egg Harbor River at Folsom, which reflect runoff conditions in the northern and southern parts of the State, respectively, and Delaware River at Trenton in which there is widespread interest.

Streamflow at South Branch Raritan River near High Bridge for the year averaged 140 ft 3 /s (3.96 m 3 /s), 116 percent of normal. The average flow for Great Egg Harbor River at Folsom was 90.0 ft 3 /s (2.55 m 3 /s), 103 percent of normal. The observed annual mean discharge on the Delaware River at Trenton was 11,500 ft 3 /s (325.7 m 3 /s), 90 percent of normal. The natural flow at Trenton (adjusted for diversion and storage upstream) was 93 percent of normal for the year.

Storage in the 13 major water-supply reservoirs in New Jersey decreased from 67.9 billion gallons (90 percent of capacity) on October 1 to 35.2 billion gallons (47 percent of capacity) on September 30. Storage in Wanaque Reservoir decreased from 24.2 billion gallons (86 percent of capacity) on October 1 to 12.3 billion gallons (44 percent of capacity) on September 30. Pumped storage in Round Valley Reservoir decreased from 54.5 billion gallons (99 percent of capacity) on October 1 to 45.4 billion gallons (83 percent of capacity) on September 30.

Water levels in water-table aquifers in the Coastal Plain portion of the State generally were above normal from October to April and near-normal during the remainder of the water year. Water levels in the heavily stressed artesian aquifers; however, continued to be lower than normal in the Coastal Plain. Declines in water levels were most notable in the Englishtown aquifer and aquifers in the Potomac-Raritan-Magothy aquifer system. Data for 32 wells which tap these artesian aquifers were published this year. Water levels in 18 of the wells in this group established new lows of record. In the northern portion of the State, north of the Fall Line, water levels in water-table, semi-artesian, and artesian aquifers varied from near normal to moderately below normal.

Monthly water levels are compared with long-term averages at two representative observation wells in figure 4. The wells chosen for illustration were Whites Lab. 3 in Union County and Crammer in Ocean County. Ten-year hydrographs for other selected wells also are included in these reports under the ground-water level records for the specific wells.

DEFINITION OF TERMS

Terms related to streamflow, water-quality and other hydrologic data, as used in this report, are defined below. See also the table for converting Inch-pound Units to Metric Units on the inside of the back cover.

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

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

 $\frac{\text{Algae}}{\text{roots}}$ are mostly aquatic single-celled, colonial, or multi-celled plants, containing chlorophyll and lacking roots, stems, and leaves.

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

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.

Aquifer codes and geologic names:

The following list shows the aquifer codes and geologic names of the formations in which the sampled wells are finished. The aquifer codes also appear in the column "Geologic Unit" in the ground-water quality tables:

```
112CPMY , CAPE MAY FORMATION, UNDIFFERENTIATED
112ESRNS , CAPE MAY FORMATION, ESTUARINE SAND FACIES
112PLC , PLEISTOCENE-COHANSEY SAND, UNDIFFERENTIATED
121CKKD , COHANSEY SAND-KIRKWOOD FORMATION, UNDIFFERENTIATED
112TILL , GLACIAL TILL , STRATIFIED DRIFT , KIRKWOOD FORMATION, UPPER SAND
122KRKD , KIRKWOOD FORMATION , UPPER SAND
122KRKDL , KIRKWOOD FORMATION , LOWER SAND
124MQVC , MANASQUAN-VINCENTOWN FORMATION , UNDIFFERENTIATED
```

124PNPN ,

PINEY POINT FORMATION
MOUNT LAUREL SAND-WENONAH FORMATION 211MLRW

ENGLISHTOWN FORMATION 211EGLS

211MGRR POTOMAC-RARITAN-MAGOTHY AQUIFER SYSTEM MAGOTHY FORMATION, OLD BRIDGE SAND MEMBER RARITAN FORMATION, FARRINGTON SAND MEMBER BRUNSWICK SHALE OR FORMATION 2110 DBG 211FRNG

231BRCK

STOCKTON FORMATION 231SCKN

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 land

Bacteria are microscopic unicellular organisms, typically spherical, rod-like, or spiral and threadlike in shape, often clumped into colonies. Some bacteria cause disease, other 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.

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 all the organisms which produce colonies with a golden-green metallic sheen within 24 hours when incubated at 35° C \pm 0.5°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 warmblooded 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 the intestine of warm-blooded animals. Their presence in water is considered to verify fecal pollution. They are characterized as gram-positive, cocci bacteria which are capable of growth in brain-heart infusion broth. In the laboratory they are defined as all the organisms which produce red or pink colonies within 48 hours at 35° C \pm 0.5 $^{\circ}$ C on KF streptococcus medium (nutrient medium for bacterial growth). Their concentrations are expressed as number of colonies per 100 ml of sample.

Bedload is the sediment which moves along in essentially continuous contact with the streambed by rolling, sliding, and making brief excursions into the flow a few diameters above the bed.

 $\underline{\text{Bed material}} \text{ is the unconsolidated material of which a streambed, lake, pond, reservoir, or estuary bottom is composed.}$

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

 $\underline{\text{Biomass}}$ is the amount of living matter present at any given time, expressed as the weight 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 $500\,^{\circ}\text{C}$ 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).

 $\underline{\text{Dry mass}}$ refers to the mass of residue present after drying in an oven at 50°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 the 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 quantity of organic matter which can be chemically oxidized in the presence of a strong oxidant.

<u>Chlorophyll</u> refers to the green pigments of plants. Chlorophyll \underline{a} and \underline{b} are the two most common pigments in plants.

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.

Continuing record station is a specified site which meets one or all conditions listed:

- When chemical samples are collected daily or monthly for 10 or more months during the water year. 1.
- When water temperature records include observations taken one or more times daily.

3. When sediment discharge records include periods for which sediment loads are computed and are considered to be representative of the runoff for the water year.

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, and artificial structure, or a uniform cross section over a long reach of the channel.

Cubic feet per second per square mile (ft³/s/mi², 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.

 $\frac{\text{Cubic foot per second } (\text{ft}^3/\text{s}, \text{ cfs}) \text{ is the rate of discharge representing a volume of 1 cubic foot passing a given point during 1 second and is equivalent to 7.48 gallons per second or 448.8 gallons per minute or 0.02832 cubic meters per second.}$

Depth of well:

Total depth of well is the maximum depth in feet below land surface datum (lsd) at which the well was originally finished. This depth may be slightly deeper than "depth to the bottom of sample interval" because many wells have a "tailpiece" or short length of casing installed below the well screen.

Total depth of hole is the total depth in feet below land surface datum to which the hole was drilled, regardless of the finished depth of the well.

Depth to the top of water-bearing zone is the depth in feet, based on the best available information which indicates the top of the water-bearing zone that is furnishing water to the well.

Depth to bottom of water-bearing zone is the depth in feet, based on the best available information which indicates the bottom of the water-bearing zone that is furnishing water to the well.

Depth to the top of sample interval is the uppermost point in a fully cased well at which water can enter the well. In bedded sediments this is usually the uppermost part of the screened interval. In some wells the top of the well screen is installed inside and a few feet above the bottom of the casing. Under these conditions the bottom of the casing is considered to be the top of the sample interval.

Depth to the bottom of sample interval is the lowermost point in a fully cased well at which water can enter the well.

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.

 $\underline{\underline{\mathsf{Mean \ discharge}}}$ (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.

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

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

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

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

 $\frac{\text{Gage height}}{\text{used interchangeably with the more general term "stage," although gage height is more appropriate when used with a reading on a gage.}$

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

 $\frac{\text{Hardness}}{\text{quantity of soap}} \text{ of water is a physical-chemical characteristic that is commonly recognized by the increased quantity of soap required to produce lather. It is attributable to the presence of alkaline earths (principally calcium and magnesium) and is expressed as equivalent calcium carbonate (CaCO3).}$

High tide is the maximum height reached by each rising tide.

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.

Instantaneous flow rate is the flow rate at which water is removed from the well. Used with pump or flow period prior to sampling (see below) so that the exact volume of water pumped prior to sampling can be determined.

Land-surface datum is a datum plane that is approximately at the land surface at the well.

Low tide is the minimum height reached by each falling tide.

Mean high or low tide is the average of all high or low tides, respectively, over a specified period.

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

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

 $\underline{\text{Micrograms per gram}} \ (\text{UG/G}) \ \text{is a unit expressing the concentration of a chemical element as the weight} \ (\text{micrograms}) \ \text{of the element sorbed per unit weight} \ (\text{gram}) \ \text{of sediment.}$

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

 $\frac{\text{Milligrams per liter (MG/L, mg/L)}}{\text{Milligrams per liter represents the weight of solute per unit volume of water.}}$ Milligrams or micrograms per liter may be converted to milliequivalents (one thousandth of a gram-equivalent weight of a constituent) per liter by multiplying by the factors in Hem (1970).}

National Geodetic Vertical Datum of 1929 (NGVD of 1929). A geodetic datum derived from a general adjustment of the first order level nets of both the United States and Canada, formerly called "Mean Sea Level."

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

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

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

 $\underline{\text{Total organism count}}$ is the total number of organisms collected and enumerated in any particular sample.

Partial-record station is a particular site where limited streamflow data are collected systematially 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 either by 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 active 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	Si ze	(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.

<u>Periphyton</u> is the assemblage of microorganisms attached to and growing upon solid surfaces. While primarily consisting of algae, they also include bacteria, fungi, protozoa, rotifers, and other small organisms. Periphyton is a useful indicator of water quality.

Pesticides are chemical compounds used to control the growth of undesirable plants and animals. Major categories of pesticides include insecticides, miticides, fungicides, herbicides, and rodenticides. Since the first application of DDT as an insecticide in the early 1930's there have been almost 60,000 pesticide formulations registered, each containing at least one of the approximately 800 different basic pesticide compounds. The United States annually produces about 1 billion pounds of these compounds. Although efforts are being made to substitute many of the chlorinated hydrocarbon pesticides with more specific, fast—acting, and easily degradable compounds, chlorinated hydrocarbon pesticides are still commonly used in many areas of the country.

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

 $\frac{\text{Plankton}}{\text{of lakes}}$ is the community of suspended, floating, or weakly swimming organisms that live in the open water $\frac{\text{Plankton}}{\text{of lakes}}$ 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

 $\underline{\text{Diatoms}}$ are the unicellular or colonial algae having a siliceous shell. Their concentrations are expressed as number of cells per milliliter 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 per milliliter 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 insectionides.

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

Milligrams of carbon per area or volume per unit time [mg C/m²/time for periphyton and macrophytes and mg C/m³/time for phytoplankton] are units for expressing primary productivity. They define the amount of carbon dioxide consumed as measured by radioactive carbon (carbon 14). The carbon 14 method is of greater sensitivity than the oxygen light and dark bottle method, and is preferred for use in unenriched waters. Unit time may be either the hour or day, depending on the incubation period.

Milligrams of oxygen per area or volume per unit time [mg $0_2/m^2/t$ ime for periphyton and macrophytes and mg $0_2/m^3/t$ ime for phytoplankton] are the units for expressing primary productivity. They define production and respiration rates as estimated from changes in the measured dissolved oxygen concentration. The oxygen light and dark bottle method is preferred if the rate of primary production is sufficient for accurate measurements to be made within 24 hours. Unit time may be either the hour or day, depending on the incubation period.

 $\frac{\text{Pump or flow rate prior to sampling is used in conjunction with the instantaneous flow rate so that the exact volume of water pumped prior to sampling can be determined.}$

Radioisotopes are isotope forms of an element that exhibit radioactivity. Isotopes are varieties of a chemical element that differ in atomic weight, but are very nearly alike in chemical properties. The difference arises because the atoms of the isotopic forms of an element differ in the number of neutrons in the nucleus. For example: ordinary chlorine is a mixture of isotopes having atomic weights 35 and 37, with the natural mixture having an atomic weight of 35.453.

Radioisotopes that are determined in this report are natural uranium in $\mu g/L$ (micrograms per liter), radium as radium-226 in PCI/L, (pCi/L, picocuries per liter), gross beta in PCI/L, and gross alpha radiation as micrograms of uranium equivalent per liter ($\mu g/L$). Gross alpha and beta radioactivity associated with the fine grained (silt and clay sized) sediments in the samples are also determined.

River mile as used herein, is the distance above the mouth of Delaware Bay, measured along the center line of the navigation channel or the main stem of the Delaware River. River mile data were furnished by the Delaware River Basin Commission.

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.

 $\underline{\textbf{Supended sediment}} \ \ \text{is the sediment that at any given time is maintained in suspension by the upward components of turbulent currents or that exists in suspension as a colloid.}$

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

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

 $\underline{\text{Mean concentration}}$ is the time-weighted concentration of suspended sediment passing a stream section during a 24-hour day.

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

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

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

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." Streamflow may be applied to discharge whether or not it is affected by diversion or regulation.

Substrate is the physcial surface upon which an organism lived.

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

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

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

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

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

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

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

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

Taxonomy is the division of biology concerned with the classification and naming of organisms. The classification of organisms is based upon a hierarchical scheme beginning with Kingdom and ending with Species at the base. The higher the classification level, the fewer features the organism have in common. For example, the taxonomy of a particular mayfly, $\frac{1}{2}$ exagenia limbata is the following:

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

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

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

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

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

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

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

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

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

 $\frac{\text{Total load}}{\text{total solution}}$ (tons) is the total quantity of any individual constituent, as measured by dry mass or volume, that is being transported 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.

Unique well number is a hyphenated, 6-digit identification number which is assigned to all New Jersey wells in the Ground Water Site Inventory (GWSI) System. This numbering system was developed in 1978 to simplify identification of wells. The first two digits are a code for the county in which the well is located, and the last four digits are a sequence number. These unique well numbers are being used now in the ground-water level descriptions, wells sampled for water-quality analyses, and on the corresponding location maps in these reports.

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.

WDR is used as an abbreviation for "Water-Data Report" in the summary REVISIONS paragraph to refer to previously published State annual basic-data reports. Prior to 1975, WRD was used, which was the abbreviation for "Water-Resources Data."

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

DOWNSTREAM ORDER AND STATION NUMBER

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 triburtaries. The rank of any tributary on which a station is situated with respect to the stream to which it is immediately tributary is indicated by an indention in a list of stations in front of the report. Each indention represents one rank. This downstream order and system of indention show which stations are on tributaries between any two stations and the rank of the tributary on which each station is situated.

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 3-digit number for each station such as 31463500, which appears just to the left of the station name, includes the 2-digit part number "01" plus the 6-digit downstream order number "463500."

NUMBERING SYSTEM FOR WELLS AND MISCELLANEOUS SITES

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

The wells and miscellaneous site numbering system of the U.S. Geological Survey is based on the grid system of latitude and longitude. The system provides the geographic location of the well or miscellaneous site and a unique number for each site. The number consists of 15 digits. The first 6 digits denote the degrees, minutes, and seconds of latitude, the next 7 digits denote degrees, minutes, and seconds of longitude, and the last 2 digits is a sequential number for wells within a 1-second grid. In the event that the latitude-longitude coordinates for a well and a miscellaneous site are the same, they are assigned sequential numbers "01", "02", etc. as one would for wells. See figure 1 below.

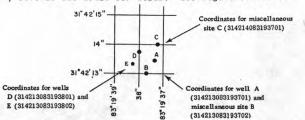


Figure 1. System for numbering wells and miscellaneous sites (latitude and longitude)

SPECIAL NETWORKS AND PROGRAMS

Some of the stations for which data are published in this report are included in special networks and programs. These stations are identified by their title, set in parentheses, under the station name.

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 stream 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.

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 decribed in standard text-books, in Water-Supply Paper 888, and in U.S. Geological Survey Techniques of Water Resources Investigations, book 3, chapter A6.

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

At some stream-gaging stations the stage-discharge relation is affected by 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 determining 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 determining 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 the gage-height record and occasional winter discharge measurements, consideration being given to the available information on temperature and precipitation, notes by gage observers and hydrologists, and comparable records of discharge for other stations in the same or nearby basins.

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

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 discharge are estimated on the basis of recorded range in stage, adjoining good record, discharge measurements, weather records, and comparison with other station records from the same or nearby basins. Likewise daily contents may be estimated on the basis of operator's log, prior and subsequent records, inflow-outflow studies, and other information.

The data in this report generally comprise a description of the station and tabulations of daily and monthly figures. For gaging stations on streams or canals a table showing the daily discharge and monthly and yearly discharge is given. For gaging stations on lakes and reservoirs a monthly summary table of stage and

contents or a table showing the daily contents is given. Tables of daily mean gage height 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 for the gaging station and the drainage area are obtained from the most accurate maps available. River mileage, given under "LOCATION" for some stations, is that determined and used by the Corps of Engineers or other agencies. Periods for which there are published records for the present stations 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 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 referred to National Geodetic Vertical Datum; and a condensed history of the types, locations, and datums of previous gages used during the period of record are given under "GAGE." National Geodetic Vertical Datum is explained in "DEFINITION OF TERMS."

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."

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 current year, second, the extremes for the period of record, and last information available outside the period of record. 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 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 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"). 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 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-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 interpretation of records.

The station description under "REMARKS" states the degree of accuracy of the records. "Excellent" means that about 95 percent of the daily discharges 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 and miscellaneous sites.

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

Publications

Each volume of the 1960 series of U.S. Geological Survey water-supply papers entitled "Surface Water Supply of the United States" contains a listing of the numbers of all water-supply papers in which records of surface-water data were published for the area covered by the individual volumes. Each volume also contains a list of water-supply papers that give detailed information on major floods for the area. A new series of water-supply papers containing surface-water record for the 5-year period October 1, 1965 to September 30, 1970, also will include lists of annual and special reports published as water-supply papers.

Records through September 1950 for the area covered by this report have been compiled and published in Water-Supply Paper 1302; records for October 1950 to September 1960 have been compiled and published in Water-Supply Paper 1722; records for October 1960 to September 1965 have been compiled and published in Water-Supply Paper 1902; records for October 1965 to September 1970 have been compiled and published in Water-Supply Paper 2102. These reports contain summaries of monthly and annual discharge and month-end storage for all previously published records, as well as some records not contained in the annual series of water-supply papers. All records were reexamined and revised where warranted. Estimates of discharge were made to fill short gaps whenever practical. The yearly summary table for each gaging station lists the numbers of the water-supply papers in which daily records were published for that station.

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

Other data available

Information of a more detailed nature than that published for most of the gaging stations such as 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.

Records of stage or discharge collected by agencies other than the Geological Survey

Records of stage or discharge not published by the Geological Survey were collected in New Jersey at 30 sites during the water years October 1960 to current year by the following agencies: records at 4 sites were collected by the North Jersey District Water Supply Commission; at 14 sites by Passaic County, at 1 sites by the National Weather Service; at 3 sites by the National Ocean Survey; at 3 sites by the Corps of Engineers, and 5 sites by Delaware River Joint Toll Bridge Commission. The National Water Data Exchange, Water Resources Division, U.S. Geological Survey, National Center, Reston, VA 22092, maintain an index of such sites. Information on records available at specific sites can be obtained upon request.

EXPLANATION OF WATER-QUALITY RECORDS

Collection and examination of data

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

The data in this report include a description of the sampling station and tabulations of the samples analyzed. The description of the sampling station gives the location, drainage area, periods of record for the water-quality data, extremes of the pertinent data, and general remarks. For ground-water sampling stations, no descriptive statements are presented. However, the well number, depth of well, date of sampling, and other pertinent data are given in the table containing the chemical analyses of ground water.

Water-quality information is presented for chemical, biological, and microbiological quality, water temperature, and fluvial sediment. Chemical quality includes the concentrations of individual constituents and certain properties such as hardness, specific conductance, and pH. The biological information includes qualitative and quantitative analyses of plankton, bottom organisms, and particulate inorganic and amorphous matter present. Microbiological information includes quantitative identifications of certain bacteriological indicator organisms. Water-temperature data represent once-daily observations except for stations where a water-quality noncontinuous-digital monitor furnishes hourly temperature readings that provide daily maximum, minimum, and mean temperature data summaries. Fluvial-sediment information is given for suspended-sediment discharges and concentrations and for particle-size distribution of suspended sediment.

Prior to the 1968 water year, data for chemical constituents and concentrations of suspended sediment were reported in parts per million (ppm) and water temperatures were reported in degrees Fahrenheit (°F). In October 1967, the U.S. Geological Survey began reporting data for chemical constituents and concentrations of suspended sediment in milligrams per liter (mg/L) and water temperatures in degrees Celsius (°C). In waters with a density of 1.000 g/ml (grams per milliliter), parts per million and milligrams per liter can be considered equal. In waters with a density greater than 1.000 g/ml, values in parts per million should be multiplied by the density to convert to milligrams per liter. Temperatures reported in degrees Celsius may be converted to degrees Fahrenheit by using Table 1 below.

In October 1968, the Geological Survey began reporting many of the chemical constituents as well as the minor elements in micrograms per liter instead of milligrams per liter. (See "Definitions of Terms," and table for converting Inch-pound Units to International System Units, inside back cover).

Table 1.--Degrees Celsius (°C) to degrees Fahrenheit (°F)* (Temperature reported to nearest 0.5°C)

°C	°F	° C	°F	°C	°F	°C	°F	°C	°F
0.0	32	10.0	50	20.0	68	30.0	86	40.0	104
0.5	33	10.5	51	20.5	69	30.5	87	40.5	105
1.0	34	11.0	52	21.0	70	31.0	88	41.0	106
1.5	35	11.5	53	21.5	71	31.5	89	41.5	107
2.0	36	12.0	54	22.0	72	32.0	90	42.0	108
2.5	36	12.5	54	22.5	72	32.5	90	42.5	108
3.0	37	13.0	55	23.0	73	33.0	91	43.0	109
3.5	38	13.5	56	23.5	74	33.5	92	43.5	110
4.0	39	14.0	57	24.0	75	34.0	93	44.0	111
4.5	40	14.5	58	24.5	76	34.5	94	44.5	112
5.0	41	15.0	59	25.0	77	35.0	95	45.0	113
5.5	42	15.5	60	25.5	78	35.5	96	45.5	114
6.0	43	16.0	61	26.0	79	36.0	97	46.0	115
6.5	44	16.5	62	26.5	80	36.5	98	46.5	116
7.0	45	17.0	63	27.0	81	37.0	99	47.0	117
7.5	45	17.5	63	27.5	81	37.5	99	47.5	117
8.0	46	18.0	64	28.0	82	38.0	100	48.0	118
8.5	47	18.5	65	28.5	83	38.5	101	48.5	119
9.0	48	19.0	66	29.0	84	39.0	102	49.0	120
9.5	49	19.5	67	29.5	85	39.5	103	49.5	121

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

Most methods for collecting and analyzing water samples to determine the kinds and concentrations of solutes are described in the U.S. Geological Survey Techniques of Water-Resources Investigations listed at the end of this section. Analysis of pesticides, herbicides, and organic substances in water are described by Goerlitz and Brown. The collection and analysis of aquatic, biological and microbiological samples are described by Greeson and others.

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 many 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.

For chedical-quality stations equipped with noncontinuous-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 U.S. Geological Survey district office (for address see Page IV).

The quality of ground water normally does not change significantly during short periods of time; infrequent sampling and analysis of ground water adequately defines ground-water quality at a given site. Water samples from wells are collected after prepumping the well and are analyzed individually.

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 surface-water stations. For daily stations, the water temperatures are taken at about the same time each day. Large streams have a small diurnal temperature change; shallow streams may have a daily range of several degrees and may follow closely the changes in air temperature. Some streams may be affected by waste-heat discharges. Influential factors, field measurement, and data representation of temperature are described by Stevens, Ficke and Smoot.

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 are included.

Remark codes for water-quality data

PRINTE OUT PUT		PRINTED OUTPUT	REMARK
E	ESTIMATED VALUE	<	ACTUAL VALUE IS KNOWN TO BE LESS THAN THE VALUE SHOWN
>	ACTUAL VALUE IS KNOWN TO BE GREATER THAN THE VALUE SHOWN	ND	MATERIAL SPECIFICALLY ANALYZED FOR BUT NOT DETECTED
К	RESULTS BASED ON COLONY COUNT OUTSIDE THE ACCEPTABLE RANGE (NON-IDEAL COLONY COUNT)		,

Publications

Table 2 below, shows the annual series of water-supply papers that give information on quality of surface waters in New Jersey.

Table 2.--Water-supply paper (WSP) numbers, water years, 1945-70

Year	WSP	Year	WSP	Year	WSP
1945	1030	1954	1350	1963	1947
1946	1050	1955	1400	1964	1954
1947	1102	1956	1450	1965	1961
1948	1132	1957	1520	1966	1991
1949	1162	1958	1571	1967	2011
1950	1186	1959	1641	1968	2091
1951	1197	1960	1741	1969	2141
1952	1250	1961	1881	1970	2151
1953	1290	1962	1941		

EXPLANATION OF GROUND-WATER LEVEL RECORDS

Collection of the data

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

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

Water-level measurements in this report are given in feet with reference to land-surface datum (LSD, 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 NGVD 1929, and the height of the measuring point (MP) above or below land-surface datum is given in each well description.

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 data in these reports were obtained from water-level recorders, water-level extremes recorders, and from periodic manual measurements. The equipment used at each well is described in the well description under the listing "Instrumentation." Water levels in wells equipped with water-level recorders are reported for every fifth day and the end of each month (eom). Beginning in the 1977 water year, water-level recorders were removed from some wells and replaced by water-level extremes recorders. The extremes are read from these recorders at about three month intervals, but the actual dates of occurrance of the extremes (highest and lowest water levels) are unknown. In these reports the extreme water levels are given along with the interim dates in the well descriptions, and the manual only measurements are tabulated below the well descriptions and also plotted in hydrographs where provided.

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

Publications

Table 3 on next page, shows the series of water-supply papers that give ground-water level data for New Jersey, 1935 to 1974. No water-level data were published in 1975. Beginning in 1976, ground-water level data for New Jersey have been published in these annual water data reports.

Table 3.--Water-supply paper (WSP) numbers, water years, 1935-74

Year	WSP	Year	WSP	Year	WSP
1935	777	1944	1016	1953	1265
1936	817	1945	1023	1954	1321
1937	840	1946	1071	1955	1404
1938	845	1947	1096	1956-57	1537
1939	866	1948	1126	1958-62	1782
1940	906	1949	1156	1963-67	1977
1941	936	1950	1165	1968-72	2140
1942	986	1951	1191	1973-74	2164
1943	986	1952	1221		

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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).

- 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".
- Water temperature -- influential factors, field measurement, and data presentation, by H. H. 1-D1.

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

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

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 2-E1. Application of borehole geophysics to water-resources investigations, by W. S. Keys and L. M. MacCary: USGS--TWRI Book 2, Chapter E1. 1971. 126 pages.
- 3-A1.
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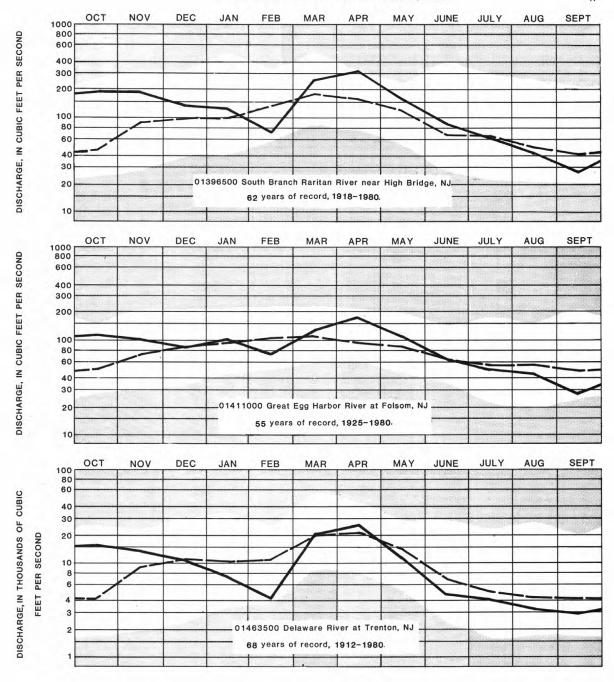
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- 4-B1. 4-B2.
- 4-B3.
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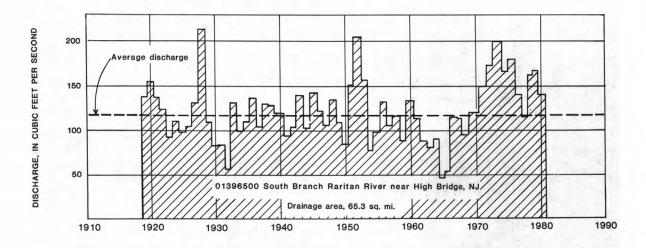


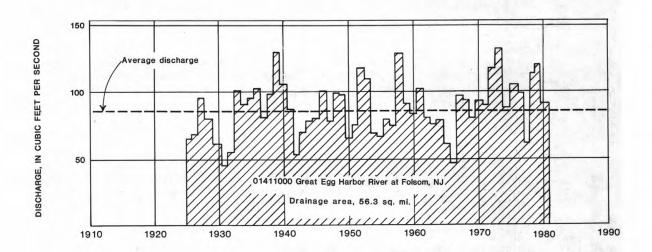
Unshaded area.--Indicates range between highest and lowest mean recorded for the month, prior to 1980 water year.

Dashed line.--Indicates normal (median of the monthly means) for the standard reference period, 1941-1970.

Solid line.--Indicates observed monthly mean flow for the 1980 water year.

FIGURE 2 .-- MONTHLY STREAMFLOW AT KEY GAGING STATIONS.





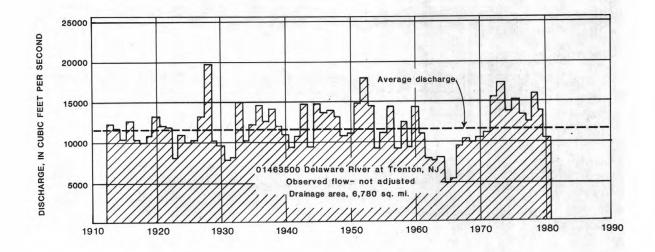
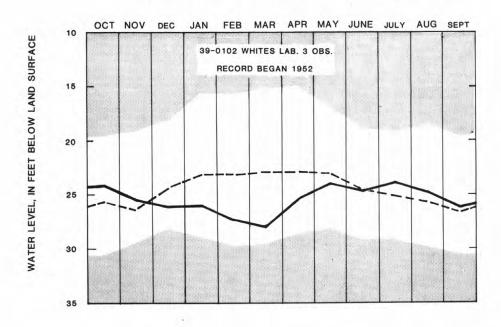
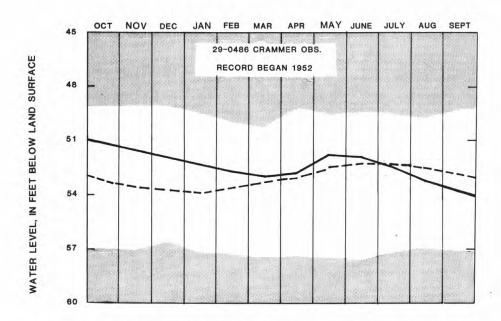


FIGURE 3.--ANNUAL MEAN DISCHARGE AT KEY GAGING STATIONS





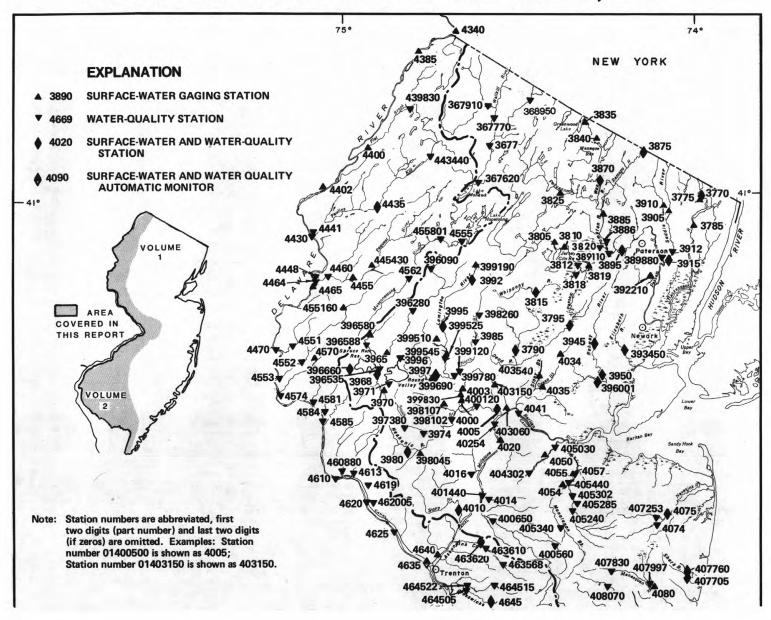
Unshaded area.--Indicates range between highest and lowest recorded monthly minimum water levels, prior to the current year.

Dashed line.--Indicates average of the monthly minimum water levels, prior to current year.

Solid line.--Indicates monthly minimum water level for the current year.

FIGURE 4.--MONTHLY GROUND - WATER LEVELS AT KEY OBSERVATION WELLS.

WATER RESOURCES DATA FOR NEW JERSEY, 1980



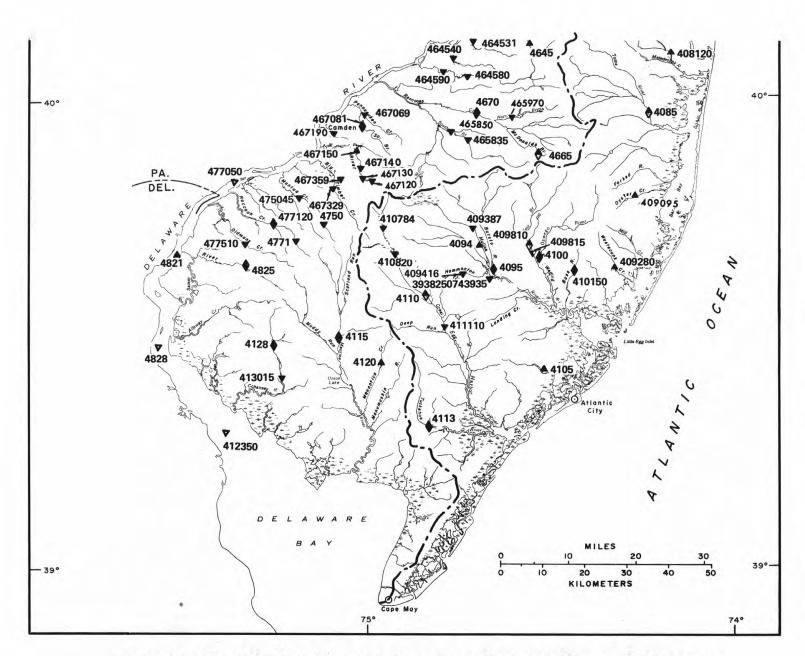
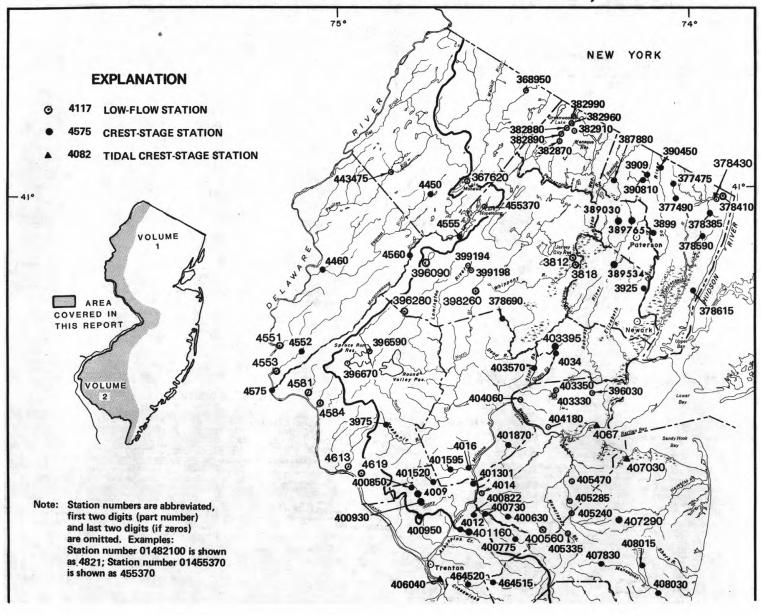


Figure 5.--Location of surface-water gaging stations and water-quality stations.

WATER RESOURCES DATA FOR NEW JERSEY, 1980



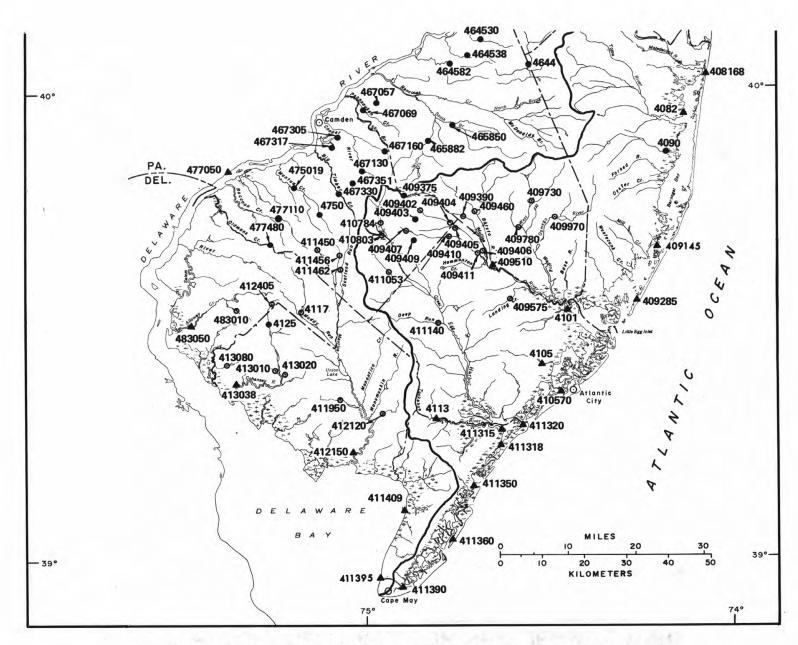
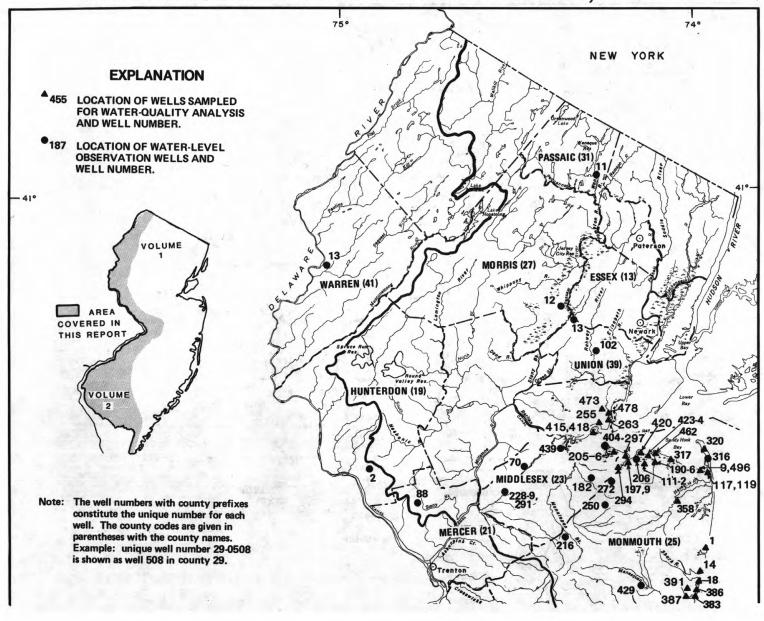


Figure 6.--Location of low-flow and crest-stage partial record stations.

WATER RESOURCES DATA FOR NEW JERSEY, 1980



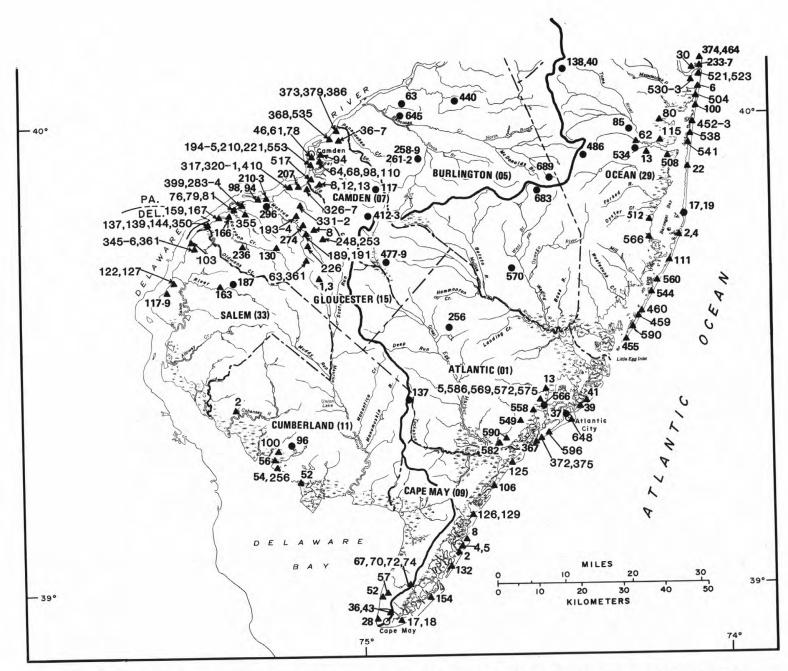


Figure 7.--Map showing location of ground-water quality stations and observation wells.

HYDROLOGIC-DATA STATION RECORDS

MAURICE RIVER BASIN

01411500 MAURICE RIVER AT NORMA, NJ (National stream quality accounting network station)

LOCATION.--Lat 39°29'42", long 75°04'38", Salem County, Hydrologic Unit 02040206, on right bank just upstream from Almond Road Bridge at Norma, and 0.8 mi (1.3 km) downstream from Blackwater Branch.

DRAINAGE AREA . -- 113 mi2 (293 km2).

CAL YR 1979 TOTAL

WTR YR 1980 TOTAL 67132

MEAN 268

MEAN 183

WATER-DISCHARGE RECORDS

PERIOD OF RECORD. -- July 1932 to current year. Monthly discharge only for December 1933, published in WSP 1302. REVISED RECORDS. -- WSP 1382: 1933. WDR NJ-79-1: 1967(P).

GAGE.--Water-stage recorder. Concrete control since Dec. 27, 1937. Datum of gage is 46.94 ft (14.307 m) National Geodetic Vertical Datum of 1929.

REMARKS. -- Water-discharge records good. Occasional regulation by ponds above station.

AVERAGE DISCHARGE.--48 years, 169 ft3/s (4.786 m3/s), 20.32 in/yr (516 mm/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 7,360 ft³/s (208 m³/s) Sept. 2, 1940, gage height, 8.72 ft (2.658 m), from rating curve extended above 3,000 ft³/s (85 m³/s); minimum daily, 23 ft³/s (0.65 m³/s) Sept. 8, 1964, July 2, Sept. 7, 11-13, 1966.

EXTREMES FOR CURRENT YEAR. -- Peak discharges above base of 380 ft3/s (10.8 m3/s) and maximum (*):

			Discharge		Gage	height
Date		Time	(ft^3/s)	(m^3/s)	(ft)	(m)
Oct.	14	1000	*421	11.9	3.53	1.076
Apr.	5	0900	385	10.9	3.55	1.082

Minimum discharge, 51 ft 3 /s (1.44 m 3 /s) Sept. 1, 2, gage height, 2.38 ft (0.725 m).

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980 MEAN VALUES DAY OCT NOV DEC JAN FEB MAR APR MAY JUN JUL AUG SEP 59 230 249 171 290 79 28 198 146 282 ---TOTAL 97.5 66.0 MEAN MAX MIN CFSM 2.04 1.81 IN. 2.27 2.08 2.07 2.05 1.54 1.30 .99 .65

IN 32.16

IN 22.10

MIN 123

MIN 53

CFSM 2.37

CFSM 1.62

MAX

MAX

WATER-QUALITY RECORDS

PERIOD OF RECORD. -- Water years 1923, 1953, 1960-62, 1965 to current year.

PERIOD OF DAILY RECORD.-SPECIFIC CONDUCTANCE: January to September 1980.
WATER TEMPERATURES: October 1966 to January 1968 (once daily), January to September 1980.
SUSPENDED-SEDIMENT DISCHARGE: February 1965 to January 1968.
INSTRUMENTATION: Water-quality monitor since January 1980.

COOPERATION.--Analyses of fecal coliform and fecal streptococci by the MPN method, and water-phase nutrients were performed by the New Jersey Department of Health, Division of Laboratories and Epidemiology.

EXTREMES FOR CURRENT YEAR .--

SPECIFIC CONDUCTANCE: Maximum, 112 micromhos Aug. 28; minimum, 56 micromhos May 1. WATER TEMPERATURES: Maximum, 28°C July 21, Aug. 5, 6; minimum, 1.0°C Feb. 1, 2.

DATE	TIME	STREAM- FLOW, INSTAN- TANEOUS (CFS)	SPE- CIFIC CON- DUCT- ANCE (MICRO- MHOS)	PH FIELD (UNITS)	TEMPER- ATURE, WATER (DEG C)	TUR- BID- ITY (NTU)	OXYGEN, DIS- SOLVED (MG/L)	OXYGEN DEMAND, BIOCHEM UNINHIB 5 DAY (MG/L)	COLI- FORM, FECAL, 0.7 UM-MF (COLS./ 100 ML)	STREP- TOCOCCI FECAL, KF AGAR (COLS. PER 100 ML)	HARD- NESS (MG/L AS CACO3)
OCT 11	1100	327	65	5.8	9.5	2.0	9.6	1.0	K14	590	14
NOV 29	1030	240	63	6.4	9.5	2.0	10.2	.6	180	230	15
DEC					1 6 4						
11 JAN	1200	214	73	5.8	6.0	1.0	12.2	.6	19	66	14
22 FEB	1200	212	73	6.6		.60	11.4	1.2	К9	92	17
28 MAR	1100	163	74	6.4	3.5	.50	12.4	1.1	К6	K57	16
17 APR	1130	229	66	6.5	8.0	.70	11.5	1.8	К7	130	15
24	1100	200	72	6.4	17.5	1.0	9.4	1.2	K18	290	17
MAY 16	1200	176	76	5.3	18.5	1.4	7.1	.1		700	17
JUN 19	1200	155	75	5.2	19.5	1.5	8.3	2.1	38	1500	16
JUL 23	1045	134	77	6.3		3.0	6.1	1.3	>600	4900	16
AUG 07	1135	121	78	6.7	26.0	1.9	7.0	.9	96	920	20
SEP		62	84					9.5	80	1200	17
11	1035	02	04	6.7	18.5	.50	8.4	1.4	80	1200	11
DATE	CALCIUM DIS- SOLVED (MG/L AS CA)	MAGNE- SIUM, DIS- SOLVED (MG/L AS MG)	SODIUM, DIS- SOLVED (MG/L AS NA)	POTAS- SIUM, DIS- SOLVED (MG/L AS K)	ALKA- LINITY (MG/L AS CACO3)	SULFATE DIS- SOLVED (MG/L AS SO4)	CHLO- RIDE, DIS- SOLVED (MG/L AS CL)	FLUO- RIDE, DIS- SOLVED (MG/L AS F)	SILICA, DIS- SOLVED (MG/L AS SIO2)	SOLIDS, RESIDUE AT 180 DEG. C DIS- SOLVED (MG/L)	SEDI- MENT, SUS- PENDED (MG/L)
ост	DIS- SOLVED (MG/L AS CA)	SIUM, DIS- SOLVED (MG/L AS MG)	DIS- SOLVED (MG/L AS NA)	SIUM, DIS- SOLVED (MG/L AS K)	LINITY (MG/L AS CACO3)	DIS- SOLVED (MG/L AS SO4)	RIDE, DIS- SOLVED (MG/L AS CL)	RIDE, DIS- SOLVED (MG/L AS F)	DIS- SOLVED (MG/L AS SIO2)	RESIDUÉ AT 180 DEG. C DIS- SOLVED (MG/L)	MENT, SUS- PENDED (MG/L)
OCT 11 NO V	DIS- SOLVED (MG/L AS CA)	SIUM, DIS- SOLVED (MG/L AS MG)	DIS- SOLVED (MG/L AS NA)	SIUM, DIS- SOLVED (MG/L AS K)	LINITY (MG/L AS CACO3)	DIS- SOLVED (MG/L AS SO4)	RIDE, DIS- SOLVED (MG/L AS CL)	RIDE, DIS- SOLVED (MG/L AS F)	DIS- SOLVED (MG/L AS SIO2)	RESIDUÉ AT 180 DEG. C DIS- SOLVED (MG/L)	MENT, SUS- PENDED (MG/L)
OCT 11 NOV 29 DEC	DIS- SOLVED (MG/L AS CA) 2.9	SIUM, DIS- SOLVED (MG/L AS MG) 1.6	DIS- SOLVED (MG/L AS NA) 6.8	SIUM, DIS- SOLVED (MG/L AS K)	LINITY (MG/L AS CACO3)	DIS- SOLVED (MG/L AS SO4) 9.0 7.7	RIDE, DIS- SOLVED (MG/L AS CL) 7.4 7.5	RIDE, DIS- SOLVED (MG/L AS F)	DIS- SOLVED (MG/L AS SIO2) 6.7 5.5	RESIDUÉ AT 180 DEG. C DIS- SOLVED (MG/L)	MENT, SUS- PENDED (MG/L)
OCT 11 NOV 29	DIS- SOLVED (MG/L AS CA)	SIUM, DIS- SOLVED (MG/L AS MG)	DIS- SOLVED (MG/L AS NA)	SIUM, DIS- SOLVED (MG/L AS K)	LINITY (MG/L AS CACO3)	DIS- SOLVED (MG/L AS SO4)	RIDE, DIS- SOLVED (MG/L AS CL)	RIDE, DIS- SOLVED (MG/L AS F)	DIS- SOLVED (MG/L AS SIO2)	RESIDUÉ AT 180 DEG. C DIS- SOLVED (MG/L)	MENT, SUS- PENDED (MG/L) 5 6
OCT 11 NOV 29 DEC 11 JAN 22	DIS- SOLVED (MG/L AS CA) 2.9	SIUM, DIS- SOLVED (MG/L AS MG) 1.6	DIS- SOLVED (MG/L AS NA) 6.8	SIUM, DIS- SOLVED (MG/L AS K)	LINITY (MG/L AS CACO3)	DIS- SOLVED (MG/L AS SO4) 9.0 7.7	RIDE, DIS- SOLVED (MG/L AS CL) 7.4 7.5	RIDE, DIS- SOLVED (MG/L AS F)	DIS- SOLVED (MG/L AS SIO2) 6.7 5.5	RESIDUÉ AT 180 DEG. C DIS- SOLVED (MG/L)	MENT, SUS- PENDED (MG/L)
OCT 11 NOV 29 DEC 11 JAN 22 FEB 28	DIS- SOLVED (MG/L AS CA) 2.9 3.1 2.9	SIUM, DIS- SOLVED (MG/L AS MG) 1.6 1.7	DIS- SOLVED (MG/L AS NA) 6.8 4.5	SIUM, DIS- SOLVED (MG/L AS K)	LINITY (MG/L AS CACO3)	DIS- SOLVED (MG/L AS SO4) 9.0 7.7	RIDE, DIS- SOLVED (MG/L AS CL) 7.4 7.5	RIDE, DIS- SOLVED (MG/L AS F)	DIS- SOLVED (MG/L AS SIO2) 6.7 5.5	RESIDUÉ AT 180 DEG. C DIS- SOLVED (MG/L) 64 54	MENT, SUS- PENDED (MG/L) 5 6
OCT 11 NOV 29 DEC 11 JAN 22 FEB 28 MAR 17	DIS- SOLVED (MG/L AS CA) 2.9 3.1 2.9	SIUM, DIS- SOLVED (MG/L AS MG) 1.6 1.7 1.7	DIS- SOLVED (MG/L AS NA) 6.8 4.5 4.4	SIUM, DIS- SOLVED (MG/L AS K) 1.9 1.8 1.6	LINITY (MG/L AS cACO3)	DIS- SOLVED (MG/L AS SO4) 9.0 7.7 7.7	RIDE, DIS- SOLVED (MG/L AS CL) 7.4 7.5 7.2 8.5	RIDE, DIS- SOLVED (MG/L AS F)	DIS- SOLVED (MG/L AS SIO2) 6.7 5.5 5.4	RESIDUÉ AT 180 DEG. C DIS- SOLVED (MG/L) 64 54 60	MENT, SUS- PENDED (MG/L) 5 6
OCT 11 NOV 29 DEC 11 JAN 22 FEB 28 MAR 17 APR	DIS- SOLVED (MG/L AS CA) 2.9 3.1 2.9 3.4 3.4	SIUM, DIS- SOLVED (MG/L AS MG) 1.6 1.7 1.7 2.1	DIS- SOLVED (MG/L AS NA) 6.8 4.5 4.4 5.5	SIUM, DIS- SOLVED (MG/L AS K) 1.9 1.8 1.6 1.4	LINITY (MG/L AS CACO3) 5 6 6 5	DIS- SOLVED (MG/L AS SO4) 9.0 7.7 7.7 10 8.9	RIDE, DIS- SOLVED (MG/L AS CL) 7.4 7.5 7.2 8.5 7.8	RIDE, DIS- SOLVED (MG/L AS F)	DIS- SOLVED (MG/L AS SIO2) 6.7 5.5 5.4 5.5	RESIDUÉ AT 180 DEG. C DIS- SOLVED (MG/L) 64 54 60 55	MENT, SUS- PENDED (MG/L) 5 6 2 2
OCT 11 NOV 29 DEC 11 JAN 22 FEB 28 MAR 17 APR	DIS- SOLVED (MG/L AS CA) 2.9 3.1 2.9 3.4 3.4	SIUM, DIS- SOLVED (MG/L AS MG) 1.6 1.7 1.7 2.1 1.9	DIS- SOLVED (MG/L AS NA) 6.8 4.5 5.5 4.4 5.5	SIUM, DIS- SOLVED (MG/L AS K) 1.9 1.8 1.6 1.4	LINITY (MG/L AS CACO3) 5 6 6 5 5	DIS- SOLVED (MG/L AS SO4) 9.0 7.7 7.7 10 8.9 8.5	RIDE, DIS- SOLVED (MG/L AS CL) 7.4 7.5 7.2 8.5 7.8	RIDE, DIS- SOLVED (MG/L AS F)	DIS- SOLVED (MG/L AS SIO2) 6.7 5.5 5.4 5.5 4.6	RESIDUÉ AT 180 DEG. C DIS- SOLVED (MG/L) 64 54 60 55 49	MENT, SUS- PENDED (MG/L) 5 6 2 2 2
OCT 11 NOV 29 DEC 11 JAN 22 FEB 28 MAR 17 APR 24 MAY	DIS- SOLVED (MG/L AS CA) 2.9 3.1 2.9 3.4 3.4 3.0 3.5	SIUM, DIS- SOLVED (MG/L AS MG) 1.6 1.7 1.7 2.1 1.9 1.7	DIS- SOLVED (MG/L AS NA) 6.8 4.5 4.4 5.5 5.3 4.9	SIUM, DIS- SOLVED (MG/L AS K) 1.9 1.8 1.6 1.4 1.7	LINITY (MG/L AS CACO3) 5 6 6 5 3 5	DIS- SOLVED (MG/L AS SO4) 9.0 7.7 7.7 10 8.9 8.5 9.8	RIDE, DIS- SOLVED (MG/L AS CL) 7.4 7.5 7.2 8.5 7.8 7.4	RIDE, DIS- SOLVED (MG/L AS F)	DIS- SOLVED (MG/L AS SIO2) 6.7 5.5 5.4 5.5 5.5 4.6 2.0	RESIDUÉ AT 180 DEG. C DIS- SOLVED (MG/L) 64 54 60 55 49 48	MENT, SUS- PENDED (MG/L) 5 6 2 2 5 1
OCT 11 NOV 29 JAN 22 FEB 28 MAR 17 APR 24 MAY 16 JUN 19	DIS- SOLVED (MG/L AS CA) 2.9 3.1 2.9 3.4 3.0 3.5 3.4 3.1	SIUM, DIS- SOLVED (MG/L AS MG) 1.6 1.7 2.1 1.9 1.7 2.0 2.1	DIS- SOLVED (MG/L AS NA) 6.8 4.5 5.5 5.3 4.9 5.1 6.9 5.9	SIUM, DIS- SOLVED (MG/L AS K) 1.9 1.8 1.6 1.4 1.7 1.6 1.9	LINITY (MG/L AS CACO3) 5 6 6 5 3 5 7	DIS- SOLVED (MG/L AS SO4) 9.0 7.7 7.7 10 8.9 8.5 9.8	RIDE, DIS- SOLVED (MG/L AS CL) 7.4 7.5 7.2 8.5 7.8 7.9	RIDE, DIS- SOLVED (MG/L AS F) .1 .1 .0 .1 .1 .1 .1	DIS- SOLVED (MG/L AS SIO2) 6.7 5.5 5.4 5.5 4.6 2.0 3.9 5.0	RESIDUÉ AT 180 DEG. C DIS- SOLVED (MG/L) 64 54 60 55 49 48 58 68	MENT, SUS- PENDED (MG/L) 5 6 2 2 5 1 10 5
OCT 11 NOV 29 DEC 11 JAN 22 FEB 28 MAR 17 APR 24 MAY 16 JUL 23 AUG	DIS- SOLVED (MG/L AS CA) 2.9 3.1 2.9 3.4 3.4 3.0 3.5 3.4 3.1	SIUM, DIS- SOLVED (MG/L AS MG) 1.6 1.7 1.7 2.1 1.9 1.7 2.0 2.1 1.9	DIS- SOLVED (MG/L AS NA) 6.8 4.5 4.4 5.5 5.3 4.9 5.1 6.9 5.9	SIUM, DIS- SOLVED (MG/L AS K) 1.9 1.6 1.4 1.7 1.6 1.9 1.6	LINITY (MG/L AS CACO3) 5 6 6 5 3 5 6 7 1	DIS- SOLVED (MG/L AS SO4) 9.0 7.7 7.7 10 8.9 8.5 9.8 12 11 7.8	RIDE, DIS- SOLVED (MG/L AS CL) 7.4 7.5 7.2 8.5 7.8 7.4 7.9 8.3 7.9 6.6	RIDE, DIS- SOLVED (MG/L AS F) .1 .1 .0 .1 .1 .1 .1 .1 .1	DIS- SOLVED (MG/L AS SIO2) 6.7 5.5 5.4 5.5 5.5 4.6 2.0 3.9 5.0	RESIDUÉ AT 180 DEG. C DIS- SOLVED (MG/L) 64 54 60 55 49 48 58 68 67	MENT, SUS- PENDED (MG/L) 5 6 2 2 5 1 10 5 3
OCT 11 NOV 29 DEC 11 JAN 22 FEB 28 MAR 17 APR 24 MAY 16 JUN 19 JUN 19	DIS- SOLVED (MG/L AS CA) 2.9 3.1 2.9 3.4 3.0 3.5 3.4 3.1	SIUM, DIS- SOLVED (MG/L AS MG) 1.6 1.7 2.1 1.9 1.7 2.0 2.1	DIS- SOLVED (MG/L AS NA) 6.8 4.5 5.5 5.3 4.9 5.1 6.9 5.9	SIUM, DIS- SOLVED (MG/L AS K) 1.9 1.8 1.6 1.4 1.7 1.6 1.9	LINITY (MG/L AS CACO3) 5 6 6 5 3 5 7	DIS- SOLVED (MG/L AS SO4) 9.0 7.7 7.7 10 8.9 8.5 9.8	RIDE, DIS- SOLVED (MG/L AS CL) 7.4 7.5 7.2 8.5 7.8 7.9	RIDE, DIS- SOLVED (MG/L AS F) .1 .1 .0 .1 .1 .1 .1	DIS- SOLVED (MG/L AS SIO2) 6.7 5.5 5.4 5.5 4.6 2.0 3.9 5.0	RESIDUÉ AT 180 DEG. C DIS- SOLVED (MG/L) 64 54 60 55 49 48 58 68	MENT, SUS- PENDED (MG/L) 5 6 2 2 5 1 10 5

		DI- SI	ED.	NI	TRO-	NI	TRO-	NI	TRO- NIT			ro-
DA:	SU: PE:	S- SIE RGE, DI S- º FI NDED TH	EVE G IAM. NO2 INER TO HAN (M	EN, NO2 +NO3 D TAL SO G/L (M	+NO3 GI IS- AMMO LVED TO G/L (MO	EN, AMM ONIA D TAL SO G/L (M	ONÍA G IS- ORG LVED TO G/L (M	EN, ORC ANIC I TAL SC G/L (M	GANIC MON DIS- ORG DLVED TO IG/L (M	TAL TO	SP. ORGATAL DIS	IA + ANIC
OCT		4.4	73	1.0	.91	.040	.040	.50	. 34	.54	. 16	.38
NO V 29		3.9					.030	.50	. 47	.55	.05	.50
DEC 11.		1.2					.070	.40		.49	. 15	.34
JAN									.27			
FEB		1.1					.060	•33		. 42		2.0
28. MAR		2.2					.040	.77	.30	.82	. 48	.34
17. APR		.62					.050	.27	.23	.32	.04	.28
MAY		5.4					.030	.26	.26	• 32	.03	. 29
16. JUN		2.4					.070	. 35	. 34	. 42	.01	. 41
19. JUL		1.3			1.5		.080	77	. 49		-	.57
AUG	• • • •	2.2	53	1.2	1.2	.070	.050	. 46	.07	• 53	.41	. 12
O7. SEP	• • •	.98	76	1.2	1.2	. 090	.040	. 19	.01	.28	.23	.05
11.	• • •	. 17	50	1.9	1.9	. 130	.070	. 16	. 12	.29	.10	. 19
	DATE	NITRO- GEN, DIS- SOLVED (MG/L AS N)	NITRO- GEN, TOTAL (MG/L AS N)	PHOS- PHORUS, TOTAL (MG/L AS P)	PHOS- PHORUS, DIS- SOLVED (MG/L AS P)	CARBON, ORGANIC TOTAL (MG/L AS C)	CARBON, ORGANIC DIS- SOLVED (MG/L AS C)	CARBON, ORGANIC SUS- PENDED (MG/L AS C)	ARSENIC TOTAL (UG/L AS AS)	TOTAL (UG/L	ARSENIC DIS- SOLVED (UG/L AS AS)	
	OCT	1.2	1.5	0110	020	10						
	11 NO V	1.3	1.5	.040	.030						200	
	29 DEC	1.6	1.7	.030								
	11 JAN	1.9	2.2	.060	.030	5.2					-	
	22 FEB		2.0	.020		6.2						
	28 MAR	2.7	3.2	.050				. 2			160	
	17 APR	1.7	1.8	.030		5.3						
	24 MAY	1.7	1.7	.030		7.4		-				
	16 JUN	1.8	1.8	.040			3.0		300	30	270	
	19 JUL	2.1		.040	.020	4.2			360			
	23 AUG	1.3	1.7	. 100	.030	12						
	07 SEP	1.2	1.5	.080	.020			. 7	270	0	270	
	11	2.1	2.2	.020	.010	3.4			460			
DATE	TIME	BARIUM, TOTAL RECOV- ERABLE (UG/L AS BA)	BARIUM, SUS- PENDED RECOV- ERABLE (UG/L AS BA)	BARIUM, DIS- SOLVED (UG/L	CADMIUM TOTAL RECOV- ERABLE (UG/L AS CD)	CADMIUM SUS- PENDED RECOV- ERABLE (UG/L AS CD)	CADMIUM DIS- SOLVED (UG/L	CHRO-MIUM, TOTAL RECOV-ERABLE (UG/L AS CR)	RECOV.	SOL VED (UG/L	COBALT, TOTAL RECOV- ERABLE (UG/L AS CO)	COBALT, SUS- PENDED RECOV- ERABLE (UG/L AS CO)
OCT												
11 NO V	1100			1	-		-	-		-	-	-
29 DEC	1030	50	0	50	2	0	2	10) 0	10	0	0
11 FEB	1200							-				-
28 MAR	1100	100	30	70	7	0	7	10	0	<10	2	0
17 MAY	1130											-
16 JUN	1200	100	30	70	2	0	2	10	0 0	10	0	0
19 AUG	1200							-				
07	1135	<50		<50	0	0	. 0	20	10	10	0	0
SEP 11	1035							-			· ·	

	COBALT, DIS- SOLVED (UG/L AS CO)	TO: REC ER/	PER, SU TAL PI COV- RI ABLE EI G/L (U	ECOV- RABLE JG/L	OPPER, DIS- SOLVED (UG/L AS CU)	IRON, TOTAL RECOV- ERABLE (UG/L AS FE)	IRON, SUS- PENDED RECOV- ERABLE (UG/L AS FE)	IRON, DIS- SOLVE (UG/L AS FE	TO RE D EF	EAD, OTAL I ECOV- I RABLE I JG/L	RECOV- ERABLE (UG/L	LEAD, DIS- SOLVED (UG/L AS PB)	MANGA- NESE, TOTAL RECOV- ERABLE (UG/L AS MN)	MANGA- NESE, SUS- PENDED RECOV. (UG/L AS MN)
T 1								-	_					
V 9	0		3	2	1	770	520	25	0	4	4	0	20	
C 1	- 22													
B 8	2		3	1	2	350	200	15	0	5	4	1	30	C
R 7	-		3											
Y			-			7.7		-						- 5
6 N	0		3	1	2	820	350	47	0	2	1	1	30	C
9 G								-	-					
7 P	0		0	0	0	830	50	78	0	6	6	0	40	10
1								-	-					-
DAT	NES DI SOI (UC	S- VED	MERCURY TOTAL RECOV- ERABLE (UG/L AS HG)	MERCUR SUS- PENDE RECOV ERABL (UG/L AS HG	D MERCUI - DIS E SOLVI	RECCED ERAB	L PENI V- RECO LE ERAE L (UG/	S- DED NIC DV- D: BLE SC	CKEL, IS- OLVED UG/L S NI)	SELE- NIUM, TOTAL (UG/L AS SE	SELE- NIUM, SUS- PENDE TOTAL (UG/L AS SE	SELE- NIUM D DIS- SOLVE (UG/I	TOT REC	AL OV- BLE /L
OCT 11.				-	_									
NOV 29.		20	.1		0	. 1	3	1	2)	0	0	0
DEC 11.														0
FEB 28.		30	.2			. 2	3	0	3		0	0	0	0
MAR									3					
MAY														0
16. JUN	• •	30	. 1	-	- <	. 1	2	2	0		0	0	0	0
19. AUG	• •			-	-						-	-		2
07. SEP		30	.2		1	. 1	4	2	2)	0	0	0
11.				-	•	-		,			-	-	-	0
DAT	PEN REC ERA (UC	VER, US- UDED COV- ABLE G/L AG)	SILVER, DIS- SOLVED (UG/L AS AG)	ZINC, TOTAL RECOV ERABL (UG/L AS ZN	- RECO E ERABI (UG/I	ED ZINC V- DIS LE SOLV L (UG/	- IN BO ED TOM N L TERI	AL TO DT- IN MA- TO MAL T	DRIN, OTAL BOT- M MA- ERIAL G/KG)	CHLOR- DANE, TOTAL IN BOT- TOM MA- TERIAL (UG/KG)	AZINON TOTAL IN BOT TOM MA TERIA	TOTAL IN BOT TOM MA	TOT I IN B A TOM AL TER	AL OT - MA - IAL
OCT 11.				_	_			0	.0			0	. 0	.0
NOV 29.		0	0	1	0	0	10							
DEC 11.														
FEB				-						-			•	
MAR		0	0	3	0	0	30			-		-		
17. MAY	•••			-	-	-				-	-	-		
16. JUN	• •	0	0	5	0	50	0				-	-		
19.				-	-						-	-		
AUG 07.		0	0	2	0	10	10					-		
SEP														

MAURICE RIVER BASIN

DATE	ETHION, TOTAL IN BOT- TOM MA- TERIAL (UG/KG)	HEPTA - CHLOR, TOTAL IN BOT - TOM MA - TERIAL (UG/KG)	HEPTA CHLOR EPOXID TOT. I BOTTO MATL (UG/KG	E TOT N IN E M TOM . TER	DANE THE TOTAL TOTAL TOTAL TOTAL TOTAL THE TOT	HION, ODTAL C BOT- TO M MA- B ERIAL	XY- F HLOR, T T. IN TO OTTOM E MATL.	MATL.	METHYL TRI- THION, TOT. IN BOTTOM MATL. (UG/KG)	PARA- THION, TOTAL IN BOT- TOM MA- TERIAL (UG/KG)	TOXA - PHENE, TOTAL IN BOT- TOM MA- TERIAL (UG/KG)	TRI- THION, TOTAL IN BOT- TOM MA- TERIAL (UG/KG)
OCT												
11 NOV	.0	.0		0	.0	.0	.0	.0	.0	.0	0	.0
29 DEC			-	-,							1. 1	
11) ·	-					-			
FEB 28			-	-								
MAR 17				_								
MAY												
16 JUN			-	-								7.
19 AUG			-	-,								
07			-	-					-			
SEP 11			_	-						3.2		
				ENGTH OF EXPO- SURE (DAYS)	PERI- PHYTOI BIOMASS TOTAL DRY WEIGHT	S PHYTO BIOMAS ASH WEIGH	N PHYTO S CHROMO GRAPHI T FLUORO	PER ON PHY O- CHRO CGRAP OM FLUO	I- CHI TON PH MO- RA HIC PE ROM PH	DMASS LORO- IYLL ATIO ERI- IYTON		
		D	ATE		G/SQ N	4 G/SQ	M (MG/M2	(MG/	M2) (UN	IITS)		
		DE 1 JA	1	11	.000	.00	0 .00	. 00	000			
			2	41	. 310	. 16	0 .22	. 02	000 68	32		
			4	22	.000	.00	0 .00	. 00	000			
			6	21	.000	.00	0 .05	. 0	000	.00		
			6	18	2.05	1.50	. 17	0 .	000 323	35		

TEMPERATURE, WATER (DEG. C), WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

			TENTERATORE,	WHILM	(DLG. O)	WALDE IDEE	001000.					
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		OCTOBER			NOVEMBER			DECEMBER			JAN UARY	1
1												
2 3 4												
3 4 5												
6												
7												
9												
10												
11 12												
13												
14 15												
16												
17 18										7.5	7.0	7.0
19 20										8.0 7.0	7.0 5.5	7.5 6.5
21										6.0	4.5	5.5
22										5.5	4.5 4.5 2.5 2.5	5.5 5.5 5.5 3.0
23 24										4.0	2.5	3.0
25										3.5		3.0
26 27										4.5	3.0	3.5
28										5.5	4.5	5.0
29 30										5.5 3.5	3.5	4.5 3.0 2.5
31										3.0	2.5 1.5	2.5
MONTH										8.0	1.5	4.5
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		FEBRUARY			MARCH			APRIL			MAY	
1	3.0	1.0	2.0	2.5	1.0	2.0	11.5	8.0	9.5	13.5	12.0	13.0 14.5
2	2.5	1.0	2.0	3.0	1.5	2.5	12.5	8.5 10.0	10.5	16.5 18.5	13.0	14.5
3	3.0 3.5	1.5	2.5 3.0	4.5 5.5	1.5	3.0 4.0	14.0	12.0	13.0	20.0	17.0	18.5
5	4.5	2.5 3.0	3.5	6.5	5.0	5.5	14.0	11.5	12.5	21.0	16.5	19.0
6	4.5	3.0	4.0	7.0	5.0	6.0	15.0	11.0	13.0	22.0	18.5 19.5	20.5
7	5.0	4.0 3.5	4.5 4.5	8.0	5.5 8.0	7.0 9.0	15.5	12.5 13.5 14.5	14.0	20.0	17.0	18.5
8 9 10	5.0	3.5 4.0 4.0	4.5	11.0	9.5	10.0	15.0 17.5	14.5	15.0 16.0	17.5 18.0	15.0 14.5	18.5 16.5 16.5
								14.5	16.0	17.5	16.0	17.0
11 12	5.5	3.5 4.5	4.5 5.0	11.0	8.5 7.5	10.0	18.0 17.5	14.5	16.0	19.5	16.5	18.0
13 14	5.5	3.5	4.5 5.5	7.0	5.5 5.0	6.5 5.5	18.5 17.0	16.0 15.0	17.0 15.5	21.5	18.5	20.0
15	6.5	5.0	5.5	7.0	4.0	5.5	17.0	15.0	15.5	20.5	19.0	20.0
16	6.0	4.5	5.5	8.0	5.0	6.5	14.5	11.0	13.0	20.0	18.0	19.0
17	4.5	3.0	3.5	9.5	7.0	8.5	13.0	9.5	11.0 12.5	19.5	17.5 17.5	18.5
18 19	4.5	2.5	4.5	11.5	9.5 8.5	10.5 9.5	15.0 16.5	10.0	14.5	20.0	17.5	19.0
20	7.5	4.5	6.0	11.0	9.0	10.0	18.0	13.5	16.0	20.0	19.0	19.5
21	8.0	5.5		12.0	10.5	11.0	19.0	15.5	17.0 16.5	19.5	18.0 17.0	18.5
22 23	7.5 8.5	7.0 7.0	7.0 7.5	10.5	8.0 7.0	9.0 8.5	18.0	15.0 14.0	16.0	22.0	19.0	20.5
24 25	9.0 8.5	8.0 7.5	7.5 8.5 8.0	9.5	8.0 8.5	8.5 8.5	18.5	15.0 16.5	17.0 18.0	22.5	20.5	21.5
							18.5	15.0	16.5	23.0	21.0	22.0
26 27	7.5 5.5	5.0 4.5		9.0	7.5 7.5	8.5 9.0	15.0	14.0	14.5	20.5	18.5	20.0
28 29	4.5	3.5	4.0	10.5	8.0 9.5	9.5	14.0	13.5	14.0	20.5	18.0	19.5
30				12.0	10.5	11.0	13.5	12.5	13.0	21.5	19.5	20.5
31				11.0	8.5	10.0				21.0	19.0	20.0
MONTH	9.0	1.0	5.0	12.0	1.0	8.0	19.5	8.0	14.5	23.5	12.0	19.0

MONTH

01411500 MAURICE RIVER AT NORMA, NJ--Continued

TEMPERATURE, WATER (DEG. C). WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

			TEMPERATURE	, WATER	(DEG.	C), WATER	YEAR	OCTOBER	1979 TO	SEPTEMBER	1980		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN		MAX	MIN	MEAN	MAX	MIN	MEAN
		JUNE			JULY	t			AUGUST			SEPTEMB	ER
1 2 3 4 5	23.5 24.5 25.5 24.0 23.0	20.0 22.5 23.0 22.5 20.5	22.0 23.5 24.0 23.5 22.0	24.5 25.0 24.5 25.5 25.5	22.0 22.5 23.5 23.0 24.0	23.5 24.0 24.0 24.0 25.0		26.0 26.5 28.0 27.0 28.0	23.5 24.5 25.0 24.5 25.5	25.0 26.0 26.5 26.0 26.5	25.0 24.5 24.0 23.0 23.0	23.0 22.0 22.5 20.5 21.5	24.5 23.5 23.5 22.0 22.0
6 7 8 9	21.5 23.0 23.0 21.0 19.5	19.5 20.0 21.0 19.0	20.5 21.5 22.0 20.0 19.0	25.5 24.5 23.5 24.0 24.0	23.5 22.0 21.5 21.0 22.5	24.5 23.0 22.5 22.5 23.5		28.0 27.5 26.5 26.5 26.5	25.5 25.5 24.0 25.0 24.5	27.0 26.5 25.5 26.0 25.5	23.5 23.5 22.0 22.0 22.5	21.0 21.5 19.5 19.5 20.5	22.5 22.5 21.0 21.0 21.5
11 12 13 14 15	20.0 20.5 21.5 22.5 23.5	17.5 18.0 19.0 19.0 21.5	19.0 19.5 20.0 21.0 22.5	25.5 25.5 25.0 25.0 25.0	23.0 23.5 22.5 22.0 22.5	24.5 24.5 24.0 24.0 24.0		25.5 25.5 25.5 25.5 25.0	24.0 23.5 23.5 23.0 24.0	25.0 24.5 24.5 24.0 24.5	21.0 21.0 21.5 22.0 22.0	18.5 18.0 18.5 20.0 20.5	20.0 19.5 20.0 21.0 21.5
16 17 18 19 20	21.5 22.0 21.5 21.5 21.5	20.5 19.0 20.0 19.0 19.0	21.0 20.5 21.0 20.5 20.0	26.5 26.0 26.0 26.0 27.0	23.5 24.0 24.5 24.0 24.0	25.0 25.5 25.5		24.0 23.0 22.5 21.0 23.0	22.5 20.0 21.0 20.0 20.5	23.0 22.0 21.5 20.5 21.5	20.5 21.0 21.5 20.5 20.5	18.0 18.0 20.0 18.5 18.0	19.0 19.5 21.0 19.5 19.5
21 22 23 24 25	22.5 23.5 23.5 24.0 24.5	19.5 20.0 20.5 21.0 22.5	21.0 21.5 22.0 22.5 23.5	28.0 27.0 25.0 25.0 25.0	25.5 25.0 24.0 22.5 22.0	24.5 24.0		22.0 21.0 22.0 23.0 23.5	21.0 20.5 19.0 20.5 21.0	21.5 20.5 20.5 22.0 22.5	22.0 23.0 23.5 22.0 20.0	19.0 20.5 22.0 20.0 19.0	20.5 22.0 22.5 21.0 19.5
26 27 28 29 30 31	23.0 25.0 25.0 24.5 25.0	21.5 21.5 23.0 23.0 22.5	22.0 23.0 24.0 23.5 23.5	25.5 25.5 25.5 25.5 25.5 25.5	23.5 23.0 23.5 24.0 24.0 23.5			23.5 24.0 24.0 24.0 24.5 24.5	21.0 22.0 22.0 23.0 23.0 22.5	22.5 23.0 23.0 23.5 23.5 24.0	21.0 18.5 17.5 18.0 18.5	19.0 16.5 14.5 15.5 17.0	20.0 17.5 16.0 17.0 18.0
MONTH	25.5	17.5	21.5	28.0	21.0	24.5		28.0	19.0	24.0	25.0	14.5	20.5
	S	PECTETC (CONDUCTANCE (MICROMH	OS/CM	AT 25 DEG.	C). W	ATER YE	AR OCTOB	ER 1979 TO	SEPTEMBE	R 1980	
DAY			CONDUCTANCE (OS/CM A		C), W	MAX	AR OCTOB	ER 1979 TO MEAN	SE PT EMBE	R 1980 MIN	MEAN
DA Y	MAX	M IN OCTOBE	MEAN	MICROMH		MEAN	C), W	MAX					
		MIN	MEAN		MIN	MEAN	C), W	MAX	MIN			MIN	
1 2		MIN	MEAN		MIN	MEAN	C), W	MAX	MIN			MIN	Y
1 2 3		MIN	MEAN		MIN	MEAN	C), W	MAX	MIN		MAX	MIN JANUAR	Y ====
1 2 3		MIN	MEAN		MIN	MEAN	C), W	MAX	MIN		MAX	MIN JANUAR	Y
1 2 3 4 5		MIN	MEAN		MIN	MEAN	C), W	MAX	MIN		MAX	MIN JANUAR	Y ====
1 2 3 4 5 6 7 8		MIN	MEAN		MIN	MEAN	C), W	MAX	MIN		MA X	MIN JANUAR	Y
1 2 3 4 5		MIN	MEAN		MIN	MEAN	C), W	MAX	MIN		MA X	MIN JANUAR	Y
1 2 3 4 5 6 7 8 9		MIN	MEAN		MIN	MEAN	C), W	MAX	MIN		MA X	MIN JANUAR	Y
1 2 3 4 5 6 7 8 9		MIN	MEAN		MIN	MEAN	C), W	MAX	MIN		MA X	MIN JANUAR	Y ====================================
1 2 3 4 5 6 7 8 9		MIN	MEAN		MIN	MEAN	C), W	MAX	MIN		MA X	MIN JANUAR	Y ====================================
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15		MIN	MEAN		MIN	MEAN	C), W	MAX	MIN		MA X	MIN JANUAR	Y ====================================
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15		MIN	MEAN		MIN	MEAN	C), W	MAX	MIN		MA X	MIN JANUAR	Y
1 2 3 4 5 6 7 8 9		MIN	MEAN		MIN	MEAN	C), W	MAX	MIN		MAX	MIN JANUAR	Y
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19		MIN	MEAN		MIN	MEAN	C), W	MAX	MIN		MAX	MIN JANUAR	Y
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20		MIN	MEAN		MIN	MEAN	C), W	MAX	MIN		MAX	MIN JANUAR	Y

75 70 73

MAURICE RIVER BASIN 33

01411500 MAURICE RIVER AT NORMA, NJ--Continued

SPECIFIC CONDUCTANCE (MICROMHOS/CM AT 25 DEG. C), WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

		SPECIFIC	CONDUCTANCE	(MICROMHO	DS/CM AT	25 DEG.	C), WATER	YEAR OCTO	BER 1979	TO SEPTEMBER	1980	
DA Y	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		FEBRUAR	Y		MARCH			APRIL			MAY	
1 2 3 4 5	84 77 79 80 82	73 73 77 79 80	77 76 78 80 81	75 76 76 77 80	72 73 75 74 75	74 75 76 75 77	68 66 65 65 66	65 64 60 63	66 65 65 63 64	60 62 65 66 68	56 57 62 65 64	57 60 63 65 66
6 7 8 9	81 84 85 86 86	80 80 83 85 82	80 82 84 86 84	78 76 76 74 73	75 73 72 71 71	76 75 74 73 72	72 68 72 70 66	65 67 64 64	67 66 70 67 65	70 71 71 69 71	67 68 66 66 66	68 69 68 68
11 12 13 14 15	83 83 80 81 80	81 77 77 80 78	82 80 78 80 80	73 72 72 66 67	70 71 67 61 65	71 71 70 64 66	64 64 67 71 72	63 62 64 63 67	63 64 68 69	70 72 74 74 72	69 69 71 70 68	69 70 72 73 70
16 17 18 19 20	80 78 76 76 77	78 75 74 75 74	79 76 75 75 76	66 68 70 71 71	65 66 69 70 70	66 67 69 70 71	72 73 72 71 78	68 71 68 70 68	70 72 71 70 73	79 79 80 82 81	66 70 76 76 78	78 80 79
21 22 23 24 25	76 75 73 74 73	73 73 72 72 72	75 74 73 73 73	71 70 70 68 66	64 66 68 66 62	68 69 69 68 64	77 72 72 73 75	72 70 68 67 72	73 71 70 71 73	80 84 84 86 85	76 77 78 74 77	78 80 82 79 80
26 27 28 29 30 31	72 73 73 74	71 71 70 71 	71 72 72 72 72	67 68 68 68 69 70	64 66 67 65 68	65 67 67 67 68 69	77 76 75 66 66	70 72 66 63 60	74 74 69 64 64	78 80 79 87	72 77 73 81	76
MONTH	86	70	77	80	61	70	78	60	68	87	56	72
DA Y	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		JUNE			JULY			AUGUST			SEPTEMB	ER
1 2 3 4 5	84 82 83 80 79	78 79 78 77 73	82 80 79 79 76	69 70 72 74 75	67 67 66 66 71	68 68 70 70 73	87 84 83 85 82	82 80 77 79 79	86 83 80 83 81	93 97 94 94 91	84 91 89 89 88	89 93 91 91
6 7 8 9	82 86 81 75 73	76 69 68 70 67	79 83 74 73 69	77 79 85 85 82	74 75 77 80 78	75 77 82 83 80	83 86 88 89 88	79 80 83 84 85	82 83 86 87 86	91 91 88 86 89	90 88 85 84 85	90 89 87 85 86
11 12 13 14 15	75 80 77 85 80	71 76 73 71 73	73 79 75 76 77	78 80 84 83 85	74 74 76 77 81	77 78 81 81 83	88 91 90 86 85	84 84 83 81	87 86 85 85 83	86 86 87 89 94	84 84 86 89	85 85 87 92
16 17 18 19 20	71 73 75 79 79	65 69 69 73 75	68 71 72 76 76	85 87 87 86 89	83 84 84 85	84 85 85 85 87	88 86 85 93 93	85 82 82 85 86	86 84 83 90 89	92 88 88 88	87 85 82 83 87	89 87 84 86 87
21 22 23 24 25	79 80 87 88 91	74 77 79 85 85	76 78 83 87 88	88 89 85 93 92	84 83 74 84 86	87 86 80 89 88	88 88 90 90 94	87 85 85 81 86	87 86 87 85 90	86 85 83 81 80	83 83 81 77 77	84 84 82 80 79
26 27 28 29 30 31	91 86 86 86 73	83 82 76 75 70	88 83 84 82 71	93 93 86 87 89	89 86 84 84	90 90 85 86 86	101 108 112 101 95 95	94 95 91 92 87	97 103 104 97 93 89	87 87 83 86 83	76 83 82 83 81	82 84 83 84 82
MONTH	91	65	78	88 93	86 66	87 81	112	83 77	88	97	76	86

MAURICE RIVER BASIN

PHYTOPLANKTON ANALYSES, OCTOBER 1979 TO SEPTEMBER 1980

DATE TIME		11,79		29,79 1030		17,80 130		16,80 200
TOTAL CELLS/ML		590		720		230		140
DIVERSITY: DIVISION .CLASSORDERFAMILYGENUS		1.7 1.7 1.9 2.6 2.7		1.8 1.9 0.0 0.0		1.8 2.0 2.3 2.7 2.7	- 4 6	1. 1 1. 1 1. 1 1. 1 1. 1
ORGANISM	CELLS /ML	PER- CENT	CELLS /ML	PER- CENT	CELLS /ML	PER- CENT	CELLS /ML	PER- CENT
CHLOROPHYTA (GREEN ALGAE) .CHLOROPHYCEAECHLOROCOCCALESOOCYSTACEAEANKISTRODESMUSCHLORELLA	5 80	1 14	10	1			-	
DICTYOS PHAERIUM		-	==	_		_		
KIRCHNERIELLA		-		-		-		-
SCENEDESMACEAE		-	7-	-		-		-
CRUCIGENIA		-		-	26	1.7		-
SCENEDESMUS .TETRAS PORALES PALMELLACEAE	50	9	50	7	26	11		
SPHAEROCYSTISVOLVOCALESCHLAMYDOMONADACEAE		-		-				-
CHLAM YDOM ON AS	15	3	70	10	39#	17	26#	18
CHRYSOPHYTA .BACILLARIOPHYCEAECENTRALESCOSCINODISCACEAE								
CYCLOTELLAPENNALESACHNANTHACEAE	5	1	50	7		-	77	- 1 T
ACHNANTHES CYMBELLACEAE		-	25	3		-		-
CYMBELLA DIATOMACEAE	5	1		-		-		-
DIATOMA EUNOTIACEAE		-		-		-		-
EUNOTIA FRAGILARIACEAE		-	45	6		-		-
ASTERIONELLA		-		-		- 1		-
FRAGILARIA	60	10	50	7		-		-
SYNEDRA	5	1	5	1		-		-
GOM PHONEMATACEAE	_		_		00			
GOM PHONEMA NA VICULA CEAE	5	1	5	1	26	11		
NAVICULA	30	5	25	3	26	11		-
NITZSCHIACEAE NITZSCHIA	15	3	30	4	13	6		-

PHYTOPLANKTON ANALYSES, OCTOBER 1979 TO SEPTEMBER 1980

CHRYSOPHYTA								
MARKI LARTACEAE								
TABELLARIACEAE	15	3	5	1		_		_
. CHR YSOPH YCEAE	13	3	,			7	174.4	
CHRYSOM ON A DA LES								
MALLOMONA DA CEAE								
MALLOMONAS		-		-		-	13	9
OCHROMONA DACEAE	- 22		15	2	13	6	22	
connoronab			1,5	_	13			-
CRYPTOPHYTA (CRYPTOMONADS)								
. CRYPTOPHYCEAE		-	5	1		-		-
CRY PT OMONA DALES								
CRYPTOCHRYSIDACEAE CHROOMONAS	190		-02	12.		100	22	
CRY PT OMONA DA CEAE	-	7	125	-		0.20	1.77	-
CRYPTOMONAS	30	5		-		-		-
CYANOPHYTA (BLUE-GREEN ALGAE)								
.CYANOPHYCEAE								
CHROOCOCCACEAE								
ANACYSTIS		-	250#	35	77#	33		-
HORMOGONALES								
NOSTOCACEAE								
ANABAENA OSCILLATORIACEAE		-		-		-		-
OSCILLATORIA	-,22		22	-		227		121
PHORMIDIUM		_		-		_	100#	73
SCHIZ OTHRIX	270#	45	45	6		-		-
	2.02							
EUGLENOPHYTA (EUGLENOIDS)								
.EUGLENOPHYCEAE								
EUGLENACEAE								
EUGLENA		-	10	1	13	6		-
TRACHELOMONAS		-	25	3		_		-
NOTE: # - DOMINANT ORGANISM; E	DUAL TO OR	GREATI	ER THAN	15%				
NOIE. # - DOMINANT ONGANISM; E								
* - OBSERVED ORGANISM, MA	AY NOT HAV	E BEEN	COUNTED	; LESS	I HAN 17	2%		
* - OBSERVED ORGANISM, MA	AY NOT HAV	E BEEN	COUNTED	; LESS	THAN 17	2%		
* - OBSERVED ORGANISM, MA	AY NOT HAV						SEP	11,80
* - OBSERVED ORGANISM, MA	AY NOT HAV	E BEEN 28,80	JUL	23,80 045	A UG	7,80 135		11,80 035
* - OBSERVED ORGANISM, MA DATE TIME	AY NOT HAV	28,80 001	JUL 1	23,80 045	A UG	7,80 135		035
* - OBSERVED ORGANISM, MA DATE IIME	AY NOT HAV	28,80	JUL 1	23, 80	A UG	7,80		
* - OBSERVED ORGANISM, MA DATE IIME FOTAL CELLS/ML DIVERSITY: DIVISION	JUN O	28,80 001	JUL 1	23,80 045	A UG 1	7,80 135 400		035 880 1.3
* - OBSERVED ORGANISM, MADATE TIME TOTAL CELLS/ML DIVERSITY: DIVISION .CLASS	JUN O	28,80 001 39 0.9	JUL 1	23, 80 045 450 1.6	A UG 1	7,80 135 400 1.3		035 880 1.3 1.3
* - OBSERVED ORGANISM, MADATE TIME TOTAL CELLS/ML DIVERSITY: DIVISION .CLASSORDER	JUN O	28,80 001 39 0.9 0.9	JUL 1	23,80 045 450 1.6 1.6 2.3	A UG 1	7,80 135 400 1.3 1.3		035 880 1.3 1.3
* - OBSERVED ORGANISM, MADATE TIME TOTAL CELLS/ML DIVERSITY: DIVISION . CLASSORDERFAMILY	JUN O	28,80 001 39 0.9 0.9 1.6	JUL 1	23,80 045 450 1.6 1.6 2.3 2.7	A UG 1	7,80 135 400 1.3 1.3 1.5 2.3		035 880 1.3 1.3 1.6
* - OBSERVED ORGANISM, MADATE ITME TOTAL CELLS/ML DIVERSITY: DIVISION .CLASSORDER	JUN O	28,80 001 39 0.9 0.9	JUL 1	23,80 045 450 1.6 1.6 2.3	A UG 1	7,80 135 400 1.3 1.3		035 880 1.3 1.3
* - OBSERVED ORGANISM, MADATE TIME TOTAL CELLS/ML DIVERSITY: DIVISION . CLASSORDERFAMILY	JUN O	28,80 001 39 0.9 0.9 1.6 1.6	JUL 1	23,80 045 450 1.6 1.6 2.3 2.7 2.7	A UG 1	7,80 135 400 1.3 1.3 1.5 2.3 2.4	1	035 880 1.3 1.3 1.6 1.7 2.3
* - OBSERVED ORGANISM, MADATE FIME FOTAL CELLS/ML DIVERSITY: DIVISIONCLASSORDERFAMILYGENUS	JUN O	28, 80 0001 39 0.9 0.9 1.6 1.6 1.6	JUL 1	23,80 045 450 1.6 1.6 2.3 2.7 2.7	AUG 1	7,80 135 400 1.3 1.3 1.5 2.3 2.4	CELLS	035 880 1.3 1.3 1.6 1.7 2.3
* - OBSERVED ORGANISM, MADATE FIME FOTAL CELLS/ML DIVERSITY: DIVISION . CLASSORDERFAMILY	JUN O	28,80 001 39 0.9 0.9 1.6 1.6	JUL 1	23,80 045 450 1.6 1.6 2.3 2.7 2.7	A UG 1	7,80 135 400 1.3 1.3 1.5 2.3 2.4	1	035 880 1.3 1.3 1.6 1.7 2.3
* - OBSERVED ORGANISM, MIDDATE FIME FOTAL CELLS/ML DIVERSITY: DIVISIONCLASSORDERFAMILYGENUS ORGANISM CHLOROPHYTA (GREEN ALGAE)	JUN O	28, 80 0001 39 0.9 0.9 1.6 1.6 1.6	JUL 1	23,80 045 450 1.6 1.6 2.3 2.7 2.7	AUG 1	7,80 135 400 1.3 1.3 1.5 2.3 2.4	CELLS	035 880 1.3 1.3 1.6 1.7 2.3
* - OBSERVED ORGANISM, MA DATE FIME FOTAL CELLS/ML DIVERSITY: DIVISIONCLASSORDERFAMILYGENUS ORGANISM CHLOROPHYTA (GREEN ALGAE) .CHLOROPHYCEAE	JUN O	28, 80 0001 39 0.9 0.9 1.6 1.6 1.6	JUL 1	23,80 045 450 1.6 1.6 2.3 2.7 2.7	AUG 1	7,80 135 400 1.3 1.3 1.5 2.3 2.4	CELLS	035 880 1.3 1.3 1.6 1.7 2.3
* - OBSERVED ORGANISM, MA DATE IIME FOTAL CELLS/ML DIVERSITY: DIVISION . CLASS ORDERFAMILYGENUS ORGANISM CHLOROPHYTA (GREEN ALGAE) .CHLOROPHYCEAECHLOROCOCCALES	JUN O	28, 80 0001 39 0.9 0.9 1.6 1.6 1.6	JUL 1	23,80 045 450 1.6 1.6 2.3 2.7 2.7	AUG 1	7,80 135 400 1.3 1.3 1.5 2.3 2.4	CELLS	035 880 1.3 1.3 1.6 1.7 2.3
* - OBSERVED ORGANISM, MADATE FIME FIME FOTAL CELLS/ML DIVERSITY: DIVISIONCLASSORDERFAMILYGENUS ORGANISM CHLOROPHYTA (GREEN ALGAE)CHLOROCOCCALESCHLOROCOCCALESOCYSTACEAE	JUN O	28, 80 0001 39 0.9 0.9 1.6 1.6 1.6	JUL 1	23,80 045 450 1.6 1.6 2.3 2.7 2.7	AUG 1	7,80 135 400 1.3 1.3 1.5 2.3 2.4	CELLS	035 880 1.3 1.3 1.6 1.7 2.3
* - OBSERVED ORGANISM, MA DATE TIME TOTAL CELLS/ML DIVERSITY: DIVISIONCLASSORDERFAMILYGENUS ORGANISM CHLOROPHYTA (GREEN ALGAE)CHLOROPHYCEAECHLOROCOCCALESOOCYSTACEAEANKISTRODESMUS	JUN O	28,80 001 39 0.9 0.9 1.6 1.6 1.6	JUL 1	23,80 045 450 1.6 1.6 2.3 2.7 2.7	AUG 1 1 1 CELLS /ML	7,80 135 400 1.3 1.5 2.3 2.4 PER-CENT	CELLS	035 880 1.3 1.3 1.6 1.7 2.3
* - OBSERVED ORGANISM, MA DATE TIME TOTAL CELLS/ML DIVERSITY: DIVISIONCLASSORDERFAMILYGENUS ORGANISM CHLOROPHYTA (GREEN ALGAE)CHLOROPHYCEAECHLOROCOCCALESOC YSTACEAEANKISTRODESMUSCHLORELLA	JUN O	28, 80 0001 39 0.9 0.9 1.6 1.6 1.6	JUL 1	23,80 045 450 1.6 1.6 2.3 2.7 2.7	AUG 1 1 1 CELLS /ML	7,80 135 400 1.3 1.5 2.3 2.4 PER- CENT	CELLS	035 880 1.3 1.3 1.6 1.7 2.3
* - OBSERVED ORGANISM, MA DATE FIME FIOTAL CELLS/ML DIVERSITY: DIVISIONCLASSORDERFAMILYGENUS ORGANISM CHLOROPHYTA (GREEN ALGAE)CHLOROCOCCALESOCYSTACEAEANKISTRODESMUSCHLORELLADICTYOSPHAERIUM	JUN O	28,80 001 39 0.9 0.9 1.6 1.6 1.6	JUL 1 CELLS /ML	23,80 045 450 1.6 1.6 2.3 2.7 2.7	AUG 1 1 1 CELLS /ML	7,80 135 400 1.3 1.5 2.3 2.4 PER-CENT	CELLS	035 880 1.3 1.3 1.6 1.7 2.3
* - OBSERVED ORGANISM, MA DATE TIME TOTAL CELLS/ML DIVERSITY: DIVISIONCLASSORDERFAMILYGENUS ORGANISM CHLOROPHYTA (GREEN ALGAE)CHLOROPHYCEAECHLOROCOCCALESOOC YSTACEAEANKISTRODESMUSCHLORELIADICT YOSPHAERIUMKIRCHNERIELLASELENASTRUM	JUN O	28,80 001 39 0.9 0.9 1.6 1.6 1.6 PER-CENT	JUL 1	23,80 045 450 1.6 1.6 2.3 2.7 2.7	AUG 1 1 1 1 CELLS /ML 13 -39	7,80 135 400 1.3 1.5 2.3 2.4 PER- CENT	CELLS	035 880 1.3 1.3 1.6 1.7 2.3
* - OBSERVED ORGANISM, MA DATE FIME FOTAL CELLS/ML DIVERSITY: DIVISIONCLASSORDERFAMILYGENUS ORGANISM CHLOROPHYTA (GREEN ALGAE)CHLOROCOCCALESOCLOROCOCCALESOCYSTACEAEANKISTRODESMUSCHLORELLADICTYOSPHAERIUMKIRCHNERIELLASELENASTRUMSCENEDESMACEAE	JUN O	28,80 001 39 0.9 0.9 1.6 1.6 1.6 PER-CENT	JUL 1 CELLS /ML	23,80 045 450 1.6 1.6 2.3 2.7 2.7	AUG 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	7,80 135 400 1.3 1.5 2.3 2.4 PER-CENT	CELLS /ML	035 880 1.3 1.3 1.6 1.7 2.3 PER-CENT
* - OBSERVED ORGANISM, MA DATE TIME TOTAL CELLS/ML DIVERSITY: DIVISIONCLASSORDERFAMILYGENUS ORGANISM CHLOROPHYTA (GREEN ALGAE) .CHLOROPHYCEAECHLOROCOCCALESOOCYSTACEAEANKISTRODESMUSCHLORELLADICTYOSPHAERIUMKIRCHNERIELLASELENASTRUMSCENEDESMACEAECRUCIGENIA	JUN O	28,80 001 39 0.9 0.9 1.6 1.6 1.6 PER-CENT	JUL 1 CELLS /ML	23,80 045 450 1.6 1.6 2.3 2.7 2.7 PER-CENT	AUG 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	7,80 135 400 1.3 1.5 2.3 2.4 PER-CENT	CELLS /ML	035 880 1.3 1.3 1.6 1.7 2.3
* - OBSERVED ORGANISM, MA DATE TIME TOTAL CELLS/ML DIVERSITY: DIVISIONCLASSORDERFAMILYGENUS ORGANISM CHLOROPHYTA (GREEN ALGAE) .CHLOROPHYCEAECHLOROCOCCALESOOCYSTACEAEANKISTRODESMUSCHLORELLADICTYOSPHAERIUMKIRCHNEFILLASELENASTRUMSELENASTRUMSCENEDESMACEAECRUCIGENIASCENEDESMUS	JUN O	28,80 001 39 0.9 0.9 1.6 1.6 1.6 PER-CENT	JUL 1 CELLS /ML	23,80 045 450 1.6 1.6 2.3 2.7 2.7 PER-CENT	AUG 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	7,80 135 400 1.3 1.5 2.3 2.4 PER-CENT	CELLS /ML	035 880 1.3 1.3 1.6 1.7 2.3 PER-CENT
* - OBSERVED ORGANISM, MA DATE FIME FOTAL CELLS/ML DIVERSITY: DIVISIONCLASSORDERFAMILYGENUS ORGANISM CHLOROPHYTA (GREEN ALGAE)CHLOROCOCCALESOCYSTACEAEANKISTRODESMUSCHLORELLADICTYOSPHAERIUMKIRCHNERIELLASELENASTRUMSCENEDESMUSCRUCIGENIACRUCIGENIASCENEDESMUSTETRASPORALES	JUN O	28,80 001 39 0.9 0.9 1.6 1.6 1.6 PER-CENT	JUL 1 CELLS /ML	23,80 045 450 1.6 1.6 2.3 2.7 2.7 PER-CENT	AUG 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	7,80 135 400 1.3 1.5 2.3 2.4 PER-CENT	CELLS /ML	035 880 1.3 1.3 1.6 1.7 2.3 PER-CENT
* - OBSERVED ORGANISM, MA DATE FIME FOTAL CELLS/ML DIVERSITY: DIVISIONCLASSORDERFAMILYGENUS ORGANISM CHLOROPHYTA (GREEN ALGAE) .CHLOROPHYCEAECHLOROPHYCEAECHLOROCOCALESOOCYSTACEAEANXISTRODESMUSCHLORELLADICTYOSPHAERIUMKIRCHNERIELLASELENASTRUMSCENEDESMUSCRUCIGENIASCENEDESMUSTETRAS PORALESPALMELLACEAE	JUN O	28,80 001 39 0.9 0.9 1.6 1.6 1.6 PER-CENT	JUL 1 CELLS /ML	23,80 045 450 1.6 1.6 2.3 2.7 2.7 PER-CENT	AUG 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	7,80 135 400 1.3 1.5 2.3 2.4 PER-CENT	CELLS /ML	035 880 1.3 1.3 1.6 1.7 2.3 PER-CENT
* - OBSERVED ORGANISM, MA DATE FIME FITHE FOTAL CELLS/ML DIVERSITY: DIVISIONCLASSORDERFAMILYGENUS ORGANISM CHLOROPHYTA (GREEN ALGAE) .CHLOROPHYCEAECHLOROCOCCALESOOCYSTACEAEANKISTRODESMUSCHLORELLADICTYOSPHAERIUMKIRCHNERIELLASELENASTRUMSCENEDESMUSCRUCIGENIASCENEDESMUSTETRASPORALESPALMELLACEAESPHAEROCYSTISVOLVOCALESVOLVOCALES	JUN O	28,80 001 39 0.9 0.9 1.6 1.6 1.6 PER-CENT	JUL 1 CELLS /ML	23,80 045 450 1.6 1.6 2.3 2.7 2.7 PER-CENT	AUG 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	7,80 135 400 1.3 1.5 2.3 2.4 PER-CENT	CELLS /ML	035 880 1.3 1.6 1.7 2.3 PER-CENT
* - OBSERVED ORGANISM, MA DATE FIME FOTAL CELLS/ML DIVERSITY: DIVISIONCLASSORDERFAMILYGENUS ORGANISM CHLOROPHYTA (GREEN ALGAE) .CHLOROPHYCEAECHLOROPHYCEAECHLOROCOCCALESOOCYSTACEAEANKISTRODESMUSCHLORELLADICTYOSPHAERIUMKIRCHNERIELLASELENASTRUMSCENEDESMUSCHLORELLASCENEDESMUSCRUCIGENIASCENEDESMUSTETRAS PORALESPALMELLACEAESPHAEROCYSTISVOLVOCALESCHLOMYDOMONA DACEAE	JUN O	28,80 001 39 0.9 0.9 1.6 1.6 1.6 PER-CENT	JUL 1 CELLS /ML	23, 80 045 450 1.6 1.6 2.3 2.7 2.7 PER-CENT	AUG 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	7,80 135 400 1.3 1.5 2.3 2.4 PER-CENT	CELLS /ML	035 880 1.3 1.6 1.7 2.3 PER-CENT
* - OBSERVED ORGANISM, MA DATE TIME TOTAL CELLS/ML DIVERSITY: DIVISIONCLASSORDERFAMILYGENUS ORGANISM CHLOROPHYTA (GREEN ALGAE) .CHLOROPHYCEAECHLOROCOCCALESOOCYSTACEAEANKISTRODESMUSCHLORELLADICTYOSPHAERIUMKIRCHLORELLASELENASTRUMSCENEDESMUSCHLORELLASELENASTRUMSCENEDESMUSCHLORELLASELENASTRUMSCENEDESMUSTETRAS PORALESCRUCIGENIASCENEDESMUSTETRAS PORALESPALMELLACEAESPHAEROCYSTISVOLVOCALESCHLOMYDOMONA DACEAE	JUN O	28,80 001 39 0.9 0.9 1.6 1.6 1.6 PER-CENT	JUL 1 CELLS /ML	23,80 045 450 1.6 1.6 2.3 2.7 2.7 PER-CENT	AUG 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	7,80 135 400 1.3 1.5 2.3 2.4 PER-CENT	CELLS /ML	035 880 1.3 1.6 1.7 2.3 PER-CENT
* - OBSERVED ORGANISM, MA DATE FIME FOTAL CELLS/ML DIVERSITY: DIVISIONCLASSORDERFAMILYGENUS ORGANISM CHLOROPHYTA (GREEN ALGAE) .CHLOROPHYCEAECHLOROCOCCALESOOCYSTACEAEANKISTRODESMUSCHLORELLADICTYOSPHAERIUMKIRCHNERIELLASELENASTRUMSCENEDESMUSCRUCIGENIASCENEDESMUSTETRASPORALESPALMELLACEAEPALMELLACEAESPHAEROCYSTISVOLVOCALESCHLAMYDOMONADACEAECHLAMYDOMONAS	JUN O	28,80 001 39 0.9 0.9 1.6 1.6 1.6 PER-CENT	JUL 1 CELLS /ML	23, 80 045 450 1.6 1.6 2.3 2.7 2.7 PER-CENT	AUG 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	7,80 135 400 1.3 1.5 2.3 2.4 PER-CENT	CELLS /ML	035 880 1.3 1.6 1.7 2.3 PER-CENT
* - OBSERVED ORGANISM, MA DATE FIME FOTAL CELLS/ML DIVERSITY: DIVISIONCLASSORDERFAMILYGENUS ORGANISM CHLOROPHYTA (GREEN ALGAE) .CHLOROPHYCEAECHLOROPHYCEAECHLOROCOCCALESOOCYSTACEAEANKISTRODESMUSCHLORELLADICTYOS PHAERIUMKIRCHNERIELLASELENASTRUMSCENEDESMUSTETRAS PORALESCRUCIGENIASCENEDESMUSTETRAS PORALESPALMELLACEAEPALMELLACEAESPHAEROCYSTISVOLVOCALESCHLAMYDOMONA DACEAECHLAMYDOMONAS CHRYSOPHYTA	JUN O	28,80 001 39 0.9 0.9 1.6 1.6 1.6 PER-CENT	JUL 1 CELLS /ML	23, 80 045 450 1.6 1.6 2.3 2.7 2.7 PER-CENT	AUG 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	7,80 135 400 1.3 1.5 2.3 2.4 PER-CENT	CELLS /ML	035 880 1.3 1.6 1.7 2.3 PER-CENT
* - OBSERVED ORGANISM, MA DATE FIME FIME FOTAL CELLS/ML DIVERSITY: DIVISIONCLASSORDERFAMILYGENUS ORGANISM CHLOROPHYTA (GREEN ALGAE) .CHLOROPHYCEAECHLOROCOCCALESOOCYSTACEAEANKISTRODESMUSCHLORELLADICTYOSPHAERIUMKIRCHNERIELLASELENASTRUMSCENEDESMUSCRUCIGENIASCENEDESMUSTETRASPORALESPALMELLACEAEPALMELLACEAESPHAEROCYSTISVOLVOCALESCHLAMYDOMONADACEAECHLAMYDOMONAS CHRYSOPHYTABACILLARIOPHYCEAECENTRALESCHLAMYDOMONAS CHRYSOPHYTABACILLARIOPHYCEAECENTRALESCHLAMYDOMONASCHLAMIOPHYCEAECENTRALES	JUN O	28,80 001 39 0.9 0.9 1.6 1.6 1.6 PER-CENT	JUL 1 CELLS /ML	23, 80 045 450 1.6 1.6 2.3 2.7 2.7 PER-CENT	AUG 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	7,80 135 400 1.3 1.5 2.3 2.4 PER-CENT	CELLS /ML	035 880 1.3 1.6 1.7 2.3 PER-CENT
* - OBSERVED ORGANISM, MA DATE TIME FOTAL CELLS/ML DIVERSITY: DIVISIONCLASSORDERFAMILYGENUS ORGANISM CHLOROPHYTA (GREEN ALGAE) .CHLOROPHYCEAECHLOROPHYCEAECHLOROCOCCALESOOCYSTACEAEANKISTRODESMUSCHLORELLASELENASTRUMSELENASTRUMSELENASTRUMSCENEDESMUSTETRAS PORALESPALMELLACEAESPHAEROCYSTISVOLVOCALESCHLAMYDOMONA DACEAECHLAMYDOMONA DACEAECHLAMYDOMONAS CHRYSOPHYTA .BACILLARIOPHYCEAECENTRALESCHLAMYDOMONAS CHRYSOPHYTA .BACILLARIOPHYCEAECENTRALESCENTRALESCENTRALESCHLAMYDOMONAS CHRYSOPHYTA .BACILLARIOPHYCEAECENTRALESCOSCINODISCACEAE	CELLS /ML	28,80 001 39 0.9 0.9 1.6 1.6 1.6 1.6 7 7	JUL 1 CELLS /ML	23, 80 045 450 1.6 1.6 2.3 2.7 2.7 PER-CENT	AUG 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	7,80 135 400 1.3 1.5 2.3 2.4 PER-CENT 1 - 3 - 2	CELLS /ML	035 880 1.3 1.6 1.7 2.3 PER-CENT
* - OBSERVED ORGANISM, MA DATE FIME FOTAL CELLS/ML DIVERSITY: DIVISIONCLASSORDERFAMILYGENUS ORGANISM CHLOROPHYTA (GREEN ALGAE)CHLOROPHYCEAECHLOROCOCCALESOOCYSTACEAEANKISTRODESMUSCHLORELLADICTYOSPHAERIUMKIRCHNEFIELLASELENASTRUMSCENEDESMUSTETRAS PORALESCRUCIGENIASCENEDESMUSTETRAS PORALESPALMELLACEAESPHAEROCYSTIS .VOLVOCALESCHLAMYDOMONA DACEAECHLAMYDOMONAS CHRYSOPHYTA .BACILLARIOPHYCEAECHLAMYDOMONAS CHRYSOPHYTA .BACILLARIOPHYCEAECRUCIGCIA	JUN O	28,80 001 39 0.9 0.9 1.6 1.6 1.6 1.6 7 7	JUL 1 CELLS /ML	23, 80 045 450 1.6 1.6 2.3 2.7 2.7 PER-CENT	AUG 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	7,80 135 400 1.3 1.5 2.3 2.4 PER-CENT	CELLS /ML	035 880 1.3 1.6 1.7 2.3 PER-CENT
* - OBSERVED ORGANISM, MA DATE FIME FOTAL CELLS/ML DIVERSITY: DIVISIONCLASSORDERFAMILYGENUS ORGANISM CHLOROPHYTA (GREEN ALGAE) .CHLOROPHYCEAECHLOROCOCCALESOOCYSTACEAEANKISTRODESMUSCHLORELLADICTYOSPHAERIUMKIRCHNETIELLASELENASTRUMSCENEDESMUSCRUCIGENIASCENEDESMUSTETRAS PORALESPALMELLACEAESPHAEROCYSTISVOLVOCALESCHLAM YDOMONAD ACEAECHLAM YDOMONAS CHRYSOPHYTA .BACILLARIOPHYCEAECENTRALESCOSCINODISCACEAECCYCLOTELLACENTRALESCOSCINODISCACEAECYCLOTELLACYCLOTELLAPENNALES	CELLS /ML	28,80 001 39 0.9 0.9 1.6 1.6 1.6 1.6 7 7	JUL 1 CELLS /ML	23, 80 045 450 1.6 1.6 2.3 2.7 2.7 PER-CENT	AUG 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	7,80 135 400 1.3 1.5 2.3 2.4 PER-CENT 1 - 3 - 2	CELLS /ML	035 880 1.3 1.6 1.7 2.3 PER-CENT
* - OBSERVED ORGANISM, MA DATE TIME TOTAL CELLS/ML DIVERSITY: DIVISIONCLASSORDERFAMILYGENUS ORGANISM CHLOROPHYTA (GREEN ALGAE) .CHLOROPHYCEAECHLOROPHYCEAECHLOROCCCALESOOCYSTACEAEANKISTRODESMUSCHLORELLASELENASTRUMSELENASTRUMSELENASTRUMSCENEDESMUSTETRAS PORALESPALMELLACEAESPHAEROCYSTIS .VOLVOCALESCHLAMYDOMONA DACEAECHLAMYDOMONA DACEAECHLAMYDOMONAS CHRYSOPHYTA .BACILLARIOPHYCEAECHLAMYDOMONAS CHRYSOPHYTA .BACILLARIOPHYCEAECCYCLOTELLACYCLOTELLACYCLOTELLACYCLOTELLACYCLOTELLAPENNALESACHNANTHACEAE	CELLS /ML	28,80 001 39 0.9 0.9 1.6 1.6 1.6 1.6 7 7	JUL 1 CELLS /ML	23, 80 045 450 1.6 1.6 2.3 2.7 2.7 PER-CENT	AUG 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	7,80 135 400 1.3 1.5 2.3 2.4 PER-CENT 1 - 3 - 2	CELLS /ML	035 880 1.3 1.6 1.7 2.3 PER-CENT
* - OBSERVED ORGANISM, MA DATE ITME TOTAL CELLS/ML DIVERSITY: DIVISIONCLASSORDERFAMILYGENUS ORGANISM CHLOROPHYTA (GREEN ALGAE) .CHLOROPHYCEAECHLOROPHYCEAECHLOROCOCCALESOOC YSTACEAEANKISTRODESMUSCHLORELLADICT YOS PHAERIUMKIRCHNERIELLASELENASTRUMSCENEDESMUSTETRAS PORALESCRUCIGENIASCENEDESMUS .TETRAS PORALESPALMELLACEAESPHAEROCYSTIS .VOLVOCALESCHLAM YDOMONA DACEAECHLAM YDOMONAS CHRYSOPHYTA .BACILLARIOPHYCEAECHLAM YDOMONAS CHEYSOPHYTA .BACILLARIOPHYCEAECHLAM YDOMONASCHURALESCOSCINODISCACEAECYCLOTELLAPENNALESACHNANTHACEAEACHNANTHACEAEACHNANTHES	CELLS /ML	28,80 001 39 0.9 0.9 1.6 1.6 1.6 1.6 7 7	JUL 1 CELLS /ML	23, 80 045 450 1.6 1.6 2.3 2.7 2.7 PER-CENT	AUG 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	7,80 135 400 1.3 1.5 2.3 2.4 PER-CENT 1 - 3 - 2	CELLS /ML	035 880 1.3 1.6 1.7 2.3 PER-CENT
* - OBSERVED ORGANISM, M. DATE TIME TOTAL CELLS/ML DIVERSITY: DIVISIONCLASSORDERFAMILYGENUS ORGANISM CHLOROPHYTA (GREEN ALGAE)CHLOROPHYCEAECHLOROCOCCALESOOCYSTACEAEANKISTRODESMUSCHLORELLADICTYOSPHAERIUM .KIRCHORENIELLASELENASTRUMSCENEDESMUSTETRAS PORALESCRUCIGENIASCENEDESMUS .TETRAS PORALESPALMELLACEAESPHAEROCYSTIS .VOLVOCALESCHLAM YDOM ONA DACEAECHLAM YDOM ONA DACEAECYCLOTELLAPENNALESCYCLOTELLAPENNALESACHNANTHACEAEACHNANTHACEAEACHNANTHACEAEACHNANTHACEAEACHNANTHACEAEACHNANTHACEAEACHNANTHACEAEACHNANTHACEAEACHNANTHACEAECYMBELLACEAECYMBELLACEAECYMBELLACEAECYMBELLACEAECYMBELLACEAECYMBELLACEAECYMBELLACEAECYMBELLACEAECYMBELLACEAE	CELLS /ML	28,80 001 39 0.9 0.9 1.6 1.6 1.6 1.6 7 7	JUL 1 CELLS /ML	23, 80 045 450 1.6 1.6 2.3 2.7 2.7 PER-CENT	AUG 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	7,80 135 400 1.3 1.5 2.3 2.4 PER-CENT 1 - 3 - 2	CELLS /ML	035 880 1.3 1.6 1.7 2.3 PER-CENT
* - OBSERVED ORGANISM, MA DATE TIME TOTAL CELLS/ML DIVERSITY: DIVISIONGLASSORDERFAMILYGENUS ORGANISM CHLOROPHYTA (GREEN ALGAE) .CHLOROPHYCEAEHLOROCOCCALESOOCYSTACEAEANKISTRODESMUSCHLORELLADICTYOSPHAERIUMKIRCHNERIELLASELENASTRUMSCENEDESMACEAECRUCIGENIASCENEDESMUSTETRAS PORALESPALMELLACEAESPHAEROCYSTIS .VOLVOCALESCHLAMYDOMONA DA CEAECHLAMYDOMONAS CHRYSOPHYTA .BACILLARIOPHYCEAECHLAMYDOMONAS CHRYSOPHYTA .BACILLARIOPHYCEAECHCHAMYDOMONAS CHRYSOPHYTA .BACILLARIOPHYCEAECHCHAMYDOMONAS CHRYSOPHYTA .BACILLARIOPHYCEAECHCHAMYDOMONAS CHRYSOPHYTA .BACILLARIOPHYCEAECHCHAMYDOMONAS CHRYSOPHYTA .BACILLARIOPHYCEAECYMBELLACEAECYMBELLACEAECYMBELLACEAECYMBELLACEAECYMBELLACEAECYMBELLACEAE	CELLS /ML	28,80 001 39 0.9 0.9 1.6 1.6 1.6 1.6 7 7	JUL 1 CELLS /ML	23, 80 045 450 1.6 1.6 2.3 2.7 2.7 PER-CENT	AUG 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	7,80 135 400 1.3 1.3 1.5 2.3 2.4 PER-CENT 1	CELLS /ML	035 880 1.3 1.6 1.7 2.3 PER-CENT
* - OBSERVED ORGANISM, M. DATE TIME TOTAL CELLS/ML DIVERSITY: DIVISIONCLASSORDERFAMILYGENUS ORGANISM CHLOROPHYTA (GREEN ALGAE)CHLOROPHYCEAECHLOROCOCCALESOOCYSTACEAEANKISTRODESMUSCHLORELLADICTYOSPHAERIUMKIRCHNERIELLASELENASTRUMSCENEDESMUSTETRASPORALESPALMELLACEAESPHAEROCYSTIS .VOLVOCALESCHLAMYDOMONADACEAECHLAMYDOMONADACEAECHLAMYDOMONADACEAECHLAMYDOMONADACEAECHLAMYDOMONADACEAECHLAMYDOMONADACEAECHLAMYDOMONADACEAECHLAMYDOMONADACEAECHLAMYDOMONADACEAECYCLOTELLAPENNALESCYCLOTELLAPENNALESCYCLOTELLAPENNALESACHNANTHACEAEACHNANTHACEAEACHNANTHACEAEACHNANTHACEAEACHNANTHACEAEACHNANTHACEAEACHNANTHACEAEACHNANTHACEAEACHNANTHACEAEACHNANTHACEAEACHMANTHACEAEACHMANTHACEAECYMBELLACEAECYMBELLACEAECYMBELLACEAECYMBELLACEAECYMBELLACEAECYMBELLACEAECYMBELLACEAECYMBELLACEAECYMBELLACEAECYMBELLACEAECYMBELLACEAECYMBELLACEAE	CELLS /ML	28,80 001 39 0.9 0.9 1.6 1.6 1.6 1.6 7 7	JUL 1 CELLS /ML	23, 80 045 450 1.6 1.6 2.3 2.7 2.7 PER-CENT	AUG 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	7,80 135 400 1.3 1.5 2.3 2.4 PER-CENT 1 - 3 - 2	CELLS /ML	035 880 1.3 1.6 1.7 2.3 PER-CENT

MAURICE RIVER BASIN

01411500 MAURICE RIVER AT NORMA, NJ--Continued

PHYTOPLANKTON ANALYSES, OCTOBER 1979 TO SEPTEMBER 1980

CHRYSOPHYTA									
EUNOTIA		-		-	-				-
FRAGILARIACEAE					1				
ASTERIONELLA		-		-	12	0 8	3		-
FRAGILARIA	13#	33		-	11.			130	15
SYNEDRA		-		-					-
GOM PHONEMATACEAE									
GOM PHONEMA		-		-	17 A				-
NA VICULACEAE									
NA VICULA			13	3					
NITZSCHIACEAE				,					
NITZSCHIA			13	3	2	6 2		13	1
			13	2	-	0 2		13	
TABELLARIACEAE									
TABELLARIA		-		-		-	•		-
. CHR YSOPH YCEAE									
CHR YS OM ON A DA LES									
MALLOMONA DA CEAE									
MALLOMONAS		-		-	Maria No.				-
OCHROMONA DACEAE									
OCHROMONAS		-		-		-	•		-
CRYPTOPHYTA (CRYPTOMONADS)									
.CRYPTOPHYCEAE			70.0	12					
CRYPT OMONA DALES		100	975					-	-
CRYPTOCHRYSIDACEAE									
				-					
CHROOMONAS		-	13	3	1				-
CRYPT OMONA DACEAE									
CRYPTOMONAS		-	13	3	•		•	13	1
CYANOPHYTA (BLUE-GREEN ALGAE)									
.CYANOPHYCEAE									
CHROOCOCCALES									
CHROCCOCCACEAE									
ANACYSTIS			13	3	-	9 3		26	3
		-	13	3	3	9)	20	3
HORMOGONALES									
NOSTOCACEAE					-				
ANABAENA		-		-	27	0# 20)		-
OSCILLATORIACEAE									
OSCILLATORIA		-	150#	34	59	0# 43	3	350#	40
PHORMIDIUM		-		-	10.00			220#	25
SCHIZ OTHRIX		-		-					-
EUGLENOPHYTA (EUGLENOIDS)									
. EUGLENOPHYCEAE									
EUGLENALES									
EUGLENACEAE									
EUGLENA		-		-		-	3.		-
TRACHELOMONAS		-		-	Card Car	-			-

NOTE: # - DOMINANT ORGANISM; EQUAL TO OR GREATER THAN 15%
* - OBSERVED ORGANISM, MAY NOT HAVE BEEN COUNTED; LESS THAN 1/2%

01412000 MENANTICO CREEK NEAR MILLVILLE, NJ

LOCATION.--Lat 39°25'12", long 74°58'00", Cumberland County, Hydrologic Unit 02040206, on right bank at upstream side of Mays Landing Road (Route 552), 0.9 mi (1.4 km) downstream of Menantico Lake, 4.0 mi (6.4 km) northeast of Millville, and 7.0 mi (11.3 km) upstream from mouth.

DRAINAGE AREA .-- 22.3 mi2 (57.8 km2).

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--June 1931 to September 1957, October 1977 to current year. Published as "Manantico Creek" prior to October 1978.

GAGE.--Water-stage recorder and concrete control. Datum of gage is 36.63 ft (11.165 m) National Geodetic Vertical Datum of 1929.

REMARKS. -- Water-discharge records good.

AVERAGE DISCHARGE.--29 years (water years 1932-57, 1978-80), 38.3 ft3/s (1.085 m3/s), 23.32 in/yr (592 mm/yr).

EXTREMES FOR PERIOD OF RECORD.—Maximum discharge, 1,050 ft 3 /s (29.7 m 3 /s) Aug. 20, 1939, gage height, 6.21 ft (1.893 m), from rating curve extended above 300 ft 3 /s (8.5 m 3 /s); minimum, 1.4 ft 3 /s (0.040 m 3 /s) Aug. 16-18, 1936.

EXTREMES FOR CURRENT YEAR. -- Peak discharges above base of 125 ft3/s (3.54 m3/s) and maximum (*);

			Disch	arge	Gage h	eight
Date		Time	(ft^3/s)	(m^3/s)	(ft)	(m)
Mar.	26	0200	125	3.54	2.30	0.701
June	30	1545	*164	4.64	2.73	0.832

Minimum discharge, 8.7 ft3/s (0.25 m3/s) Mar. 1.

		DISC	HARGE, IN	CUBIC FE	ET PER SE	COND, WAT MEAN VA		CTOBER 19	79 TO SEP	TEMBER 19	80	
DAY	OCT	NOV	DEC	JAN	FEB	MAR	A PR	MAY	JUN	JUL	A UG	SEP
1 2 3 4 5	41 42 43 44 40	34 34 44 60 50	36 36 36 34 34	34 33 32 32 31	30 34 31 31 31	29 33 29 29 31	92 87 70 73 93	80 80 63 52 48	31 30 30 29 28	80 39 37 45 44	24 25 24 23 23	18 18 18 18
6 7 8 9	41 38 35 35 52	42 39 37 37 37	34 43 43 38 36	31 31 31 31 32	30 31 31 31 31	33 32 32 33 33	84 66 59 68 116	44 42 42 44 43	27 28 59 102 66	36 32 32 30 32	22 21 20 19 19	19 19 16 14 14
11 12 13 14 15	88 71 68 84 66	42 67 67 54 47	35 34 36 42 40	36 44 52 54 60	31 31 30 30	37 36 38 69 73	99 72 60 55 62	41 40 40 38 37	48 42 37 34 32	33 31 28 27 26	20 84 79 42 33	14 14 15 16 16
16 17 18 19 20	52 46 43 42 40	44 42 40 39 39	37 35 33 33 34	52 48 44 54 52	34 39 36 33 32	52 43 47 48 46	58 53 50 48 47	35 34 39 47 44	54 62 48 40 36	25 23 22 22 21	29 27 26 26 25	16 16 21 22 22
21 22 23 24 25	39 39 37 37 37	38 35 34 34 35	34 34 36 36 38	50 46 52 49 46	32 34 38 39 37	58 99 81 57 97	45 44 43 42 42	44 45 41 38 35	33 32 30 25 20	21 22 39 45 34	24 24 23 23 22	22 20 20 18 20
26 27 28 29 30 31	37 36 36 36 35	39 48 44 39 37	40 37 37 36 35 34	44 42 39 36 33 35	35 32 31 31	114 78 60 65 82 77	42 46 52 68 67	33 32 31 30 30	15 15 16 24 99	30 27 26 25 25 24	22 21 20 20 19	22 22 20 19 18
TOTAL MEAN MAX MIN CFSM IN.	1417 45.6 88 34 2.05 2.36	1278 42.6 67 34 1.91 2.13	1126 36.3 43 33 1.63 1.88	1286 41.5 60 31 1.86 2.15	946 32.6 39 30 1.46 1.58	1670 53.9 114 29 2.42 2.79	1903 63.4 116 42 2.84 3.17	1323 42.7 80 30 1.92 2.21	1172 39.1 102 15 1.75 1.95	983 31.7 80 21 1.42 1.64	848 27.4 84 19 1.23 1.41	545 18.2 22 14 .82

CAL YR 1979 TOTAL 20933 MEAN 57.4 MAX 461 MIN 26 CFSM 2.57 IN 34.92 WTR YR 1980 TOTAL 14494 MEAN 39.6 MAX 116 MIN 14 CFSM 1.78 IN 24.18

38 DELAWARE BAY

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 light ship in bay opposite Bombay Hook Island, DE., and 3.0 mi (4.8 km) southwest of mouth of Cohansey River, in NJ.

WATER-QUALITY RECORDS

PERIOD OF RECORD. -- Water years 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, 33.0°C Aug. 2, 1979; minimum, freezing point on many days during winter periods.

TEMPERATURE, WATER (DEG. C), WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

						, ,						
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		ОСТОВЕ	R		NOVEMBE	ER		DECEMBE	R		JANUAR	Y
1	23.5	21.5	22.0	111.5	14.0	14.0						
2	22.5	21.5	22.0	14.5		14.5						
3	21.5	21.0	21.5	14.5	14.0	14.5						
4	21.5	21.0	21.5		_		10.0	9.0	9.0			
5	21.5	21.0	21.0						9.0			
2	21.5	21.0	21.0				9.0	8.5	9.0		1917	- T
6							9.0	8.5	8.5			
7							9.0	8.5	8.5			
8							8.5	8.0	8.5			
9							8.0	8.0	8.0			
10							8.0	7.5	8.0			
11							8.0	8.0	8.0			
12							8.5	8.0	8.0			
13							8.5	8.0	8.5			
14							8.0	8.0	8.0			
15				12.0	11.5	12.0	8.0	7.5	8.0			
16				12.0	11.5	11.5	8.0	7.5	8.0			
17	15.5	15.5	15.5	11.5	11.5	11.5	8.0	7.5				
18	16.0	15.5	15.5	11.5	11.5	11.5						
19	16.0	15.5	16.0	12.0	11.5	11.5						
20	16.5	16.0	16.0	11.5	11.5	11.5						
21	16.5	16.0	16.5	12.0	11.5	11.5						
22	17.0	16.5	16.5	12.0	11.5	11.5						
23 .	17.0	16.5	17.0	12.0	11.5	12.0						
24				12.0	12.0	12.0						
25				12.5	12.0	12.0						
26	16.0	15.5	15.5	13.0	12.0	12.5						
27	15.5	14.5	15.0	13.0	12.5	12.5						
28	15.0	14.5	14.5	13.0	12.5	12.5				3.5	3.0	3.5
29	14.5	14.0	14.5							3.5	3.0	3.0
30	14.5	14.0	14.5							3.0	2.5	2.5
31	14.5	13.5	14.0							2.5	2.0	2.0
MONTH	23.5	13.5	17.0	14.5	11.5	12.5	10.0	7.5	8.5	3.5	2.0	3. ODAY

01412350 DELAWARE BAY AT SHIP JOHN SHOAL LIGHTHOUSE, NJ--Continued TEMPERATURE, WATER (DEG. C), WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

DAY MAX MIN MEAN MAX	DEG. C), WATER TEAR OCTOBER		
PPDDIIADV	MIN MEAN MAX	MIN MEAN APRIL	MAX MIN MEAN MAY
FEBRUARY	MARCH	APRIL	MAI
2 1.0 .0 .5 1.0 3 .5 .0 .0 .5 4 .5 .0 .0 1.0	1.0 1.5 .5 1.0 .0 .5 .0 .5 1.0 1.0		
7 .5 .0 .0 2.5 8 .5 .0 .5 3.0 9 .5 .0 .5 5.5	1.0 1.5 1.5 2.0 2.0 2.5 2.5 4.0 3.5 4.0		
12 1.0 .5 1.0 13 1.0 1.0 1.0 5.0 14 1.5 1.0 1.0 5.0	4.0 4.5 5.0 4.0 4.5 4.0 4.5		
17 1.0 1.0 1.0 5.0 18 1.0 .5 1.0 5.5 19 1.5 1.0 1.0 6.0	4.0 4.5 4.5 5.0 5.0 5.0 5.0 5.5 5.5 6.0		
22 2.5 2.0 2.0 6.5 23 2.5 2.0 2.5 7.0 24 3.5 2.5 2.5 7.0	5.5 6.0 6.0 6.0 5.5 6.0 6.0 6.5 6.5 6.5		
27 3.0 2.5 2.5 9.0 28 2.5 2.5 2.5 8.0 29 2.5 1.5 2.0 8.0	6.5 7.0 6.5 7.5 7.0 7.5 7.5 7.5 7.5 8.0 8.0 8.0		
MONTH 3.5 .0 1.5 9.0	.0 4.5		
DAY MAX MIN MEAN MAX	MIN MEAN MAX	MIN MEAN	MAX MIN MEAN
DAY MAX MIN MEAN MAX JUNE	JULY	AUGUST	SEPTEMBER
2 20.5 19.5	28.5 28.5 29.0	28.0 28.5 28.0 28.5	27.5 26.5 27.0 28.5 27.0 27.5
3 21.0 20.0 20.5 4 21.0 20.0 20.5 5 20.5 20.0 20.5	29.0 30.5	28.5 28.5 28.5 28.5 28.5 29.0	28.0 27.0 27.5 28.5 27.0 27.5 27.5 27.0 27.0
4 21.0 20.0 20.5	29.0	28.5 28.5	28.0 27.0 27.5 28.5 27.0 27.5
4 21.0 20.0 20.5 5 20.5 20.0 20.5 6 20.5 20.0 20.0 7 22.0 19.5 20.5 8 21.0 20.0 20.5 9 20.5 19.5 20.0	29.0 30.5 30.5 31.0 30.0	28.5 28.5 28.5 29.0 29.0 29.0 29.0 29.0 29.0 29.0	28.0 27.0 27.5 28.5 27.0 27.5 27.5 27.0 27.0 28.0 27.0 27.0 27.0 26.5 27.0 27.0 26.5 26.5
4 21.0 20.0 20.5 5 20.5 20.0 20.5 6 20.5 20.0 20.0 7 22.0 19.5 20.5 8 21.0 20.0 20.5 9 20.5 19.5 20.0 10 20.0 19.5 19.5 12 20.0 19.5 19.5 13 20.0 19.0 19.5 14 20.5 19.0 20.0	29.0 30.5 30.5 31.0 30.0 30.0 29.5 29.5 29.0 29.0 29.0	28.5 28.5 28.5 29.0 29.0 29.0 29.0 29.0 29.0 29.0 29.0 29.5 29.0 29.0 29.0 29.0 29.0 29.0 29.0 29.0 29.0 29.0 28.5 28.5	28.0 27.0 27.5 28.5 27.0 27.0 27.0 27.0 28.0 27.0 27.0 27.0 26.5 26.5 26.5 26.0 26.5 26.0 26.0 26.0 26.0 25.5 25.5 26.0 25.0 25.0 25.5 25.0 25.0 25.5 25.0 25.0
4 21.0 20.0 20.5 5 20.5 20.0 20.5 6 20.5 20.0 20.5 7 22.0 19.5 20.5 8 21.0 20.0 20.5 9 20.5 19.5 20.0 10 20.0 19.5 19.5 12 20.0 19.5 19.5 13 20.0 19.0 19.5 14 20.5 19.0 20.0 15 21.0 19.5 20.0 16 20.5 20.0 20.5 17 20.5 20.0 20.0 19 20 21 22 23 28.5 24 </td <td> 29.0 30.5 30.5 30.0 30.0 30.0 29.5 29.5 29.0 29.0 28.5 28.5 28.0 27.0 26.5</td> <td>28.5 28.5 28.5 29.0 29.0 29.0 29.0 29.0 29.0 29.5 29.0 29.0 29.0 29.0 29.0 29.0 29.0 29.0 29.0 29.0 29.0 29.0 29.0 29.5 28.5 28.5 28.5 28.5</td> <td>28.0 27.0 27.5 28.5 27.0 27.5 27.5 27.0 27.0 28.0 27.0 26.5 27.0 27.0 26.5 26.5 26.0 26.5 26.0 26.0 25.5 25.0 25.5 25.0 25.5 25.5 25.0 25.0 25.5 25.0 25.0 25.5 25.0 25.0 25.5 25.0 25.0 25.5 25.0 25.0 25.5 25.0 25.0 25.2 25.0 25.0 25.3 25.0 25.0 25.3 25.0 25.0 25.4 24.0 24.5 24.5 24.0 24.0 24.5 24.0 24.0 24.5 23.5 24.0</td>	29.0 30.5 30.5 30.0 30.0 30.0 29.5 29.5 29.0 29.0 28.5 28.5 28.0 27.0 26.5	28.5 28.5 28.5 29.0 29.0 29.0 29.0 29.0 29.0 29.5 29.0 29.0 29.0 29.0 29.0 29.0 29.0 29.0 29.0 29.0 29.0 29.0 29.0 29.5 28.5 28.5 28.5 28.5	28.0 27.0 27.5 28.5 27.0 27.5 27.5 27.0 27.0 28.0 27.0 26.5 27.0 27.0 26.5 26.5 26.0 26.5 26.0 26.0 25.5 25.0 25.5 25.0 25.5 25.5 25.0 25.0 25.5 25.0 25.0 25.5 25.0 25.0 25.5 25.0 25.0 25.5 25.0 25.0 25.5 25.0 25.0 25.2 25.0 25.0 25.3 25.0 25.0 25.3 25.0 25.0 25.4 24.0 24.5 24.5 24.0 24.0 24.5 24.0 24.0 24.5 23.5 24.0
4 21.0 20.0 20.5 5 20.5 20.0 20.0 6 20.5 20.0 20.0 7 22.0 19.5 20.0 8 21.0 20.0 20.5 9 20.5 19.5 20.0 10 20.0 19.5 19.5 11 20.0 19.5 19.5 12 20.0 19.5 19.5 13 20.0 19.0 19.5 14 20.5 19.0 20.0 15 21.0 19.5 20.0 16 20.5 20.0 20.5 17 20.5 20.0 20.5 18 20 21 22 28.5 22 24 28.5 22 25 28.5 22 26 28.5 22 27 28.5 22 28 28.5 22 29 28.5 22 29 28.5 22	29.0 30.5 30.5 31.0 30.0 30.0 29.5 29.5 29.0 29.0 29.0 29.0 29.0 29.0 29.0 28.5 26.0 26.0 26.0 26.0 26.0 26.0 26.0 27.5 28.0 26.0	28.5 28.5 28.5 29.0 29.0 29.0 29.0 29.0 29.0 29.0 29.0 29.0 29.0 29.0 29.0 29.0 29.0 29.0 28.5 28.5 28.5 28.5 28.6 26.5 25.5 26.0 25.5 25.5 25.0 25.5 24.5 25.0 24.5 25.0 24.5 25.0	28.0 27.0 27.5 28.0 27.0 27.5 27.5 27.0 27.5 27.0 26.5 27.0 27.0 26.5 26.5 26.0 26.5 26.0 26.0 25.5 25.0 25.5 25.0 25.5 25.5 25.0 25.5 25.5 25.0 25.0 24.0 24.5 24.5 24.0 24.0 24.5 24.0 24.0 24.5 24.0 24.0 24.5 24.0 24.0 24.5 24.0 24.0 24.5 24.0 24.0 24.5 24.0 24.0 24.5 24.0 24.0 25.0 24.0 24.5 24.5 24.0 24.0 24.5 24.0 24.5 24.5 24.0 24.5 24.5 24.0 24.5 24.5 24.0 24.5 24.5 24.0 24.5 24.5 24.0 24.5 24.5 24.0 24.5 24.5 24.0 24.5 24.5 24.0 24.5

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

SPECIFIC CONDUCTANCE (MICROMHOS/CM AT 25 DEG. C), WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

	,	SPECIFIC	CONDUCTANCE	(MICROM	HOS/CM AT	25 DEG.	C), WATER	YEAR OCT	OBER 1979	TO SEPTEMB	ER 1980	
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		остов	ER		NOVEMBE	ER		DECEMB	ER		JANUA	RY
1	24200	18400	21500	24000	17600	21200	19200	11200	15600			
2	24300	17300	21600	24600	17100	20800	19600	12300	15500			111
-3	23600	17100	21100	22700	16100	19300	21400	10600	15900			
4	23300	15600	19900	24300	16600	20000	18600	12100	16000			
5	22700	15200	19200	24600	16200	20000	21000	11800	16300			
6	19800	11200	15700	22800	15200	19400	19000	11100	15900			
7	19000	9740	14400	21300	14300	18500	17900	13700				
8	16700 15600	8360 7720	12300 11900	21800 21400	13300	17900						
10	18200	8300	13000	21400	14700 12400	18200 17700						1
									1000			
11	19100	7750	14300	20000	12800	17200						
12	17500 16600	8740 8640	13000 12000	23100 24600	14800 15600	18500 19800		100	777			
13 14	18900	8130	12000	25400	15500	20600	212		122	III		- 1
15	20900	7750	14500	24300	15500	20800						
16	21200	11000	16000	00100	40500							
16 17	21200	11900 14700	16000 18700	23100 22800	18500 19400	21100						
18	21400	16900	19300	23900	18900	21600 21200						
19	21600	16800	19400	24600	19100	22200						111
20	21500	16500	19400	25200	19100	22500						
21	20000	15700	101100	05700	10000	001100						
21	20900	15700 15200	18400 18000	25700 25200	19000 18700	22400 22200						
23	20800	14700	18100	24300	17100	21400					===	
24	20500	14700	17500	23000	17700	20900				1 222		222
25	19300	13500	16700	23300	17600	20700						
26	20700	13300	17500	23900	16900	21000						
27	22500	15200	19100	20500	16100	21000 18300						===
28	23100	15700	19900	23500	13600	17500				22200	16400	20400
29	22700	14600	19700	18900	11600	15400				23200	17400	20800
30	22800	17000	20300	18800	11600	15100				22600	14800	19600
31	23800	18000	20900							25600	17100	21300
MONTH	24300	7720	17300	25700	11600	19800	21400	10600	15900	25600	14800	20500
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		FEBRUAR	SA		MARCH			APRI	L		MAY	
1	24900	19000	22200	29400	23800	26900	21300	11800	17700	19800	14000	17700
2	26400	19800	23600	31900	25100	28900	20500	9920	16100	19000	14000	17700
3	26900	21400	24200	33300	27900	30900	17100	8890	13800	2		
	27900	21600	25000	32900	26900	31000	16200	8460	13200	/		
5	28500	22600	26000	32600	28100	30600	15400	6960	11400			
6	28700	24500	27200	31700	27600	29600	17600	7140	12300	- 11		
7	30600	26200	28400	31700	26500	29500	17000	11200	14600	-		
8	30900	25200	28500	31300	25700	28800						
9	32400 32100	24900	29100	30200	25900	28500						
10	32100	25900	29200	31300	25700	28800						
11	32100	25700	29500	31900	25200	28700						
12	31700	26000	29500	29000	21400	26800						
13	31300 30600	26200	29500	32900	23800	28700						
14 15	30900	26700 25700	28700 28400	31900 29400	24500 21800	28500 25400						
, ,	30,00	23100	20400	29400	21000	25400						
16	32400	26500	29000	29000	21400	25400						
17	30400	24900	28,000	30200	22200	26600						
18 19	30400 29400	24900 23900	27800 27400	29000	21500	25300						
20	30400	25700	28200	27700 27600	19600 18500	24400						
				-,500	. 0,000		17.5		100			
21	30200	24800	28200	27900	19200	23900	13500	6540				
22	30400	25600	28400	23800	12500	19700	15900	6630	11200			
23 24	30400 29000	24900 24500	28000 27300	28300 27400	11600 13100	20700	16400	6940	11700			
25	29400	24900	27600	25900	12300	20400 19700	19400 19300	8130 10300	13600 15000			232
26	20000											
26 27	30200 31100	26400 25700	28400 28500	25200	10600 11000	18100	20100	12300	16000			
28	29800	24000	27600	23300	14000	17800 19700	20400 21300	13000 15900	17000 18500	277		
29	28900	24500	27100	24900	16400	20800	21900	14400	19100			
30				21400	15700	19100	20600	15400	18300	-		
31				21900	16800	19500						
MONTH	32400	19000	27600	33300	10600	25000	21900	6540	15000	19800	14000	17700

01412350 DELAWARE BAY AT SHIP JOHN SHOAL LIGHTHOUSE, NJ--Continued SPECIFIC CONDUCTANCE (MICROMHOS/CM AT 25 DEG. C), WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

		7. 2.3										
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		JUNE			JULY			AUGUS	T		SEPTEM	BER
1										29400	25200	27500
2										29800	24500	27100
2 3 4										29200	22500	27000
4										30200	24800	27400
5										29600	25100	27400
							1000	1277	27.7	2,000	25100	21400
6										29800	24300	27400
7										30200	25600	27500
8										30600	27100	28400
9										30400	26500	28700
10										29800	25600	27400
11										29800	25600	27900
12										29200	25700	27600
13										29400	25400	27800
14							25900	21200		29800	26000	28100
15							24300	19200	21600	29400	25200	27900
16							25200	19900	22100	32600	27200	20500
17							23500	20600	22100	32100	27200	29500
18							29400	23600			27700	30000
19							30200		27100	30200	23600	28000
20								23300	27200	30600	22600	28000
20							30200	22800	27600	29400	24800	26900
21							31700	26000	28900	30900	22800	27600
22							31700	27400	29700	31500	25900	28500
23							31500	27600	29600	31500	26400	29100
24							31500	27100	29400	33100	27100	30000
25							31700	25900	29200	33300	28500	31000
26							21700	27122	20200	22400	05000	
27							31700	27100	29200	33100	25900	29300
27 28							31500	26500	29100	30900	25700	28100
29							31300	26500	28900	29600	25200	27600
30							31500	26900	29500	32400	24500	28200
31							31300	26200	29100	31500	24900	29500
C. Balton							29800	24800	28100			
MONTH							31700	19200	27600	33300	22500	28200

01412800 COHANSEY RIVER AT SEELEY, NJ

LOCATION.--Lat 39°28'21", long 75°15'21", Cumberland County, Hydrologic Unit 02040206, on right bank just downstream from bridge on Silver Lake Road, 0.6 mi (1.0 km) south of Seeley, 2.6 mi (4.2 km) east of Shiloh, 4.1 mi (6.6 km) north of Bridgeton, and 22.5 mi (36.2 km) upstream from mouth.

DRAINAGE AREA .-- 28.0 mi2 (72.5 km2).

WATER-DISCHARGE RECORDS

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

PERIOD OF RECORD .-- October 1977 to current year.

GAGE. -- Water-stage recorder. Altitude of gage is 27 ft (8.2 m), from topographic map.

REMARKS .-- Water-discharge records good. Flow diverted above gage during summer months for irrigation.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 1,490 ft³/s (42.2 m³/s) Feb. 25, 1979, gage height, 6.84 ft (2.084 m); minimum daily, 14 ft³/s (0.40 m³/s) Oct. 1-4, 1977.

EXTREMES FOR CURRENT YEAR. -- Peak discharges above base of 250 ft3/s (7.08 m3/s) and maximum (*):

			Disch	arge	Gage	height
Date		Time	(ft^3/s)	(m^3/s)	(ft)	(m)
June	16	0830	316	8.95	5.14	1.567
June	30	1045	*471	13.3	5.51	1.679

Minimum discharge, 15 ft3/s (0.42 m3/s) Mar. 3.

	2200.	made, in	00010 111	II IEN DE	MEAN VAI	LUES	JIODEN 19	, 10 01.	LENDEN 19		
OCT	NOV	DEC	JAN	FEB	MAR	A PR	MAY	JUN	JUL	A UG	SEP
40 52 56 88 106	40 40 70 67 47	35 34 33 37 38	36 36 36 35 40	32 31 29 31 32	30 30 31 33 37	90 57 45 75 74	87 63 55 53	49 48 50 53 47	81 42 45 59 39	26 25 22 55 34	18 20 21 21 21 22
61 107 85 67 105	43 42 41 41 42	43 58 46 38 39	36 36 39 38 35	32 32 33 33 32	37 34 36 35 32	49 45 47 72 93	53 52 57 60 55	45 50 104 149 66	32 29 31 31 44	25 23 21 21 20	22 21 17 20 21
142 63 71 69 48	50 87 68 56 48	40 40 52 54 44	49 114 64 46 43	32 33 32 32 33	37 32 43 108 60	68 53 50 52 57	52 54 57 55 52	51 44 41 40 46	36 31 26 26 26	39 87 82 31 28	19 19 21 21 20
43 40 40 40 39	45 44 41 39 37	39 40 37 38 39	39 38 45 72 51	44 38 32 33 33	37 36 43 36 35	53 50 51 51 51	51 51 60 64 59	252 92 46 39 37	27 30 27 26 26	27 23 23 27 29	21 21 46 26 23
39 39 40 50 43	33 30 30 30 30	39 42 44 42 49	41 45 59 44 39	35 41 58 48 38	65 78 45 40 111	51 51 51 52 53	63 61 57 55 52	35 32 32 32 32	24 33 60 38 29	26 25 25 23 22	22 21 22 21 30
41 40 39 39 40 39	49 51 38 35 36	39 37 36 35 35	38 37 38 37 34	35 33 33 33	66 45 40 64 64	54 58 76 107 88	50 49 49 50 49 51	32 33 32 73 332	27 24 23 44 45 29	23 22 23 22 23 21	30 24 22 21 23
1811 58.4 142 39 2.09 2.41	1350 45.0 87 30 1.61 1.79	1266 40.8 58 33 1.46 1.68	1374 44.3 114 34 1.58 1.83	1013 34.9 58 29 1.25 1.35	1487 48.0 111 30 1.71 1.98	1824 60.8 107 45 2.17 2.42	1729 55.8 87 49 1.99 2.30	2014 67.1 332 32 2.40 2.68	1090 35.2 81 23 1.26 1.45	923 29.8 87 20 1.06 1.23	676 22.5 46 17 .80
	402 556 888 106 617 857 105 1437 107 631 140 400 400 400 400 400 400 400 400 40	OCT NOV 40	OCT NOV DEC 40	OCT NOV DEC JAN 40	OCT NOV DEC JAN FEB 40 40 35 36 32 52 40 34 36 31 56 70 33 36 29 88 67 37 35 31 106 47 38 40 32 61 43 43 36 32 107 42 58 36 32 85 41 46 39 33 67 41 38 38 33 105 42 39 35 32 142 50 40 49 32 63 87 40 114 33 71 68 52 64 32 48 48 44 43 33 43 45 39 39 44 40 39 38 38 38	OCT NOV DEC JAN FEB MAR 40 40 35 36 32 30 52 40 34 36 31 30 56 70 33 36 29 31 31 33 106 47 38 40 32 37 61 43 43 36 32 37 61 43 43 36 32 37 61 42 58 36 32 34 85 41 46 39 33 36 67 41 38 38 38 33 35 105 42 39 35 32 32 142 50 40 49 32 37 63 87 40 114 33 32 71 68 52 64 32 43 69 56 54 46 32 108 48 48 44 43 33 60 43 45 39 39 39 44 37 40 44 40 38 38 38 36 40 39 37 39 51 33 36 40 41 37 45 39 39 44 37 40 44 40 38 38 38 36 39 37 39 51 33 35 39 37 39 51 33 35 39 37 39 51 33 35 39 37 39 51 33 35 39 37 39 31 35 65 39 39 30 42 45 41 78 40 39 39 38 72 33 36 40 30 44 59 58 45 50 30 42 44 48 40 31 45 39 39 39 38 111 41 49 44 38 35 66 37 39 30 42 45 41 78 40 39 39 38 35 36 39 37 39 31 39 38 111 41 49 44 38 35 66 39 39 30 42 45 48 40 30 30 44 59 58 45 50 30 42 44 48 40 31 39 37 38 33 40 33 39 36 37 38 33 40 33 39 36 37 38 33 40 33 39 35 36 37 33 64 39 30 30 33 34 29 30 30 33 34 29 30 30 33 34 29 30 30 33 34 29 30 30 33 34 29 30 30 33 34 29 30 30 33 34 29 30 30 33 34 29 30 30 33 34 29 30 30 33 34 29 30 30 33 34 29 30 30 33 34 29 30 30 33 34 29 30 30 33 34 29 30 30 33 34 29 30 30 30 33 34 29 30 30 31 35 35 35 35 35 35 35 35 35 35 36 36 37	OCT NOV DEC JAN FEB MAR APR 40 40 35 36 32 30 90 52 40 34 36 31 30 57 56 70 33 36 29 31 45 88 67 37 35 31 33 75 106 47 38 40 32 37 74 61 43 43 36 32 34 45 85 41 46 39 33 36 47 67 41 38 38 38 33 35 72 105 42 39 35 32 32 93 142 50 40 49 32 37 29 142 50 40 49 32 37 68 63 87 40 114 33 32 57 66 54 46 32 43 50 69 56 54 46 32 108 52 48 48 48 44 43 33 60 57 43 45 39 39 44 37 58 40 44 40 38 38 38 36 50 40 41 37 38 36 51 39 37 39 51 33 36 51 39 37 39 51 33 35 51 39 37 39 51 33 35 51 39 30 42 45 41 78 51 40 30 44 59 58 45 51 40 30 44 59 58 45 51 50 30 42 44 48 40 52 43 30 49 39 38 111 53 41 49 44 38 35 66 54 40 31 47 78 51 40 39 38 72 33 36 51 39 30 42 45 41 78 51 40 30 44 59 58 45 51 50 30 42 44 48 40 52 43 30 49 39 38 111 53 41 49 44 38 35 66 54 40 51 39 37 39 51 33 35 64 107 40 36 35 34 64 88 39 38 37 38 39 34 48.0 60.8 142 87 58 114 58 111 107 39 30 33 34 29 30 45 58.4 45.0 40.8 44.3 34.9 48.0 60.8 142 87 58 114 58 111 107 39 30 30 33 34 29 30 45 50 50 1.61 1.46 1.58 1.25 1.71 2.17	OCT NOV DEC JAN FEB MAR APR MAY 40 40 35 36 32 30 90 87 52 40 34 36 31 30 57 63 88 67 37 35 31 33 75 53 106 47 38 40 32 37 74 53 107 42 58 36 32 34 45 52 85 41 46 39 33 36 47 57 67 41 38 38 38 33 35 72 60 105 42 39 35 32 32 93 142 50 40 49 32 37 68 52 63 87 40 114 33 32 53 54 106 52 64 32 43 50 57 69 56 54 46 32 43 50 57 69 56 54 46 32 43 50 57 69 56 54 46 32 43 50 57 69 56 54 46 32 43 50 57 69 56 54 46 32 43 50 57 69 56 54 46 32 43 50 57 69 56 54 46 32 43 50 57 69 56 54 46 32 43 50 57 69 56 54 46 32 43 50 57 69 56 54 46 32 43 50 57 69 56 54 46 32 43 50 57 69 30 42 45 46 32 43 50 57 69 30 40 49 33 33 60 57 52 43 45 59 50 50 57 69 56 54 46 32 43 50 57 69 56 54 46 32 43 50 57 69 56 54 46 32 55 48 48 48 44 43 33 60 57 52 53 39 37 39 51 33 35 51 60 40 39 38 72 33 36 51 64 39 37 39 51 33 35 51 59 39 33 39 41 35 65 51 63 39 37 39 51 33 35 51 59 39 33 39 41 35 65 51 63 39 37 39 51 33 35 51 59 39 30 42 44 48 40 52 55 43 30 49 39 38 37 33 45 58 49 39 30 30 42 44 48 40 52 55 43 30 49 39 38 37 33 45 58 49 39 38 37 39 37 33 45 58 49 39 38 37 39 37 33 45 58 49 39 38 37 39 37 33 45 58 49 39 38 37 39 37 33 45 58 49 39 39 38 37 38 37 33 64 107 50 30 42 44 48 40 76 59 39 39 38 37 39 37 33 45 58 49 39 39 38 37 39 37 33 45 58 49 39 30 33 34 29 30 45 49 20 9 1.61 1.46 1.58 1.25 1.71 1.71 1.79	OCT NOV DEC JAN FEB MAR APR MAY JUN 40 40 35 36 32 30 90 87 49 52 40 34 36 31 30 57 63 48 56 70 33 36 29 31 45 55 55 88 67 37 35 31 33 75 53 53 106 47 38 40 32 37 74 53 47 61 43 43 36 32 37 49 53 45 107 42 58 36 32 34 45 52 50 85 41 48 38 38 33 36 47 57 104 107 42 58 36 32 34 45 52 50 867 41 38 38 38 33 36 47 57 104 105 42 39 35 32 32 93 55 66 142 50 40 49 32 37 68 52 60 142 50 40 49 32 37 68 56 66 54 44 71 68 52 64 32 43 50 57 41 68 52 64 32 43 50 57 41 69 48 48 48 44 43 33 60 57 52 40 40 41 37 45 39 39 44 37 53 51 252 40 44 40 38 38 38 36 50 57 40 41 37 45 39 39 44 37 53 51 252 40 44 40 38 38 38 36 50 57 40 41 37 45 39 39 44 37 53 51 252 40 44 40 38 38 38 36 50 57 40 41 37 45 32 43 50 57 40 49 40 39 38 38 36 50 51 92 40 41 47 37 45 32 43 50 57 40 44 40 38 38 38 36 50 51 92 40 41 37 45 39 39 44 37 53 51 60 46 40 39 38 72 33 36 51 64 39 39 30 42 45 41 78 51 61 32 40 39 38 72 33 36 51 64 39 39 30 42 44 48 48 40 52 55 32 40 39 38 72 33 36 51 64 39 39 30 42 44 48 48 40 52 55 32 40 30 44 49 38 38 36 50 51 64 39 39 30 42 45 41 78 51 61 32 40 30 44 49 38 38 36 50 51 64 39 39 30 42 45 41 78 51 61 32 40 30 44 59 58 49 33 39 30 33 39 41 17 53 52 32 41 49 44 48 48 49 39 39 39 30 32 37 38 37 38 39 39 38 37 38 39 30 32 32 39 37 33 36 51 64 39 32 39 30 32 37 38 37 38 39 37 33 45 58 49 33 39 30 32 37 38 37 38 39 37 33 45 58 49 33 39 37 38 37 38 37 38 33 40 76 49 32 39 30 30 42 44 48 48 40 52 55 32 39 30 30 42 49 48 48 49 49 32 39 30 30 32 41 58 49 33 39 37 38 37 38 33 30 49 39 38 111 53 52 32 411 49 44 38 33 34 07 66 49 32 39 30 32 34 45 58 49 33 39 37 38 37 38 37 38 39 37 33 45 58 49 33 39 37 38 37 38 37 38 39 37 33 45 58 49 33 39 37 38 37 38 39 37 38 39 37 33 45 58 49 33 39 30 30 42 44 48 84 40 52 55 32 41 41 49 44 38 33 40 60 85 58 86 71 412 87 58 114 58 111 107 87 332 39 30 33 34 49 48 60 60 85 58 86 71 142 87 58 114 58 111 107 87 332 39 30 30 33 34 29 30 45 49 32 20.99 1.61 1.46 1.58 111 59 30 22 40 40 41 1.49 40 40 40 40 40 40 40 40 40 40 40 40 40	OCT NOV DEC JAN FEB MAR APR MAY JUN JUL 40 40 35 36 32 30 90 87 49 81 52 40 34 36 31 30 57 63 48 42 56 70 33 36 29 31 45 55 55 88 67 37 35 31 33 75 53 53 106 47 37 38 40 32 37 74 53 47 39 61 43 43 43 36 32 37 74 53 47 39 61 43 43 43 36 32 37 49 53 45 32 107 42 58 39 33 36 32 37 49 53 45 32 107 42 58 39 33 36 32 37 45 57 104 31 67 41 38 38 38 33 35 72 60 149 31 105 42 39 35 32 32 93 55 66 44 142 50 40 49 32 37 68 52 51 36 63 87 40 114 33 32 53 55 66 44 142 50 40 49 32 37 68 52 51 36 63 87 40 114 33 32 53 54 44 31 71 68 52 64 32 43 50 57 41 26 69 56 54 46 32 108 52 55 40 26 48 48 48 44 43 33 36 57 52 46 26 43 45 39 39 39 44 37 53 51 252 27 40 44 40 38 38 38 36 50 57 52 46 26 48 48 48 44 49 33 36 50 57 52 46 26 43 45 39 39 39 44 37 53 51 252 27 40 44 40 38 38 38 36 50 57 52 46 26 43 45 39 39 39 44 37 53 51 252 27 40 44 40 38 38 38 36 50 57 52 46 26 43 45 39 39 39 44 37 53 51 252 27 40 40 41 37 45 32 43 50 57 52 46 26 43 45 39 39 39 44 37 53 51 252 27 40 39 38 72 33 36 51 60 46 27 40 39 38 72 33 36 51 60 46 27 40 39 38 73 39 39 51 33 36 51 60 46 27 40 39 38 72 33 36 51 64 39 26 39 37 39 30 42 45 41 78 51 61 32 33 40 50 30 42 45 41 78 51 67 32 28 39 30 42 44 48 48 40 52 55 32 32 39 30 42 44 48 40 52 55 32 32 39 31 33 39 34 49 37 33 40 76 49 32 23 31 39 30 42 44 48 40 76 49 32 23 31 39 30 42 44 38 35 66 54 58 49 33 24 31 30 49 39 38 77 38 33 40 76 49 32 23 31 39 30 42 44 38 35 66 54 58 49 33 24 31 30 49 39 37 33 36 41 107 50 73 44 31 30 49 39 37 33 40 76 49 32 23 31 31 31 32 42 43 50 55 84 99 33 24 32 39 38 37 38 33 30 40 76 49 32 23 340 36 35 34 64 88 49 332 24 340 36 35 34 67 51 29 1811 1350 1266 1374 1013 1487 1824 1729 2014 1090 58.4 45.0 40.8 44.3 34.9 48.0 60.8 55.8 67.1 35.2 32 39 30 33 33 34 29 30 45 49 32 23 340 36 37 38 33 34 29 30 45 49 32 23 340 36 37 38 33 34 29 30 45 49 32 23 340 36 37 38 33 34 29 30 45 49 32 20 35 30 30 30 30 30 30 30 30 42 30 30 45 49 32 20 36 39 30 30 30 30 30 30 30 42 30 45 49 32 20 37 107 107 107 107 107 107 107 107 107 10	OCT NOV DEC JAN FEB MAR APR MAY JUN JUL AUG 40 40 355 36 32 30 90 87 49 81 26 52 40 34 36 31 30 57 63 48 42 25 56 70 33 36 29 31 45 55 50 45 22 28 88 67 37 35 31 33 75 53 53 59 55 106 47 38 40 32 37 74 53 47 39 34 61 43 43 36 32 37 49 53 45 32 25 100 29 23 36 147 57 104 31 21 107 42 58 36 32 34 45 52 50 29 23 10

CAL YR 1979 TOTAL 18823 MEAN 51.6 MAX 1030 MIN 24 CFSM 1.84 IN 25.01 WTR YR 1980 TOTAL 16557 MEAN 45.2 MAX 332 MIN 17 CFSM 1.61 IN 22.00

01412800 COHANSEY RIVER AT SEELEY, NJ -- Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD. -- Water years 1975 to current year.

COOPERATION.--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.

	DATE	TIME	STREAM- FLOW, INSTAN- TANEOUS (CFS)	SPE- CIFIC CON- DUCT- ANCE (MICRO- MHOS)	PH FIELD (UNITS)	TEMPER- ATURE, WATER (DEG C)	OXYGEN, DIS- SOLVED (MG/L)	OXYGEN DEMAND, BIOCHEM UNINHIB 5 DAY (MG/L)	COLI- FORM, FECAL, EC BROTH (MPN)	STREP- TOCOCCI FECAL (MPN)	HARD- NESS (MG/L AS CACO3)
	OCT 03	1030	59	155	6.7	19.0	7.3	2.8	>2400	>24000	47
	JAN 30	1200	34	214	6.4	4.0	8.6	.7	13	8	59
	A PR 02	1100	56	162	6.5	10.0	11.4	.8	280	14	44
	MAY 29	1330	51	240	6.4	19.5	8.0	1.6	130	270	58
	JUL 17	1130	31	200	7.1	24.5	6.9	2.1			55
3	AUG 21	1105	26	195	7.0	20.5	7.9	1.0	1300	540	51
	SEP 23	1140	22	230	7.0	22.0	8.2	3.4	330	200	60
	DATE	CALCIUM DIS- SOLVED (MG/L AS CA)	MAGNE- SIUM, DIS- SOLVED (MG/L AS MG)	SODIUM, DIS- SOLVED (MG/L AS NA)	POTAS- SIUM, DIS- SOLVED (MG/L AS K)	BICAR- BONATE (MG/L AS HCO3)	CAR- BONATE (MG/L AS CO3)	ALKA- LINITY (MG/L AS CACO3)	SULFIDE TOTAL (MG/L AS S)	SULFATE DIS- SOLVED (MG/L AS SO4)	CHLO- RIDE, DIS- SOLVED (MG/L AS CL)
, A	OCT 03	9.4	5.6	7.0	5.8	7	0	6		15	13
	JAN 30	12	7.0	12	3.7	10	0	8		22	23
	APR 02	8.8	5.4	9.1	3.8	17	0	14		19	18
	MAY 29	11	7.4	14	3.6	27	0	22		22	26
	JUL 17	11	6.6	11	4.1	17	0	14		17	24
	AUG 21	10	6.4	11	4.4	20	0	16		18	24
	SEP 23	12	7.2	13	4.9	22	0	18	.0	22	28
	DATE	FLUO- RIDE, DIS- SOLVED (MG/L AS F)	SILICA, DIS- SOLVED (MG/L AS SIO2)	SOLIDS, RESIDUE AT 180 DEG. C DIS- SOLVED (MG/L)	NITRO- GEN, NO2+NO3 TOTAL (MG/L AS N)	NITRO- GEN, AMMONIA TOTAL (MG/L AS N)	NITRO- GEN, ORGANIC TOTAL (MG/L AS N)	NITRO- GEN, AM- MONIA + ORGANIC TOTAL (MG/L AS N)	NITRO- GEN, TOTAL (MG/L AS N)	PHOS- PHORUS, ORTHOPH OSPHATE TOTAL (MG/L AS PO4)	CARBON, ORGANIC TOTAL (MG/L AS C)
	OCT										
	03 JAN	.2	6.7	102	2.8	. 400	. 44	.84	3.6	1.8	9.3
	30 APR	-1	8.3	126	5.6	. 170	. 13	.30	5.9	. 11	3.0
1	02 MAY	.1	5.4	106	3.7	.260	1.0	1.3	5.0	. 32	4.2
	29 JUL	. 1	7.5	149	4.7	.110	. 34	. 45	5.2	. 16	3.0
	17 AUG	.1	8.0	135	3.9	.210	. 37	.58	4.5	.21	2.2
	21 SEP	.2	8.2	122	3.7	.030	.50	.53	4.2	. 15	1.0
	23	.1	7.2	151	4.5	. 100	.06	.16	4.7	.21	4.3
DATE	TIM	GEN, + OR TOT BOT	G. GAN IN TOT MAT BOT /KG (G/	R- INOR IC, ORGA IN TOT. MAT BOT KG (G/	G + ALU NIC INU IN DI MAT SOL KG (UG	S- ARSE VED TOT /L (UG	AL TER	AL LIUM OT- TOTM MA- RECO IAL ERAM // (UG.)	M, BOR AL TOT OV- REC BLE ERA /L (UG	AL TOTA OV- RECO BLE ERAI /L (UG.	AL FM BOT- OV- TOM MA- BLE TERIAL /L (UG/G
SEP 23						40		0		60	0 <10
-3		90			2.5	10		J	U	50	3 110

COHANSEY RIVER BASIN

01412800 COHANSEY RIVER AT SEELEY, NJ--Continued

DATE	CHRO- MIUM, TOTAL RECOV- ERABLE (UG/L AS CR)	CHRO-MIUM, RECOV. FM BOT-TOM MA-TERIAL (UG/G)	COBALT, RECOV. FM BOT- TOM MA- TERIAL (UG/G AS CO)	COPPER, TOTAL RECOV- ERABLE (UG/L AS CU)	COPPER, RECOV. FM BOT- TOM MA- TERIAL (UG/G AS CU)	IRON, TOTAL RECOV- ERABLE (UG/L AS FE)	IRON, RECOV. FM BOT- TOM MA- TERIAL (UG/G AS FE)	LEAD, TOTAL RECOV- ERABLE (UG/L AS PB)	LEAD, RECOV. FM BOT- TOM MA- TERIAL (UG/G AS PB)	MANGA- NESE, TOTAL RECOV- ERABLE (UG/L AS MN)	MANGA- NESE, RECOV. FM BOT- TOM MA- TERIAL (UG/G)
SEP 23	20	<10	<10	2	<10	290	2000	2	<10	40	16
DATE	MERCURY TOTAL RECOV- ERABLE (UG/L AS HG)	MERCURY RECOV. FM BOT- TOM MA- TERIAL (UG/G AS HG)	NICKEL, TOTAL RECOV- ERABLE (UG/L AS NI)	NICKEL, RECOV. FM BOT- TOM MA- TERIAL (UG/G AS NI)	SELE - NIUM, TOTAL (UG/L AS SE)	SELE- NIUM, TOTAL IN BOT- TOM MA- TERIAL (UG/G)	ZINC, TOTAL RECOV- ERABLE (UG/L AS ZN)	ZINC, RECOV. FM BOT- TOM MA- TERIAL (UG/G AS ZN)	PHENOLS (UG/L)	PCB, TOTAL IN BOT- TOM MA- TERIAL (UG/KG)	PCN, TOTAL IN BOT- TOM MA- TERIAL (UG/KG)
SEP 23	<.1	.00	4	<10	0	0	20	50	2	0	.0
DATE	ALDRIN, TOTAL IN BOT- TOM MA- TERIAL (UG/KG)	CHLOR-DANE, TOTAL IN BOT- TOM MA- TERIAL (UG/KG)	DDD, TOTAL IN BOT- TOM MA- TERIAL (UG/KG)	DDE, TOTAL IN BOT- TOM MA- TERIAL (UG/KG)	DDT, TOTAL IN BOT- TOM MA- TERIAL (UG/KG)	DI- AZINON, TOTAL IN BOT- TOM MA- TERIAL (UG/KG)	DI- ELDRIN, TOTAL IN BOT- TOM MA- TERIAL (UG/KG)	ENDO- SULFAN, TOTAL IN BOT- TOM MA- TERIAL (UG/KG)	ENDRIN, TOTAL IN BOT- TOM MA- TERIAL (UG/KG)	ETHION, TOTAL IN BOT- TOM MA- TERIAL (UG/KG)	HE PTA - CHLOR, TOTAL IN BOT- TOM MA- TERIAL (UG/KG)
SEP 23	.0	2	12	12	7.3	.0	.3	.0	.0	.0	.0
DATE	HEPTA- CHLOR EPOXIDE TOT. IN BOTTOM MATL. (UG/KG)	LINDANE TOTAL IN BOT- TOM MA- TERIAL (UG/KG)	MALA- THION, TOTAL IN BOT- TOM MA- TERIAL (UG/KG)	METH- OXY- CHLOR, TOT. IN BOTTOM MATL. (UG/KG)	METHYL PARA- THION, TOT. IN BOTTOM MATL. (UG/KG)	METHYL TRI- THION, TOT. IN BOTTOM MATL. (UG/KG)	MIREX, TOTAL IN BOT- TOM MA- TERIAL (UG/KG)	PARA- THION, TOTAL IN BOT- TOM MA- TERIAL (UG/KG)	PER- THANE IN BOTTOM MATERIL (UG/KG)	TO XA - PHENE, TOTAL IN BOT - TOM MA - TERIAL (UG/KG)	TRI- THION, TOTAL IN BOT- TOM MA- TERIAL (UG/KG)
SEP 23	.0	.0	.0	.0	.0	.0	.0	.0	.00	0	.0

COHANSEY RIVER BASIN 45

01413015 COHANSEY RIVER AT BRIDGETON, NJ LOCATION.--Lat 39°25'54", long 75°14'11", Cumberland County, Hydrologic Unit 02040206, at bridge on Washington Street in Bridgeton, 1.3 mi (2.1 km) downstream from Sunset Lake, and 18.6 mi (29.9 km) upstream from mouth.

DRAINAGE AREA .-- 47.3 mi2 (122.5 km2).

WATER-QUALITY RECORDS

PERIOD OF RECORD. -- Water years 1975 to current year.

COOPERATION.--Analyses of fecal coliform and fecal streptococci by the MPN method, and water-phase nutrients were performed by the New Jersey Department of Health, Division of Laboratories and Epidemiology.

WATER QUALITY DATA, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

DATE	TIME	SPE- CIFI CON- DUCT ANCE (MICE MHOS	IC - I- I RO- F	PH A	EMPER- ATURE, VATER DEG C)	SOI	GEN, IS- LVED G/L)	DEM BIO UNI 5	GEN AND, CHEM NHIB DAY /L)	FO FE E BR	LI- RM, CAL, C OTH PN)	TOC	REP- DCCI CAL PN)	HAF NES (MC	SS G/L	(MC	
OCT 03	1230	1	162	6.8	19.0		7.7		3.3		5400		9200		43		8.8
JAN 30	1330	1	183	6.5	3.5		9.6		.7		110		130		49		9.9
APR 02	1400	1	168	6.6	11.0		10.6		2.3		23		170		41		8.2
MAY 29	1230	2	280	6.5	21.0		7.3		5.5		2400		490		52		9.3
JUL 17	1300	1	176	7.0	26.5		2.8		4.2						46		9.0
AUG 21	0935	1	175	6.9	22.5		5.1		3.2		2300		490		45		8.5
SEP 23	0945	4	195	6.8	24.0		4.3		.9		490		3300		73		11
DATE	DI: SOL (MG	UM, S S- VED S /L	SODIUM, DIS- SOLVED (MG/L AS NA)	POTAS- SIUM, DIS- SOLVEI (MG/L AS K)	BICA BONA (MG	TE /L S	CAR- BONA (MG. AS CO	re /L	ALKA LINIT (MG/ AS CACO	Y L	SULFA DIS- SOLV (MG/ AS SO	ED L	CHLO RIDE DIS- SOLV (MG/ AS C	ED L	FLUC RID DIS SOL (MG AS	E, S- VED /L	
OCT 03		5.2	9.8	4.3	3	7		0		6	15	5	15	;		.1	
JAN 30		6.0	12	3.5	;	10		0		8	21		18	3		.1	
APR 02		5.1	11	3.6	5	17		0		14	18	3	18	3		.1	
MAY 29		7.0	29	3.9		29		0		24	22	2	43	1		.1	
JUL 17		5.6	11	3.9)	29		0		24	16	,	19	ĺ		.1	
AUG 21		5.7	13	4.1		28		0		23	17		22			.2	
SEP 23		1	56	6.3	3	32		0		26	28	3	99			.1	
DATE	SILIO DIS- SOL (MG AS SIO	CA, R - A VED /L	GOLIDS, RESIDUE T 180 DEG. C DIS- SOLVED (MG/L)	NITRO- GEN, NO2+NO3 TOTAL (MG/L AS N)	GE	NÍA AL /L	NITH GEN ORGAN TOTA (MG. AS N	NÍC L /L	NITRO GEN, A MONIA ORGAN TOTA (MG/ AS N	M- IC L	NITR GEN TOTA (MG/ AS N	L L	PHOS PHORU ORTHO OSPHA TOTA (MG/ AS PO	S, PH TE L	CARBO ORGAI TOTA (MG.	NIĆ AL /L	
OCT 03 JAN		7.2	100	2.6		600		.00		60	3.	2		41		6.5	
30 APR		8.4	107	6.9		260		.04		30	7.	2		20		3.9	
02 MAY		6.3	108	3.4		120		. 88	1.	0	4.	4		59		2.9	
29 JUL		4.8	163	.43		210	1.	4	1.	6	2.	0		08		3.4	
17		7.8	100	2.5		420		.68	1.	1	3.	6		64		3.5	
AUG 21 SEP		8.2	115	2.2		080		.68		76	3.	0		55		3.1	
23		8.2	290	2.5		210		.89	1.	1	3.	6	1.	0		6.6	

CAL YR 1979 WTR YR 1980 TOTAL

TOTAL

2204670

1515800

MEAN

MEAN

6040

4142

63000

59100

MTN

1110

MAX

DELAWARE RIVER BASIN

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) between Port Jervis, N.Y. and Matamoras, Pa., 1.2 mi (1.9 km) upstream from Neversink River, and 6.5 mi (10.5 km) downstream from Mongaup River. Water-quality sampling site at discharge station.

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. WRD NY 1971: 1970.

GAGE.--Water-stage recorder. Datum of gage is 415.35 ft (126.599 m) National Geodetic Vertical Datum of 1929.
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 and by Toronto, Cliff Lake, and Swinging Bridge
Reservoirs (see Reservoirs in Delaware River Basin) 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 Reservoirs in Delaware River Basin).
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 OUTSIDE PERIOD OF RECORD.—The U.S. Weather Bureau reported a discharge of 205,000 ft³/s (5,810 m³/s) Oct. 10, 1903, gage height, 23.1 ft (7.04 m), from rating curve extended above 70,000 ft³/s (1,980 m³/s) by velocity-area studies; stage on Mar. 8, 1904, was 25.5 ft (7.77 m), ice jam.

EXTREMES FOR CURRENT YEAR.—Maximum discharge, 73,400 ft³/s (2,080 m³/s) Mar. 22, gage height, 12.28 ft (3.743 m); minimum, 869 ft³/s (24.6 m³/s) Jan. 31, gage height, 1.78 ft (0.543 m); minimum daily, 1,110 ft³/s (31.4 m³/s) May 29.

DISCHARGE. IN CURIC FEET PER SECOND. WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980.

		DISCH	ARGE, IN	COBIC FEET		EAN VALUES		TOBER 1979	TO SEPTE	EMBER 1900		
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	YAM	JUN	JUL	AUG	SEP
1	2550	2260	7500	3510	2010	2200	15300	14500	1430	3350	1520	1840
2	6370	2230	6290	2990	2100	1500	14600	12500	1640	2550	1820	1650
3	6250	6260	6190	3600	1410	1400	13300	10900	1800	2230	1970	1640
4	7020	11100	6410	3340	1620	2200	13000	8840	1890	1880	2250	1680
5	6690	7780	6000	2800	1800	1810	14200	7220	1460	1350	2740	1720
6 7 8 9	10100 10500 8080 7190 6930	6410 5450 4810 4200 3520	5540 4620 3720 3030 3240	1900 1980 2740 2780 2660	1700 1800 1600 1800 1600	1660 1460 1710 3000 3840	12100 10500 8970 9590 20500	7090 7480 5290 4330 3330	1640 1860 1870 1610 2010	1430 1960 2280 2060 2010	2560 2280 2190 2040 1420	1740 1830 1550 1510 1580
11	6590	3480	3730	2630	1400	2950	20200	3280	2270	2030	1510	1550
12	5920	3440	3650	2790	1600	2650	15200	4370	1930	1730	1650	1700
13	5310	3330	3470	2700	1600	2320	13000	3670	1570	1740	1650	1860
14	4290	3030	3840	2770	1400	2460	12600	3700	1400	1530	1710	1710
15	3930	2680	3410	2690	1500	1500	16000	3260	1560	1940	1790	1690
16	4540	2540	2620	2510	1800	1270	16700	2740	1500	1980	1810	1740
17	4450	2630	2680	2520	1500	1720	14200	2290	1860	2070	1630	1860
18	4250	2360	3460	2910	1500	4640	12400	2120	1730	1850	1370	1920
19	3740	2240	3570	2450	1400	12200	10300	2530	1700	1480	1520	2080
20	3040	2270	2970	1830	1600	8770	8470	2370	1660	1350	1270	1930
21	2050	2410	2990	1750	1800	12600	7800	2290	1630	1490	1440	1690
22	2230	2200	2970	2080	1400	59100	7780	2190	1830	2280	1430	1670
23	3180	1960	2220	2380	1900	25500	6720	2000	1640	1880	1640	1830
24	3600	2050	2160	2180	1400	15500	6180	1770	1680	1950	1580	1620
25	4310	2030	3270	2330	1180	14800	5680	1550	1680	1750	1530	1720
26 27 28 29 30 31	4450 2790 2060 2230 2540 2410	4290 28700 18200 11900 9240	6820 6110 5130 4280 3380 3460	2080 1770 1910 1650 1440 1510	1300 1400 1700 1600	13400 10600 9900 11100 15500 15700	5170 3590 3540 8070 14500	1390 1370 1260 1110 1240 1400	1760 1620 1680 1730 2450	1720 1540 1330 1280 1240 1780	1850 1850 1890 1850 1900 1920	1700 1640 1690 1550 1780
TOTAL	149590	165000	128730	75180	46420	264960	340160	129380	52090	57040	55580	51670
MEAN	4825	5500	4153	2425	1601	8547	11340	4174	1736	1840	1793	1722
MAX	10500	28700	7500	3600	2100	59100	20500	14500	2450	3350	2740	2080
MIN	2050	1960	2160	1440	1180	1270	3540	1110	1400	1240	1270	1510

01434000 DELAWARE RIVER AT PORT JERVIS, NY -- Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD. -- Water years 1957-60, 1964 to current year.

CHEMICAL DATA: 1958-59 (e), 1964-65 (c), 1966 (a), 1967-68 (c), 1969-76 (d).

MINOR ELEMENTS DATA: 1970 (a), 1972-73 (a), 1974-76 (c).

PESTICIDE DATA: 1974 (a).

ORGANIC DATA: 0C--1974 (b), 1975 (d).

NUTRIENT DATA: 1968 (a), 1969-76 (d).

BIOLOGICAL DATA: Bacteria--1973-76 (d).
Phytoplankton--1974 (b), 1975-76 (c).
Periphyton--1976 (a).
SEDIMENT DATA: 1959 (c), 1976 (c).

PERIOD OF DAILY RECORD.-SPECIFIC CONDUCTANCE: January 1973 to September 1973.
WATER TEMPERATURES: February 1957 to September 1960, January 1973 to September 1973, June 1974 to current year.
SUSPENDED-SEDIMENT DISCHARGE: February 1957 to September 1960, March 1970 to June 1976.

INSTRUMENTATION .-- Temperature recorder since January 1973.

REMARKS .-- No temperature record May 23-27, due to instrument malfunctions.

EXTREMES FOR PERIOD OF DAILY RECORD.-WATER TEMPERATURES: Maximum (water years 1957-59, 1973-80), 29.5°C July 19, 1959, Aug. 3, 1975; minimum (water years 1958-60, 1973, 1975-80), freezing point on many days during winter periods.

EXTREMES FOR CURRENT YEAR . --WATER TEMPERATURES: Maximum, 28.0°C July 21; minimum, freezing point on many days during winter period.

TEMPERATURE (DEG. C) OF WATER, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		OCTOBE	ER		NOVEMBE	CR .		DECEMBE	R		JANUAR	Y
1 2 3 4 5	17.0 16.5 16.5 16.0 16.0	16.0 15.5 16.0 15.5 15.5	16.5 16.0 16.5 16.0	8.5 10.5 10.5 8.5 7.5	7.0 8.5 8.5 7.5 6.5	8.0 9.5 9.5 8.0 7.0	4.5 3.5 2.0 3.0 3.5	3.5 2.0 1.5 1.5 2.5	4.0 2.5 2.0 2.5 3.0	1.5 1.0 1.0 .5	.0 .0 .0	1.0 .5 .5 .0
6 7 8 9	15.5 14.5 14.0 12.5 11.5	14.5 13.0 12.0 11.5 10.0	14.5 13.5 12.5 12.0 11.0	7.0 7.0 7.0 7.5 8.0	6.5 6.5 6.5 7.5	6.5 7.0 6.5 7.0 8.0	4.0 4.5 4.5 3.0 2.5	3.0 3.5 3.0 2.0 2.0	3.5 4.0 4.0 2.5 2.5	1.0 .0 .5 .5	.0 .0 .0	.0 .0 .0
11 12 13 14 15	10.0 10.0 11.0 10.0 9.0	9.5 9.5 9.5 8.5 8.0	10.0 10.0 10.0 9.0 8.5	8.0 7.5 7.5 6.5	7.5 7.5 7.5 6.5 5.5	7.5 7.5 7.5 7.5 6.0	5.0 4.5 4.5 4.0 2.5	2.5 3.0 4.0 3.0 2.0	3.0 4.5 3.5 2.5	.5 .5 .0	.0 .0 .0	.0 .0 .0
16 17 18 19 20	10.5 10.5 12.0 12.5 13.5	8.5 9.5 9.5 11.0 11.5	9.5 10.0 11.0 11.5 12.5	5.5 5.5 5.5 6.0	4.0 3.5 4.0 4.0 4.5	5.0 4.5 4.5 5.0 5.5	2.0 2.0 .5 .5	1.0 .0 .0	2.0 1.0 .0 .0	1.0 1.0 1.5 1.5	.0 .0 .5 1.0	.5 1.0 1.5 1.0
21 22 23 24 25	15.0 16.0 16.0 15.5 13.5	13.0 14.0 15.0 13.5 11.5	14.0 15.0 15.5 14.5 12.5	6.5 7.0 7.5 9.0	5.5 6.5 6.5 7.5 9.0	6.0 6.5 7.0 8.5 9.5	1.0 1.5 1.5 3.0	.0 .0 1.0 1.5	.0 .5 1.5 1.5 2.5	1.0 .0 1.0 1.0	.0 .0 .0	.5 .0 .5 .0
26 27 28 29 30 31	11.5 10.0 8.0 7.5 8.0 8.0	10.0 8.0 7.0 7.5 7.5	11.0 9.0 7.5 7.0 7.5 7.5	12.0 11.0 10.0 8.0 6.0	10.0 10.0 8.0 6.0 4.0	11.0 10.5 8.5 7.0 5.0	2.5 2.0 2.0 2.5 2.0	2.0 1.5 1.5 2.0 1.5	2.0 2.0 1.5 2.0 2.0	.5 .5 .5 .0 .5	.0	.0 .0 .0
MONTH	17.0	7.0	12.0	12.0	3.5	7.0	5.0	.0	2.0	1.5	.0	.5

01434000 DELAWARE RIVER AT PORT JERVIS, NY--Continued

TEMPERATURE (DEG. C) OF WATER, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

		1	EMPERATURE	(DEG. C) OF	WATER,	WATER YEA	R OCTOBER	1979 10	SELIEMBEN	1900		
DAY	MAX	MIN	MEAN	MAX	MIN MARCH	MEAN	MAX	MIN APRIL	MEAN .	MAX	MIN	MEAN
1 2 3 4 5	.0 .5 .0	.0	.0	.0	.0	.0	4.5 5.5 5.0 6.0	3.0 4.0 4.0 5.5 5.5	4.0 4.5 5.0 5.5 6.0	12.0 13.0 14.0 15.0	10.0 11.5 12.0 13.5 13.5	11.0 12.0 13.0 14.0 14.5
6 7 8 9	.0 .5 .0	.0	.0 .0 .0	•5 •5 •0 •5	.0	.0 .0 .0	6.5 7.5 8.0 8.0	5.5 6.0 7.0 8.0 8.0	6.0 7.0 7.5 8.0 8.0	15.0 16.0 15.0 14.5 14.0	14.0 14.5 14.0 12.5 11.5	14.5 15.5 14.5 13.5 13.0
11 12 13 14 15	.0 .5 .0	.0	.0 .0 .0	.5 .5 .0	.0	.0 .0 .0	8.5 9.0 9.0	7.5 7.5 8.0 7.5 7.5	8.0 8.0 8.5 8.5 7.5	13.0 14.0 15.0 16.5 17.0	12.5 12.5 13.5 14.0 14.5	13.0 13.5 14.5 15.5 15.5
16 17 18 19 20	.0 .5 .0	.0 .0 .0	.0 .0 .0	2.0 3.0 2.0 1.0 2.0	.0	1.0 1.0 1.5 .5	8.0 6.5 7.5 8.5 9.5	6.5 5.5 6.0 6.5 8.0	7.5 6.0 6.5 7.5 9.0	16.5 17.5 16.5 17.5 18.5	13.5 14.0 15.5 15.0 16.0	15.0 16.0 15.5 16.5 17.5
21 22 23 24 25	.0	.0 .0 .0	.0	2.5 1.5 2.5 3.0	1.0 .5 1.0 2.0 3.0	2.0 1.0 2.0 2.5 3.0	11.0 11.5 12.5 12.0	9.0 9.0 9.5 10.5 11.5	10.0 10.0 10.5 11.5 12.0	17.5 19.0 	16.5 16.0 	17.0 17.5
26 27 28 29 30 31	.0	.0 .0 .0	.0 .0 .0	3.0 4.0 4.5 4.5 4.5	2.5 2.5 3.5 4.0 3.5	3.0 3.0 4.0 4.5 4.0	12.5 12.0 11.0 9.5 10.0	11.5 11.0 9.5 9.0 9.0	12.0 11.5 10.5 9.0 9.5	20.5 21.5 20.0 21.0	17.0 18.0 19.0	19.0 19.5 19.5 20.0
MONTH	.5	.0	.0	4.5	.0	1.0	12.5	3.0	8.0	21.5	10.0	15.5
DAY	MAX	MIN JUNE	MEAN	MAX	MIN	MEAN	MAX	MIN AUGUST	MEAN	MAX	MIN SEPTEME	MEAN
1 2 3 4 5	23.5 23.0 23.0 21.5 22.0	20.0 21.5 21.0 20.0 19.0	21.5 22.0 22.0 21.0 20.5	21.0 20.5 20.5 23.0 22.5	19.0 19.5 19.5 19.5 21.0	20.0 20.0 20.0 21.0 22.0	25.0 26.0 25.5 26.0 25.5	23.5 23.5 23.5 24.0 23.5	24.5 24.5 24.5 25.0 24.5	24.0 24.5 24.0 23.5 23.5	22.5 23.0 22.5 22.0 22.0	23.5 24.0 23.5 23.0 22.5
6 7 8 9	21.5 21.0 21.0 18.5 16.5	19.0 19.5 18.5 16.0 15.0	20.5 20.0 20.0 17.0 16.0	23.0 23.0 22.0 23.5 24.5	21.0 20.0 20.5 20.0 21.5	22.0 21.5 21.0 22.0 23.0	24.5 25.5 26.0 26.0 25.5	23.0 23.0 24.0 25.0 24.0	24.0 24.5 25.0 25.5 25.0	23.5 23.0 21.5 20.5 21.0	21.5 21.5 20.0 19.5 20.0	22.5 22.0 21.0 20.0 20.5
11 12 13 14 15	16.5 18.5 20.0 21.5 23.0	15.0 14.5 16.5 18.0 20.5	16.0 17.0 18.5 20.0 22.0	24.0 24.0 24.0 25.0 24.5	21.5 21.5 21.0 22.0 22.5	23.0 23.0 22.5 23.5 23.5	26.0 25.5 25.0 24.0 23.0	25.0 24.5 23.0 22.5 22.0	25.5 25.0 24.0 23.0 22.5	20.5 20.0 20.0 20.5 20.5	19.0 19.0 19.0 19.5 18.5	20.0 19.5 19.5 20.0 19.5
16 17 18 19 20	23.0 23.0 22.0 23.0 22.0	21.0 20.0 19.5 19.0 19.0	22.0 21.5 21.0 21.0 20.0	25.0 25.5 26.5 26.0 27.0	22.0 23.0 23.0 23.5 24.5	23.5 24.5 24.5 25.0 26.0	22.5 22.5 22.0 21.5 22.0	21.5 20.5 21.0 21.0 21.0	22.0 21.5 22.0 21.5 21.5	18.5 19.0 18.5 18.5 19.0	17.0 17.0 18.0 17.0	18.0 17.5 18.5 18.0 18.0
21 22 23 24 25	21.5 21.5 22.5 24.0 25.0	18.0 18.5 20.0 20.5 22.0	19.5 20.0 21.5 22.5 23.5	28.0 27.5 25.5 25.5 25.5	26.0 24.5 23.5 23.0 22.5	27.0 26.0 24.5 24.5 24.0	21.5 21.5 22.5 22.5 23.5	20.5 20.5 20.5 21.0 21.5	21.0 21.0 21.5 22.0 22.5	20.0 21.5 21.5 20.5 19.0	18.5 19.5 20.5 19.0 17.0	19.5 20.5 21.0 19.5 18.0
26 27 28 29	26.0 26.0 24.5 23.0 22.0	23.0 23.0 22.5 21.5 20.5	24.5 24.5 24.0 22.0 21.5	25.5 26.5 26.0 25.0	23.0 24.0 24.5 24.0 23.5 23.0	24.5 25.0 25.0 24.5 24.5 24.0	24.0 24.5 24.5 24.5 24.5 24.5	22.0 22.5 23.0 23.0 23.0 23.0	23.0 23.5 24.0 24.0 24.0	17.5 17.0 15.5 15.5 16.5	17.0 15.5 14.5 14.0 14.5	17.0 16.0 15.0 14.5 15.0
31 MONTH	26.0	14.5	21.0	25.0	19.0	23.5	26.0	20.5	23.5	24.5	14.0	19.5

01437500 NEVERSINK RIVER AT GODEFFROY, NY

LOCATION.--Lat 41°26'28", long 74°36'07", Orange County, Hydrologic Unit 02040104, on right bank just upstream from highway bridge on Graham Road, 0.5 mi (0.8 km) downstream from Basher Kill, 0.8 mi (1.3 km) southeast of Godeffroy, 1.7 mi (2.7 km) south of Cuddebackville, and 8.5 mi (13.7 km) upstream from mouth.

DRAINAGE AREA. -- 302 m12 (782 km2).

PERIOD OF RECORD. -- August to October 1903, August 1909 to April 1914 (gage heights and discharge measurements, also twice-daily figures of discharge for January 1911 to December 1912, which do not represent daily mean discharges because of diurnal fluctuation), and July 1937 to current year. August to October 1903, published as "Navesink River at Godeffroy, NY."

REVISED RECORDS. -- WSP 821: Drainage area. WSP 1502: 1951(M).

GAGE.--Water-stage recorder. Datum of gage is 459.66 ft (140.104 m) National Geodetic Vertical Datum of 1929 (levels by Corps of Engineers). Prior to Apr. 30, 1914, nonrecording gages at same site (August to October 1903 at datum 0.98 ft or 0.299 m higher).

REMARKS.—Records good except those for winter periods, which are poor. Prior to 1949, diurnal fluctuation at low and medium flow caused by powerplant at Cuddebackville. Subsequent to June 1953, entire flow from 91.8 mi² (237.8 km²) of drainage area controlled by Neversink Reservoir (see Reservoirs in Delaware River Basin). Part of flow 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, 33,000 ft³/s (935 m³/s) Aug. 19, 1955, gage height, 12.49 ft (3.087 m), from rating curve extended above 11,000 ft³/s (312 m³/s) on basis of slope-area measurement of peak flow; practically no flow several times in July 1911.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 9,340 ft³/s (265 m³/s) Mar. 21, gage height 9.37 ft (2.856 m); minimum discharge, 68 ft³/s (1.93 m³/s) Aug. 30, 31, Sept. 4, 5, 13, 23; minimum gage height, 2.77 ft (0.844 m) Aug. 30, 31.

		DISCHAR	GE, IN	CUBIC FEET	PER SEC	COND, WATER MEAN VALUES	YEAR C	OCTOBER 1979	PO SEPTE	MBER 1980		
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1 2 3 4 5	563 1270 851 971 927	292 288 980 811 624	603 538 476 441 413	319 306 290 241 245	130 130 120 120 120	120 110 110 100 107	1210 1160 953 1100 1140	885 772 663	187 177 184 201 175	342 227 213 183 159	85 95 114 115 103	93 96 94 70 76
6 7 8 9 10	2180 1320 1080 893 819	544 500 458 424 435	391 386 360 330 316	209 207 213 194 182	120 118 111 110 109	114 123 172 290 240	940 831 743 1380 2890	472 435 398	158 181 217 204 190	232 197 160 150 141	159 121 101 98 115	80 76 73 73 73
11 12 13 14 15	718 638 624 550 494	476 458 424 418 391	301 292 298 308 276	216 322 245 265 259	106 107 105 104 106	263 220 173 183 206	1940 1470 1240 1100 1280	444 433 460	174 163 153 143 136	131 124 109 104 99	92 90 91 91	73 71 72 73 75
16 17 18 19 20	458 424 396 386 365	370 355 340 325 311	264 303 249 226 226	239 228 225 222 200	111 110 110 110 116	199 197 679 725 582	1190 990 780 688 606	321 317 365	135 131 124 122 123	99 103 102 116 115	92 85 82 81 83	73 79 104 89 77
21 22 23 24 25	345 325 316 325 320	297 288 283 274 288	233 264 264 294 530	180 170 160 150 160	120 127 129 137 141	2170 5350 3040 2410 2040	536 492 455 424 401	319 291 266	125 118 113 110 107	112 139 147 113 96	82 81 80 76 75	74 73 70 73 75
26 27 28 29 30 31	297 279 288 320 292 270	659 1680 980 803 681	585 462 409 382 362 344	163 166 163 147 140 140	139 126 124 120	1620 1330 1200 1400 1530 1320	383 376 728 1810 1300	204 194 183 175	126 131 120 105 592	90 87 85 86 91 87	74 75 74 73 71 70	82 80 78 74 71
TOTAL MEAN MAX MIN	19304 623 2180 270	15457 515 1680 274	11126 359 603 226	6566 212 322 140	3436 118 141 104	28323 914 5350 100	30536 1018 2890 376	404 1050	4925 164 592 105	4239 137 342 85	2839 91.6 159 70	2340 78.0 104 70
CAL YR WTR YR			MEAN MEAN		3100 5350	MIN 88 MIN 70						

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 on U.S. Route 206 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).

WATER-DISCHARGE RECORDS

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

GAGE.--Water-stage recorder. Datum of gage is 369.93 ft (112.755 m) National Geodetic Vertical Datum of 1929. Prior to Feb. 9, 1940, nonrecording gage on upstream side of left span of subsequently dismantled bridge at present site at datum 70 ft (21.3 m) lower.

REMARKS.--Water-discharge records good. 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. -- 41 years, 5,931 ft3/s (168.0 m3/s), unadjusted.

EXTREMES FOR PERIOD OF RECORD. --Maximum discharge, 250,000 ft 3 /s (7,080 m 3 /s) Aug. 19, 1955, gage height, 35.15 ft (10.714 m), from rating curve extended above 90,000 ft 3 /s (2,550 m 3 /s) on basis of flood-routing study; minimum, 382 ft 3 /s (10.8 m 3 /s) Aug. 24, 1954, gage height, 3.83 ft (1.167 m), minimum daily, 412 ft 3 /s (11.7 m 3 /s) Aug. 23, 1954.

EXTREMES OUTSIDE PERIOD OF RECORD. -- Flood of October 10, 1903, reached a stage of 35.5 ft (10.82 m) from floodmark, present datum.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 69,800 ft³/s (1,980 m³/s) Mar. 22, gage height, 18.48 ft (5.633 m); minimum, 1,030 ft³/s (29.2 m³/s) Sept. 25, gage height, 4.48 ft (1.366 m).

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980
MEAN VALUES DAY OCT NOV SEP DEC JAN FEB MAR APR MAY JIIN JIII. AUG 2640 4340 4720 4180 3100 4310 1610 2180 1780 2000 2800 1810 2590 2170 1660 3140 10700 1600 1490 TOTAL. 13100 6231 27100 MEAN 23300 4130 MAX

CAL YR 1979 TOTAL 2475590 MEAN 6782 MAX 57200 MIN 1500 WTR YR 1980 TOTAL 1742430 MEAN 4761 MAX 58300 MIN 1350

01439830 BIG FLAT BROOK AT TUTTLES CORNER, NJ

LOCATION.--Lat 41°12'00", long 74°48'56", Sussex County, Hydrologic Unit 02040104, at bridge on State Route 521 in Tuttles Corner, 0.7 mi (1.1 km) west of intersection of U.S. Route 206 with State Route 521, 1.2 mi (1.9 km) south of Layton, and 2.0 mi (3.2 km) upstream from Little Flat Brook.

DRAINAGE AREA .-- 28.3 mi2 (73.3 km2).

WATER-QUALITY RECORDS

PERIOD OF RECORD .-- Water years 1964, 1976 to current year.

SPE-

COOPERATION. -- Field data 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 water-phase nutrients were performed by the New Jersey Department of Health, Division of Laboratories and Epidemiology.

WATER QUALITY DATA, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

DATE		STREAM- FLOW, INSTAN- IANEOUS (CFS)	SPE- CIFIC CON- DUCT- ANCE (MICRO- MHOS)	PH FIELD (UNITS	A? W	MPER- (FURE, ATER EG C)	DXYGEN, DIS- SOLVED (MG/L)	BIO	AND, F CHEM F NHIB DAY B	OLI- ORM, ECAL, EC ROTH MPN)	STREP- TOCOCCI FECAL (MPN))
OCT 15	1030					6.5	11.8			330	49	2:	2
MAR	Mary Trans					1907			100				
12 MAY	0945	41	82	7.	9	.0	14.3		E1.5	<20	17	24	4
06	1000	75	61	7.	1	14.0	9.6		. 6	<20	7	2	1
JUL 21	1115	10	114	8.	3	22.0	8.8					3'	7
AUG 14	0945	E7.4	110	6.	9		10.4		<.3	50	240	45	5
SEP 25	1000	18	110	7.	7	13.0	9.9		<.1	<20	170	4	5
23	1000		1,10			13.0	,.,			120	110		•
DATE	CALCIO DIS- SOLVI (MG/I AS CA	DIS ED SOL	UM, SODI S- DIS VED SOLI /L (MC	UM, S- /ED S G/L (OTAS- SIUM, DIS- OLVED MG/L S K)	ALKA- LINITY (MG/I AS CACO	SULF TOT	FIDE FAL G/L S)	SULFATE DIS- SOLVED (MG/L AS SO4)	DIS- SOLV (MG/	, RI D ED SO L (M	UO- DE, IS- LVED G/L F)	
ост									to Sample		200		
15	6.	. 1	1.6	2.4	. 6		8	.0	10	3	. 7	. 1	
MAR 12		. 4	2.0	2.7	.6		15		12	11	. 3	. 1	
MAY													
06 JUL	5	. 6	1.6	2.5	. 6		13		11	3	. 9	. 1	
21	9	. 6	3.1	4.3	.7	- 2	26		11	6	. 1	. 1	
AUG 14	12		3.6	4.6	. 7		35		9.7	6	. 1	.1	
SEP 25	12		3.7	4.4	. 7		29	. 5	10		. 4	. 1	
23	12		3.1	4.4	• 1		29	• 5	10	2	. 4		
DATE	SILICA DIS- SOLVI (MG/I AS SIO2	AT 18 ED DEG DIS	DUÉ NIT 80 GE . C NO2- S- TOT VED (MO	EN, NO3 AM TAL T G/L (ITRO- GEN, MONIA OTAL MG/L S N)	NITRO GEN ORGAN TOTAL (MG/I AS N	MONIC ORGA	RO- , AM- IA + ANIC FAL G/L N)	NITRO- GEN, TOTAL (MG/L AS N)	PHOS PHORU ORTHO OSPHA TOTA (MG/ AS PO	S, PH CAR TE ORG L TO L (M	BON, ANIC TAL G/L C)	
OCT													
15 MAR	5	. 2	46 <	1.0				.72		•	01	2.7	
12 MAY	. 4	. 6	53	. 27	.050						70	3.6	
06	. 3	. 7	44	.08	. 110		23	. 34	. 42		08	5.2	
JUL 21	. 4	. 7	67	. 15	.090		44	.53	. 68		33	144	
AUG 14	. 5	. 5	66	. 12	.060		41	. 47	.59		06	.8	
SEP 25	5	. 7	66	. 14	.080		29	. 37	.51		06	2.6	
-5	,		- "	2.77				, 51			55		

01439830 BIG FLAT BROOK AT TUTTLES CORNER, NJ--Continued

			. 40	Dain, and	Di Luin C	OTODER 13	,,, 10 02.	10.100.			
DATE	TIME	NITRO- GEN, NH4 + ORG. TOT IN BOT MAT (MG/KG AS N)	CARBON, INOR- GANIC, TOT IN BOT MAT (G/KG AS C)	CARBON, INORG + ORGANIC TOT. IN BOT MAT (G/KG AS C)	ALUM- INUM, DIS- SOLVED (UG/L AS AL)	ARSENIC TOTAL (UG/L AS AS)	ARSENIC TOTAL IN BOT- TOM MA- TERIAL (UG/G AS AS)	BERYL- LIUM, TOTAL RECOV- ERABLE (UG/L AS BE)	BORON, TOTAL RECOV- ERABLE (UG/L AS B)	CADMIUM TOTAL RECOV- ERABLE (UG/L AS CD)	CADMIUM RECOV. FM BOT- TOM MA- TERIAL (UG/G AS CD)
OCT											
15 SEP	1030				30	0		0	20	0	11- B-
25	1000	2200	.6	19	20	0	0	0	20	0	<10
DATE	CHRO-MIUM, TOTAL RECOV- ERABLE (UG/L AS CR)	CHRO-MIUM, RECOV. FM BOT- TOM MA- TERIAL (UG/G)	COBALT, RECOV. FM BOT- TOM MA- TERIAL (UG/G AS CO)	COPPER, TOTAL RECOV- ERABLE (UG/L AS CU)	COPPER, RECOV. FM BOT- TOM MA- TERIAL (UG/G AS CU)	IRON, TOTAL RECOV- ERABLE (UG/L AS FE)	IRON, RECOV. FM BOT- TOM MA- TERIAL (UG/G AS FE)	LEAD, TOTAL RECOV- ERABLE (UG/L AS PB)	LEAD, RECOV. FM BOT- TOM MA- TERIAL (UG/G AS PB)	MANGA- NESE, TOTAL RECOV- ERABLE (UG/L AS MN)	MANGA- NESE, RECOV. FM BOT- TOM MA- TERIAL (UG/G)
OCT 15	10			2		140		0		20	
SEP		7.0							1		
25	30	<10	<10	0	<10	120	4600	0	20	20	400
DATE	MERCURY TOTAL RECOV- ERABLE (UG/L AS HG)	MERCURY REÇOV. FM BOT- TOM MA- TERIAL (UG/G AS HG)	NICKEL, TOTAL RECOV- ERABLE (UG/L AS NI)	NICKEL, RECOV. FM BOT- TOM MA- TERIAL (UG/G AS NI)	SELE- NIUM, TOTAL (UG/L AS SE)	SELE- NIUM, TOTAL IN BOT- TOM MA- TERIAL (UG/G)	ZINC, TOTAL RECOV- ERABLE (UG/L AS ZN)	ZINC, RECOV. FM BOT- TOM MA- TERIAL (UG/G AS ZN)	PHENOLS (UG/L)	PCB, TOTAL IN BOT- TOM MA- TERIAL (UG/KG)	PCN, TOTAL IN BOT- TOM MA- TERIAL (UG/KG)
ОСТ					- 12						
15 SEP	.2		1		0		20		2		
25	<.1	.00	2	<10	-0	0	20	52	1	0	.0
DATE	ALDRIN, TOTAL IN BOT- TOM MA- TERIAL (UG/KG)	CHLOR-DANE, TOTAL IN BOT- TOM MA- TERIAL (UG/KG)	DDD, TOTAL IN BOT- TOM MA- TERIAL (UG/KG)	DDE, TOTAL IN BOT- TOM MA- TERIAL (UG/KG)	DDT, TOTAL IN BÔT- TOM MA- TERIAL (UG/KG)	DI- AZINON, TOTAL IN BOT- TOM MA- TERIAL (UG/KG)	DI- ELDRIN, TOTAL IN BOT- TOM MA- TERIAL (UG/KG)	ENDO- SULFAN, TOTAL IN BOT- TOM MA- TERIAL (UG/KG)	ENDRIN, TOTAL IN BOT- TOM MA- TERIAL (UG/KG)	ETHION, TOTAL IN BOT- TOM MA- TERIAL (UG/KG)	HEPTA- CHLOR, TOTAL IN BOT- TOM MA- TERIAL (UG/KG)
OCT											
15 SEP											
25	.0	2	.9	.0	.9	.0	.0	.0	.0	.0	•,0
DATE	HEPTA- CHLOR EPOXIDE TOT. IN BOTTOM MATL. (UG/KG)	LINDANE TOTAL IN BOT- TOM MA- TERIAL (UG/KG)	MALA- THION, TOTAL IN BOT- TOM MA- TERIAL (UG/KG)	METH- OXY- CHLOR, TOT. IN BOTTOM MATL. (UG/KG)	METHYL PARA- THION, TOT. IN BOTTOM MATL. (UG/KG)	METHYL TRI- THION, TOT. IN BOTTOM MATL. (UG/KG)	MIREX, TOTAL IN BOT- TOM MA- TERIAL (UG/KG)	PARA- THION, TOTAL IN BOT- TOM MA- TERIAL (UG/KG)	PER- THANE IN BOTTOM MATERIL (UG/KG)	TOXA- PHENE, TOTAL IN BOT- TOM MA- TERIAL (UG/KG)	TRI- THION, TOTAL IN BOT- TOM MA- TERIAL (UG/KG)
OCT 15									- 22		
SEP 25	.0	.0	.0	.0	.0	.0	.0	.0	.00	0	.0

01440000 FLAT BROOK NEAR FLATBROOKVILLE, NJ

LOCATION.--Lat 41°06'24", long 74°57'09", Sussex County, Hydrologic Unit 02040104, on right bank 1.0 mi (1.6 km) upstream from Flatbrookville, and 1.5 mi (2.4 km) upstream from mouth. Water-quality samples collected at bridge 0.7 mi (1.1 km) downstream from gage at high flows.

DRAINAGE AREA. -- 65.1 mi2 (168.6 km2).

CAL YR 1979 TOTAL 56037.0 WTR YR 1980 TOTAL 38664.9 MEAN 154

MEAN 106

MAX 1600

854

MAX

WATER-DISCHARGE RECORDS

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

REVISED RECORDS.--WSP 781: Drainage area. WSP 1432: 1924(M), 1928(M), 1929, 1930(M), 1932, 1933(M), 1936, 1938(M), 1939-40, 1949(M), 1952-53(M).

GAGE.--Water-stage recorder. Concrete control since Aug. 19, 1929. Datum of gage is 347.73 ft (105.988 m) National Geodetic Vertical Datum of 1929. Prior to Jan. 6, 1926, nonrecording gage at same site and datum.

REMARKS.--Water-discharge records good. No gage-height record Dec. 14 to Jan. 18. Flow occasionally regulated by ponds above station.

AVERAGE DISCHARGE. -- 57 years, 109 ft3/s (3.087 m3/s) 22.74 in/yr (578 mm/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 9,560 ft³/s (271 m³/s) Aug. 19, 1955, gage height, 12.58 ft (3.834 m) from high-water mark in gage house, from rating curve extended above 2,000 ft³/s (56.6 m³/s) on basis of slope-area measurement of peak flow; minimum, 3.6 ft³/s (0.10 m³/s) Sept. 25, 26, 1964, Sept. 11, 1966.

REVISIONS.--The maximum discharge for the water year 1970 has been revised to 2,710 ft 3 /s (76.7 m 3 /s) Apr. 3, 1970, gage height, 7.04 ft (2.146 m), superseding figure published in WSP 2102.

EXTREMES FOR CURRENT YEAR. -- Peak discharges above base of 650 ft3/s (18.4 m3/s) and maximum (*):

Date		Time	Discha (ft³/s)		Gage h	eight (m)	Date		Time	Discha (ft ³ /s)		Gage h	eight (m)
Oct. Mar.	6 22	0845 0530	*1080 1030	30.6	4.53 4.45	1.381 1.356	Apr.	10 29	1330 0530	874 916	24.8 25.9	4.15 4.23	1.265

Minimum discharge, 6.2 ft3/s (0.18 m3/s) Sept. 15, 16, 17, gage height, 1.74 ft (0.530 m).

		DISC	HARGE, IN	CUBIC FE	ET PER SE	COND, WAT MEAN VA	ER YEAR O	CTOBER 19	79 TO SEP	TEMBER 19	80	
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1 2 3 4 5	134 333 212 227 265	76 75 271 260 175	147 134 121 115 110	100 95 88 84 78	51 47 51 52 50	54 50 49 36 32	355 331 271 295 289	330 263 226 200 174	61 56 80 84 58	66 42 47 43 43	28 23 29 24 21	8.9 10 9.1 8.7 8.5
6 7 8 9	854 391 269 214 211	152 138 126 116 140	108 119 114 103 94	76 72 71 64 70	52 49 44 43 42	33 39 55 83 66	226 196 178 266 713	161 148 143 131 120	49 48 49 48	107 61 44 36 32	19 16 16 14 13	9.3 8.8 8.1 7.6 7.5
11 12 13 14 15	217 190 174 150 135	158 158 141 139 126	91 89 92 116 100	170 155 122 118 106	42 41 40 40 39	91 73 51 51 75	452 317 264 268 344	114 130 138 121 104	46 42 39 37 35	29 34 35 28 24	24 20 18 16	7.3 7.3 7.3 7.0 6.8
16 17 18 19 20	125 115 110 103 99	118 111 105 99 94	107 102 94 91 88	102 96 93 87 82	39 43 42 46 43	77 56 332 286 195	278 226 198 182 167	95 87 84 86 82	34 31 29 28 28	25 28 27 23 21	14 13 12 14	6.7 7.5 51 30 18
21 22 23 24 25	93 89 86 97 93	91 88 87 85 84	87 88 105 165 190	75 71 72 64 63	43 47 48 54 55	316 832 412 352 413	155 141 132 126 120	90 113 86 75 67	28 27 28 24 23	20 18 24 25 20	13 12 12 11 10	14 12 11 9.7 9.1
26 27 28 29 30 31	83 79 86 101 86 80	167 476 250 193 164	165 148 132 125 112 108	60 58 60 68 74 64	54 46 47 43	317 267 246 304 355 314	115 117 316 850 510	60 55 53 52 49 48	22 21 20 21 137	17 16 15 17 58 36	9.8 9.6 9.2 8.9 8.8	9.3 8.8 8.7 8.5 8.6
TOTAL MEAN MAX MIN CFSM IN.	5501 177 854 79 2.72 3.14	4463 149 476 75 2.29 2.55	3560 115 190 87 1.77 2.03	2658 85.7 170 58 1.32 1.52	1333 46.0 55 39 .71 .76	5912 191 832 32 2.93 3.38	8398 280 850 115 4.30 4.80	3685 119 330 48 1.83 2.11	1282 42.7 137 20 .66 .73	1061 34.2 107 15 .53	476.8 15.4 29 8.5 .24 .27	335.1 11.2 51 6.7 .17

MIN 6.7

CFSM 1.63

TN 22.09

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 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.

WATER-DISCHARGE RECORDS

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

GAGE. -- Water-stage recorder. Datum of gage is 293.64 ft (89.501 m) National Geodetic Vertical Datum of 1929.

REMARKS.--Water-discharge records good except those from January 15 through June 18, which are fair. 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. -- 16 years, 6,590 ft3/s (186.6 m3/s), unadjusted.

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.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 75,200 ft 3 /s (2,130 m 3 /s) Mar. 22, gage height, 18.69 ft (5.697 m); minimum daily discharge, 1,430 ft 3 /s (40.5 m 3 /s) Aug. 21.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980
MEAN VALUES

DA Y	OCT	NO V	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1 2 3 4 5	3090	3490	11200	5330	1700	1600	21200	18900	2200	3960	2160	2100
	8290	3380	9150	4090	2000	2000	20400	15900	2230	4030	1960	1950
	10500	5010	8080	4810	2200	1800	18800	13900	2760	3240	2050	2030
	10200	14300	8560	4540	1900	1850	17300	11100	2850	2800	2480	1680
	10900	11700	8080	4270	2000	2240	19400	9210	2570	2130	2950	1900
6 7 8 9	16800 17800 13000 11600 10100	9080 7780 6840 6210 5500	7550 6660 6170 4940 4400	3530 2500 2800 3000 2900	2100 2100 2000 2100 2000	2070 1870 1850 2710 4040	17300 14700 12400 12400 25300	10200 9030 7880 6900 6400	2210 2420 2690 2530 2660	2380 2200 2910 2770 2560	3120 2860 2710 2540 1820	1780 1830 1930 1700 1620
11	10300	5240	4990	3450	1900	4550	30200	5280	2560	2560	1580	1620
12	9010	5220	5080	4250	1850	3440	22900	5120	3070	2440	1960	1710
13	8370	5070	5120	4110	1900	3130	18700	6400	2570	2000	1940	1850
14	7010	4800	5120	3610	2000	3450	16900	5650	2210	1990	1810	1830
15	6010	4290	5230	4000	1900	3840	19900	5520	1830	2230	2010	1810
16	6410	3950	4300	4000	1950	2390	22900	4970	2040	2360	1980	2000
17	6340	3830	3740	3460	1700	2050	19500	4250	2310	2420	1840	1890
18	6150	3740	4200	4020	1800	4230	16700	3660	2210	2380	1760	2420
19	5740	3500	4500	3890	1850	14500	14200	3460	1990	2050	1690	2170
20	5140	3380	4120	3060	2000	12900	11400	3890	2030	1490	1520	2300
21	3780	3380	4400	2710	2100	13200	10300	3720	1900	1610	1430	1830
22	3400	3410	4360	2710	2150	61100	10200	3780	1880	2280	1630	1840
23	4210	3090	3680	3130	2020	45500	8860	3550	2050	2570	1580	2160
24	4800	2990	3350	2800	2210	26100	8060	3210	2120	2310	1670	1830
25	5270	2940	3890	2500	1820	21900	7470	2840	1750	2250	1700	1850
26 27 28 29 30 31	5810 5090 3500 3340 3640 3680	4270 26300 30000 18300 13600	7660 8870 7360 6530 5260 4870	2600 2500 2600 2300 2100 1750	1780 1750 1700 1650	21000 16700 14100 14800 20100 21200	6860 5360 5850 15600 21600	2480 2230 2210 1870 1780 1960	1940 2000 1790 1750 2700	2050 1740 1710 1580 1650 1600	1830 2070 2000 2070 1950 2010	1960 1900 1950 1800 2030
TOTAL	229280	224590	181420	103320	56130	352210	472660	187250	67820	72250	62680	57270
MEAN	7396	7486	5852	3333	1936	11360	15760	6040	2261	2331	2022	1909
MAX	17800	30000	11200	5330	2210	61100	30200	18900	3070	4030	3120	2420
MIN	3090	2940	3350	1750	1650	1600	5360	1780	1750	1490	1430	1620

CAL YR 1979 TOTAL 3109180 MEAN 8518 MAX 58000 MIN 1530 WTR YR 1980 TOTAL 2066880 MEAN 5647 MAX 61100 MIN 1430

01443000 DELAWARE RIVER AT PORTLAND, PA

LOCATION.--Lat 40°55'26", long 75°05'46", Northampton County, Hydrologic Unit 02040105, at walkbridge connecting Portland, PA and Columbia, NJ, and 0.5 mi (0.8 km) upstream of Paulins Kill.

DRAINAGE AREA. -- 4, 165 mi2 (10, 787 km2).

WATER-QUALITY RECORDS

PERIOD OF RECORD. -- Water years 1976 to current year.

COOPERATION.--Field data 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 water-phase nutrients were performed by the New Jersey Department of Health, Division of Laboratories and Epidemiology.

WATER QUALITY DATA, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

DATE	TIME T	TREAM- FLOW, NSTAN- ANEOUS (PH	TEMPER- ATURE, WATER (DEG C)	OXYGEN DIS- SOLVE (MG/L	, BI UN D 5	MAND, OCHEM INHIB DAY	COLI- FORM, FECAL, EC BROTH (MPN)	STR TOCO FEC (MP	EP- I CCI (HARD- NESS (MG/L AS (ACO3)
OCT 16	0930				8.0	10.	6	1.0	<20		9	25
MAR											.com	
25 JUN	0945		55	7.2	3.0	12.	3	1.5	80		350	17
02	1000		93	7.5	21.0	9.	5	1.4	50		15	28
JUL	4000					-			400		40	20
14 AUG	1000	E2520	83	8.1	24.0	7.	9	<1.3	130		<2	28
18	0930	E2090	82	7.6	23.0	8.	2	6.3	80		5	28
SEP 29	1030	E 1970	92	7.6	16.5	9.	4	<.1	<20		4	28
DATE	CALCIUM DIS- SOLVEI (MG/L AS CA	DIS- SOLVEI (MG/L	DIS- D SOLVED (MG/L	DIS- SOLVE (MG/I	M, ALK. LINI ED (MG L AS	TY SU /L T	LFIDE OTAL MG/L S S)	SULFAT DIS- SOLVE (MG/L AS SO4	DIS- D SOLV (MG)	E, /ED /L	FLUO- RIDE, DIS- SOLVEI (MG/L AS F)	
OCT												
16	7.0	5 1.	5 3.	2	. 6	8		.11	1	1.4		1
MAR 25	4.8	3 1.	1 3.	3 1	. 0	16		8.	7 1	1.3	. ()
JUN								100				
02 JUL	8.	4 1.	6 3.9	9	. 7	16	. 0	13	6	5.2	•	
14	8.5	1.	6 3.9	,	. 9	20		9.	9 6	5.2		1
AUG 18	8.	3 1.	8 4.8	3 1.	. 0	17		11	6	. 2		1
SEP 29	8.	7 1.0	6 3.6	5 .	. 9	16	.0	9.	7 5	. 7		1
	SILICA, DIS- SOLVEI (MG/L AS	AT 180	E NITRO- GEN, NO2+NO3 TOTAL	GEN,	GE IA ORGA L TOT	RO- GE N, MO NIC OR AL T	TRO- N,AM- NIA + GANIC OTAL MG/L	NITRO- GEN, TOTAL (MG/L	PHOS PHORU ORTHO OSPHA TOTA (MG/	JS, OPH ATE AL	CARBON, ORGANIO TOTAL (MG/L	
DATE	SI02)	(MG/L) AS N)	AS N) AS	N) A	S N)	AS N)	AS PO)4)	AS C)	
OCT 16 MAR	3.5	5 48	3 <1.0	. 50	00	. 00	.50	_	- 4	05	3.5	5
25	3.0) 40	.35	. 1	10 1	. 3	1.4	1.8		01		
JUN 02	1.2	2 59	. 38	. 17	70	. 37	. 54	. 9	2 .	30	1.6	5
JUL 14 AUG	1.3	1 62	2 . 15	. 15	50	. 40	. 55	.70	0 .	37	9.	
18 SEP	1.5	5 52	2 .05	. 05	50	. 42	. 47	• 5	2 .	09	1.0)
29	. 9) 50	. 13	.21	10	. 30	.51	. 6	4 .	09	4.2	2

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DELAWARE RIVER BASIN

01443000 DELAWARE RIVER AT PORTLAND, PA--Continued

DATE	TIME	ALUM- INUM, DIS- SOLVED (UG/L AS AL)	ARSENIC TOTAL (UG/L AS AS)	BERYL- LIUM, TOTAL RECOV- ERABLE (UG/L AS BE)	BORON, TOTAL RECOV- ERABLE (UG/L AS B)	CADMIUM TOTAL RECOV- ERABLE (UG/L AS CD)	CHRO- MIUM, TOTAL RECOV- ERABLE (UG/L AS CR)	COPPER, TOTAL RECOV- ERABLE (UG/L AS CU)
JUN							15 150	
02 SEP	1000	10	0	0	20	0	10	4
29	1030	20	0	0	8	0	10	1
	Tun		MANGA-	Contract	032			
	IRON, TOTAL RECOV-	LEAD, TOTAL RECOV-	NESE, TOTAL RECOV-	MERCURY TOTAL RECOV-	NICKEL, TOTAL RECOV-	SELE-	ZINC, TOTAL RECOV-	
	ERABLE (UG/L	ERABLE (UG/L	ERABLE (UG/L	ERABLE (UG/L	ERABLE (UG/L		ERABLE (UG/L	PHENOLS
DATE	AS FE)	AS PB)	AS MN)	AS HG)	AS NI)	AS SE)	AS ZN)	(UG/L)
JUN								
02 SEP	100	13	30	<.1	4	0	10	2
29	100	34	30	.1	2	0	20	6

DELAWARE RIVER BASIN 57 01443440 PAULINS KILL AT BALESVILLE, NJ

LOCATION.--Lat 41°06'20", long 74°45'19", Sussex County, Hydrologic Unit 02040105, at bridge on unnamed road at Balesville, 2.2 mi (3.5 km) downstream from Dry Brook, and 3.4 mi (5.5 km) north of Newton.

DRAINAGE AREA .-- 67.1 mi2 (173.8 km2).

WATER-QUALITY RECORDS

PERIOD OF RECORD .-- January 1979 to current year.

COOPERATION.--Selected field data 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 water-phase nutrients were performed by the New Jersey Department of Health, Division of Laboratories and Epidemiology.

WATER QUALITY DATA, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

DATE		STREAM- FLOW, INSTAN- IANEOUS (CFS)	SPE- CIFIC CON- DUCT- ANCE (MICRO- MHOS)	PH FIELD (UNITS)	TEMPER- ATURE, WATER (DEG C)	OXYG DI SOL (MG	EN, BI S- UN VED 5	MAND, I OCHEM I INHIB DAY I	COLI- FORM, FECAL, EC BROTH (MPN)	STREP- TOCOCCI FECAL (MPN)	HARD- NESS (MG/L AS CACO3)
OCT	1200	4110			0.0				700	220	100
15 FEB		149			8.0		1.4		790	220	120
28 APR	1030	60	512	7.9	.0	1	3.0	E.5	700	11	170
21 JUN	1200	140	370	8.3	13.5	1	2.0	2.0	50	11	130
02	1015	92	440	7.4	18.5		8.1	1.9	5400	920	140
JUL 14 AUG	1000	30	440	7.9	19.5		8.2	E2.0	790	79	170
14 SEP	0945	E23	502	7.9	21.0		7.0	1.8	700	130	210
25	1145	16	550	8.5	16.5		8.9	<.1	230	540	240
DATE	CALCIO DIS- SOLVI (MG/I AS CA	DIS ED SOLV	M, SODI - DIS ED SOLV L (MG	UM, SI - DI ED SOL /L (MG	S- LINI VED (MG	G/L	SULFIDE TOTAL (MG/L AS S)	SULFATE DIS- SOLVEI (MG/L AS SO4)	DIS- SOLV (MG/	, RIDE DIS ED SOLV L (MG/	E, S- VED 'L
OCT											
15 FEB	33	10	1	6	1.7	95	.0	22	30		. 1
28 A PR	45	15	2	4	2.1	130		34	44		. 1
21 JUN	34	12	1	5	1.5	100		22	28		.1
02	31	14	2	3	1.4	130		26	34		. 1
JUL 14	43	16	2	6	1.9	150		22	42		. 1
AUG 14		19	2	4	2.6	170		28	45		.2
SEP 25	60	22	2	9	2.5	180	.3	32	56		. 2
					575	3.53					
DATE	SILICA DIS- SOLVI (MG/I AS SIO2)	AT 18 ED DEG. DIS SOLV	UE NIT O GE C NO2+ TOT ED (MG	N, GE NO3 AMMO AL TOT /L (MG	N, GE NIA ORGA AL TOTA I/L (MO	TRO- CEN, MANIC CAL	NITRO- GEN, AM- MONIA + ORGANIC TOTAL (MG/L AS N)	NITRO-	PHOS PHORU ORTHO OSPHA TOTA (MG/ AS PO	S, PH CARBO TE ORGAN L TOTA L (MG/	IIĆ L 'L
OCT											
15 FEB	6.	. 3 1	97 1	.0 .	700	.50	1.2	2.2		36 4	. 6
28 APR	5	. 8 2	79 1	.5 .	470) I - -		30 3	3.7
21 JUN	. 3	.1 2	203	. 65 .	120	. 47	• 59	1.2		13 3	3.9
02	. 4	.7 2	70 1	.1 .	180	. 46	.64	1.6		56 3	3.1
JUL 14 AUG	3	. 3 2	78	.94 .	180	. 32	.50	1.4		41 6	. 5
14	. 8	. 4 3	15	. 36 .	170	. 80	. 97	1.3	1.	0 3	. 2
SEP 25	6.	.1 3	45	.83 .	070	. 38	. 45	1.3		77 5	. 0

01443440 PAULINS KILL AT BALESVILLE, NJ--Continued

DATE	TIME	ALUM- INUM, DIS- SOLVED (UG/L AS AL)	ARSENIC TOTAL (UG/L AS AS)	ARSENIC TOTAL IN BOT- TOM MA- TERIAL (UG/G AS AS)	BERYL- LIUM, TOTAL RECOV- ERABLE (UG/L AS BE)	BORON, TOTAL RECOV- ERABLE (UG/L AS B)	CADMIUM TOTAL RECOV- ERABLE (UG/L AS CD)	CADMIUM RECOV. FM BOT- TOM MA- TERIAL (UG/G AS CD)	CHRO-MIUM, TOTAL RECOV- ERABLE (UG/L AS CR)	CHRO- MIUM, RECOV. FM BOT- TOM MA- TERIAL (UG/G)
OCT 15 SEP	1200	30	1	0	0	30	0	<10	10	10
25	1145	20	1		0	40	0		20	
DATE	COPPER, TOTAL RECOV- ERABLE (UG/L AS CU)	COPPER, RECOV. FM BOT- TOM MA- TERIAL (UG/G AS CU)	IRON, TOTAL RECOV- ERABLE (UG/L AS FE)	IRON, RECOV. FM BOT- TOM MA- TERIAL (UG/G AS FE)	LEAD, TOTAL RECOV- ERABLE (UG/L AS PB)	LEAD, RECOV. FM BOT- TOM MA- TERIAL (UG/G AS PB)	MANGA- NESE, TOTAL RECOV- ERABLE (UG/L AS MN)	MANGA- NESE, RECOV. FM BOT- TOM MA- TERIAL (UG/G)	MERCURY TOTAL RECOV- ERABLE (UG/L AS HG)	MERCURY RECOV. FM BOT- TOM MA- TERIAL (UG/G AS HG)
OCT 15	3	<10	310	14000	0	10	50	370	.2	.00
SEP 25	1		260		45		80	111.5	<.1	
					.,					
DATE	NICKEL, TOTAL RECOV- ERABLE (UG/L AS NI)	SELE- NIUM, TOTAL (UG/L AS SE)	SELE- NIUM, TOTAL IN BOT- TOM MA- TERIAL (UG/G)	ZINC, TOTAL RECOV- ERABLE (UG/L AS ZN)	ZINC, RECOV. FM BOT- TOM MA- TERIAL (UG/G AS ZN)	PHENOLS (UG/L)	PCB, TOTAL IN BOT- TOM MA- TERIAL (UG/KG)	PCN, TOTAL IN BOT- TOM MA- TERIAL (UG/KG)	ALDRIN, TOTAL IN BOT- TOM MA- TERIAL (UG/KG)	CHLOR-DANE, TOTAL IN BOT- TOM MA- TERIAL (UG/KG)
OCT										
15 SEP	2	0	0	20	70	2	3	.0	.0	7
25	1	0		10		0				
DATE	DDD, TOTAL IN BOT- TOM MA- TERIAL (UG/KG)	DDE, TOTAL IN BOT- TOM MA- TERIAL (UG/KG)	DDT, TOTAL IN BOT- TOM MA- TERIAL (UG/KG)	DI- AZINON, TOTAL IN BOT- TOM MA- TERIAL (UG/KG)	DI- ELDRIN, TOTAL IN BOT- TOM MA- TERIAL (UG/KG)	ENDO- SULFAN, TOTÁL IN BOT- TOM MA- TERIAL (UG/KG)	ENDRIN, TOTAL IN BOT- TOM MA- TERIAL (UG/KG)	ETHION, TOTAL IN BOT- TOM MA- TERIAL (UG/KG)	HEPTA- CHLOR, TOTAL IN BOT- TOM MA- TERIAL (UG/KG)	HEPTA- CHLOR EPOXIDE TOT. IN BOTTOM MATL. (UG/KG)
OCT	2 4									
SEP	2.7	1.5	1.7	.0	.0	.0	.0	.0	.0	.0
25								-	77	77
DATE	LINDANE TOTAL IN BOT- TOM MA- TERIAL (UG/KG)	MALA- THION, TOTAL IN BOT- TOM MA- TERIAL (UG/KG)	METH- OXY- CHLOR, TOT. IN BOTTOM MATL. (UG/KG)	METHYL PARA- THION, TOT. IN BOTTOM MATL. (UG/KG)	METHYL TRI- THION, TOT. IN BOTTOM MATL. (UG/KG)	MIREX, TOTAL IN BOT- TOM MA- TERIAL (UG/KG)	PARA- THION, TOTAL IN BOT- TOM MA- TERIAL (UG/KG)	PER- THANE IN BOTTOM MATERIL (UG/KG)	TOXA- PHENE, TOTAL IN BOT- TOM MA- TERIAL (UG/KG)	TRI- THION, TOTAL IN BOT- TOM MA- TERIAL (UG/KG)
OCT 15	.0		.0	0	0		0	.00	0	
SEP		.0	.0	.0	.0	.0	.0	.00	U	.0
25										

01443500 PAULINS KILL AT BLAIRSTOWN, NJ

LOCATION.--Lat 40°58'44", long 74°57'15", Warren County, Hydrologic Unit 02040105, on right bank 1,200 ft (370 m) upstream from bridge on State Highway 94 in Blairstown, 1,400 ft (430 m) upstream from Blairs Creek, and 10 mi (16 km) upstream from mouth. Water-quality samples collected at bridge 1,200 ft (370 m) downstream from gage at high flows.

DRAINAGE AREA . -- 126 mi2 (326 km2).

WATER-DISCHARGE RECORDS

PERIOD OF RECORD .-- October 1921 to September 1976, October 1977 to current year.

REVISED RECORDS. -- WSP 971: 1942. WSP 1382: 1952-53(M).

Discharge

GAGE.--Water-stage recorder and concrete control (Aug. 1, 1931, to Aug. 3, 1941, concrete control at site 280 ft or 85 m, downstream). Datum of gage is 335.86 ft (102.370 m) National Geodetic Vertical Datum of 1929. Prior to May 24, 1922, nonrecording gage and May 24, 1922, to July 31, 1931, water-stage recorder, at site of former highway bridge 1,300 ft (400 m) downstream at different datum. Aug. 1, 1931 to July 28, 1939, water-stage recorder at site 100 ft (30 m) downstream at present datum.

REMARKS.-Water-discharge records fair. Diurnal fluctuation caused by powerplant above station and flow regulated slightly by Swartswood Lake.

AVERAGE DISCHARGE.--58 years, (water years 1922-76, 1978-80) 194 ft3/s (5.494 m3/s), 20.91 in/yr (531 mm/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 8,750 ft $^3/s$ (248 m $^3/s$) Aug. 19, 1955, gage height, 11.12 ft (3.389 m) from high-water mark in gage house; minimum, about 2.8 ft $^3/s$ (0.08 m $^3/s$) Nov. 1, 1922; minimum daily, 5 ft $^3/s$ (0.14 m $^3/s$) Aug. 13, 14, 1930.

Discharge

Gage height

EXTREMES FOR CURRENT YEAR, -- Peak discharges above base of 1,000 ft3/s (28.3 m3/s) and maximum (*):

Gage height

Date	Time	(ft^3/s)	(m^3/s)	(ft)	(m)		Date	T	ime (ft ³	$/s)$ (m^3/s)	(ft)	(m)
Oct. Mar.	6 0600 22 0515	*1280 1250	36.2 35.4	4.14 4.04	1.262		Apr.		100 100 615 11			1.015
Mini	mum discharge	, 18 ft ³ /DISCHAF	s (0.51	m³/s) Ser CUBIC FEE	ot. 17,	gage hei SECOND, WA MEAN V	TER YEAR	ft (0.4 OCTOBER	42 m). 1979 TO SEP	TEMBER 198	0	
DA Y	OCT	NOV	DEC	JA N	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1 2 3 4 5	233 457 361 374 487	158 153 237 246 236	240 224 204 192 186	205 ⁻ 195 187 173 163	83 88 85 88 83	75 80 71 72 72	604 540 469 533 556	736 539 445 376 323	170 180 136	84 64 61 59 56	61 54 75 75 60	22 21 23 25 23
6 7 8 9	1100 613 460 410 395	254 242 226 214 236	184 213 212 191 177	149 143 140 135 124	80 79 77 77 76	74 75 88 112 109	448 391 367 432 892	291 268 268 244 223	99 96 91	183 135 100 85 74	55 48 40 39 35	24 23 22 20 20
11 12 13 14 15	423 376 346 305 276	286 292 275 258 240	149 162 185 239 209	146 347 269 229 219	74 74 71 72 72	155 140 114 106 125	671 514 461 469 590	213 232 270 250 213	87 78 72	65 71 65 56 49	34 60 51 41 40	20 20 19 19
16 17 18 19 20	263 251 241 232 221	226 211 198 191 185	189 225 191 179 178	213 194 187 196 190	81 77 78 79 78	116 120 662 565 373	500 415 366 332 305	191 173 161 160 154	57 55	47 55 53 47 42	38 33 31 30 37	19 19 32 40 29
21 22 23 24 25	214 202 196 197 187	182 175 171 165 166	172 172 173 198 327	174 162 157 142 128	80 92 93 113 130	539 1180 928 754 795	282 259 239 223 214	159 176 162 144 126		39 37 67 71 57	38 34 31 30 29	25 23 22 22 21
26 27 28 29 30 31	177 168 175 178 172 164	232 461 357 299 255	376 306 271 250 235 220	127 118 117 110 101 93	121 101 95 84	668 526 450 496 552 507	203 207 434 1130 1010	118 114 110 102 110 124	44 41 41 85	48 40 37 41 87 74	27 24 23 23 23 23	20 20 20 20 20
TOTAL MEAN MAX MIN CFSM IN.	318 1100 164 2.52	234 461 153	6629 214 376 149 1.70 1.96	5233 169 347 93 1.34 1.54	2481 85.6 130 71 .68 .73	10699 345 1180 71 2.74 3.16	14056 469 1130 203 3.72 4.15	7175 231 736 102 1.83 2.12	2417 80.6 180 41 .64	2049 66.1 183 37 .53 .60	1241 40.0 75 22 .32 .37	672 22.4 40 19 .18
CAL YR WTR YR		102016 69533	MEAN 2 MEAN 1		2700 1180	MIN 42 MIN 19	CFSM 2.2 CFSM 1.5					

01443500 PAULINS KILL AT BLAIRSTOWN, NJ--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 1921, 1925, 1957-60, 1962-63, 1976 to current year.

COOPERATION.--Selected field data 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 water-phase nutrients were performed by the New Jersey Department of Health, Division of Laboratories and Epidemiology.

WATER QUALITY DATA, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

	DATE	TIME		SPE- CIFIC CON- DUCT- ANCE MICRO- MHOS)	PH FIELD (UNITS)	WAT	PER- (JRE, FER G C)	DXYGEN DIS- SOLVE (MG/L	DEN BIG UNI	OCHEM INHIB	COLI- FORM, FECAL, EC BROTH (MPN)	STREI TOCOCO FECAI (MPN)	P- NE	RD- SS G/L S
			(4.4)		(0,110)	(220	. 0,	(11072	, , ,,,,	, -,		,,		
	11	1000	431	267			9.0	11.	. 0	1.0	130	51	10	110
M.A	AR 20	1115	366	223	7 0		2 5	12.	0	E2.4	1100	51	10	75
JU	JN				7.8		3.5							
)2 JL	1145	E 170	400	7.5		20.5	7.	. 4	1.2	220	13	30	160
	14 JG	1115	56	355	7.8	2	20.5	6.	. 8	E1.9	110	1	19	140
1	14	1130	40	393	8.6		23.0	7.	.0	1.7	50	7	79	160
SE	EP 29	1015	20	460	7.6		14.0	8.	3	<.3	20		8	190
	DATE	CALCI DIS- SOLV (MG/	DIS- ZED SOLVE L (MG/L	DIS D SOLV	UM, S: - D: ED SOI /L (MC	TAS- IUM, IS- LVED G/L K)	ALKALINITY (MG/IAS CACO	Y SU	ULFIDE TOTAL (MG/L AS S)	SULFAT DIS- SOLVE (MG/L AS SO4	D SOLV	E, F	TLUO- RIDE, DIS- BOLVED MG/L	
	OCT	27	9.	4 1	3	1.4		78	.0	18	21		.1	
	MAR 20	19	6.	7 1	1	1.8		54		14	19)	.1	
	JUN 02	39	15	1	4	1.0	11	30		22	25		. 1	
	JUL		- 25											
	14 AUG	32	14		6	1.5	12	20	7-	18	27		• 1	
	14 SEP	36	16	1	7	1.8	1:	30		20	32	2	. 1	
	29	45	20	2	3	1.8	10	60		23	4		.2	
	DATE	SILIO DIS- SOLV (MG/ AS SIO2	YED DEG. YL DIS- SOLVE	DE NIT OF GE OF NO2+ TOT OF (MG	N, G NO3 AMM AL TO: /L (M	TRO- EN, ONIA TAL G/L N)	NITRO GEN ORGAN TOTAL (MG/I AS N	O- GE , MO IC OF L T	TTRO- EN, AM- DNIA + RGANIC TOTAL (MG/L AS N)	NITRO GEN, TOTAL (MG/L AS N)	OSPHA TOTA (MG/	JS, OPH CA ATE OF AL T	ARBON, RGANIC TOTAL MG/L AS C)	
	OCT 11		5.1 15	6 (1	.0	. 300		36	. 66		_	. 19	4.7	
	MAR													
	20 JUN)	3.6 13		• 59	.210	1.	1	1.3	1.9		. 25	7.5	
	02 JUL	. 2	2.5 24	10	• 55	. 160		59	• 75	1.3		. 19	2.5	
	14	. 2	2.4 21	14	. 25	. 140		96	1.1	1.4		. 29	3.7	
	AUG 14	. 3	3.7 22	29	.43 <	.030		-	.72	1.2		28	3.0	
	SEP 29	. 2	2.4 27	5	. 13	.310		42	•73	. 8	16 .	. 09	.1	
DATE	TIME	NITE GEN, N + ORC TOT I BOT M (MG/ AS N	HH4 INOR- G. GANIC IN TOT IN HAT BOT MA 'KG (G/KC	INOR ORGA TOT. T BOT G (G/	G + AL NIC IN IN D MAT SOI KG (U	UM- UM, IS- LVED G/L AL)	ARSEN TOTA (UG/) AS AS	IC TO L 1	RSENIC FOTAL N BOT- DM MA- FERIAL (UG/G AS AS)	BERYI LIUM, TOTAI RECOV ERABI (UG/L AS BE	BORG TOTA - RECG E ERAI	AL 1 OV- H BLE H /L (ADMIUM FOTAL RECOV- ERABLE (UG/L AS CD)	CADMIUM RECOV. FM BOT- TOM MA- TERIAL (UG/G AS CD)
OCT														
11 SEP	1000			-		40		1			0	30	0	
29	1015	1550	1.	0	9.2				0	. A.	- 12	44		<10

01443500 PAULINS KILL AT BLAIRSTOWN, NJ--Continued

	CHRO- MIUM, TOTAL RECOV- ERABLE (UG/L	CHRO- MIUM, RECOV. FM BOT- TOM MA- TERIAL	COBALT, RECOV. FM BOT- TOM MA- TERIAL (UG/G	COPPER, TOTAL RECOV- ERABLE (UG/L	COPPER, RECOV. FM BOT- TOM MA- TERIAL (UG/G	IRON, TOTAL RECOV- ERABLE (UG/L	IRON, RECOV. FM BOT- TOM MA- TERIAL (UG/G	LEAD, TOTAL RECOV- ERABLE (UG/L	LEAD, RECOV. FM BOT- TOM MA- TERIAL (UG/G	MANGA - NESE, TOTAL RECOV - ERABLE (UG/L	MANGA- NESE, RECOV. FM BOT- TOM MA- TERIAL
DATE	AS CR)	(UG/G)	AS CO)	AS CU)	AS CU)	AS FE)	AS FE)	AS PB)	AS PB)	AS MN)	(UG/G)
OCT 11 SEP 29	10	 <10	 <10	4	<10	310	 3700	1	 20	30	 250
DATE	MERCURY TOTAL RECOV- ERABLE (UG/L AS HG)	MERCURY RECOV. FM BOT- TOM MA- TERIAL (UG/G AS HG)	NICKEL, TOTAL RECOV- ERABLE (UG/L AS NI)	NICKEL, RECOV. FM BOT- TOM MA- TERIAL (UG/G AS NI)	SELE- NIUM, TOTAL (UG/L AS SE)	SELE- NIUM, TOTAL IN BOT- TOM MA- TERIAL (UG/G)	ZINC, TOTAL RECOV- ERABLE (UG/L AS ZN)	ZINC, RECOV. FM BOT- TOM MA- TERIAL (UG/G AS ZN)	PHENOLS (UG/L)	PCB, TOTAL IN BOT- TOM MA- TERIAL (UG/KG)	PCN, TOTAL IN BOT- TOM MA- TERIAL (UG/KG)
OCT 11 SEP 29	.2		3	 <10	0	0	10	 36	0	 0	
DATE	ALDRIN, TOTAL IN BOT- TOM MA- TERIAL (UG/KG)	CHLOR-DANE, TOTAL IN BOT- TOM MA- TERIAL (UG/KG)	DDD, TOTAL IN BOT- TOM MA- TERIAL (UG/KG)	DDE, TOTAL IN BOT- TOM MA- TERIAL (UG/KG)	DDT, TOTAL IN BOT- TOM MA- TERIAL (UG/KG)	DI- AZINON, TOTAL IN BOT- TOM MA- TERIAL (UG/KG)	DI- ELDRIN, TOTAL IN BOT- TOM MA- TERIAL (UG/KG)	ENDO- SULFAN, TOTAL IN BOT- TOM MA- TERIAL (UG/KG)	ENDRIN, TOTAL IN BOT- TOM MA- TERIAL (UG/KG)	ETHION, TOTAL IN BOT- TOM MA- TERIAL (UG/KG)	HEPTA- CHLOR, TOTAL IN BOT- TOM MA- TERIAL (UG/KG)
OCT 11 SEP 29	.0	0	.0	.0			.0	.0	.0	.0	.0
DATE	HEPTA- CHLOR EPOXIDE TOT. IN BOTTOM MATL. (UG/KG)	LINDANE TOTAL IN BOT- TOM MA- TERIAL (UG/KG)	MALA- THION, TOTAL IN BOT- TOM MA- TERIAL (UG/KG)	METH- OXY- CHLOR, TOT. IN BOTTOM MATL. (UG/KG)	METHYL PARA- THION, TOT. IN BOTTOM MATL. (UG/KG)	METHYL TRI- THION, TOT. IN BOTTOM MATL. (UG/KG)	MIREX, TOTAL IN BOT- TOM MA- TERIAL (UG/KG)	PARA- THION, TOTAL IN BOT- TOM MA- TERIAL (UG/KG)	PER- THANE IN BOTTOM MATERIL (UG/KG)	TO XA- PHENE, TOTAL IN BOT- TOM MA- TERIAL (UG/KG)	TRI- THION, TOTAL IN BOT- TOM MA- TERIAL (UG/KG)
OCT 11 SEP			1-1-								
29	. 0	. 0	. 0	. 0	. 0	. 0	. 0	. 0	.0	. 0	. 0

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DELAWARE RIVER BASIN

01443900 YARDS CREEK NEAR BLAIRSTOWN, NJ

LOCATION.--Lat 40°58'51", long 75°02'25", Warren County, Hydrologic Unit 02040105, on left bank 100 ft (30 m) upstream from bridge on Hainesburg-Mount Vernon Road, 2.2 mi (3.5 km) northeast of Hainesburg, 2.4 mi (3.9 km) upstream from mouth, and 4.2 mi (6.8 km) west of Blairstown.

DRAINAGE AREA .-- 7.16 mi2 (18.54 km2).

CAL YR 1979 TOTAL 6087.84 WTR YR 1980 TOTAL 3403.28 MEAN 16.7

MEAN 9.30

MAX 170

MAX 121

WATER-DISCHARGE RECORDS

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

REVISED RECORDS. -- WDR-NJ-77-2: 1976. WDR-NJ-79-2: 1977 (m).

GAGE.--Water-stage recorder and concrete control. Altitude of gage is 608 ft (185 m), from topographic map.

REMARKS.--Water-discharge records fair except those after May 13, which are poor. Complete regulation by the Jersey Central Power and Light Co., at Yards Creek Reservoir above station.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

AVERAGE DISCHARGE .-- 14 years, 11.3 ft3/s (0.320 m3/s).

EXTREMES FOR PERIOD OF RECORD. -- Maximum discharge, 583 ft³/s (16.5 m³/s), Feb. 24, 1977, gage height, 3.92 ft (1.195 m); no flow Sept. 12, 1971.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 128 ft³/s (3.62 m³/s) Mar. 24, gage height, 3.04 ft (0.927 m); minimum daily, 0.49 ft³/s (.014 m³/s) Aug. 25.

			******			MEAN VA	LUES					
DAY	ост	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1 2 3 4 5	4.3 2.8 11 15 27	9.8 10 17 12	15 14 12 12 12	13 12 12 12 13	5.3 5.6 3.3 3.0 4.1	6.0 5.0 6.3 5.3	25 40 30 22 20	16 15 15 13	1.7 1.3 3.2 1.5 1.1	.73 .74 .80 .81	.71 .73 1.2 .70 .71	.52 .52 .62 .54
6 7 8 9	24 19 15 62 116	12 12 12 12 12	12 12 11 10 10	12 11 11 12 8.8	.88 5.4 7.0 3.9 3.5	3.7 1.8 2.0 1.9	18 18 18 22 23	13 14 16 21 21	1.0 1.1 1.1 .98 1.2	1.4 .67 .73 .75	.71 .66 .60 .64	.64 .58 .51 .54
11 12 13 14 15	68 15 14 13 9.8	13 12 12 12 12	12 11 13 13 16	6.4 7.6 5.4 4.8	3.2 3.4 3.3 3.4 3.8	2.3 1.8 1.6 2.8 2.2	22 20 19 20 27	20 26 49 39	1.1 .97 .94 .94	.82 1.3 .82 .69	.55 .57 .60 .53	.50 .55 .61 .61
16 17 18 19 20	2.9 2.6 2.5 2.4 2.5	12 12 11 11 12	12 11 12 12 12	4.8 4.9 5.0 5.1 4.7	3.9 3.5 3.5 3.5 3.7	1.9 2.9 12 6.8 5.2	35 36 36 35 33	16 7.1 6.7 7.7 9.7	.79 .73 .74 .73 .79	.71 .87 .70 .68	.64 .59 .54 .78	.56 .58 .77 .61
21 22 23 24 25	3.6 2.7 12 14 11	12 12 10 11	12 12 11 12 15	4.4 4.5 4.3 4.6 5.6	4.2 4.2 4.5 4.5 4.0	20 40 22 69 121	32 30 21 21 20	12 11 9.3 8.7 2.8	.74 .66 .61 .68	.60 .63 1.5 .70 .67	.84 .64 .63 .57	.62 .55 .56 .58
26 27 28 29 30 31	11 11 11 9.2 10	21 18 14 13 13	12 12 13 12 12 12	5.4 4.9 4.6 5.4 6.6	3.6 4.6 4.2 4.5	86 21 20 23 20 20	13 14 21 20 17	1.3 1.2 1.3 1.4 1.5	.71 .71 .71 .72 .92	1. 4 1. 4 1. 1 1. 3 .86	.51 .55 .55 .54 .56	.64 .63 .62 .58 .58
TOTAL MEAN MAX MIN	535.3 17.3 116 2.4	376.8 12.6 21 9.8	379 12.2 16 10	224.6 7.25 13 4.0	115.48 3.98 7.0 .88	539.5 17.4 121 1.5	728 24.3 40 13	409.5 13.2 49 1.2	29.96 1.00 3.2 .61	27.47 .89 1.5 .60	20.12 .65 1.2 .49	17.55 .59 .77 .50

.77

01444100 PAULINS KILL AT MOUTH AT COLUMBIA, NJ

LOCATION.--Lat 40°55'14", long 75°05'18", Warren County, Hydrologic Unit 02040206, at bridge on U.S. Route 46 in Columbia, 2.3 mi (3.7 km) southwest of Polkville, and 3.2 mi (5.2 km) southeast of Knowlton.

DRAINAGE AREA . -- 177 mi2 (458 km2).

WATER-QUALITY RECORDS

PERIOD OF RECORD. -- Water years 1976 to current year.

COOPERATION.--Field data 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 water-phase nutrients were performed by the New Jersey Department of Health, Division of Laboratories and Epidemiology.

WATER QUALITY DATA, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

DATE	TIME TA	TREAM- CO TLOW, DU ISTAN- AN		PH IELD	EMPER- ATURE, WATER DEG C)	OXYGEN, DIS- SOLVED (MG/L)	OXYG DEMA BIOC UNIN 5 D (MG/	ND, FO HEM FI HIB I AY BI	EC T ROTH	STREP- OCOCCI FECAL (MPN)	HARD- NESS (MG/L AS CACO3)
OCT 11	1200	530			9.0	11.3	<	1.0	490	180	94
MAR 05 APR	1100		390	8.5	.5	14.5			<20	4	140
22 JUN	1100	530	299	7.0	12.5	11.0		1.8	140	33	110
02 JUL	1300		355	7.6	20.0	8.2		1.4	330	23	150
14 AUG	1315		385	7.9	23.0	8.2	E	1.9	40	8	140
14 SEP	1230		370	8.4	23.0	8.0		. 9	130	12	160
29	1200		455	7.6	15.0	10.0		<.1	70	33	190
DATE	CALCIUM DIS- SOLVED (MG/L AS CA)	DIS- SOLVED (MG/L	SODIUM, DIS- SOLVED (MG/L AS NA)	POTAS SIUM DIS- SOLVE (MG/L AS K)	D (MG.	TY SULF /L TOT (MC	IDE IAL I/L	SULFATE DIS- SOLVED (MG/L AS SO4)	CHLO- RIDE, DIS- SOLVE (MG/L AS CL	(MG/	ED L
OCT	24	8.2	0.0		2	64	.0	18	16		
11 MAR			9.9								. 1
05 A PR		14	16	1.		120		26	29		. 1
22 JUN		11	11	1.		91		19	17		. 1
JUL JUL		13.	13	1.		130	.0	23	21		. 1
14 AUG		14	14	1.		120		18	24		. 1
14 SEP		16	14	1.		140		20	27		. 1
29	45	20	1.9	1.	9	160	. 0	24	37		. 1
DATE	SILICA, DIS- SOLVED (MG/L AS SIO2)	AT 180	NITRO- GEN, NO2+NO3 TOTAL (MG/L AS N)	GEN,	A ORGAL TOTA	NÍC ORGA AL TOT /L (MO	AM- IA + INIC IAL G/L	NITRO- GEN, TOTAL (MG/L AS N)	PHOS- PHORUS ORTHOP OSPHAT TOTAL (MG/L AS PO4	H CARBO E ORGAN TOTA (MG/	IĆ L L
ост											
11			<1.0	. 50		. 40	. 90		.1		. 6
05 A PR			1.1	. 12		. 30	. 42	1.5	<.0		. 8
22 JUN			• 55	. 15		. 12	. 27	. 82	.0		. 1
JUL			• 75	. 15		. 45	.60	1.4	. 2		. 3
14 AUG		210	. 44	. 16	0	. 60	.76	1.2	. 1		. 5
14 SEP	3.4	231	. 46	. 12	0	. 54	.66	1.1	. 2	4 1	. 6"
29	2.1	264	. 13	. 16	0	. 60	.76	. 89	. 1	5 3	. 1

DELAWARE RIVER BASIN

01444100 PAULINS KILL AT MOUTH AT COLUMBIA, NJ--Continued WATER QUALITY DATA, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

DATE	TIME	ALUM- INUM, DIS- SOLVED (UG/L AS AL)	ARSENIC TOTAL (UG/L AS AS)	BERYL- LIUM, TOTAL RECOV- ERABLE (UG/L AS BE)	BORON, TOTAL RECOV- ERABLE (UG/L AS B)	CADMIUM TOTAL RECOV- ERABLE (UG/L AS CD)	CHRO- MIUM, TOTAL RECOV- ERABLE (UG/L AS CR)	COPPER, TOTAL RECOV- ERABLE (UG/L AS CU)
OCT 11 JUN	1200	50	1	0	30	0	10	4
02	1300	10	1	0	40	0	<10	2
SEP 29	1200	30	1	0	. 30	0	10	1
DATE	IRON, TOTAL RECOV- ERABLE (UG/L AS FE)	LEAD, TOTAL RECOV- ERABLE (UG/L AS PB)	MANGA- NESE, TOTAL RECOV- ERABLE (UG/L AS MN)	MERCURY TOTAL RECOV- ERABLE (UG/L AS HG)	NICKEL, TOTAL RECOV- ERABLE (UG/L AS NI)	SELE- NIUM, TOTAL (UG/L AS SE)	ZINC, TOTAL RECOV- ERABLE (UG/L AS ZN)	PHENOLS (UG/L)
OCT 11 JUN	280	2	40	.2	10	0	20	0
02 SEP	200	30	70	. 4	3	0	10	2
29	180	0	40	.1	1	0	10	1

LOCATION.--Lat 40°49'44", long 75°05'06", Warren County, NJ, Hydrologic Unit 02040104, at bridge at Belvidere, 200 ft (61 m) upstream from Pequest River, and 4.1 mi (6.5 km) southwest of Buttzville.

DRAINAGE AREA. -- 4,380 mi2 (11,344 km2).

WATER-QUALITY RECORDS

PERIOD OF RECORD. -- Water years 1964, 1976 to current year.

COOPERATION.--Field data 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 water-phase nutrients were performed by the New Jersey Department of Health, Division of Laboratories and Epidemiology.

OCT 16 1130 E8160 9.0 11.0 1.0 MAR 25 1200 E25200 65 3.0 12.4 1.3 JUN 02 1215 E2860 119 7.5 21.0 8.8 1.5 JUL 14 1145 E2500 102 8.1 25.0 8.1 3.1 AUG 18 1130 E2100 98 7.9 24.0 7.8 5.4 SEP		34 170 15 23 6 14
25 1200 E25200 65 3.0 12.4 1.3 JUN 02 1215 E2860 119 7.5 21.0 8.8 1.5 JUL 14 1145 E2500 102 8.1 25.0 8.1 3.1 AUG 18 1130 E2100 98 7.9 24.0 7.8 5.4 SEP	<20 50 50 20 CHLO- FLL	15 23 6
O2 1215 E2860 119 7.5 21.0 8.8 1.5 JUL 14 1145 E2500 102 8.1 25.0 8.1 3.1 AUG 18 1130 E2100 98 7.9 24.0 7.8 5.4 SEP	50 50 20 CHLO- FLI	23 6
14 1145 E2500 102 8.1 25.0 8.1 3.1 AUG 18 1130 E2100 98 7.9 24.0 7.8 5.4 SEP	50 20 CHLO- FLI	6
18 1130 E2100 98 7.9 24.0 7.8 5.4 SEP	20 CHLO- FLI	
	CHLO- FL	14
29 1245 E1980 108 18.0 9.4 <.4		
HARD- CALCIUM SIUM, SODIUM, SIUM, ALKA- SULFATE R NESS DIS- DIS- DIS- LINITY DIS- D (MG/L SOLVED SOLVED SOLVED (MG/L SOLVED S) AS (MG/L (MG/L (MG/L (MG/L AS (MG/L (DIS- DI SOLVED SOI (MG/L (MG	UO- DE, IS- LVED G/L F)
OCT		
16 31. 9.1 2.0 4.0 .7 16 11 MAR	5.1	. 1
25 20 5.8 1.4 3.1 .9 9.3 JUN	5.0	.0
02 32 8.9 2.4 6.0 .8 26 15 JUL	7.7	. 1
14 34 9.9 2.2 5.5 1.3 28 12 AUG	7.7	. 1
18 34 10 2.1 5.3 1.0 20 13 SEP	7.1	. 1
29 33 9.8 2.0 5.1 1.0 20 12	6.8	.1
SILICA, RESIDUÉ NITRO- NITRO- GEN, AM- PH DIS- AT 180 GEN, GEN, GEN, MONIA + NITRO- OR SOLVED DEG. C NO2+NO3 AMMONIA ORGANIC ORGANIC GEN, OS (MG/L DIS- TOTAL TOTAL TOTAL TOTAL TOTAL T AS SOLVED (MG/L (MG/	OTAL TO	BON, ANIC TAL G/L C)
OCT 16 3.7 55 <1.0 .300 .60 .90	.06	2.6
MAR 25 3.0 44 .43 .130 1.5 1.6 2.0	<.01	4.3
JUN		
02 1.1 77 .22 .130 .49 .62 .84 JUL	. 60	3.7
14 1.2 70 .12 .130 .63 .76 .88 AUG	.09	3.6
18 1.6 60 .15 .030 .43 .46 .61 SEP	. 18	1.6
29 1.0 57 .18 .130 .51 .64 .82	.09	3.2

01445430 PEQUEST RIVER AT TOWNSBURY, NJ

LOCATION.--Lat 40°51'06", long 74°56'02", Warren County, Hydrologic Unit 02040105, on left upstream abutment of highway bridge in Townsbury and 2.1 mi (3.4 km) upstream from Furnace Brook.

DRAINAGE AREA .-- 92.5 mi2 (239.6 km2).

WATER-DISCHARGE RECORDS

PERIOD OF RECORD. -- June 1977 to September 1980 (discontinued).

GAGE.--Water-stage recorder. Altitude of gage is 480 ft (146 m), from topographic map.

REMARKS .-- Water-discharge records good. No gage-height record Dec. 24 to Jan. 23 and Feb. 1 to Mar. 17.

EXTREMES FOR PERIOD OF RECORD. --Maximum discharge, 2,170 ft 3 /s (61.5 m 3 /s) Jan. 25, 1979, gage height, 5.30 ft (1.615 m) from floodmark; minimum, 8.3 ft 3 /s (0.24 m 3 /s) Sept. 13, 14, 1980, gage height, 1.07 ft (0.326 m).

EXTREMES FOR CURRENT YEAR. -- Peak discharges above base of 600 ft3/s (16.99 m3/s) and maximum (*):

Date		Time	Discha (ft ³ /s)	arge (m³/s)	Gage h	eight (m)	Date		Time	Discha (ft ³ /s)		Gage h	eight (m)
Oct. Mar.	6	0145 1130	870 772	24.6	3.50 3.33	1.067	Apr.	10 29	0545 1715	629 676	17.8 19.1	3.09	0.942
Mar.	21	2145	*1210	34.3	4.01	1.222	Apr.	29	1115	010	19.1	3.11	0.900

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

Minimum discharge, 8.3 ft3/s (0.24 m3/s) Sept. 13, 14, gage height, 1.07 ft (0.326 m).

						MEAN VAL	UES			7000		
DAY	OCT	NO V	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1 2 3 4 5	137 222 197 211 268	88 84 313 301 215	160 146 134 126 121	124 118 112 102 98	57 60 60 62 63	60 56 54 54 54	508 460 382 470 462	487 351 288 248 219	86 83 110 131 99	40 35 34 34 32	23 28 36 27 23	9.2 8.8 9.5 9.9
6 7 8 9	607 293 232 189 228	177 160 147 138 166	114 104 100 104 90	93 90 88 84 87	63 62 62 61 60	56 60 72 82 80	407 339 300 409 584	207 197 188 172 155	80 76 73 71 90	91 49 40 37 33	23 22 20 20 19	14 14 13 11 9.9
11 12 13 14 15	280 241 217 182 162	193 217 187 171 155	86 88 97 254 261	130 260 230 175 148	59 61 58 59 58	99 90 72 58 88	486 408 346 359 448	145 188 275 228 176	79 71 62 57 53	31 33 32 29 26	18 19 18 17	9.1 8.8 8.6 8.7 9.2
16 17 18 19 20	147 134 126 119 114	143 132 125 119 117	188 159 152 139 135	134 129 121 137 132	56 55 58 60 62	74 255 621 443 300	390 325 282 254 234	147 133 124 119 112	50 46 46 49 44	25 28 26 24 23	19 17 16 16	9.3 9.4 17 17
21 22 23 24 25	110 107 101 103 101	111 109 107 99 91	124 123 128 185 260	120 109 102 93 94	64 70 77 87 89	590 934 710 584 648	215 198 183 170 162	124 129 111 97 90	41 38 37 37 36	23 23 31 33 28	17 15 15 15 15	13 13 12 11
26 27 28 29 30 31	95 90 96 110 101 93	220 397 254 201 189	228 200 180 162 145 134	92 83 79 74 70 62	87 76 68 64	519 423 355 386 394 402	155 158 334 577 588	80 74 68 65 62 69	34 30 30 30 49	25 24 22 24 30 26	14 12 11 9.8 9.8 9.7	12 11 11 11 12
TOTAL MEAN MAX MIN CFSM IN.	5413 175 607 90 1.89 2.18	5126 171 397 84 1.85 2.06	4627 149 261 86 1.61 1.86	3570 115 260 62 1.24 1.44	1878 64.8 89 55 .70	8673 280 934 54 3.03 3.49	10593 353 588 155 3.82 4.26	5128 165 487 62 1.78 2.06	1818 60.6 131 30 .66	991 32.0 91 22 .35 .40	558.3 18.0 36 9.7 .20	339.4 11.3 17 8.6 .12 .14
CAL YR WTR YR	1979 TOTAL 1980 TOTAL			199 MAX 133 MAX	1900 934	MIN 26 MIN 8.6	CFSM CFSM	2.15 IN 1.44 IN	29.20 19.59			

01445500 PEQUEST RIVER AT PEQUEST, NJ

LOCATION.--Lat 40°49'43", long 74°58'45", Warren County, Hydrologic Unit 02040105, on right bank at Pequest, 100 ft (30 m) upstream from Lehigh and Hudson River Railway bridge, and 300 ft (91 m) downstream from Furnace Brook. DRAINAGE AREA .-- 108 mi2 (280 km2).

WATER-DISCHARGE RECORDS

PERIOD OF RECORD. --October 1921 to current year. Monthly discharge only for October 1921, published in WSP 1302. REVISED RECORDS. -- WSP 1902: 1940(M), 1945, 1955(M), 1957, 1959(M).

GAGE.--Water-stage recorder. Concrete control since Sept. 29, 1929. Datum of gage is 398.78 ft (121.548 m) National Geodetic Vertical Datum of 1929. Prior to June 22, 1926, nonrecording gage at site 10 ft (3 m) upstream at same

DISCHARGE. IN CUBIC FEET PER SECOND. WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

REMARKS. -- Water-discharge records fair.

AVERAGE DISCHARGE. -- 59 years, 154 ft3/s (4.361 m3/s), 19.36 in/yr (492 mm/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 2,130 ft 3 /s (60.3 m 3 /s) Jan. 25, 1979, gage height, 5.97 ft (1.820 m) from floodmark; minimum, 12 ft 3 /s (0.34 m 3 /s) Aug. 17-22, Dec. 10, 1965.

EXTREMES FOR CURRENT YEAR .-- Peak discharges above base of 650 ft3/s (18.4 m3/s) and maximum (*):

			Disch	arge	Gage	height
Date		Time	(ft^3/s)	(m^3/s)	(ft)	(m)
Oct.	6	0200	763	21.6	3.42	1.042
Mar.	21	2300	*1060	30.0	4.04	1.231

Minimum discharge, 25 ft3/s (0.71 m3/s) Sept. 2, 3, 11, 13, 14, 15.

		DISCH	ARGE, IN	CUBIC F	EET PER	SECOND, W MEAN	ATER YEAR VALUES	OCTOBER 1979	TO SEP	TEMBER 1980		
DAY	OCT	NO V	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1 2 3 4 5	158 248 224 237 292	121 119 316 315 246	197 177 165 165 163	157 153 147 136 130	74 86 77 81 81	79 66 73	430 372 451	444 359 313 282 257	126 120 145 173 135	64 59 59 58 57	47 50 60 49 45	27 26 26 29 30
6 7 8 9	565 326 272 232 273	212 196 184 177 207	163 210 193 172 160	121 117 116 111 115	81 82 79 79 77	76 84 110	338 311 401	245 236 230 216 200	112 105 101 97 119	117 75 64 60 56	45 42 41 40 37	30 29 28 27 27
11 12 13 14 15	314 281 258 223 203	228 249 223 209 193	154 149 180 228 190	143 301 233 187 182	76 79 74 76 75	113 95 70	396 355 369	190 235 326 279 228	107 97 88 83 78	55 62 59 55 50	36 46 40 37 38	26 26 26 25 26
16 17 18 19 20	187 174 166 157 148	181 170 162 155 153	173 187 144 138 129	170 159 155 180 175	73 70 76 79 79	123 555 383	339 307 285	198 181 171 167 161	74 71 70 72 69	48 51 49 46 45	39 35 34 34 35	26 26 34 36 30
21 22 23 24 25	142 140 134 139 137	149 145 143 136 127	146 158 160 196 315	152 137 134 124 113	85 88 96 111 120	849 623 508	236 223 211	176 181 158 142 131	65 62 59 60 59	42 43 54 56 50	35 34 33 31 31	29 28 27 26 26
26 27 28 29 30 31	129 122 130 149 137 127	239 365 271 228 207	291 245 220 199 179 168	111 105 104 98 83 81	99 92 80	395 348	199 333 502 510	118 108 100 96 92 100	57 55 53 52 72	46 44 42 45 51 48	30 30 29 29 29 29	27 27 26 26 26
TOTAL MEAN MAX MIN CFSM IN.	6424 207 565 122 1.92 2.21	6026 201 365 119 1.86 2.08	5714 184 315 129 1.70 1.97	4430 143 301 81 1.32 1.53	2437 84.0 120 70 .78 .84	849	353 537 196 3.27	6320 204 444 92 1.89 2.18	2636 87.9 173 52 .81	1710 55.2 117 42 .51	1169 37.7 60 28 .35	828 27.6 36 25 .26 .29
CAL YR WTR YR	1979 TOTAL 1980 TOTAL		MEAN 23 MEAN 15		2040 849	MIN 43 MIN 25	CFSM 2.21 CFSM 1.43	IN 30.03 IN 19.46				

01446000 BEAVER BROOK NEAR BELVIDERE, NJ

LOCATION.--Lat 40°50'40", long 75°02'48", Warren County, Hydrologic Unit 02040105, 2,000 ft (610 m) upstream from mouth, and 2.0 mi (3.2 km) east of Belvidere.

DRAINAGE AREA. -- 36.2 mi2 (93.8 km2).

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 1923-25, 1958, 1976 to current year.

COOPERATION.--Field data 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 water-phase nutrients were performed by the New Jersey Department of Health, Division of Laboratories and Epidemiology.

WATER QUALITY DATA, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

DATE	F IN TIME TA	REAM- CO LOW, DU STAN- AN NEOUS (MI		PH A	EMPER- ATURE, VATER DEG C)	SO	GEN, IS- LVED G/L)	DEN BIG UNI	GEN MAND, OCHEM INHIB DAY G/L)	FO FE E BR	LI- RM, CAL, C OTH PN)	TOC	REP- OCCI CAL PN)	HARI NES (MG AS CAC	S /L
OCT O3 MAR	1130	76	320	7.9	17.0		9.0		2.0		2200	>	2400		140
05	0945		420	8.2	2.0		13.6				20		8		190
A PR 22	0945	71	390	7.9	12.5		11.4		1.0		50		13		160
JUN 05	1230	27	374	8.6	18.5	100	11.4		1.4		700		110		180
JUL 14	1040	7.9	430	8.4	18.0		10.5		<1.2		1300		33		190
AUG 18	1020	2.9	425	7.7	17.5		9.5		8.6		330		920		230
SEP 29	1020	1.2	425	8.0	11.0		10.2		<1.3		1700		170	1778	220
DATE	CALCIUM DIS- SOLVED (MG/L AS CA)	MAGNE- SIUM, DIS- SOLVED (MG/L AS MG)	SODIUM, DIS- SOLVED (MG/L AS NA)	POTAS- SIUM, DIS- SOLVEI (MG/L AS K)	ALK LINI	TY /L	SULF: TOT: (MG: AS:	AL /L	SULFA DIS- SOLV (MG/ AS SO	/ED	(MG	E, VED	FLUC RIDE DIS SOLV (MG/ AS F	E, S- /ED /L	
OCT 03	36	13	7.2	2.0	,	120		.0	25			3		.1	
MAR 05		19	8.3	1.2		160			36			5		. 1	
APR									21			2			
22 JUN		16	7.9	1.0		140			170					.1	
JUL		18	7.5	1.0		150		.2	25			0		•1	
AUG		19	7.6	1.2		170			30			3		.1	
18 SEP		23	7.3	1.1		180			33			4		.1	
29	. 52	22	6.6	1.3	3	180			32	2		3		.1	
DATE	SILICA, DIS- SOLVED (MG/L AS SIO2)	SOLIDS, RESIDUE AT 180 DEG. C DIS- SOLVED (MG/L)	NITRO- GEN, NO2+NO3 TOTAL (MG/L AS N)	NITRO- GEN, AMMONIA TOTAL (MG/L AS N)	GE	NIC AL /L	NITR GEN, MONI. ORGA TOT. (MG	AM- A + NIC AL /L	NITE GEN TOTA (MG/ AS N	N, AL /L	PHOF ORTH OSPH TOT (MC AS F	US, OPH IATE 'AL	CARBO ORGAN TOTA (MG/ AS (NIĆ L L	
OCT	7.6	105		lio		25		75				16		3.9	
03 MAR			<1.0	. 400		. 35		.75	4	7		. 16	-	1.2	
O5 APR			1.4	. 120		.21		• 33		. 7		.01			
JUN 22			.90	. 200		.02		. 22		. 1	•	.03		5.8	
JUL			.96	. 180		. 46		. 64		. 6		.04		2.8	
AUG			.23	. 120		. 23		. 35		. 58		. 17		2.8	
18 SEP			1.4	. 090		. 20		. 29		7		.06		. 8	
29	5.1	250	1.0	. 310	0	. 08		. 39	1.	. 4		.09	-	1.7	

01446000 BEAVER BROOK NEAR BELVIDERE, NJ--Continued

		WAIEN	QUALITI	DAIA, WAI	ER IEAR C	CIOBER 19	19 10 SER	TEMBER 19	100		
DATE	TIME	NITRO- GEN, NH4 + ORG. TOT IN BOT MAT (MG/KG AS N)	CARBON, INOR- GANIC, TOT IN BOT MAT (G/KG AS C)	CARBON, INORG + ORGANIC TOT. IN BOT MAT (G/KG AS C)	ALUM- INUM, DIS- SOLVED (UG/L AS AL)	ARSENIC TOTAL (UG/L AS AS)	ARSENIC TOTAL IN BOT- TOM MA- TERIAL (UG/G AS AS)	BERYL- LIUM, TOTAL RECOV- ERABLE (UG/L AS BE)	BORON, TOTAL RECOV- ERABLE (UG/L AS B)	CADMIUM TOTAL RECOV- ERABLE (UG/L AS CD)	CADMIUM RECOV. FM BOT- TOM MA- TERIAL (UG/G AS CD)
OCT 03	1130	100	-	- 22	30	1		0	20	0	
JUN					- 75						
05 SEP	1230				0	1		0	40	0	
29	1020	2190	2.1	13			0				<10
DATE	CHRO-MIUM, TOTAL RECOV- ERABLE (UG/L AS CR)	CHRO-MIUM, RECOV. FM BOT- TOM MA- TERIAL (UG/G)	COBALT, RECOV. FM BOT- TOM MA- TERIAL (UG/G AS CO)	COPPER, TOTAL RECOV- ERABLE (UG/L AS CU)	COPPER, RECOV. FM BOT- TOM MA- TERIAL (UG/G AS CU)	IRON, TOTAL RECOV- ERABLE (UG/L AS FE)	IRON, RECOV. FM BOT- TOM MA- TERIAL (UG/G AS FE)	LEAD, TOTAL RECOV- ERABLE (UG/L AS PB)	LEAD, RECOV. FM BOT- TOM MA- TERIAL (UG/G AS PB)	MANGA- NESE, TOTAL RECOV- ERABLE (UG/L AS MN)	MANGA- NESE, RECOV. FM BOT- TOM MA- TERIAL (UG/G)
OCT											
03	20			0		450		2		40	
05 SEP	<10		74	2		410		4		50	
29		<10	<10		<10		4000		10		330
DATE	MERCURY TOTAL RECOV- ERABLE (UG/L AS HG)	MERCURY RECOV. FM BOT- TOM MA- TERIAL (UG/G AS HG)	NICKEL, TOTAL RECOV- ERABLE (UG/L AS NI)	NICKEL, RECOV. FM BOT- TOM MA- TERIAL (UG/G AS NI)	SELE- NIUM, TOTAL (UG/L AS SE)	SELE- NIUM, TOTAL IN BOT- TOM MA- TERIAL (UG/G)	ZINC, TOTAL RECOV- ERABLE (UG/L AS ZN)	ZINC, RECOV. FM BOT- TOM MA- TERIAL (UG/G AS ZN)	PHENOLS (UG/L)	PCB, TOTAL IN BOT- TOM MA- TERIAL (UG/KG)	PCN, TOTAL IN BOT- TOM MA- TERIAL (UG/KG)
OCT 03	<.5		2		0		10	1	1		
JUN											
05 SEP	<.1		0		0		10		1		-
29		.00		<10		0		40		5	.0
DATE	ALDRIN, TOTAL IN BOT- TOM MA- TERIAL (UG/KG)	CHLOR-DANE, TOTAL IN BOT- TOM MA- TERIAL (UG/KG)	DDD, TOTAL IN BOT- TOM MA- TERIAL (UG/KG)	DDE, TOTAL IN BOT- TOM MA- TERIAL (UG/KG)	DDT, TOTAL IN BOT- TOM MA- TERIAL (UG/KG)	DI- AZINON, TOTAL IN BOT- TOM MA- TERIAL (UG/KG)	DI- ELDRIN, TOTAL IN BOT- TOM MA- TERIAL (UG/KG)	ENDO- SULFAN, TOTAL IN BOT- TOM MA- TERIAL (UG/KG)	ENDRIN, TOTAL IN BOT- TOM MA- TERIAL (UG/KG)	ETHION, TOTAL IN BOT- TOM MA- TERIAL (UG/KG)	HEPTA- CHLOR, TOTAL IN BOT- TOM MA- TERIAL (UG/KG)
OCT 03											
JUN 05					44						1
SEP 29	.0	0	.0	.0	.0	.0	.0	.0	.0	.0	.0
DATE	HEPTA- CHLOR EPOXIDE TOT. IN BOTTOM MATL. (UG/KG)	LINDANE TOTAL IN BOT- TOM MA- TERIAL (UG/KG)	MALA- THION, TOTAL IN BOT- TOM MA- TERIAL (UG/KG)	METH- OXY- CHLOR, TOT. IN BOTTOM MATL. (UG/KG)	METHYL PARA- THION, TOT. IN BOTTOM MATL. (UG/KG)	METHYL TRI- THION, TOT. IN BOTTOM MATL. (UG/KG)	MIREX, TOTAL IN BOT- TOM MA- TERIAL (UG/KG)	PARA- THION, TOTAL IN BOT- TOM MA- TERIAL (UG/KG)	PER- THANE IN BOTTOM MATERIL (UG/KG)	TOXA- PHENE, TOTAL IN BOT- TOM MA- TERIAL (UG/KG)	TRI- THION, TOTAL IN BOT- TOM MA- TERIAL (UG/KG)
OCT 03						44	22		-		
JUN 05		22									
SEP 29	.0	.0	.0	.0	.0	.0	.0	.0	.00	0	.0
						. 0					

01446400 PEQUEST RIVER AT BELVIDERE, NJ

LOCATION.--Lat 40°49'45", long 75°04'44", Warren County, Hydrologic Unit 02040105, at last highway bridge before mouth in Belvidere, and 0.3 mi (0.4 km) upstream from mouth.

DRAINAGE AREA .-- 158 mi2 (409 km2).

WATER-QUALITY RECORDS

PERIOD OF RECORD. -- Water years 1957, 1962, 1976 to current year.

COOPERATION.--Field data 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 water-phase nutrients were performed by the New Jersey Department of Health, Division of Laboratories and Epidemiology.

WATER QUALITY DATA, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

DATE	TIME TA	TREAM- C FLOW, I NSTAN- A ANEOUS (I		PH FIELD	TEMPER- ATURE, WATER (DEG C)	OXYGEN, DIS- SOLVED (MG/L)	OXYGEN DEMANI BIOCHE UNINHI 5 DAY (MG/L)	O, FO EM FI IB I	EC TO	TREP- COCCI ECAL	HARD- NESS (MG/L AS CACO3)
OCT 03	1300	319	350	8.1	17.0	9.4	2.	. 0	9200	>2400	160
MAR 12	0940	148	418	8.2		14.5	E1.	. 5	130	8	180
APR 22	1230	338	380	8.3	14.5	11.2		. 1	80	13	170
JUN 05	1130	184	400	8.5	17.0	10.4	2.		1100	350	180
JUL											
14 AUG	1130	76	440	8.1	18.5	10.2	<1.		490	540	200
18 SEP	1100	59	480	7.9	18.0	10.2	5.	. 8	3500	1600	220
29	1140	E38	480	8.3	12.5	12.5	<1.	. 0	1700	240	220
DATE	CALCIUM DIS- SOLVEI (MG/L AS CA)	DIS- SOLVEI (MG/L	, SODIUM DIS- D SOLVED (MG/L	DIS SOLV (MG/	M, ALK LINI ED (MG	TY SULF /L TOT (MG	IDE I	JLFATE DIS- SOLVED (MG/L S SO4)	CHLO- RIDE, DIS- SOLVED (MG/L AS CL)	(MG/L	D
OCT											
03 MAR	. 38	16	9.	0 2	. 1	130		30	15		1
12 APR	. 41	19	12	1	. 4	150		31	18		1
22 JUN	. 40	18	9.	7 1	. 2	150		23	16		1
05 JUL	. 42	19	10	1	. 1	160	. 2	25	11		1
14	. 45	21	9.	4 1	. 4	190		26	16	2.	1
AUG 18	. 50	24	14	1	.5	190		29	20		1
SEP 29	. 50	24	15	1	. 4	180	.3	29	22	Ser .	1
DATE	SILICA DIS- SOLVEI (MG/L AS SIO2)	AT 180	E NITRO GEN, C NO2+NO TOTAL D (MG/L	GEN 3 AMMON TOTA (MG/	GE IA ORGA L TOT L (MG	N, MONÍ NÍC ORGA AL TOT /L (MO	AM- IA + M INIC TAL T	NITRO- GEN, FOTAL (MG/L AS N)	PHOS- PHORUS, ORTHOPH OSPHATE TOTAL (MG/L AS PO4)	ORGANI TOTAL (MG/L	ć
OCT 03	. 7.	7 21	6 <1.0	.3	00	. 48	.78		. 36	9.	0
MAR 12	. 5.	0 23	6 1.3	.1	00	. 92	1.0	2.3	.21	5.	0
APR 22	. 4.	1 23	1 .9	0 .0	90	E	E. 62		.03	4.	1
JUN 05	. 7.	0 25	1 1.0	.1	60	. 43	.59	1.6	.07	4.	0
JUL 14	. 5.	4 26	7 .2	5 .1	20	. 48	.60	. 85	.08	3.	3
AUG											
18 SEP	. 7.	5 29	5 1.2	.0	30	. 58	.61	1.8	. 15	1.	8

DELAWARE RIVER BASIN

01446400 PEQUEST RIVER AT BELVIDERE, NJ--Continued

DATE	T IME	ALUM- INUM, DIS- SOLVED (UG/L AS AL)	ARSENIC TOTAL (UG/L AS AS)	BERYL- LIUM, TOTAL RECOV- ERABLE (UG/L AS BE)	BORON, TOTAL RECOV- ERABLE (UG/L AS B)	CADMIUM TOTAL RECOV- ERABLE (UG/L AS CD)	CHRO-MIUM, TOTAL RECOV- ERABLE (UG/L AS CR)	COPPER, TOTAL RECOV- ERABLE (UG/L AS CU)
JUN								
05 SEP	1130	10	2	0	50	0	<10	2
29	1140	10	1	0	0	0	20	2
DATE	IRON, TOTAL RECOV- ERABLE (UG/L AS FE)	LEAD, TOTAL RECOV- ERABLE (UG/L AS PB)	MANGA- NESE, TOTAL RECOV- ERABLE (UG/L AS MN)	MERCURY TOTAL RECOV- ERABLE (UG/L AS HG)	NICKEL, TOTAL RECOV- ERABLE (UG/L AS NI)	SELE- NIUM, TOTAL (UG/L AS SE)	ZINC, TOTAL RECOV- ERABLE (UG/L AS ZN)	PHENOLS (UG/L)
JUN 05	380	3	50	<.1	0	0	10	0
SEP 29	130	0	20	<.1	1	0	10	1

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 channel mile 197.7 (318.1 km).

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

CAL YR 1979 TOTAL WTR YR 1980 TOTAL

WATER-DISCHARGE RECORDS

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

REVISED 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) National Geodetic Vertical Datum of 1929. Prior to Jan. 1, 1929, nonrecording gage at site 200 ft (61 m) upstream at same datum.

REMARKS.--Water-discharge records good. 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. -- 58 years, 7,960 ft3/s (225.4 m3/s), unadjusted.

MAX 68300 MAX 60000

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 273,000 ft³/s (7,730 m³/s) Aug. 19, 1955, gage height, 30.21 ft (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).

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 78,000 ft³/s (2,210 m³/s) Mar. 22, gage height, 15.76 ft (4.804 m); minimum, 1,540 ft³/s (43.6 m³/s) Sept. 28, gage height 2.94 ft (0.896 m).

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

MEAN VALUES DAY OCT NOV DEC JUN JUL AUG SEP JAN FEB MAR APR MAY 3170 2320 2360 14400 5140 3020 2650 2580 2480 4740 31900 2480 1970 2330 TOTAL 3350 MEAN MAX MIN

01447000 DELAWARE RIVER AT NORTHAMPTON STREET AT EASTON, PA

LOCATION.--Lat 40°41'30", long 75°12'15", Northampton County, Hydrologic Unit 02040105, at bridge on Northampton Street in Easton, 600 ft (182 m) upstream from Lehigh River, and 0.2 mi (0.3 km) downstream from U.S. Route 22 toll bridge in Easton.

DRAINAGE AREA. -- 4,717 mi2 (12,217 km2).

WATER-QUALITY RECORDS

PERIOD OF RECORD. -- Water years 1976 to current year.

COOPERATION.--Field data 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 water-phase nutrients were performed by the New Jersey Department of Health, Division of Laboratories and Epidemiology.

WATER QUALITY DATA, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

DATE	TIME	SPE- CIFIC CON- DUCT- ANCE (MICRO- MHOS)	PH FIELD (UNITS)	TEMPER- ATURE, WATER (DEG C)	OXYGEN, DIS- SOLVED (MG/L)	OXYGEN DEMAND, BIOCHEM UNINHIB 5 DAY (MG/L)	COLI- FORM, FECAL, EC BROTH (MPN)	STREP- TOCOCCI FECAL (MPN)	HARD- NESS (MG/L AS CACO3)
OCT 17	0945			10.0	10.4	1.0	20	21	43
MAR 26	0945	82		3.5	12.4	1.6	130	23	27
JUN 03	0945	168	7.9	23.0	7.9	3.3	20	49	54
JUL 15	0945	152	7.7	26.0	7.9	5.0	330	70	54
AUG 19	0930		7.6	23.0	7.3	<.7	40	7	73
SEP 30	1015	117	7.4	19.0	10.0	E.3	<20	13	43
DATE	CALCIUM DIS- SOLVED (MG/L AS CA)	MAGNE- SIUM, DIS- SOLVED (MG/L AS MG)	SODIUM, DIS- SOLVED (MG/L AS NA)	POTAS- SIUM, DIS- SOLVED (MG/L AS K)	ALKA- LINITY (MG/L AS CACO3)	SULFIDE TOTAL (MG/L AS S)	SULFATE DIS- SOLVED (MG/L AS SO4)	CHLO- RIDE, DIS- SOLVED (MG/L AS CL)	FLUO- RIDE, DIS- SOLVED (MG/L AS F)
OCT 17	12	3.1	4.2	.8	21		15	5.9	.1
MAR 26	7.5	2.0	3.9	.9	16		11	5.5	. 1
JUN 03	14	4.5	7.8	.9	38	.0	21	8.6	. 1
JUL 15	15	4.1	6.1	1.2	42		18	9.3	.1
AUG 19	18	6.8	8.4	1.6	56		22	11	.1
SEP 30	12	3.1	6.2	1.1	29		14	7.9	.1
30	12	3.1	0.2	1.1	29		14	7.9	7
DATE	SILICA, DIS- SOLVED (MG/L AS SIO2)	SOLIDS, RESIDUE AT 180 DEG. C DIS- SOLVED (MG/L)	NITRO- GEN, NO2+NO3 TOTAL (MG/L AS N)	NITRO- GEN, AMMONIA TOTAL (MG/L AS N)	NITRO- GEN, ORGANIC TOTAL (MG/L AS N)	NITRO- GEN, AM- MONIA + ORGANIC TOTAL (MG/L AS N)	NITRO- GEN, TOTAL (MG/L AS N)	PHOS- PHORUS, ORTHOPH OSPHATE TOTAL (MG/L AS PO4)	CARBON, ORGANIC TOTAL (MG/L AS C)
OCT 17	4.0	75	<1.0	.200	. 34	.54	-	.08	5.0
MAR 26	3.4	58	.55	.210	1.3	1.5	2.0	. 14	4.6
JUN 03	1.5		.66	.210	. 34	.55	1.2	. 05	4.5
JUL 15	1.6	96	.56	.260	. 84	1.1	1.7	.03	2.6
AUG 19	4.7	119	.55	<.030		.63	1.2	. 12	.9
SEP 30	1.1	73	.43	.240	.59	.83	1.3	.06	7.4
		1,2		37.0					
	ATE	IN D SO IME (U	LVED TO G/L (U	LI TO ENIC RE TAL ER G/L (U	TAL TO COV- RE ABLE ER G/L (U	TAL TO COV- RE ABLE ER G/L (U	MIUM MI TAL TO COV- RE ABLE ER G/L (U	TAL TO COV- RE ABLE ER G/L (U	PER, TAL COV- ABLE G/L CU)
0 JU		945	20	1	0	30	0	<10	4

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DELAWARE RIVER BASIN

01447000 DELAWARE RIVER AT NORTHAMPTON STREET AT EASTON, PA--Continued
WATER QUALITY DATA, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

DATE	IRON, TOTAL RECOV- ERABLE (UG/L AS FE)	LEAD, TOTAL RECOV- ERABLE (UG/L AS PB)	NESE, TOTAL RECOV- ERABLE (UG/L AS MN)	MERCURY TOTAL RECOV- ERABLE (UG/L AS HG)	NICKEL, TOTAL RECOV- ERABLE (UG/L AS NI)	SELE- NIUM, TOTAL (UG/L AS SE)	ZINC, TOTAL RECOV- ERABLE (UG/L AS ZN)	PHENOLS (UG/L)
JUN 03	100	25	20	<.1	6	0	20	3

DENIENT NIVER DROIN

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 October 1, 1928, 1,229 mi² (3.183 km²).

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--September 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 October 1913.

REVISED RECORD.--WSP 261: 1903-05. 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) National Geodetic Vertical Datum of 1929. 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.--Water-discharge records good. Flow regulated by Wild Creek Reservoir (sta 01449790) since February 1971. Several observations of water temperature were made during the year.

AVERAGE DISCHARGE.--73 years (water years 1903-04, 1910-80), 2,347 ft3/s (66.47 m3/s), 24.92 in/yr (633 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, 21,200 ft³/s (600 m³/s), Mar. 22, gage height, 9.30 ft (2.835 m); minimum, 289 ft³/s (8.18 m³/s) Sept. 24, gage height, 1.09 ft (0.332 m).

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980 MEAN VALUES

DAY	ост	NOV	DEC	JAN	FEB	MAR	A PR	MAY	JUN	JUL	A UG	SEP
1	5460	1870	4270	2920	1030	813	5890	4460	1880	840	574	643
2	8570	1870	3740	2780	1130	870	6510	3930	1710	813	547	629
3	7700	3640	3500	2590	1100	813	6030	3560	1880	784	615	699
2 3 4	8490	4350	3090	2420	1190	944	6150	3230	2480	798	657	519
5	8230	4200	2940	2300	1160	989	5230	3000	1930	856	699	615
5	8230	4200	2940	2300	1160	989	5230	3000	1930	050	699	015
6	8490	3600	2880	2170	1160	1020	4590	2630	1690	1190	547	657
7	7400	3110	2840	2140	1170	959	4120	2370	1660	1130	560	643
8	6780	2880	2650	2120	1140	1050	3620	2300	1660	1020	519	615
9	6180	2580	2500	1960	1130	1420	4410	2260	1540	841	454	615
10	6080	2770	2410	1860	1110	1340	8280	2240	1760	798	467	629
10	0000	2110	2410	1000	1110	1340	0200	2240	1100	130	101	02)
11	5010	2940	2160	2050	1080	1490	8310	2170	1560	727	480	587
12	4220	2780	2050	3050	1110	1410	5580	2500	1440	713	519	587
13	3740	2610	2370	2670	1020	1310	4500	4270	1340	685	587	671
14	3280	2670	2920	2540	1030	1130	4570	3480	1250	770	506	629
15	2940	2520	2480	2410	1050	1340	5600	3030	1200	770	493	827
	2,10	2,20	2400	2410	1050	1340	3000	2020	1200	110	4,75	021
16	2750	2260	2310	2330	1100	1490	5530	2670	1190	784	506	574
17	2410	2190	2460	2070	959	1610	5630	2440	1140	813	454	480
18	2580	2140	2210	2020	974	6530	4550	2370	1050	755	428	713
19	2260	2050	2210	2100	1020	7200	3810	2390	1020	671	415	574
20	2230	1870	2140	2050	1030	5720	3740	2440	944	657	441	403
20	2230	1010	2140	2000	1030	3120	3140	2440	777	051	441	403
21	2170	1800	2030	1980	1100	8650	3360	2560	944	657	428	344
22	1970	1750	2050	1830	1200	15900	3050	2590	1030	601	428	355
23	1930	1710	2030	1740	1310	9040	2900	2300	900	870	428	333
24	2630	1680	2170	1620	1760	9100	2730	2100	885	944	428	322
25	2670	1710	4200	1640	1470	10800	2280	2000	784	727	415	391
25	2010	1710	4200	1040	1470	10800	2200	2000	104	121	415	391
26	2460	3340	6030	1640	1280	9260	2210	1880	741	601	643	493
27	2120	8130	4970	1510	989	7270	2330	1760	727	574	798	428
28	2140	7650	4200	1590	1030	5010	3950	1640	713	587	727	403
29	2280	5930	3480	1410	989	5120	5910	1510	741	643	493	403
30	2070	5170	3300	1290		4810	5580	1470	1000	685	547	506
30												
31	1950		3130	1230		4830		1490		601	643	
TOTAL	129190	93770	91720	64030	32821	129238	140950	79040	38789	23905	16446	16287
MEAN	4167	3126	2959	2065	1132	4169	4698	2550	1293	771	531	543
MAX	8570	8130	6030	3050	1760	15900	8310	4460	2480	1190	798	827
MIN	1930	1680	2030	1230	959	813	2210	1470	713	574	415	322
CFSM IN.	3.26	2.44	2.31	1.62	- 89	3.26 3.76	3.67 4.10	1.99	1.01	.60	. 42	.43
	3.76	2.73	2.67	1.86	.95			2.30				

CAL YR 1979 TOTAL 1260328 MEAN 3453 MAX 32900 MIN 467 CFSM 2.70 IN 36.66 WTR YR 1980 TOTAL 856186 MEAN 2339 MAX 15900 MIN 322 CFSM 1.83 IN 24.90

LEHIGH 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).

WATER-QUALITY DATA

PERIOD OF DAILY RECORD.-SPECIFIC COMDUCTANCE: 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.

REMARKS. -- Not operated October 1, 1979, through April 22, 1980.

EXTREMS FOR PERIOD OF DAILY RECORD.-SPECIFIC CONDUCTANCE: Maximum, 581 micromhos Aug. 19, 1963; minimum, 70 micromhos Nov. 14, 1970.
pH: Maximum, 8.4 Aug. 8, 1980; minimum, 6.0 Mar. 16, 1978.
WATER TEMPERATURES: Maximum, 30.5°C July 29, 1970, and July 21, 1980; minimum, freezing point on many days during winter months.
DISSOLVED OXYGEN: Maximum, 15.5 mg/L Jan. 11, 1978; minimum, 0.0 mg/L Aug. 4, 1966.

TEMPERATURE, WATER (DEG. C), WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

DAY	MAX MI	N MEAN	MAX MIN MEAN	MAX MIN MEAN	MAX	MIN MEAN
	ОСТ	OBER	NOVEMBER	DECEMBER		JANUARY
1 2 3 4 5						
6 7 8 9						
11 12 13 14 15						
16 17 18 19 20	0.11					
21 22 23 24 25						
26 27 28 29 30 31						
MONTE	Н					

LEHIGH RIVER BASIN 77

01454720 LEHIGH RIVER AT EASTON, PA--Continued
TEMPERATURE, WATER (DEG. C), WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

			TEMPERATURE,	WATER	(DEG. C)	, WATER	YEAR OCTOBER	1979 TO	SEPTEMBER	1980		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		FEBRUARY			MARCH			APRIL			MAY	
										13.0	12.5	12.5
1 2										14.5	13.5	14.5
2 3 4										15.5 16.5	14.5 15.0	15.5
5										17.5	16.0	16.5
										18.0	16.5	17.0
6										18.5	17.0	18.0
8										18.5	17.0	17.5
9 10										17.0	16.0 15.0	16.5
11 12										16.0 15.5	15.0 15.0	15.5 15.5
13										17.0	15.5	16.0
14										17.5 17.5	17.0 17.0	17.5 17.5
15												
16										17.5 17.5	16.5 17.0	17.0
17 18										17.5	17.0	17.0
19										17.5	16.5	17.0
20										18.0	17.5	17.5
21										18.5	17.5	18.0
22							15.0	14.5	15.0	18.5	17.5 18.5	18.0
23 24							15.5	14.5	15.0	21.0	20.0	20.5
25							15.5	15.0	15.5	21.5	20.5	21.0
26							15.5	15.0	15.0	21.0	20.0	20.5
27							15.0	13.5	14.0	20.0	19.5	19.5
28 29							13.5 12.5	12.5	13.0	20.0	19.0	19.5
30							12.5	12.0	12.0	20.0	19.5	20.0
31										20.0	19.5	19.5
MONTH							15.5	12.0	14.0	21.5	12.5	17.5
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		JUNE			JULY			AUGUST			SEPTEMB	ER
	4.7			05.0		011 0	20.5		28.0	28.0	27.0	27.5
1 2	21.0	19.5	20.5	25.0	23.0	24.0	28.5 28.5	27.0	28.0	28.5	27.0	28.0
3	22.0	21.0	21.5	24.5	23.5	24.0	29.0	27.5	28.0	29.0	27.5	28.5
5	21.5	20.5	21.0	25.0	23.5	24.0	29.0 29.5	28.0	28.5	28.5 28.0	27.0 26.5	27.5
6	20.5	20.0	20.5	25.0	23.5	24.0	29.5 29.5	28.0	29.0	27.0	26.0	26.5
8	22.0	21.0	21.5	25.0	23.0	24.0	29.5	28.5	29.0	26.0	25.0	25.5
9	21.0	19.0	20.0	26.5	24.0	25.0	29.5 29.5	28.5	29.0	25.5 25.5	24.5	25.0 25.0
10	19.0	18.0	18.5	27.0	25.0	26.0						
11	18.0	17.0	17.5	27.5	26.0	26.5	28.5 28.0	27.5	28.0	25.0 25.0	24.0	24.5
12 13	19.0	17.5 18.5	18.0	27.5	26.0	27.0 26.5	27.5	26.5	27.0	25.0	23.5	24.5
14	21.0	19.5	20.5	28.0	25.5	26.5	27.0	26.0	26.5	25.0	24.0	24.5
15	22.5	20.5	21.5	27.5	26.0	27.0	27.0	26.0	26.5	24.5	23.5	24.0
16	22.5	21.5	22.0	28.0	26.5	27.5	26.5	25.5	25.5	23.5	22.5	23.0
17 18	22.5	21.5	22.0	28.0	27.0 26.5	27.5 27.5	25.5 25.5	24.5	25.0	23.5	22.0	22.5
19	22.0	20.5	21.5	29.0	27.0	28.0	25.0	24.0	24.5	23.5	22.0	22.5
20	22.0	20.5	21.0	29.5	27.5	28.5	26.0	24.0	25.0	23.5	22.0	23.0
21		19.5	20.5	30.5	28.5	29.5	25.5	25.0	25.0	24.5	23.0	23.5
	21.5			30.0	29.0	29.5	25.5 26.0	24.5	25.0 25.0	25.5 26.0	23.5	24.5
22	22.5	20.0	21.5		28 5						25.0	
23	22.5	20.0	22.5	30.0	28.5	29.0	26.5	25.0	25.5	25.5	25.0 24.0	25.5
	22.5	20.0			28.5 27.0 26.5	28.0 27.5						24.5
23 24 25	22.5 23.5 24.5 25.5	20.0 21.0 21.5 23.0	22.5 23.0 24.0	30.0 28.5 28.5	27.0 26.5	28.0	26.5 27.0	25.0	25.5 26.0 26.5	25.5 25.0 23.0	24.0 23.0 22.5	24.5 23.5 23.0
23 24 25 26 27	22.5 23.5 24.5 25.5 26.0 26.0	20.0 21.0 21.5 23.0 24.0 24.5	22.5 23.0 24.0 25.0 25.5	30.0 28.5 28.5 28.5 28.5	27.0 26.5 27.0 27.5	28.0 27.5 27.5 28.0	26.5 27.0 27.5 28.0	25.0 25.5 26.0 26.5	25.5 26.0 26.5 27.0	25.5 25.0 23.0 22.5	24.0 23.0 22.5 20.5	24.5 23.5 23.0 21.0
23 24 25 26 27 28	22.5 23.5 24.5 25.5 26.0 26.0 26.0	20.0 21.0 21.5 23.0 24.0 24.5 24.5	22.5 23.0 24.0 25.0 25.5 25.5	30.0 28.5 28.5 28.5 28.5 28.5	27.0 26.5 27.0 27.5 27.5	28.0 27.5 27.5 28.0 28.0	26.5 27.0 27.5 28.0 28.0	25.0 25.5 26.0 26.5 26.5	25.5 26.0 26.5 27.0 27.5	25.5 25.0 23.0 22.5 21.5	24.0 23.0 22.5 20.5 20.0	24.5 23.5 23.0 21.0 20.5
23 24 25 26 27 28 29	22.5 23.5 24.5 25.5 26.0 26.0	20.0 21.0 21.5 23.0 24.0 24.5	22.5 23.0 24.0 25.0 25.5	30.0 28.5 28.5 28.5 28.5	27.0 26.5 27.0 27.5 27.5 27.0 27.0	28.0 27.5 27.5 28.0	26.5 27.0 27.5 28.0 28.0 28.0 28.0	25.0 25.5 26.0 26.5 26.5 26.5 26.5	25.5 26.0 26.5 27.0 27.5 27.0 27.5	25.5 25.0 23.0 22.5	24.0 23.0 22.5 20.5 20.0 19.5 20.0	24.5 23.5 23.0 21.0 20.5 20.0 20.5
23 24 25 26 27 28	22.5 23.5 24.5 25.5 26.0 26.0 26.0 25.5	20.0 21.0 21.5 23.0 24.0 24.5 24.5	22.5 23.0 24.0 25.0 25.5 25.5 25.5	30.0 28.5 28.5 28.5 28.5 28.5 28.5 28.5	27.0 26.5 27.0 27.5 27.5 27.0	28.0 27.5 27.5 28.0 28.0 27.5	26.5 27.0 27.5 28.0 28.0 28.0	25.0 25.5 26.0 26.5 26.5 26.5	25.5 26.0 26.5 27.0 27.5 27.0	25.5 25.0 23.0 22.5 21.5 21.5	24.0 23.0 22.5 20.5 20.0 19.5	24.5 23.5 23.0 21.0 20.5 20.0
23 24 25 26 27 28 29 30	22.5 23.5 24.5 25.5 26.0 26.0 25.5 24.5	20.0 21.0 21.5 23.0 24.0 24.5 24.5 24.5 23.5	22.5 23.0 24.0 25.0 25.5 25.5 25.0 24.0	30.0 28.5 28.5 28.5 28.5 28.5 28.5 28.5 28.5	27.0 26.5 27.0 27.5 27.5 27.0 27.0	28.0 27.5 27.5 28.0 28.0 27.5 27.5	26.5 27.0 27.5 28.0 28.0 28.0 28.0	25.0 25.5 26.0 26.5 26.5 26.5 26.5	25.5 26.0 26.5 27.0 27.5 27.0 27.5	25.5 25.0 23.0 22.5 21.5 21.5 21.5	24.0 23.0 22.5 20.5 20.0 19.5 20.0	24.5 23.5 23.0 21.0 20.5 20.0 20.5

LEHIGH RIVER BASIN

01454720 LEHIGH RIVER AT EASTON, PA--Continued

SPECIFIC CONDUCTANCE (MICROMHOS/CM AT 25 DEG. C), WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

MAX		S	SPECIFIC C	ONDUCTANCE	(MICROM	HOS/CM AT	25 DEG.	C), WATER Y	EAR OCTOR	BER 1979	TO SEPTEMBER	1980	
2 3 4 5 5 6 6 7 7 8 9 9 9 10 1 11 12 12 12 12 12 12 12 12 12 12 12 1	DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
10			OCTOBER			NOVEMBE	R		DECEMBER	1		JANUARY	
6 7 8 9 9 10 11 11 12 12 13 14 14 15 15 15 15 16 17 17 17 17 17 17 17 17 17 17 17 17 17	1												
6 7 8 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9	3												
6 7 8 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9	4 5												
10 11 12 13 14 15 16 16 17 18 19 20 21 22 23 24 25 26 27 26 27 28 29 30 30 31 MONTH DAY MAX MIN MEAN MAX MIN MEAN MAX MIN MEAN MAX MIN MEAN FEBRUARY MARCH APRIL MAY 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1													
10	7										188		
11 12 13 14 15 16 17 17 17 17 17 17 17 17 17 17 17 17 17	9												
13													
13	11 12					*							
15 16 17 18 18 19 20 20 20 20 20 20 20 2	13												
17	15												
18													
21 22 23 24 25 26 26 278 28 29 30 31 31 MONTH DAY MAX MIN MEAN MAX MIN MAX MIN MEAN MAX MIN MEAN MAX MIN MEAN MAX MIN MAX MIN MEAN MAX MIN MAX MIN MEAN MAX MI	18												
23	20				1 3-								
23	21												
The second color of the	22 23												
The second color of the	24												
MONTH DAY MAX MIN MEAN MAX MIN MEAN MAX MIN MEAN MAX MIN MEAN													
MONTH DAY MAX MIN MEAN MAX MIN MEAN MAX MIN MEAN MAX MIN MEAN	27												
MONTH DAY MAX MIN MEAN MAX MIN MEAN MAX MIN MEAN MAX MIN MEAN	29										1 100		
DAY MAX MIN MEAN MAX MIN MEAN MAX MIN MEAN MAX MIN MEAN FEBRUARY MARCH APRIL MAY 1	31												
FEBRUARY MARCH APRIL MAY	MONTH												
FEBRUARY MARCH APRIL MAY		MAY	MIN	MEAN	WAY	WTW	MEAN	MAY	MIN	MEAN	MAY	MTN	MEAN
1	DAY				MAX			MAA		MEAN	MAA		MEAN
191 175 181			FEBRUARI			MARCH	1		APRIL				4.00
19	1 2								===		161	154	158
19	3										175	158 168	164 172
9	5										176	172	
9	6								112		191	175	181
11 224 214 220 12 219 202 213 13 211 167 179 173 176 15 188 179 183 16 200 189 193 17 213 201 201 18 217 208 213 19 217 208 213 20 221 207 214 21 221 207 214 22 220 206 213 23 175 170 172 220 209 217 24 176 172 174 232 223 226 22 195 176 187 230 223 226 226 206 198 203	8										224	201	216
15 16 200 189 193 17 18 213 201 210 213 201 210 21 20 212 204 209 20 221 207 214 21 21 22 23 23 24 27 26 26 20 20 20 20 20 20 20 20	10												221
15 16 200 189 193 17 18 213 201 210 213 201 210 21 20 212 204 209 20 221 207 214 21 21 22 23 23 24 27 26 26 20 20 20 20 20 20 20 20												214	220
16	12										211	164	213 186
16 200 189 193 17 213 201 210 18 217 208 213 19 212 204 209 20 221 207 214 21 220 206 213 23 175 170 172 220 209 217 24 176 172 174 232 219 227 25 195 176 187 230 223 226 26 206 198 203 226 222 224 27 201 185 197 234 224 229 28 193 169 179 265 233 246 29 169 143 152 274 251 261 30 149 141 145 286 270 279 31 <	14										179	173	176
20													
20	17										213	201	210
20	18										212	204	209
26 206 198 203 226 222 224 27 201 185 197 234 224 229 28 193 169 179 265 233 246 29 169 143 152 274 251 261 30 149 141 145 286 270 279 31 288 278 284													
26 206 198 203 226 222 224 27 201 185 197 234 224 229 28 193 169 179 265 233 246 29 169 143 152 274 251 261 30 149 141 145 286 270 279 31 288 278 284	21 22									100	220	210	216
26 206 198 203 226 222 224 27 201 185 197 234 224 229 28 193 169 179 265 233 246 29 169 143 152 274 251 261 30 149 141 145 286 270 279 31 288 278 284	23							175 176	170 172	172	220	209	217
	25							195	176	187	230	223	
	26							206	198	203	226	222	224
	27 28							193	185 169	197	234 265	233	246
	29							169	143	152	274	251 270	261
MONTH 206 141 176 288 143 210	31											278	284
	MONTH							206	141	176	288	143	210

01454720 LEHIGH RIVER AT EASTON, PA--Continued

SPECIFIC CONDUCTANCE (MICROMHOS/CM AT 25 DEG. C), WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

DAY	MAX	MIN	MEAN	MA X	MIN	MEAN		MAX	MIN	MEAN	MAX	MIN	MEAN
		JUNE			JULY				AUGUST			SEPTEME	BER
1 2 3 4 5	313 252 273 269 223	249 239 252 219 217	275 243 262 242 219	330 362 354 350 349	319 329 338 337 321	325 348 348 344 340		398 414 410 407 385	382 392 401 384 360	388 400 405 395 371	402 351 345 362 370	351 333 333 335 354	377 338 338 347 359
6 7 8 9	250 257 254 258 264	223 244 237 239 256	240 252 247 248 261	338 317 309 325 350	304 287 270 310 326	324 299 297 313 340		382 390 409 409 409	358 375 389 398 391	370 381 396 402 399	402 397 376 353 366	368 378 355 330 328	382 389 361 338 345
11 12 13 14 15	268 280 291 299 297	256 263 276 283 283	262 272 284 290 291	361 373 377 369 349	343 343 358 350 336	352 361 370 361 344		409 400 414 418 413	390 382 380 406 390	404 388 391 411 400	373 387 387 377 360	357 354 367 363 316	365 366 374 370 342
16 17 18 19 20	296 305 321 330 331	277 283 299 315 316	286 290 305 322 325	369 367 361 375 372	337 351 348 351 360	358 361 355 364 366		421 421 417 402 411	401 403 393 384 388	409 410 402 392 393	323 350 378 373 385	302 306 344 346 360	311 320 364 360 371
21 22 23 24 25	342 345 335 334 348	329 328 306 311 334	336 338 318 319 342	368 363 399 394 370	356 354 357 369 343	362 358 377 383 356		431 436 433 443 452	412 415 423 433 418	422 425 428 438 438	392 407 414 425 463	379 389 406 414 422	384 397 410 420 448
26 27 28 29 30 31	362 376 390 374 361	347 359 366 333 321	356 369 380 367 346	379 393 389 385 396 405	345 372 380 371 373 374	366 383 384 378 383 396		419 431 420 373 370 404	394 396 359 353 350 370	405 410 393 365 357 383	482 491 484 475 459	448 472 452 442 411	467 481 469 461 440
MONTH	390	217	296	405	270	355		452	350	399	491	302	383
			OXYGEN,	DISSOLVED	(DO), MG/	L, WATER	YEAR	OCTOBER	1979 TO	SEPTEMBER	1980		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN		MAX	MIN	MEAN	MAX	MIN	MEAN
		остов	ER		NOVEMBE	ER		1	DECEMBE	1		JANUAR	Y

LEHIGH RIVER BASIN

01454720 LEHIGH RIVER AT EASTON, PA--Continued

OXYGEN, DISSOLVED (DO), MG/L, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

2 12.4 11.2	11.6 11.8 11.3 11.0 10.5 9.7 9.1 9.5 11.1
2 12.4 11.2	11.8 11.3 11.0 10.5 9.7 9.1 9.5 11.1
7 8 9.5 8.7 8.9 9.9 10 11.8 10.4 12.5 11.2 11.1 12.1 11.8 10.9 11.3 11.8 10.9	9.1 9.5 11.1
12 11.8 10.9	
13	11.6 11.2 10.5 9.8 9.2
16 9.4 8.7 17 9.9 8.8 18 9.3 8.9 19 9.7 8.9 20 9.6 8.7	9.1 9.3 9.1 9.2 9.1
21 22 23 23 24 25 21 22 22 24 25 21 21 22 23 24 25 26 27 28 29 29 20 20 21 21 21 22 23 24 25 26 27 27 28 29 29 29 29 29 29 29 29 29 29 29 29 29	8.5 8.7 8.6 8.2 8.5
26 10.7 9.0 9.9 9.5 8.1 27 10.3 9.9 10.2 10.1 8.5 28 10.2 10.0 10.1 10.5 9.2 29 11.8 9.2 10.6 10.7 9.2 30 11.9 11.2 11.6 10.1 9.1 31 10.8 9.0	8.7 9.2 9.8 9.8 9.5 9.8
MONTH 11.9 8.7 10.4 12.5 7.7	9.8
DAY MAX MIN MEAN MAX MIN MEAN MAX MIN MEAN MAX MIN M	MEAN
JUNE JULY AUGUST SEPTEMBER	
1 9.9 8.8 9.5 10.0 7.4 8.5 6.1 3.6 4.7 2 9.4 8.2 8.9 9.3 7.1 8.1 3 8.7 8.2 8.5 7.8 6.9 7.3 4 8.7 8.4 8.5 8.6 6.3 7.3 8.3 4.8 5 8.9 8.4 8.7 8.2 6.1 7.1 7.6 4.9	6.1
6 8.7 7.8 8.4 6.7 6.1 6.4 7 8.3 7.6 8.1 6.7 5.6 5.9 8 8.0 7.1 7.6 7.5 6.9 7.2 9 9.7 7.3 8.4 8.1 6.5 7.2 10 10.3 9.6 10.0 7.8 6.2 6.9 8.1 5.5	6.7
11 11.3 10.1 10.7 8.0 6.0 6.8 8.2 6.9 8.0 5.4 12 11.4 10.4 10.9 8.0 5.6 6.7 8.0 4.9 6.2 8.3 5.4 13 11.1 10.0 10.5 8.6 5.6 6.7 8.4 5.0 6.5 8.1 5.6 14 10.6 9.5 9.9 9.3 5.7 7.1 8.1 5.3 6.6 15 9.7 8.2 9.0 8.7 6.0 7.2 7.3 5.0 6.1	6.6 6.7 6.8
16 9.2 7.9 8.4 8.3 5.8 6.8 7.6 5.4 6.4 17 9.2 7.8 8.3 7.2 5.3 6.1 8.3 5.6 6.7 18 9.1 8.2 8.5 7.7 5.4 6.3 8.1 6.0 7.0 7.2 6.5 19 9.1 8.0 8.4 7.8 5.2 6.2 8.5 5.8 6.8 7.2 5.4 20 8.6 7.7 8.2 8.4 5.1 6.5 9.0 5.9 7.2 7.7 5.8	6.2
21 8.9 7.8 8.2 7.8 4.6 6.0 8.9 5.8 7.2 7.7 5.7 22 8.5 7.6 8.1 9.1 4.4 6.3 8.2 5.3 6.6 7.5 5.5 23 9.5 7.5 8.2 7.5 5.0 6.1 8.0 5.6 6.5 7.9 5.1 24 8.7 7.0 7.8 7.9 5.0 6.3 8.2 5.5 6.6 25 9.6 6.7 7.9 8.3 5.4 6.7 8.3 5.4 6.6	6.6 6.4 6.4
26 9.4 6.1 7.5 7.7 5.0 6.2 8.9 5.3 6.8 7.6 5.8 27 9.1 6.3 7.5 8.0 4.6 6.0 8.6 5.4 6.9 7.8 5.6 28 8.5 5.7 6.8 8.1 4.6 6.0 8.7 5.4 6.9 8.0 6.0 29 7.7 5.4 6.4 7.5 4.2 5.6 7.8 4.8 6.1 8.0 6.2 30 8.9 5.3 6.6 7.2 5.2 6.2 8.9 5.9	6.6 6.9 6.9 7.1
31 7.5 4.0 5.6 MONTH 11.4 5.3 8.5 10.0 4.0 6.6 9.0 3.6 6.6 8.9 4.8	6.6

LEHIGH RIVER BASIN 81

01454720 LEHIGH RIVER AT EASTON, PA--Continued PH (STANDARD UNITS), WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

			PH (STA	ANDARD U	NITS), WA	TER YEAR	OCTOBER 19	79 TO SEE	TEMBER	1980		
DAY	MAX	MIN OCTOBER	MEAN	MAX	M IN NO VEMBER	MEAN	MAX	M IN DECEMBER	MEAN	MAX	MIN JANUARY	MEAN
1 2 3 4 5		OCTOBER			NOVEMBER			DECEMBER			JANOARI	
6 7 8 9												
11 12 13 14 15												
16 17 18 19 20												
21 22 23 24 25												
26 27 28 29 30 31												
MONTH												
DAY	MAX	MIN	MEAN	MAX.	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN .	MEAN
		FEBRUARY			MARCH			APRIL			MAY	
1 2 3 4 5							===	===	===	7.3 7.4 7.4 7.5 7.5	7.2 7.3 7.3 7.3 7.4	7.3 7.4 7.3 7.4 7.4
6 7 8 9 10							===	===	===	7.5 7.4 7.4 7.5 7.6	7.4 7.3 7.3 7.4 7.5	7.4 7.4 7.4 7.5 7.5
11 12 13 14							=======================================	===	===	7.6 7.5 7.3 7.3 7.3	7.4 7.3 7.2 7.2 7.2	7.5 7.4 7.3 7.2 7.3
16 17 18 19 20							===	===	===	7.3 7.5 7.6 7.4 7.5	7.2 7.3 7.4 7.4 7.4	7.3 7.4 7.5 7.4 7.4
21 22 23 24 25							7.6 7.6 7.6	7.5 7.5 7.5	7.5 7.5 7.5	7.4 7.4 7.4 7.4 7.5	7.3 7.3 7.3 7.3 7.4	7.3 7.4 7.4 7.4
26 27 28 29 30							7.6 7.7 7.5 7.5 7.3	7.6 7.5 7.5 7.2 7.3	7.6 7.6 7.5 7.4 7.3	7.5 7.6 7.6 7.6 7.5	7.5 7.4 7.5 7.5 7.4	7.5 7.6 7.5 7.5 7.5
31 MONTH							7.7	7.2	7.5	7.5 7.6	7.1	7.4
MUNIM							1.1	1.2	1.5	1.0	1.1	1.4

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LEHIGH RIVER BASIN

01454720 LEHIGH RIVER AT EASTON, PA--Continued

PH (STANDARD UNITS), WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		JUNE			JULY			AUGUST			SEPTEM	BER
1 2 3 4 5	7.4 7.4 7.3 7.3 7.2	7.0 7.2 7.2 7.2 7.2	7.4 7.3 7.2 7.2 7.2	7.6 7.6 7.4 7.5 7.5	7.3 7.3 7.3 7.2 7.2	7.4 7.4 7.3 7.3 7.3	7.9 7.8 7.9 8.0 8.1	7.4 7.4 7.3 7.4 7.4	7.6 7.6 7.6 7.6 7.7	8.0 7.9 8.0 7.9 7.8	7.3 7.3 7.3	7.6 7.6 7.6 7.5 7.5
6 7 8 9	7.2 7.2 7.2 7.4 7.4	7.2 7.2 7.1 7.0 7.4	7.2 7.2 7.2 7.2 7.4	7.3 7.6 7.6 7.7 7.7	7.2 7.2 7.3 7.4 7.4	7.2 7.3 7.4 7.5 7.5	8.2 8.3 8.4 8.3	7.4 7.4 7.5 7.4 7.4	7.7 7.8 7.9 7.8 7.7	7.6 7.7 7.7 7.8 7.7	7.3 7.3 7.3	7.4 7.4 7.5 7.5 7.5
11 12 13 14 15	7.5 7.5 7.5 7.5 7.5	7.4 7.4 7.4 7.4 7.3	7.4 7.4 7.5 7.4 7.4	7.8 7.7 8.0 8.2 8.1	7.4 7.4 7.4 7.4 7.5	7.5 7.5 7.6 7.8 7.8	8.1 8.0 8.1 8.0 7.9	7.4 7.4 7.4 7.5 7.4	7.7 7.7 7.7 7.7 7.5	7.8 7.8 7.8 7.6 7.5	7.3 7.3 7.3	7.5 7.5 7.5 7.4 7.3
16 17 18 19 20	7.5 7.6 7.5 7.5 7.4	7.2 7.4 7.4 7.3 7.3	7.4 7.5 7.4 7.4 7.3	7.8 7.6 7.6 7.7 8.0	7.4 7.3 7.3 7.3 7.3	7.6 7.4 7.4 7.4 7.5	7.7 7.9 7.9 7.8 8.0	7.4 7.4 7.5 7.4 7.4	7.5 7.6 7.7 7.6 7.6	7.4 7.5 7.5 7.4 7.5	7.0 7.3 7.1	7.3 7.3 7.3 7.3 7.3
21 22 23 24 25	7.4 7.4 7.8 7.8 8.0	7.2 7.2 7.2 7.4 7.3	7.3 7.4 7.6 7.6	7.9 8.1 8.0 7.8 8.0	7.3 7.4 7.4 7.4	7.6 7.6 7.6 7.6 7.7	8.0 7.9 7.7 7.8 7.9	7.4 7.4 7.4 7.4 7.4	7.7 7.6 7.5 7.5 7.6	7.5 7.5 7.7 7.7 7.7	7.2	7.3 7.4 7.4 7.4
26 27 28 29 30 31	8.1 8.0 7.9 7.8 7.7	7.3 7.4 7.3 7.4 7.3	7.6 7.7 7.6 7.6 7.4	7.8 8.0 8.1 7.9 7.6 7.9	7.4 7.3 7.4 7.4 7.4 7.3	7.6 7.6 7.7 7.6 7.5 7.5	8.1 8.0 8.2 7.9 8.0 7.9	7.5 7.5 7.4 7.3 7.3	7.7 7.7 7.7 7.5 7.6 7.6	7.6 7.6 7.7 7.8 7.7	7.3 7.3 7.4	7.4 7.4 7.5 7.5 7.5
MONTH	8.1	7.0	7.4	8.2	7.2	7.5	8.4	7.3	7.7	8.0	7.0	7.4

01455100 LOPATCONG CREEK AT PHILLIPSBURG, NJ

LOCATION.--Lat 40°40'38", long 75°10'13", Warren County, Hydrologic Unit 02040105, at bridge on Lock Street in Phillipsburg, and 0.9 mi (1.4 km) upstream from mouth.

DRAINAGE AREA .-- 14.2 mi2 (36.8 km2).

WATER-QUALITY RECORDS

PERIOD OF RECORD. -- Water years 1959-62, January 1979 to current year.

COOPERATION.--Selected field data 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 water-phase nutrients were performed by the New Jersey Department of Health, Division of Laboratories and Epidemiology.

WATER QUALITY DATA, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

DATE	TIME T	TREAM- FLOW, NSTAN- ANEOUS (CFS)	SPE- CIFIC CON- DUCT- ANCE (MICRO- MHOS)	PH FIELD (UNITS)	TEMPER- ATURE, WATER (DEG C)	OXYGEN DIS- SOLVE (MG/L	DEN BIC UNI D 5	MAND, OCHEM INHIB DAY	COLI- FORM, FECAL, EC BROTH (MPN)	STREP- TOCOCCI FECAL (MPN)	HARD- NESS (MG/L AS CACO3)
MAR											
05	0930	8.0	422	7.9	6.0	10.	8	<.9	>24000	70	170
MAY 07	1115	14	362	8.1	14.5	9.	7	<.5	3500	350	160
JUN 03	1045	13	352	7.2	15.0	9.	2	1.0	3500	920	140
JUL											
15 AUG	1030	9.2	410	7.7	14.0	9.	9	<.1	1300	280	200
19	1130	5.1	458	7.7	12.5	9.	6	E1.9	490	540	220
30	1015	5.0	440	8.0	12.0	9.	8	E.8	330	>2400	220
DATE	CALCIU DIS- SOLVE (MG/L AS CA	D SOLV	M, SODI - DIS ED SOLV L (MG	UM, SI - DI ED SOL /L (MG	IS- LIN LVED (M E/L A:	G/L T S (LFIDE OTAL MG/L S S)	SULFAT DIS- SOLVE (MG/L AS SO4	D SOL	E, RII - D: VED SOI /L (MC	DE, IS- LVED G/L
MAR											
MAY	. 38	19	1	0	1.6	130		36	1	7	. 1
07	. 36	17		7.7	1.7	120		34	1	1	.1
JUN 03	. 30	16		7.3	1.4	120		31		9.8	. 1
JUL 15	. 44	23		7.9	2.0	160		30	1	1	. 1
AUG					2.0						
19 SEP	• 48	25		6.7	1.9	170		34	1.	2	. 1
30	. 47	25		7.3	2.1	160	.0	29	1:	2	. 1
DATE	SILICA DIS- SOLVE (MG/L AS SIO2)	D DEG.	UE NIT O GE C NO2+ TOT ED (MG	N, GE NO3 AMMO AL TOT	CN, GO ONIA ORGAL TO G/L (M	TRO- GEEN, MOANIC ORTAL TG/L (TRO- N,AM- NIA + GANIC OTAL MG/L S N)	NITRO GEN, TOTAL (MG/L AS N)	OS PH. TOTA (MG	US, OPH CARI ATE ORGA AL TO: /L (MO	ANIĆ FAL G/L
MAR											
MAY	. 12	. 2	33 3	,7 .	120	• 33	. 45	4.2	<	.01	2.2
07 JUN	. 12	2	39 3	.3 .	160	- 39	. 55	3.8		. 17	2.0
03	. 12	2	36 3	.3 .	380	. 25	.63	3.9		. 10	2.4
JUL 15	. 12	2	83 4	.8 .	100	. 02	. 12	4.9		. 09	.6
AUG 19		3			.030		. 12	4.7		. 06	. 2
SEP 30					180	. 26	. 44	5.0		. 06	2.6
30			.05 4	.0	100	. 20	. 44	5.0		.00	2.0
	DATE	TIME	ALUM- INUM, DIS- SOL VED (UG/L AS AL)	ARSENIC TOTAL (UG/L AS AS)	BERYL- LIUM, TOTAL RECOV- ERABLE (UG/L AS BE)	BORON TOTAL RECOV ERABL (UG/L AS B)	- RE E EF	OMIUM OTAL ECOV- RABLE IG/L	CHRO- MIUM, TOTAL RECOV- ERABLE (UG/L AS CR)	COPPER, TOTAL RECOV- ERABLE (UG/L AS CU)	
:	SEP 30	1015	20	0	0	1	0	0	10	. 2	

O1455100 LOPATCONG CREEK AT PHILLIPSBURG, NJ--Continued WATER QUALITY DATA, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

	IRON, TOTAL	LEAD, TOTAL	MANGA- NESE, TOTAL	MERCURY	NICKEL, TOTAL	SELE-	ZINC, TOTAL	
	RECOV- ERABLE	RECOV- ERABLE	RECOV- ERABLE	RECOV- ERABLE	RECOV- ERABLE	NIUM, TOTAL	RECOV- ERABLE	PHENOLS
DATE	(UG/L AS FE)	(UG/L AS PB)	(UG/L AS MN)	(UG/L AS HG)	(UG/L AS NI)	(UG/L AS SE)	(UG/L AS ZN)	(UG/L)
SEP 30	140	1	20	<.1	2	0	20	3

01455200 POHATCONG CREEK AT NEW VILLAGE, NJ

LOCATION.--Lat 40°42'57", long 75°04'20", Warren County, Hydrologic Unit 02040105, at bridge on Edison Road, 0.4 mi (0.6 km) southeast of New Village, and 4.3 mi (6.9 km) upstream from Merrill Creek.

DRAINAGE AREA. -- 33.4 mi2 (86.5 km2).

WATER-QUALITY RECORDS

PERIOD OF RECORD. -- Water years 1959, 1962 and January 1979 to current year.

COOPERATION.--Selected field data 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 water-phase nutrients were performed by the New Jersey Department of Health, Division of Laboratories and Epidemiology.

WATER QUALITY DATA, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

DATE	TIME	SPE- CIFIC CON- DUCT- ANCE (MICRO- MHOS)	PH FIELD (UNITS)	TEMPER- ATURE, WATER (DEG C)	OXYGEN, DIS- SOLVED (MG/L)	UNINH:	D, FORM, EM FECAL, IB EC Y BROTH	STREP- TOCOCCI FECAL (MPN)	HARD- NESS (MG/L AS CACO3)
MAR									
12	1115	180	7.5	2.0	14.6	E 1.	.6 <20	5	61
MAY 01 JUN	1045	167	7.5	13.0	10.7		230	110	61
03 JUL	1000	176	7.1	18.0	8.1	2.	8 >24000	>2400	61
15	0930	230	7.5	21.0	8.4	<.	.1 9200	540	92
AUG 19	1045	253	7.3	19.0	8.9	3.	9 16000	130	98
DATE	CALCIUM DIS- SOLVED (MG/L AS CA)	MAGNE- SIUM, DIS- SOLVED (MG/L AS MG)	SODIUM, DIS- SOLVED (MG/L AS NA)	POTAS- SIUM, DIS- SOLVED (MG/L AS K)	ALKA- LINITY (MG/L AS CACO3)	SULFAT DIS- SOLVE (MG/I AS SO	DIS- ED SOLVED (MG/L	(MG/L	SILICA, DIS- SOLVED (MG/L AS SIO2)
MAR		12/20							3.5
12 MAY	14	6.3	8.4	1.3	34	20	11	. 1	13
01 JUN	15	5.7	8.0	1.5	37	16	8.4	.1	12
03	14	6.3	7.7	1.3	41	18	8.9	.1	13
JUL 15 AUG	21	9.5	9.7	1.8	69	18	12	, 1	15
19	23	9.9	10	2.3	76	19	13	.1	16
ľ	RES AT DE D SOI	180 GG. C NO2 IS- TO LVED (M	EN, G +NO3 AMM TAL TO G/L (M	EN, G ONIA ORG TAL TO G/L (M	TRO- GENERAL TO TAL TO GOLD	TRO- N, AM- NIA + GANIC OTAL MG/L S N)	PH NITRO- OR GEN, OS TOTAL T (MG/L (PHATE ORG OTAL TO MG/L (M	BON, ANIC TAL G/L C)
MA 1 MA	2	115	1.6	. 430	. 23	.66	2.3	2.8	11
C	11	101	1.2	. 230		1.44		.38	3.4
10 0 10	3	134	1.6			•53	2.1	. 52	4.7
	5	137	2.2	. 140	.60	.74	2.9	. 89	3.0
	9	162	2.4 <	.030		. 63	3.0	1.1	1.6

01455300 POHATCONG CREEK AT CARPENTERSVILLE, NJ

LOCATION.--Lat 40°37'30", long 75°11'10", Warren County, Hydrologic Unit 02040105, at bridge on Carpentersville-Riegelsville Road in Carpentersville, and 2,000 ft (610 m) upstream from mouth.

DRAINAGE AREA . -- 57.1 mi2 (147.9 km2).

WATER-QUALITY RECORDS

PERIOD OF RECORD. -- Water years 1959-62, 1976 to current year.

COOPERATION. -- Field data 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 water-phase nutrients were performed by the New Jersey Department of Health, Division of Laboratories and Epidemiology.

WATER QUALITY DATA, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

DATE		STREAM- FLOW, INSTAN- TANEOUS (CFS)	SPE- CIFIC CON- DUCT- ANCE (MICRO MHOS)	- F	PH IELD NITS)	AT	PER- URE, TER G C)	OXYGE DIS SOLV	EN, S- VED	OXYG DEMA BIOC UNIN 5 D (MG/	ND, F HEM F HIB AY F	COLI- FORM, FECAL, EC BROTH	TOC	REP- OCCI CAL PN)	NES (MC	G/L
OCT 02	1030	123	18	Jı.	7.0		15.5		9.1			24000		2400		73
MAR					7.9											1.0
05 A PR	1100		32		8.3		3.0		1.2		1.1	20		130		130
28 JUN	1215	149	21	5	7.5		10.0	10	0.2		2.4	9200	>	2400		85
03 JUL	1230	64	27	0	7.4		18.0	9	9.5		1.4	3500		350		110
15 AUG	1130		32	7	7.8		19.0	9	9.5		<.1	3500		540		160
19	1230	4.5	37	1	7.9		17.0	9	9.6		3.2	940		920		
DATE	CALCII DIS- SOLVI (MG/I AS C	DI: ED SOL L (MG	UM, SO S- D VED SO /L (DIUM, IS- LVED MG/L S NA)	SOL' (MG	UM, S- VED /L	ALKA LINIT (MG/ AS CACO	Y S	SULFI TOTA (MG/ AS S	DE L L	SULFATE DIS- SOLVEI (MG/L AS SO4)	DIS SOL (MG	E, VED /L	FLUC RID DIS SOL (MG	E, S- VED /L	
OCT O2 MAR			7.3	5.9		2.7		52		.0	17		7.5		.1	
05 A PR		1	4	7.8		1.6	1	00			28	1	0		. 1	
28 JUN			8.6	7.3		2.0		66			24		7.9		. 1	
03 JUL		1.	2	6.3		1.5		84		. 4	24		8.5		. 1	
15	. 34	1	7	7.4		2.2	1	30			26		9.7		.1	
AUG 19																
	SILIC	SOLI		ITRO-	NIT	PO.	NITE		IITRO EN, A			PHO PHOR				
	DIS- SOLVI (MG/I	AT 1: ED DEG L DI: SOL	80 . C NO S- T VED (GEN, 2+NO3 OTAL MG/L	AMMOI TOTA (MG	N, NIA AL /L	GEN ORGAN TOTA (MG/	ic o	ONÍA ORGAN TOTA (MG/	IC L L	NITRO- GEN, TOTAL (MG/L	ORTH OSPH TOT (MG	OPH ATE AL /L	CARBO ORGA TOTA (MG	NIĆ AL /L	
DATE	SI02) (MG	/L) A	S N)	AS I	N)	AS N)	AS N)	AS N)	AS P	04)	AS	3)	
OCT O2 MAR	. 11		116	<1.0		200		40		60	-	. 1	. 1		6.6	
05 A PR	. 8	. 3	179	2.5		120		24		36	2.9		.07		1.9	
28 JUN	. 11		149	2.0		170		49		66	2.7		. 49	3	5.2	
03	. 12		188	2.2	Ε.	190				29	2.5		. 37		5.6	
JUL 15 AUG	. 12		215	1.0		090		44		53	1.5		. 46		2.0	
19				2.6	<.	030				27	2.9		. 31		.5	

01455300 POHATCONG CREEK AT CARPENTERSVILLE, NJ--Continued WATER QUALITY DATA, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

DATE	TIME	ALUM- INUM, DIS- SOLVED (UG/L AS AL)	ARSENIC TOTAL (UG/L AS AS)	BERYL- LIUM, TOTAL RECOV- ERABLE (UG/L AS BE)	BORON, TOTAL RECOV- ERABLE (UG/L AS B)	CADMIUM TOTAL RECOV- ERABLE (UG/L AS CD)	CHRO- MIUM, TOTAL RECOV- ERABLE (UG/L AS CR)	COPPER, TOTAL RECOV- ERABLE (UG/L AS CU)
OCT								
02 JUN	1030	50	1	10	30	0	10	8
03	1230	0	1.	0	30	0	<10	2
DATE	IRON, TOTAL RECOV- ERABLE (UG/L AS FE)	LEAD, TOTAL RECOV- ERABLE (UG/L AS PB)	MANGA- NESE, TOTAL RECOV- ERABLE (UG/L AS MN)	MERCURY TOTAL RECOV- ERABLE (UG/L AS HG)	NICKEL, TOTAL RECOV- ERABLE (UG/L AS NI)	SELE- NIUM, TOTAL (UG/L AS SE)	ZINC, TOTAL RECOV- ERABLE (UG/L AS ZN)	PHENOLS (UG/L)
OCT				70.720	120		- 22	
02 JUN	1800	10	70	<.5	3	0	10	1
03	570	4	40	.9	1	0	10	

01455500 MUSCONETCONG RIVER AT OUTLET OF LAKE HOPATCONG, NJ

LOCATION.--Lat 40°55'00", long 74°39'55", Morris County, Hydrologic Unit 02040105, just upstream of bridge on Warren County Route 43 and 300 ft (91 m) downstream from Lake Hopatoong dam in Landing.

DRAINAGE AREA. -- 25.6 mi2 (66.3 km2).

WATER-QUALITY RECORDS

PERIOD OF RECORD .-- Water years 1962, 1976 to current year.

COOPERATION.--Field data 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 water-phase nutrients were performed by the New Jersey Department of Health, Division of Laboratories and Epidemiology.

WATER QUALITY DATA, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

SPF-

DATE	TIME	FL INS TAN		SPE- CIFIC CON- DUCT- ANCE MICRO- MHOS)	P FIE (UNI		AT WA	PER- URE, TER G C)	SO	GEN, IS- LVED G/L)	DEM BIO UNI 5	GEN AND, CHEM NHIB DAY /L)	FO FE E BR	LI- RM, CAL, C OTH PN)	STI TOCO FEO	CAL	HAR NES (MG AS	S /L
OCT 09	1040	1	10	202		8.2		14.5		9.5		2.0		<20		2		45
FEB 27	0930		13	243		7.4		4.0		12.8				<20		<2		54
APR												177						49
21 JUN	1015		95	228		7.9		12.0		10.6		1.2		<20		2		
JUL JUL	1140		40	203		7.5		20.0		8.5		1.3		20		48		46
15 AUG	1115		80	230		7.6		24.0		8.5		<1.1		<20		<2		52
13 SEP	0930		9.6	197				19.0		8.4		<.4		80		27		50
30	1250		9.6	215		7.4		17.0		14.0		E.2		<20		14		50
DATE	(MG	VED	MAGNE SIUM DIS- SOLVE (MG/L AS MC	DISCOURSE OF SOLVE	ED	POTA SIU DIS SOLV (MG/ AS H	UM, S- VED /L	ALK LINI (MG AS CAC	TY /L	SULF TOT (MG AS	AL /L	SULFA DIS- SOLV (MG/ AS SO	ED L	CHLO RID DIS SOL (MG AS	E, VED /L	FLUC RIDI DIS SOL' (MG	E, S- VED /L	
OCT 09	. 1	2	3.	7 1	7		.9		17		.0	10)	3	8		.1	
FEB 27		4	4.	5 2	20		1.1		33			19)	3	9		.1	
A PR 21		3	3.		7		1.1		23			16		3			.1	
JUN 04		2	3.		8		.7		20		. 1	14		3			.1	
JUL 15		4	4.		8		1.0		32			13		3			. 1	
AUG 13		3.	4.		8		.9		33			12		3			.1	
SEP 30		3	4.		18		1.0		29			12		3			.1	
30		3		3					- >			1866	Line	,				
DATE	SILI DIS SOL (MG AS	VED	SOLIDS RESIDU AT 180 DEG. DIS- SOLVE (MG/L	DÉ NITO GE C NO2-	CAL G/L	NITE GEI AMMON TOTA (MG/ AS N	N, NIA AL /L	NIT GE ORGA TOT (MG AS	N, NIC AL /L	NITR GEN, MONI ORGA TOT (MG AS	AM- A + NIC AL /L	NITE GEN TOTA (MG/ AS N	I, L	PHOR PHOR ORTHO OSPH TOT (MG AS PO	US, OPH ATE AL /L	CARBO ORGAL TOTA (MG.	NIĆ AL /L	
OCT																		
FEB .		3.0	11		1.0	• :	300		. 27		.57				.01		5.5	
27 A PR		.6	13	88	• 35	E.	060				. 39		74	<	.01	19	4.7	
21 JUN	•	• 3	12	26	. 26	• 3	200		. 35		. 55		. 81		. 03		4.5	
04 JUL		. 7	11	13	. 15	. (090		. 43		. 52		67		.08		4.3	
15 AUG	•	1.0	12	28	.06		100		. 52		. 62		68		. 12		3.5	
13 SEP		3.0	13	33	.05	. (080		. 52		.60				. 09		3.7	
30		2.8	11	16	.05		120		. 74		. 86				. 09		5.6	

DELAWARE RIVER BASIN

01455500 MUSCONETCONG RIVER AT OUTLET OF LAKE HOPATCONG, NJ--Continued WATER QUALITY DATA, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

DATE	TIME	ALUM- INUM, DIS- SOLVED (UG/L AS AL)	ARSENIC TOTAL (UG/L AS AS)	BERYL- LIUM, TOTAL RECOV- ERABLE (UG/L AS BE)	BORON, TOTAL RECOV- ERABLE (UG/L AS B)	CADMIUM TOTAL RECOV- ERABLE (UG/L AS CD)	CHRO-MIUM, TOTAL RECOV-ERABLE (UG/L AS CR)	COPPER, TOTAL RECOV- ERABLE (UG/L AS CU)
OCT	****				- 1			
09 JUN	1040	50	1	0	30	0	10	3
04	1140	0	1	0	30	0	10	1
DATE	IRON, TOTAL RECOV- ERABLE (UG/L AS FE)	LEAD, TOTAL RECOV- ERABLE (UG/L AS PB)	MANGA- NESE, TOTAL RECOV- ERABLE (UG/L AS MN)	MERCURY TOTAL RECOV- ERABLE (UG/L AS HG)	NICKEL, TOTAL RECOV- ERABLE (UG/L AS NI)	SELE- NIUM, TOTAL (UG/L AS SE)	ZINC, TOTAL RECOV- ERABLE (UG/L AS ZN)	PHENOLS (UG/L)
OCT 09	60	2	10	<.5	1	0	10	0
JUN 04	160	2	50	.2	1	0	0	2

01455801 MUSCONETCONG RIVER AT LOCKWOOD, NJ

LOCATION.--Lat 40°55'10", long 74°44'07", Sussex County, Hydrologic Unit 02040105, at bridge in Lockwood, at boundary between Sussex County and Morris County, 0.2 mi (0.4 km) southeast of Cage Hill, 0.4 mi (0.7 km) south of Jefferson Lake, and 0.9 mi (1.4 km) downstream from Lubbers Run.

DRAINAGE AREA .-- 60.5 mi2 (156.7 km2).

WATER-QUALITY RECORDS

PERIOD OF RECORD .-- Water years 1976 to current year.

COOPERATION. -- Field data 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 water-phase nutrients were performed by the New Jersey Department of Health, Division of Laboratories and Epidemiology.

WATER QUALITY DATA, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

DATE	TIME	STREAM- FLOW, INSTAN- TANEOUS (CFS)	SPE- CIFI CON- DUCT ANCE (MICR MHOS	C - O- FI	PH	EMPER- ATURE, WATER DEG C)	SOL	EN, S- VED	OXYGEN DEMAND, BIOCHEM UNINHIB 5 DAY (MG/L)	FOR	AĹ,	STRE TOCOC FECA (MPN	P- CI L	HARD- NESS (MG/L AS CACO3)	
OCT 09	1245	216		30	8.0	14.0		9.6	2.0		20	16	00	65	
FEB												10			
28 APR	0900		3	32	7.8	.5	1	2.7	E1.4		50		2	95	
21 JUN	1300	222	2	16	7.9	15.5	1	0.8	2.3		<20		24	59	
04	1040	96	2	57	7.4	19.0		8.4	2.3		490	3	50	72	
JUL 15	1100	22	3	70	7.4	20.0		7.4	E1.3		230		70	120	
AUG 13	1045	22	3	49	7.6	15.0		9.3	<.1		110		40	120	
30	1140	25	3	50	6.9	15.0		9.0	E. 1		170	1	70	100	
DATE	CALC: DIS- SOL: (MG, AS	IUM SI - DI VED SOL /L (MG	S- VED S	ODIUM, DIS- OLVED (MG/L AS NA)	POTAS SIUM DIS- SOLVE (MG/L AS K)	, ALK LINI D (MC AS	TY /L	SULFI TOTA (MG/ AS S	L SOL L (MG	- VED /L	CHLO RIDE DIS- SOLV (MG/ AS C	ED L	FLUO- RIDE, DIS- SOLVE (MG/L AS F)	D	
OCT															
09 FEB	. 1'	1	5.4	19	1.	1	37		.0 1	1	39			1	
28 APR	. 2	4	8.5	20	1.	4	65		2	2	39			1	
21	. 19	5	5.2	16	1.	1	32		1	8	30			1	
JUN 04	11	В	6.5	16	1.	0	46		1	5	31			1	
JUL 15	2	9 1	1	20	1.	0	84		1	7	39			1	
AUG			1	22	2.		94			8	41				
13 SEP			1/								1			2	
30	. 2	4	0	23	1.	8	68		1	4	42			2	
DATE	SILIO DIS- SOL (MG, AS SIO	- AT 1 VED DEC /L DI SOL	DUE 80 G. C N S- VED	NITRO- GEN, O2+NO3 TOTAL (MG/L AS N)	NITRO GEN, AMMONI TOTAL (MG/L AS N)	GE A ORGA TOT (MC	N, NIC AL	NITRO GEN, A MONIA ORGAN TOTA (MG/ AS N	M- + NIT IC GE L TOT L (MG	N, AL /L	PHOS PHORU ORTHO OSPHA TOTA (MG/ AS PO	S, PH C TE O L	ARBON RGANI TOTAL (MG/L AS C)	ć	
OCT															
09 FEB		5.3	131	<1.0	. 34	0	. 29		63			17	3.	8	
28 A PR		5.8	184	. 55	.82	0	.58	1.	4 2	.0		51	3.	6	
21		2.8	128	. 26	. 19	0	. 41		60	. 86		13	4.	4	
JUN 04		5.6	134	. 44	. 14	0	.57		71 1	. 2		17	5.	2	
JUL 15		8.6	204	1.4	. 27	0	.61		88 2	.3	1.	3	4.	5	
AUG 13	. 1	1	235	1.2	. 16	0	.63		79 2	.0		98	3.	5	
SEP		6.6													

91 DELAWARE RIVER BASIN 01455801 MUSCONETCONG RIVER AT LOCKWOOD, NJ--Continued

		W.1.1.	. WOULDELLE	Dain, was	LK ILAK C	OTODER 13	,,, 10 001	TUINDUM 13	.00		
DATE	TIME	NITRO- GEN, NH4 + ORG. TOT IN BOT MAT (MG/KG AS N)	CARBON, INOR- GANIC, TOT IN BOT MAT (G/KG AS C)	CARBON, INORG + ORGANIC TOT. IN BOT MAT (G/KG AS C)	ALUM- INUM, DIS- SOLVED (UG/L AS AL)	ARSENIC TOTAL (UG/L AS AS)	ARSENIC TOTAL IN BOT- TOM MA- TERIAL (UG/G AS AS)	BERYL- LIUM, TOTAL RECOV- ERABLE (UG/L AS BE)	BORON, TOTAL RECOV- ERABLE (UG/L AS B)	CADMIUM TOTAL RECOV- ERABLE (UG/L AS CD)	CADMIUM RECOV. FM BOT- TOM MA- TERIAL (UG/G AS CD)
00T 09 SEP	1245				40	1	0	0	40	0	<10
30	1140	1700	• 3	16			0				<10
DATE	CHRO-MIUM, TOTAL RECOV- ERABLE (UG/L AS CR)	CHRO-MIUM, RECOV. FM BOT-TOM MA-TERIAL (UG/G)	COBALT, RECOV. FM BOT- TOM MA- TERIAL (UG/G AS CO)	COPPER, TOTAL RECOV- ERABLE (UG/L AS CU)	COPPER, RECOV. FM BOT- TOM MA- TERIAL (UG/G AS CU)	IRON, TOTAL RECOV- ERABLE (UG/L AS FE)	IRON, RECOV. FM BOT- TOM MA- TERIAL (UG/G AS FE)	LEAD, TOTAL RECOV- ERABLE (UG/L AS PB)	LEAD, RECOV. FM BOT- TOM MA- TERIAL (UG/G AS PB)	MANGA- NESE, TOTAL RECOV- ERABLE (UG/L AS MN)	MANGA- NESE, RECOV. FM BOT- TOM MA- TERIAL (UG/G)
OCT 09	10	<10	22	2	<10	210	7900	3	<10	30	370
SEP 30	24	20	<10		40		8500		270		300
30		20	(10	- 3	40		8500	-	210		300
DATE	MERCURY TOTAL RECOV- ERABLE (UG/L AS HG)	MERCURY RECOV. FM BOT- TOM MA- TERIAL (UG/G AS HG)	NICKEL, TOTAL RECOV- ERABLE (UG/L AS NI)	NICKEL, RECOV. FM BOT- TOM MA- TERIAL (UG/G AS NI)	SELE- NIUM, TOTAL (UG/L AS SE)	SELE- NIUM, TOTAL IN BOT- TOM MA- TERIAL (UG/G)	ZINC, TOTAL RECOV- ERABLE (UG/L AS ZN)	ZINC, RECOV. FM BOT- TOM MA- TERIAL (UG/G AS ZN)	PHENOLS (UG/L)	PCB, TOTAL IN BOT- TOM MA- TERIAL (UG/KG)	PCN, TOTAL IN BOT- TOM MA- TERIAL (UG/KG)
OCT											
09 SEP	<.5	.00	1		0	0	20	40	0	1	.0
30		.00		<10		0		193		71	.0
DATE	ALDRIN, TOTAL IN BOT- TOM MA- TERIAL (UG/KG)	CHLOR-DANE, TOTAL IN BOT- TOM MA- TERIAL (UG/KG)	DDD, TOTAL IN BOT- TOM MA- TERIAL (UG/KG)	DDE, TOTAL IN BOT- TOM MA- TERIAL (UG/KG)	DDT, TOTAL IN BOT- TOM MA- TERIAL (UG/KG)	DI- AZINON, TOTAL IN BOT- TOM MA- TERIAL (UG/KG)	DI- ELDRIN, TOTAL IN BOT- TOM MA- TERIAL (UG/KG)	ENDO- SULFAN, TOTAL IN BOT- TOM MA- TERIAL (UG/KG)	ENDRIN, TOTAL IN BOT- TOM MA- TERIAL (UG/KG)	ETHION, TOTAL IN BOT- TOM MA- TERIAL (UG/KG)	HEPTA- CHLOR, TOTAL IN BOT- TOM MA- TERIAL (UG/KG)
OCT 09 SEP	.0	0	.0	.0	.0	.0	.0	.0	.0	.0	.0
30	.0	15	6.0	6.2	11	.0	. 4	.0	.0	.0	.0
DATE	HEPTA- CHLOR EPOXIDE TOT. IN BOTTOM MATL. (UG/KG)	LINDANE TOTAL IN BOT- TOM MA- TERIAL (UG/KG)	MALA- THION, TOTAL IN BOT- TOM MA- TERIAL (UG/KG)	METH- OXY- CHLOR, TOT. IN BOTTOM MATL. (UG/KG)	METHYL PARA- THION, TOT. IN BOTTOM MATL. (UG/KG)	METHYL TRI- THION, TOT. IN BOTTOM MATL. (UG/KG)	MIREX, TOTAL IN BOT- TOM MA- TERIAL (UG/KG)	PARA- THION, TOTAL IN BOT- TOM MA- TERIAL (UG/KG)	PER- THANE IN BOTTOM MATERIL (UG/KG)	TOXA- PHENE, TOTAL IN BOT- TOM MA- TERIAL (UG/KG)	TRI- THION, TOTAL IN BOT- TOM MA- TERIAL (UG/KG)
OCT	36						14			42	
09 SEP	.0	. 0	.0	.0	.0	.0	.0	.0	.00	0	.0
30	.0	.0	.0	.0	.0	.0	.0	.0	.00	0	.0

01456200 MUSCONETCONG RIVER AT BEATYESTOWN, NJ

LOCATION.--Lat 40°48'48", long 74°50'32", Warren County, Hydrologic Unit 02040105, at bridge at Beatyestown, 1.6 mi (2.6 km) upstream of Hanes Brook, 2.1 mi (3.4 km) northeast of Stephensburg, and 3.5 mi (5.7 km) northeast of Scrappy Corner.

DRAINAGE AREA. -- 90.7 mi2 (234.9 km2).

WATER-QUALITY RECORDS

PERIOD OF RECORD. -- Water years 1976 to current year.

COOPERATION.--Field data 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 water-phase nutrients were performed by the New Jersey Department of Health, Division of Laboratories and Epidemiology.

WATER QUALITY DATA, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

			SPE- CIFIC					OXY		OLI-			
		STREAM- FLOW, INSTAN- TANEOUS	CON- DUCT- ANCE (MICRO-	PH FIELD	AT	PER- URE, TER	DIS- SOLVED	BIO	CHEM F	FECAL, EC BROTH	STR TOCO FEC	EP- I	HARD- NESS (MG/L AS
DATE	IIME .	(CFS)	MHOS)	(UNITS)		G C)	(MG/L)			MPN)	(MP		CACO3)
OCT 11	1030	380	230	7.6		10.0	10.2		1.0	80		230	79
MAR 06 MAY	1000	91	340	7.8		3.0	12.4		<.1	20		2	120
08 JUN	1145	285	239	8.1		16.0	9.8		<1.3	700		33	87
04 JUL	0930	200	279	7.5	٠	18.0	8.9		1.6	490		350	99
15 AUG	0940	53	380	7.7		19.5	8.5		<.1	170		79	150
13 SEP	1215		390	8.0		15.0	9.3		<.1	790		49	150
30	0940	E22	420	7.6		14.0	8.8		E.7	50		140	160
DATE	CALCION DIS- SOLVION (MG/I	DIS ED SOLV	JM, SODI S- DIS VED SOLV /L (MG	UM, SI - DI ED SOL /L (MG		ALKA LINIT (MG/ AS CACO	Y SULF L TOT (MC	TAL G/L	SULFATE DIS- SOLVEI (MG/L AS SO4)	DIS SOL (MG	E, VED /L	FLUO- RIDE, DIS- SOLVEI (MG/L AS F)	
ОСТ													
MAR			7.6 1		1.2		53	.0	15	2		•	
06 MAY			2 1		1.4		95	-	22	3			
08 JUN			9.0 1		1.0		55		17	2		•	
JUL		10			1.3		72		16	2			
15 AUG		15			1.4		20		17	2			
13 SEP			or 1		1.8		20		20	2			
30	. 36	16	5 1	9	2.1	-1	20	.0	16	3	3		
DATE	SILICA DIS- SOLVI (MG/I AS SIO2	AT 18 ED DEG. DIS SOLV	OUÉ NIT BO GE C NO2+ S- TOT VED (MG	N, GE NO3 AMMO AL TOT /L (MG	NIA AL /L	NITR GEN ORGAN TOTA (MG/ AS N	MONIC ORGAL TOTAL	AM- IA + ANIC TAL G/L	NITRO- GEN, TOTAL (MG/L AS N)	PHOS PHOR ORTHO OSPH TOTA (MG AS PO	US, OPH ATE AL	CARBON, ORGANIC TOTAL (MG/L AS C)	
OCT	3102	(Ma)	L) AS	N) AS	N)	AS N	, но	N)	AS N)	AS I	,	NO C)	
11 MAR	. 8	. 0	134 <1	.0 1.	320		30	1.6	-		. 27	2.	7
06 MAY	. 5	. 0	191	. 88	410		59	1.1	1.9		. 63	2.	9
08 JUN	. 5	. 6	136	. 49 .	170		61	.78	1.3		. 43	4.	9
04 JUL	. 7	• 3	163	. 85	120		56	. 68	1.5		. 32	3.	9
15 AUG	. 8	. 6	226 1	. 2	250		49	.74	1.9		. 89	11	
13 SEP	. 10	2	241 1	. 2	090		56	. 65	1.8		. 92	-	
30	. 9	.0	228 1	.3 .	590		81	1.4	2.7	1	. 3	4.	3

01456200 MUSCONETCONG RIVER AT BEATYESTOWN, NJ--Continued

DATE	TIME	ALUM- INUM, DIS- SOLVED (UG/L AS AL)	ARSENIC TOTAL (UG/L AS AS)	ARSENIC TOTAL IN BOT- TOM MA- TERIAL (UG/G AS AS)	BERYL- LIUM, TOTAL RECOV- ERABLE (UG/L AS BE)	BORON, TOTAL RECOV- ERABLE (UG/L AS B)	CADMIUM TOTAL RECOV- ERABLE (UG/L AS CD)	CADMIUM RECOV. FM BOT- TOM MA- TERIAL (UG/G AS CD)	CHRO-MIUM, TOTAL RECOV- ERABLE (UG/L AS CR)	CHRO-MIUM, RECOV. FM BOT-TOM MA-TERIAL (UG/G)
OCT 11 SEP	1030	40	2	0	0	40	0	<10	20	<10
30	0940	20	1		0	50	0		20	
DATE	COPPER, TOTAL RECOV- ERABLE (UG/L AS CU)	COPPER, RECOV. FM BOT- TOM MA- TERIAL (UG/G AS CU)	IRON, TOTAL RECOV- ERABLE (UG/L AS FE)	IRON, RECOV. FM BOT- TOM MA- TERIAL (UG/G AS FE)	LEAD, TOTAL RECOV- ERABLE (UG/L AS PB)	LEAD, RECOV. FM BOT- TOM MA- TERIAL (UG/G AS PB)	MANGA- NESE, TOTAL RECOV- ERABLE (UG/L AS MN)	MANGA- NESE, RECOV. FM BOT- TOM MA- TERIAL (UG/G)	MERCURY TOTAL RECOV- ERABLE (UG/L AS HG)	MERCURY RECOV. FM BOT- TOM MA- TERIAL (UG/G AS HG)
OCT 11	4	<10	300	7500	2	10	20	330	.2	.00
30	4	144	160		1		20		. 1	
DATE	NICKEL, TOTAL RECOV- ERABLE (UG/L AS NI)	SELE- NIUM, TOTAL (UG/L AS SE)	SELE- NIUM, TOTAL IN BOT- TOM MA- TERIAL (UG/G)	ZINC, TOTAL RECOV- ERABLE (UG/L AS ZN)	ZINC, RECOV. FM BOT- TOM MA- TERIAL (UG/G AS ZN)	PHENOLS (UG/L)	PCB, TOTAL IN BOT- TOM MA- TERIAL (UG/KG)	PCN, TOTAL IN BOT- TOM MA- TERIAL (UG/KG)	ALDRIN, TOTAL IN BOT- TOM MA- TERIAL (UG/KG)	CHLOR-DANE, TOTAL IN BOT- TOM MA- TERIAL (UG/KG)
OCT	22				2.2	4				
11 SEP 30	99	0	0	30	40	1	8	.0	.0	5
30		U		20		35.		-	- 55	- 572
DATE	DDD, TOTAL IN BOT- TOM MA- TERIAL (UG/KG)	DDE, TOTAL IN BOT- TOM MA- TERIAL (UG/KG)	DDT, TOTAL IN BOT- TOM MA- TERIAL (UG/KG)	DI- AZINON, TOTAL IN BOT- TOM MA- TERIAL (UG/KG)	DI- ELDRIN, TOTAL IN BOT- TOM MA- TERIAL (UG/KG)	ENDO- SULFAN, TOTAL IN BOT- TOM MA- TERIAL (UG/KG)	ENDRIN, TOTAL IN BOT- TOM MA- TERIAL (UG/KG)	ETHION, TOTAL IN BOT- TOM MA- TERIAL (UG/KG)	HEPTA- CHLOR, TOTAL IN BOT- TOM MA- TERIAL (UG/KG)	HEPTA- CHLOR EPOXIDE TOT. IN BOTTOM MATL. (UG/KG)
OCT 11	.2	.9	.0	. 4	.0	.0	.0	.0	.0	.0
SEP 30										
DATE	LINDANE TOTAL IN BOT- TOM MA- TERIAL (UG/KG)	MALA- THION, TOTAL IN BOT- TOM MA- TERIAL (UG/KG)	METH- OXY- CHLOR, TOT. IN BOTTOM MATL. (UG/KG)	METHYL PARA- THION, TOT. IN BOTTOM MATL. (UG/KG)	METHYL TRI- THION, TOT. IN BOTTOM MATL. (UG/KG)	MIREX, TOTAL IN BOT- TOM MA- TERIAL (UG/KG)	PARA- THION, TOTAL IN BOT- TOM MA- TERIAL (UG/KG)	PER- THANE IN BOTTOM MATERIL (UG/KG)	TOXA- PHENE, TOTAL IN BOT- TOM MA- TERIAL (UG/KG)	TRI- THION, TOTAL IN BOT- TOM MA- TERIAL (UG/KG)
OCT 11	.0	.0	.0	.0	.0	.0	.0	.00	0	.0
SEP 30				-1-						

01457000 MUSCONETCONG RIVER NEAR BLOOMSBURY, NJ

LOCATION.--Lat 40°40'20", long 75°03'40", Warren County, Hydrologic Unit 02040105, on right bank just downstream from highway bridge, 1.5 mi (2.4 km) upstream from Bloomsbury, and 9.5 mi (15.3 km) upstream from mouth.

DRAINAGE AREA . -- 143 mi2 (370 km2).

WATER-DISCHARGE RECORDS

PERIOD OF RECORD. -- July 1903 to March 1907, July 1921 to current year.

REVISED RECORDS.--WSP 521: Drainage area. WSP 1051: 1944-45. WSP 1382: 1904-06, 1922, 1923-29(M), 1931(M), 1933-34(M), 1936(M), 1940, 1942(M), 1944-45(M), 1951-52(M).

GAGE.--Water-stage recorder. Concrete control since Sept. 29, 1932. Datum of gage is 274.83 ft (83.768 m) National Geodetic Vertical Datum of 1929. July 1903 to Mar. 31, 1907, nonrecording gage at bridge 15 ft (4.6 m) upstream at different datum. July 26 to Sept. 12, 1921, nonrecording gage at bridge at present datum.

REMARKS.--Water-discharge records good. Flow regulated by Lake Hopatcong (see Delaware River Basin, reservoirs in). Diurnal fluctuation caused by small powerplants above station.

AVERAGE DISCHARGE. -- 62 years (water years 1904-06, 1922-80), 234 ft3/s (6.627 m3/s), unadjusted.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 7,200 ft³/s (204 m³/s) Jan. 25, 1903, gage height, 8.50 ft (2.591 m) from floodmark, from rating curve extended above 1,800 ft³/s (51.0 m³/s) on basis of slope-area measurement at gage height 6.95 ft (2.118 m); minimum, 8.1 ft³/s (0.23 m³/s) Aug. 2, 1955; minimum daily 27 ft³/s (0.76 m³/s) Sept. 8, 1966.

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 /		height (m)	Date		Time	Discha (ft3/s)		Gage h	eight (m)
Oct. 5 Mar. 21	2230 2215	1090 30 *1930 54	.9 3.72 .7 4.89		Apr.	10	0700	1020	28.9	3.60	1.097

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

Minimum discharge, 51 ft3/s (1.44 m3/s) Sept. 15, gage height, 1.18 ft (0.360 m).

	MEÁN VALUES													
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP		
1	323	175	462	256	154	118	681	689	232	140	88	61		
2	422	200	440	251	167	125	671	626	214	118	99	62		
3	434	597	415	245	157	114	624	557	226	109	121	62		
4	439	596	400	228	137	118	709	504	268	105	115	61		
5	531	497	397	197	136	119	681	463	229	108	110	60		
6 7 8 9	606 486 430 386 443	444 417 398 380 424	394 468 408 350 307	179 175 172 166 157	133 132 131 132 131	122 121 127 148 137	615 567 533 717 978	425 391 386 367 339	198 184 186 191 211	217 170 126 110 103	148 102 92 85 80	61 62 61 60 59		
11	477	435	245	209	130	182	874	320	193	104	78	57		
12	452	469	226	487	129	162	776	378	175	117	87	56		
13	428	435	256	361	126	142	693	549	162	97	79	55		
14	392	428	298	282	126	151	692	441	153	93	77	55		
15	359	403	265	272	126	155	774	373	147	90	82	57		
16	326	409	248	283	136	143	682	335	141	89	78	58		
17	288	401	262	287	131	174	608	306	134	95	75	61		
18	238	396	240	306	127	620	555	291	128	96	72	79		
19	220	386	227	337	131	454	510	290	124	92	72	81		
20	208	379	225	316	130	346	474	281	126	86	71	68		
21	204	374	214	295	135	863	437	301	118	86	70	66		
22	203	373	224	283	147	1270	400	291	114	89	70	68		
23	199	363	244	277	167	938	374	264	113	101	69	63		
24	200	355	274	253	166	735	346	245	110	101	67	61		
25	196	356	367	234	158	821	329	235	108	95	66	61		
26 27 28 29 30 31	186 176 189 205 192 181	546 727 583 501 475	383 331 299 285 277 266	208 193 191 182 161 151	146 136 133 124	681 574 502 521 515 592	315 317 501 721 759	219 203 193 181 168 167	104 103 100 101 166	89 86 83 105 113 92	65 64 63 62 63 61	63 59 58 58 59		
TOTAL	10019	12922	9697	7594	4014	11790	17913	10778	4759	3305	2531	1852		
MEAN	323	431	313	245	138	380	597	348	159	107	81.6	61.7		
MAX	606	727	468	487	167	1270	978	689	268	217	148	81		
MIN	176	175	214	151	124	114	315	167	100	83	61	55		

CAL YR 1979 TOTAL 141432 MEAN 387 MAX 3000 MIN 82 WTR YR 1980 TOTAL 97174 MEAN 266 MAX 1270 MIN 55

01457400 MUSCONETCONG RIVER AT RIEGELSVILLE, NJ

LOCATION.--Lat 40°35'32", long 75°11'20", Warren County, Hydrologic Unit 02040105, at bridge on State Highway 13 in Riegelsville, 0.2 mi (0.3 km) north of Mount Joy, and 0.2 mi (0.3 km) upstream from mouth.

DRAINAGE AREA. -- 156 mi2 (404 km2).

WATER-QUALITY RECORDS

PERIOD OF RECORD. -- Water years 1962, 1976 to current year.

COOPERATION.--Field data 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 water-phase nutrients were performed by the New Jersey Department of Health, Division of Laboratories and Epidemiology.

WATER QUALITY DATA, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

DATE	TIME	SPE- CIFIC CON- DUCT- ANCE (MICRO- MHOS)	PH FIELD (UNITS)	TEMPER- ATURE, WATER (DEG C)	OXYGEN, DIS- SOLVED (MG/L)	OXYGEN DEMAND, BIOCHEM UNINHIB 5 DAY (MG/L)	COLI- FORM, FECAL, EC BROTH (MPN)	STREP- TOCOCCI FECAL (MPN)	HARD- NESS (MG/L AS CACO3)
OCT 02	1220	210	7.8	16.0	9.6		16000	>2400	80
MAR 06	1145	360	8.0	4.5	12.8	<.1	50	13	130
APR 02	1200	255	7.5	7.0	12.5	E1.5	110	23	79
JUN 03	1315	301	7.2	20.0	8.0	1.9	330	170	120
JUL									-
15 AUG	1300	340	8.3	22.5	9.3	<.1	790	540	150
19 SEP	1215	336	8.3	19.0	8.1	E1.9	130	240	
30	1300	365	8.2	15.0	9.8	E.3	230	130	160
DATE	CALCIUM DIS- SOLVED (MG/L AS CA)	MAGNE- SIUM, DIS- SOLVED (MG/L AS MG)	SODIUM, DIS- SOLVED (MG/L AS NA)	POTAS- SIUM, DIS- SOLVED (MG/L AS K)	ALKA- LINITY (MG/L AS CACO3)	SULFIDE TOTAL (MG/L AS S)	SULFATE DIS- SOLVED (MG/L AS SO4)	CHLO- RIDE, DIS- SOLVED (MG/L AS CL)	FLUO- RIDE, DIS- SOLVED (MG/L AS F)
OCT 02	19	7.9	9.2	1.7	54		15	15	.1
MAR 06	29	15	12		100		24	. 22	
APR				1.4					. 1
02 JUN	18	8.2	14	1.2	58		18	26	. 1
03 JUL	25	13	11	1.2	90	. 1	20	17	. 1
15 AUG	33	16	8.9	1.6	120		19	17	.1
19 SEP									
30	36	18	10	1.7	130	.0	19	19	. 1
DATE	SILICA, DIS- SOLVED (MG/L AS SIO2)	SOLIDS, RESIDUE AT 180 DEG. C DIS- SOLVED (MG/L)	NITRO- GEN, NO2+NO3 TOTAL (MG/L AS N)	NITRO- GEN, AMMONIA TOTAL (MG/L AS N)	NITRO- GEN, ORGANIC TOTAL (MG/L AS N)	NITRO- GEN, AM- MONIA + ORGANIC TOTAL (MG/L AS N)	NITRO- GEN, TOTAL (MG/L AS N)	PHOS- PHORUS, ORTHOPH OSPHATE TOTAL (MG/L AS PO4)	CARBON, ORGANIC TOTAL (MG/L AS C)
OCT 02	8.7	128	<1.0	.200	25	li E		.62	F 6
MAR 06	4.3	191			. 25	. 45	2 2		5.6
APR			1.9	. 120	1.3	1.4	3.2	. 12	3.8
02 JUN	7.7	151	1.2	.030	. 63	.66	1.9	.20	2.3
03 JUL	8.4		1.8	. 300	2.7	3.0	4.8	. 18	3.9
15 AUG	8.1	224	2.2	. 130	.50	.63	2.8	. 25	2.2
19 SEP			2.2	<.030		1.0	3.2	.21	1.1
30	7.9	207	2.3	. 160	.54	.70	3.0	.21	2.8

DELAWARE RIVER BASIN

01457400 MUSCONETCONG RIVER AT RIEGELSVILLE, NJ--Continued WATER QUALITY DATA, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

DATE	TIME	ALUM- INUM, DIS- SOLVED (UG/L AS AL)	ARSENIC TOTAL (UG/L AS AS)	BERYL- LIUM, TOTAL RECOV- ERABLE (UG/L AS BE)	BORON, TOTAL RECOV- ERABLE (UG/L AS B)	CADMIUM TOTAL RECOV- ERABLE (UG/L AS CD)	CHRO-MIUM, TOTAL RECOV- ERABLE (UG/L AS CR)	COPPER, TOTAL RECOV- ERABLE (UG/L AS CU)
JUN								
03 SEP	1315	7.0	1	0	30	1	10	9
30	1300	10	1	0	10	0	10	2
DATE	IRON, TOTAL RECOV- ERABLE (UG/L AS FE)	LEAD, TOTAL RECOV- ERABLE (UG/L AS PB)	MANGA- NESE, TOTAL RECOV- ERABLE (UG/L AS MN)	MERCURY TOTAL RECOV- ERABLE (UG/L AS HG)	NICKEL, TOTAL RECOV- ERABLE (UG/L AS NI)	SELE- NIUM, TOTAL (UG/L AS SE)	ZINC, TOTAL RECOV- ERABLE (UG/L AS ZN)	PHENOLS
JUN	,	NO 12)	no my	AD IIG	AD NI,	NO DE	AD ZN,	(00/1)
03 SEP	4100	6	270	<.1	10	0	30	0
30	270	3	30	.2	3	0	10	6

01458100 HAKIHOKAKE CREEK AT MILFORD, NJ LOCATION.--Lat 40°34'06", long 75°05'44", Hunterdon County, Hydrologic Unit 02040105, at bridge on Bridge Street at Milford, and 4,000 ft (1,220 m) upstream from mouth.

DRAINAGE AREA. -- 17.2 mi2 (44.5 km2).

WATER-QUALITY RECORDS

PERIOD OF RECORD. -- Water years 1959-62, 1976 to current year.

COOPERATION.--Field data 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 water-phase nutrients were performed by the New Jersey Department of Health, Division of Laboratories and Epidemiology.

DATE	TIME	STREAM- FLOW, INSTAN- TANEOUS (CFS)	SPE- CIFIC CON- DUCT- ANCE (MICRO- MHOS)	PH FIELD (UNITS)	TEMPER- ATURE, WATER (DEG C)	OXYGEN, DIS- SOLVED (MG/L)	OXYGEN DEMAND, BIOCHEM UNINHIB 5 DAY (MG/L)	COLI- FORM, FECAL, EC BROTH (MPN)	STREP- TOCOCCI FECAL (MPN)
OCT									
02 FEB	1345		188	7.6	15.5	9.8		1800	>2400
13 APR	0915		246	7.9	.0	14.4	344	210	7
28	1030	71	165	8.3	9.5	10.4	2.3	1300	1600
JUN 04	0930	20	208	8.0	17.0	8.0		1300	>2400
JUL 21	1000		315	8.3	24.0	5.3	E2.8	1300	>2400
AUG 20	0920	80	265		18.5	9.3	E1.1	9200	>2400
20	0920	00	205	-	10.5	9.3	E I . I	9200	72400
DATE	HARD- NESS (MG/L AS CACO3)	CALCIUM DIS- SOLVED (MG/L AS CA)	MAGNE- SIUM, DIS- SOLVED (MG/L AS MG)	SODIUM, DIS- SOLVED (MG/L AS NA)	POTAS- SIUM, DIS- SOLVED (MG/L AS K)	ALKA- LINITY (MG/L AS CACO3)	SULFATE DIS- SOLVED (MG/L AS SO4)	CHLO- RIDE, DIS- SOLVED (MG/L AS CL)	FLUO- RIDE, DIS- SOLVED (MG/L AS F)
OCT 02 FEB	71	19	5.6	7.4	1.7	44	23	9.2	.1
13	91	23	8.2	6.8	1.1	60	24	8.8	.1
APR 28	58	15	4.9	8.8	1.7	44	22	10	. 1
JUN 04	72	18	6.6	7.3	1.3	49	22	9.4	.1
JUL 21	100	25	10	7.1	1.4	81	23	7.8	.1
AUG						-			
20	110	26	11	7.7	2.3	81	27	9.6	.2
DATE	SILICA, DIS- SOLVED (MG/L AS SIO2)	SOLIDS, RESIDUE AT 180 DEG. C DIS- SOLVED (MG/L)	NITRO- GEN, NO2+NO3 TOTAL (MG/L AS N)	NITRO- GEN, AMMONIA TOTAL (MG/L AS N)	NITRO- GEN, ORGANIC TOTAL (MG/L AS N)	NITRO- GEN, AM- MONIA + ORGANIC TOTAL (MG/L AS N)	NITRO- GEN, TOTAL (MG/L AS N)	PHOS- PHORUS, ORTHOPH OSPHATE TOTAL (MG/L AS PO4)	CARBON, ORGANIC TOTAL (MG/L AS C)
OCT									
02 FEB	14	123	1.5	. 200	.01	.21	1.7	. 11	2.2
13 APR	15	135	2.0	.050	.00	. 05	2.0	. 05	.7
28 JUN	12	125	1.2	. 160	.56	.72	1.9	. 31	6.8
04 JUL	14	130	. 95	.080	. 47	• 55	1.5	. 16	1.5
21	14	187	1.4	.060	.61	. 67	2.1	.31	1.7
AUG 20	14	166	1.5	.900	1.1	2.0	3.5	. 39	

01458400 HARIHOKAKE CREEK NEAR FRENCHTOWN, NJ

LOCATION.--Lat 40°32'53", long 75°04'09", Hunterdon County, Hydrologic Unit 02040105, at bridge on Frenchtown-Milford Road, 1,600 ft (490 m) upstream from mouth, and 1.5 mi (2.4 km) north of Frenchtown.

DRAINAGE AREA. -- 9.75 mi2 (25.25 km2).

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WATER-QUALITY RECORDS

PERIOD OF RECORD. -- Water years 1959-62, 1976 to current year.

COOPERATION.--Field data 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 water-phase nutrients were performed by the New Jersey Department of Health, Division of Laboratories and Epidemiology.

OCT 11 54	DATE	TIME	STREAM- FLOW, INSTAN- TANEOUS (CFS)	SPE- CIFIC CON- DUCT- ANCE (MICRO- MHOS)	PH FIELD (UNITS)	TEMPER- ATURE, WATER (DEG C)	OXYGEN, DIS- SOLVED (MG/L)	OXYGEN DEMAND, BIOCHEM UNINHIB 5 DAY (MG/L)	COLI- FORM, FECAL, EC BROTH (MPN)	STREP- TOCOCCI FECAL (MPN)
FEB 13 1100										
13 1100		1330		152	7.2	10.0	11.2	1.0	3500	790
100		1100		150	8.3	.0	13.7		330	5
OAT OAT	28	0915	19	112	7.4	10.0	10.2	2.9	3500	>2400
21 1050 2.0 7.4 25.0 3.3 4.7 460 920 AUG 20 1000 2.0 148 6.7 19.5 9.3 E1.8 5400 >2400 HARD-	04	1100	5.4	134	8.1	18.0	9.1		5400	>2400
Description	21	1050	2.0		7.4	25.0	3.3	4.7	460	920
HARD		1000	2.0	148	6.7	19.5	9.3	E1.8	5400	>2400
11 54 16 3.5 5.8 1.8 28 22 5.9 .1 FEB 13 53 16 3.1 5.0 1.0 30 17 5.4 .1 APR 28 41 12 2.6 4.6 1.8 25 16 5.0 .1 JUN 04 47 1475 2.9 4.8 1.3 30 14 5.3 .1 JUL 21 55 16 3.6 5.9 1.9 49 13 5.9 .1 AUG 20 55 16 3.7 5.5 2.8 50 13 5.2 .2 SILICA, RESIDUE DEG. C (MG/L) AS N) JUL 28 7.5 90 1.4 .490 .50 .99 2.4 .20 6.4 JUN 04 9.0 75 .82 .070 .41 .48 1.3 .13 .13 3.7 JUL 21 6.3 104 .20 .070 .61 .68 .88 .28 3.5	DATE	NESS (MG/L AS	DIS- SOLVED (MG/L	SIUM, DIS- SOLVED (MG/L	DIS- SOLVED (MG/L	SIUM, DIS- SOLVED (MG/L	LINITY (MG/L AS	DIS- SOLVED (MG/L	RIDE, DIS- SOLVED (MG/L	RIDE, DIS- SOLVED (MG/L
FEB 13 53 16 3.1 5.0 1.0 30 17 5.4 .1 APR 28 41 12 2.6 4.6 1.8 25 16 5.0 .1 JUN 04 47 1475 2.9 4.8 1.3 30 14 5.3 .1 JUL 21 55 16 3.6 5.9 1.9 49 13 5.9 .1 AUG 20 55 16 3.7 5.5 2.8 50 13 5.2 .2 SILICA, RESIDUE NITRO- NITRO- GEN, GEN, GEN, GEN, GEN, GEN, GEN, GEN,		5 11	46	2 5	- 0		00	20		
APR 28 41 12 2.6 4.6 1.8 25 16 5.0 .1 JUN 04 47 1475 2.9 4.8 1.3 30 14 5.3 .1 JUL 21 55 16 3.6 5.9 1.9 49 13 5.9 .1 AUG 20 55 16 3.7 5.5 2.8 50 13 5.2 .2 SILICA, RESIDUE DEG. C NO2+NO3 NITRO- GEN, AM- MONIA AS NO NO2+NO3 NO4 AS SOLVED DEG. C (MG/L) AS N) AS	FEB									
JUN 04 47 1475 2.9 4.8 1.3 30 14 5.3 .1 JUL 21 55 16 3.6 5.9 1.9 49 13 5.9 .1 AUG 20 55 16 3.7 5.5 2.8 50 13 5.2 .2 SILICA, RESIDUE NITRO- OEN, OEN, OEN, OEN, ORGANIC ORG		53	16	3.1	5.0	1.0	30	17	5.4	.1
04 47 1475 2.9 4.8 1.3 30 14 5.3 .1 JUL 21 55 16 3.6 5.9 1.9 49 13 5.9 .1 AUG 20 55 16 3.7 5.5 2.8 50 13 5.2 .2 SILICA, RESIDUE AT 180 GEN, GEN, GEN, GEN, MONIA + AS SOLVED DEG. C NO2+NO3 NO2+NO3 AMMONIA ORGANIC ORGANIC (MG/L AS SOLVED (MG/L) AS N) AS		41	12, 9	2.6	4.6	1.8	25	16	5.0	1
21 55 16 3.6 5.9 1.9 49 13 5.9 .1 AUG 20 55 16 3.7 5.5 2.8 50 13 5.2 .2 SOLIDS, SILICA, DIS- AT 180 GEN, OGEN,	04	47	1475	2.9	4.8	1.3	30	14	5.3	.1
20 55 16 3.7 5.5 2.8 50 13 5.2 .2 Solids	21	55	16	3.6	5.9	1.9	49	13	5.9	.1
SILICA RESIDUÉ NITRO GEN GEN GEN GEN MONTA GEN MONTA MONTA MONTA MONTA GEN MONTA GEN G		55	16	3.7	5.5	2.8	50	13	5.2	.2
11 12 99 2.7 .500 .31 .81 3.5 .17 FEB 13 9.4 72 1.7 .030 .75 .78 2.5 .02 APR 28 7.5 90 1.4 .490 .50 .99 2.4 .20 6.4 JUN 04 9.0 75 .82 .070 .41 .48 1.3 .13 3.7 JUL 21 6.3 104 .20 .070 .61 .68 .88 .28 3.5	DATE	DIS- SOLVED (MG/L AS	RESIDUÉ AT 180 DEG. C DIS- SOLVED	GEN, NO2+NO3 TOTAL (MG/L	GEN, AMMONIA TOTAL (MG/L	GEN, ORGANIC TOTAL (MG/L	GEN, AM- MONIA + ORGANIC TOTAL (MG/L	GEN, TOTAL (MG/L	PHORUS, ORTHOPH OSPHATE TOTAL (MG/L	ORGANIĆ TOTAL (MG/L
FEB 13 9.4 72 1.7 .030 .75 .78 2.5 .02 APR 28 7.5 90 1.4 .490 .50 .99 2.4 .20 6.4 JUN 04 9.0 75 .82 .070 .41 .48 1.3 .13 3.7 JUL 21 6.3 104 .20 .070 .61 .68 .88 .28 3.5										
APR 28 7.5 90 1.4 .490 .50 .99 2.4 .20 6.4 JUN 04 9.0 75 .82 .070 .41 .48 1.3 .13 3.7 JUL 21 6.3 104 .20 .070 .61 .68 .88 .28 3.5 AUG		12	99	2.7	.500	. 31	. 81	3.5	. 17	
28 7.5 90 1.4 .490 .50 .99 2.4 .20 6.4 JUN 04 9.0 75 .82 .070 .41 .48 1.3 .13 3.7 JUL 21 6.3 104 .20 .070 .61 .68 .88 .28 3.5		9.4	72	1.7	.030	. 75	.78	2.5	.02	
04 9.0 75 .82 .070 .41 .48 1.3 .13 3.7 JUL 21 6.3 104 .20 .070 .61 .68 .88 .28 3.5 AUG	28	7.5	90	1.4	. 490	.50	.99	2.4	. 20	6.4
21 6.3 104 .20 .070 .61 .68 .88 .28 3.5	04	9.0	75	. 82	.070	. 41	. 48	1.3	. 13	3.7
	21	6.3	104	. 20	.070	.61	.68	. 88	. 28	3.5
		7.4	86	•53	.040	.68	.72	1.2	. 46	2.2

01458500 DELAWARE RIVER AT FRENCHTOWN, NJ

LOCATION.--Lat 40°31'34", long 75°03'55", Hunterdon County, Hydrologic Unit 02040105, at bridge at Frenchtown, 1,000 ft (300 m) upstream from Nishisakawick Creek, and 3.4 mi (5.5 km) southeast of Milford.

DRAINAGE AREA. -- 6, 420 mi2 (16,628 km2).

WATER-QUALITY RECORDS

PERIOD OF RECORD .-- Water years 1976 to current year.

COOPERATION.--Field data 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 water-phase nutrients were performed by the New Jersey Department of Health, Division of Laboratories and Epidemiology.

WATER QUALITY DATA, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

									1.5					
DATE	ı	TIME	SPE- CIFIC CON- DUCT- ANCE (MICRO- MHOS)	PH FIELD (UNITS	AT WA	PER- URE, TER G C)	OXYGI DIS SOL' (MG	S- VED	OXYGE DEMAN BIOCH UNINH 5 DA (MG/L	D, FOR	CAL,	STREP- TOCOCCI FECAL (MPN)		S /L
OCT														
17		1230	44	h 1.4	_	10.5	10	0.2	<1	.0 5	400	79		56
MAR		4045									400			
26 JUN		1215	95	-	-	3.5	12	2.3	2	. 1	490	110		31
04		0945	222	7.	6	21.0		7.6	3	.2 5	400	1600		77
JUL		2015												0.0
16		0945	226	8.	2	26.5		7.2	<1	. 2	50	110		80
20.		0930		7.	7	23.5		9.0	<	.2	80	13		80
DATE		CALCIUM DIS- SOLVED (MG/L AS CA)	MAGNE- SIUM, DIS- SOLVED (MG/L AS MG)	SODIUM DIS- SOLVED (MG/L AS NA	, S D SO (M	TAS- IUM, IS- LVED G/L K)	ALKA LINII (MGA AS	ry /L	SULFA DIS- SOLV (MG/ AS SO	TE RII DIS ED SOI L (MC		FLUO- RIDE, DIS- SOLVED (MG/L AS F)	SILIO DIS- SOLI (MG, AS SIO:	VED /L
OCT														
17.		15	4.4	6.	0	1.1		27	19		8.8	. 1		5.0
MAR									10			11.0		
26 JUN		8.3	2.4	4.	7	1.0		16	13		6.8	. 1		3.6
04		20	6.6	9.	1	1.6		47	27	-	3	. 1		3.7
JUL								- 11						
16 AUG		20	7.2	9.	1	2.1		54	25		4	. 1	1	3.0
20	•	20	7.4	11		1.8		55	27		4	.2		3.4
	DA	SOI	IDUÉ N 180 G. C NO IS- T LVED (GEN, 2+NO3 A DTAL MG/L	NITRO- GEN, MMONIA TOTAL (MG/L AS N)	OR O	TRO- EN, GANIC TAL IG/L N)	GEN MON ORG TO (M	RO- , AM- IA + ANIC TAL IG/L N)	NITRO- GEN, TOTAL (MG/L AS N)	PHOR PHOR ORTH OSPH TOT (MG AS P	US, OPH CA ATE OR AL T	RBON, GANIC OTAL MG/L S C)	
	OCT													
	17 MAR	• • •	90	<1.0	. 200		. 22		. 42			. 20	2.1	
	26		72	. 70	. 190		1.3		1.5	2.2		. 15	6.2	
			135	1.4	. 120		. 80		.92	2.3		. 84	4.4	
	JUL 16		146	1.2	. 180		. 82		1.0	2.2		. 34	8.3	
	AUG 20		139	1.1	.090		.71		.80	1.9		. 39	. 9	
				10.00	, , ,							3,		

CAL YR 1979 TOTAL

WTR YR 1980 TOTAL

MEAN 94.7

MEAN 97.8

MAX 139

MAX 138

01460500 DELAWARE AND RARITAN CANAL AT KINGSTON, NJ

LOCATION.--Lat 40°22'24", long 74°37'08", Middlesex County, Hydrologic Unit 02040105, on right bank at canal lock at Kingston, and 250 ft (76 m) upstream from new bridge on State Highway 27.

WATER-DISCHARGE RECORDS

PERIOD OF RECORD .-- March 1947 to current year.

GAGE.--Two water-stage recorders and concrete control. Datum of gage is 40.00 ft (12.192 m) National Geodetic Vertical Datum of 1929.

REMARKS.--Water-discharge records good. The canal diverts water from the Delaware River at Raven Rock and discharges into Raritan River at New Brunswick. Some water wasted to the Millstone River 500 ft (152 m) above station. During part or all of some days in July, August, and September 1980, water was diverted into canal from Carniegie Lake at aqueduct over Millstone River 2.0 mi (3.2 km) upstream of gage.

AVERAGE DISCHARGE. -- 33 years, 76.6 ft3/s (2.169 m3/s).

EXTREMES FOR PERIOD OF RECORD.--Maximum daily discharge, 174 ft³/s (4.93 m³/s) Apr. 6, 1957; no flow Dec. 31, 1948, Oct. 15, 1950, Oct. 25 to Nov. 1, 1950, Mar. 12, 1970.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

EXTREMES FOR CURRENT YEAR.--Maximum daily discharge, 138 ft 3 /s (3.91 m 3 /s) Mar. 22; minimum, 50 ft 3 /s (1.42 m 3 /s) July 31.

MEAN VALUES SEP DAY OCT NOV DEC FEB JUN JUL. AUG JA N MAR APR MAY 91 62 83 103 114 91 124 81 76 59 102 75 64 128 134 TOTAL. 67.2 MEAN 91.9 99.3 80.9 71.6 MIN

01460880 LOCKATONG CREEK AT RAVEN ROCK, NJ

LOCATION.--Lat 40°24'58", long 75°01'05", Hunterdon County, Hydrologic Unit 02040105, at bridge, on Raven Rock-Rosemont Road, and 0.7 mi (1.1 km) upstream from mouth.

DRAINAGE AREA .-- 22.9 mi2 (59.3 km2).

WATER-QUALITY RECORDS

PERIOD OF RECORD. -- Water years 1956, 1959-62, 1976 to current year.

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

WATER QUALITY DATA, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

	DATE	TIME	STREAM- FLOW, INSTAN- TANEOUS (CFS)	SPE- CIFIC CON- DUCT- ANCE (MICRO- MHOS)	PH FIELD (UNITS)	TEMPER- ATURE, WATER (DEG C)	OXYGEN, DIS- SOLVED (MG/L)	OXYGEN DEMAND, BIOCHEM UNINHIB 5 DAY (MG/L)	COLI- FORM, FECAL, EC BROTH (MPN)	STREP- TOCOCCI FECAL (MPN)
	FEB			0.00			10.4		628	
	06 APR	0845		223	7.9	.0	12.8		<20	7
	29 JUN	0930	142	102	7.2	9.5	10.8	3.0	2400	>2400
	05 JUL	1010	5.3	168	7.4	16.0	9.8	1.8	220	79
	21 AUG	1150	1.2	205	7.7	26.0	7.6	4.6	490	426
	20	1100	1.2	174	6.7	20.0	8.0	<.5	220	1600
	DATE	HARD- NESS (MG/L AS CACO3)	CALCIUM DIS- SOLVED (MG/L AS CA)	MAGNE- SIUM, DIS- SOLVED (MG/L AS MG)	SODIUM, DIS- SOLVED (MG/L AS NA)	POTAS- SIUM, DIS- SOLVED (MG/L AS K)	ALKA- LINITY (MG/L AS CACO3)	SULFATE DIS- SOLVED (MG/L AS SO4)	CHLO- RIDE, DIS- SOLVED (MG/L AS CL)	FLUO- RIDE, DIS- SOLVED (MG/L AS F)
	FEB	62	15		0.0	1.0	20	24	11	
	06 APR	63	15	6.2	9.9	1.9	28	31	11	.1
	29 JUN	32	7.8	3.0	4.7	2.3	16	20	4.2	. 1
	05 JUL	54	13	5.3	9.1	2.1	33	27	7.8	. 1
	21 AUG	54	13	5.2	9.0	2.8	42	21	8.9	. 1
	20	61	15	5.6	8.7	2.6	48	23	7.8	. 2
	DATE	SILICA, DIS- SOLVED (MG/L AS SIO2)	SOLIDS, RESIDUE AT 180 DEG. C DIS- SOLVED (MG/L)	NITRO- GEN, NO2+NO3 TOTAL (MG/L AS N)	NITRO- GEN, AMMONIA TOTAL (MG/L AS N)	NITRO- GEN, ORGANIC TOTAL (MG/L AS N)	NITRO- GEN, AM- MONIA + ORGANIC TOTAL (MG/L AS N)	NITRO- GEN, TOTAL (MG/L AS N)	PHOS- PHORUS, ORTHOPH OSPHATE TOTAL (MG/L AS PO4)	CARBON, ORGANIC TOTAL (MG/L AS C)
7	FEB									
	06 APR	11	113	E4.3	.090	1.0	1.1		<.01	5.6
	29 JUN	7.9	76	. 69	. 260		E.54		• 33	8.5
	05 JUL	7.8	112	1.7	.090	. 65	.74	2.4	.06	4.2
	21 AUG	3.7	104	. 15	.090	• 53	.62	.77	. 31	2.4
	20	7.1	107	. 45	.030	. 43	. 46	.91	. 18	.8

01461000 DELAWARE RIVER AT LUMBERVILLE, PA

LOCATION.--Lat 40°24'27", long 75°02'16", Bucks County, Hydrologic Unit 02040105, at pedestrian bridge at Lumberville, 1.4 mi (2.3 km) upstream of Lockatong Creek.

DRAINAGE AREA. -- 6,598 mi2 (17,089 km2).

WATER-QUALITY RECORDS

PERIOD OF RECORD. -- Water years 1976 to current year.

COOPERATION. -- Field data 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 water-phase nutrients were performed by the New Jersey Department of Health, Division of Laboratories and Epidemiology.

WATER QUALITY DATA, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

DATE	TIME	SPE- CIFIC CON- DUCT- ANCE (MICRO- MHOS)	PH FIELD (UNITS)	TEMPER- ATURE, WATER (DEG C)	OXYGEN, DIS- SOLVED (MG/L)	OXYGEN DEMAND, BIOCHEM UNINHIB 5 DAY (MG/L)	COLI- FORM, FECAL, EC BROTH (MPN)	STREP- TOCOCCI FECAL (MPN)	HARD- NESS (MG/L AS CACO3)
OCT 18	0900	-		10.0		<1.0	9200	130	56
MAR 27	0900	102	7.1	4.0	12.6	.7	230	46	33
JUN 04	1100	215	7.2	21.0	7.4	3.4	3500	1600	78
JUL 16	1130	219	8.3	27.0	8.1	<.2	20	34	76
AUG 20	1115	193	8.4	23.5	8.2	<.6	80	27	80
20	1115	193	0.4	23.5	0.2	\o	00	21	.00
DATE	CALCIUM DIS- SOLVED (MG/L AS CA)	MAGNE- SIUM, DIS- SOLVED (MG/L AS MG)	SODIUM, DIS- SOLVED (MG/L AS NA)	POTAS- SIUM, DIS- SOLVED (MG/L AS K)	ALKA- LINITY (MG/L AS CACO3)	SULFIDE TOTAL (MG/L AS S)	SULFATE DIS- SOLVED (MG/L AS SO4)	CHLO- RIDE, DIS- SOLVED (MG/L AS CL)	FLUO- RIDE, DIS- SOLVED (MG/L AS F)
OCT 18	15	4.5	6.6	1.1	31		19	8.8	.1
MAR 27	8.8	2.6	5.5	1.1	14		14	7.3	. 1
JUN 04	20	6.7	11	1.6	46	.2	28	13	.2
JUL 16	19	6.9	9.3	1.8	53		24	12	1
AUG 20	20	7.3	10	1.8	56		26	13	.2
DATE	SILICA, DIS- SOLVED (MG/L AS SIO2)	SOLIDS, RESIDUE AT 180 DEG. C DIS- SOLVED (MG/L)	NITRO- GEN, NO2+NO3 TOTAL (MG/L AS N)	NITRO- GEN, AMMONIA TOTAL (MG/L AS N)	NITRO- GEN, ORGANIC TOTAL (MG/L AS N)	NITRO- GEN, AM- MONIA + ORGANIC TOTAL (MG/L AS N)	NITRO- GEN, TOTAL (MG/L AS N)	PHOS- PHORUS, ORTHOPH OSPHATE TOTAL (MG/L AS PO4)	CARBON, ORGANIC TOTAL (MG/L AS C)
OCT			4.0				0.5	10	2.5
18 MAR	5.1	91	1.2	. 200	1.1	1.3	2.5	. 12	2.5
27 JUN	3.8	70	• 75	. 110	. 17	.28	1.0	.08	4.1
O4 JUL	3.7	138	1.6	. 370	.73	1.1	2.7	. 46	6.4
16 AUG	2.8	138	. 99	.110	.79	.90	1.9	. 37	3.4
20	3.2	138	1.0	.050	. 58	.63	1.6	. 34	1.4
	ATE	IME (U	DLVED TO	SENIC REDITAL EF	TAL TO CCOV- RI RABLE EI	DTAL TO ECOV- RI RABLE EI JG/L (U	DMIUM MI DTAL TO ECOV- RE RABLE EF JG/L (U	DTAL TO ECOV- RE RABLE ER JG/L (U	PER, TAL COV- ABLE G/L CU)
0		100	100	1	0	50	1	20	9

01461000 DELAWARE RIVER AT LUMBERVILLE, PA--Continued WATER QUALITY DATA, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

			MANGA-					
	IRON,	LEAD.	NESE.	MERCURY	NICKEL.		ZINC.	
	TOTAL	TOTAL	TOTAL	TOTAL	TOTAL	SELE-	TOTAL	
	RECOV-	RECOV-	RECOV-	RECOV-	RECOV-	NIUM,	RECOV-	
	ERABLE	ERABLE	ERABLE	ERABLE	ERABLE	TOTAL	ERABLE	PHENOLS
	(UG/L	(UG/L	(UG/L	(UG/L	(UG/L	(UG/L	(UG/L	
DATE	AS FE)	AS PB)	AS MN)	AS HG)	AS NI)	AS SE)	AS ZN)	(UG/L)
JUN								
04	4700	20	220	<.1	14	0	110	1

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01461300 WICKECHEOKE CREEK AT STOCKTON, NJ

LOCATION.--Lat 40°24'41", long 74°59'13", Hunterdon County, Hydrologic Unit 02040105, at bridge on State Route 29 in Stockton, 900 ft (270 m) upstream from mouth.

DRAINAGE AREA. -- 26.5 mi2 (68.6 km2).

WATER-QUALITY RECORDS

PERIOD OF RECORD. -- Water years 1959-63, 1976 to current year.

COOPERATION.--Field data 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 water-phase nutrients were performed by the New Jersey Department of Health, Division of Laboratories and Epidemiology.

			SPE-							
DATE	TIME	STREAM- FLOW, INSTAN- TANEOUS (CFS)	CIFIC CON- DUCT- ANCE (MICRO- MHOS)	PH FIELD (UNITS)	TEMPER- ATURE, WATER (DEG C)	OXYGEN, DIS- SOLVED (MG/L)	OXYGEN DEMAND, BIOCHEM UNINHIB 5 DAY (MG/L)	COLI- FORM, FECAL, EC BROTH (MPN)	STREP- TOCOCCI FECAL (MPN)	
FEB										
06	1100		460	6.7	.0	14.0		<20	<2	
APR 29	1030	83	178	7.1	10.0	10.7	1.4	1700	>2400	
JUN	1030	03	170	7.1	10.0	10.7	1,4	1700	72400	
04	1245	9.2	195	7.9	21.0	6.8		700	130	
JUL 16	1300		205	9.1	26.0	9.4	<.1	1800	110	
AUG	1300		205	9.1	20.0	9.4	(.1	1800	110	
20	1300		179	9.2	23.0	10.2	<.7	9200	240	
DATE	HARD- NESS (MG/L AS CACO3)	CALCIUM DIS- SOLVED (MG/L AS CA)	MAGNE- SIUM, DIS- SOLVED (MG/L AS MG)	SODIUM, DIS- SOLVED (MG/L AS NA)	POTAS- SIUM, DIS- SOLVED (MG/L AS K)	ALKA- LINITY (MG/L AS CACO3)	SULFATE DIS- SOLVED (MG/L AS SO4)	CHLO- RIDE, DIS- SOLVED (MG/L AS CL)	FLUO- RIDE, DIS- SOLVED (MG/L AS F)	
FEB 06	65	15	6.6	51	1.9	26	44	64	.1	
APR	0,5		0.0	٥,	1.9	20		700		
29	28	6.7	2.7	22	1.9	16	24	23	. 1	
JUN 04	39	9.6	3.7	19	1.9	25	26	17	.1	
JUL	3,	,	3.1							
16 AUG	55	13	5.4	18	2.1	46	25	14	.1	
20	60	14	6.0	15	1.9	49	25	13	.2	
DATE	SILICA, DIS- SOLVED (MG/L AS SIO2)	SOLIDS, RESIDUE AT 180 DEG. C DIS- SOLVED (MG/L)	NITRO- GEN, NO2+NO3 TOTAL (MG/L AS N)	NITRO- GEN, AMMONIA TOTAL (MG/L AS N)	NITRO- GEN, ORGANIC TOTAL (MG/L AS N)	NITRO- GEN, AM- MONIA + ORGANIC TOTAL (MG/L AS N)	NITRO- GEN, TOTAL (MG/L AS N)	PHOS- PHORUS, ORTHOPH OSPHATE TOTAL (MG/L AS PO4)	CARBON, ORGANIC TOTAL (MG/L AS C)	
FEB										
06 APR	14	228	3.7	.070	.23	.30	4.0	<.01	3.0	
29 JUN	8.6	118	.77	. 150	.01	.16	•93	.29	6.4	
04	10	109	1.6	.080	. 46	.54	2.1	. 17	8.8	
JUL 16	6.5	137	1.6	. 160	. 47	.63	2.2	.09	2.1	
AUG 20	12	122	. 90	.030	.58	.61	1.5	. 15	.5	

01461900 ALEXAUKEN CREEK NEAR LAMBERTVILLE, NJ

LOCATION.--Lat 40°22'51", long 74°56'54", Hunterdon County, Hydrologic Unit 02040105, at bridge on State Route 29, 0.4 mi (0.6 km) upstream from mouth, and 1.1 mi (1.8 km) north of Lambertville.

DRAINAGE AREA. -- 14.9 mi2 (38.6 km2).

WATER-QUALITY RECORDS

PERIOD OF RECORD. -- Water years 1959-63, 1976 to current year.

COOPERATION. -- Field data 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 water-phase nutrients were performed by the New Jersey Department of Health, Division of Laboratories and Epidemiology.

DATE	TIME	STREAM- FLOW, INSTAN- TANEOUS (CFS)	SPE- CIFIC CON- DUCT- ANCE (MICRO- MHOS)	PH FIELD (UNITS)	TEMPER- ATURE, WATER (DEG C)	OXYGEN, DIS- SOLVED (MG/L)	OXYGEN DEMAND, BIOCHEM UNINHIB 5 DAY (MG/L)	COLI- FORM, FECAL, EC BROTH (MPN)	STREP- TOCOCCI FECAL (MPN)
MAR									
	1300	25	200	6.8	2.0	411 0		0.0	22
12	1300	25	208	0.8	3.0	14.8	<.9	80	33
APR	4411	50						4400	250
29 JUN	1145	59	157	7.3	10.5	11.0	2.8	1100	350
04	1230	6.8	209	7.4	20.0	0.0	1.1	1600	>21100
JUL	1230	0.0	209	1 • 4	20.0	9.0	1.1	1600	>2400
	0015	2.0	056		00 0			2500	
17	0915	3.9	256	7.6	22.0	6.0	2.9	3500	>2400
AUG	0845		240		40.0		E1.4		
21	0845		310	6.9	19.0	8.1	£1.4	50	13
			MAGNE-		POTAS-			CHLO-	FLUO-
	HARD-	CALCIUM	SIUM,	SODIUM,	SIUM.	ALKA-	SULFATE	RIDE,	RIDE.
	NESS	DIS-	DIS-	DIS-	DIS-	LINITY	DIS-	DIS-	DIS-
	(MG/L	SOLVED	SOLVED	SOLVED	SOLVED	(MG/L	SOLVED	SOLVED	SOLVED
	AS	(MG/L	(MG/L	(MG/L	(MG/L	AS	(MG/L	(MG/L	(MG/L
DATE	CACO3)	AS CA)	AS MG)	AS NA)	AS K)	CACO3)	AS SO4)	AS CL)	AS F)
						1000			
MAR					2.0				
12	67	16	6.6	8.0	1.4	26	33	11	. 1
APR		1.2	2 4						
29	53	13	5.0	6.3	1.9	25	27	8.1	. 1
JUN		3.2			2.2	4.2	1.0	1.0	
04	75	19	6.6	7.7	2.0	42	32	9.7	. 1
JUL	-	5.2			1 2 2		2.2	7.1	
17	99	25	8.8	9.4	2.7	57	42	10	. 1
AUG									4
21	120	31	10	11	2.4	70	57	13	. 2
	SILICA, DIS- SOLVED	SOLIDS, RESIDUE AT 180 DEG. C	NITRO- GEN, NO2+NO3	NITRO- GEN, AMMONIA	NITRO- GEN, ORGANIC	NITRO- GEN, AM- MONIA + ORGANIC	NITRO- GEN,	PHOS- PHORUS, ORTHOPH OSPHATE	CARBON, ORGANIC
	(MG/L	DIS-	TOTAL	TOTAL	TOTAL	TOTAL	TOTAL	TOTAL	TOTAL
	AS	SOLVED	(MG/L	(MG/L	(MG/L	(MG/L	(MG/L	(MG/L	(MG/L
DATE	SI02)	(MG/L)	AS N)	AS N)	AS N)	AS N)	AS N)	AS PO4)	AS C)
MAR									
12	12	128	2.3	. 120	. 12	.24	2.5	. 17	2.3
APR	14	120	2.3	. 120	. 12	.24	2.5	. 17	2.3
29	13	119	1.4	.110	.00	.11	1.5	.31	5.3
JUN	13	119	1.4	. 110	.00	• 11	1.5	. 31	5.3
04	12	150	2.1	. 140		72	2.8	. 24	5.9
JUL	12	150	۷٠١	. 140	.59	.73	2.0	. 24	5.9
17	9.5	160	. 87	. 290	1.3	1.6	2.5	. 40	3.4
AUG	9.5	100	.01	. 290	1.3	1.0	2.3	. 40	3.4
21	7.5	176	<.05	.060	.61	. 67		.06	. 1

01462000 DELAWARE RIVER AT LAMBERTVILLE, NJ

LOCATION.--Lat 40°21'53", long 74°56'57", Hunterdon County, Hydrologic Unit 02040105, at U.S. Route 202 bridge connecting Lambertville, NJ, and New Hope, PA, and 600 ft (183 m) upstream of Swan Creek.

DRAINAGE AREA. -- 6,680 mi2 (17,301 km2).

WATER-QUALITY RECORDS

PERIOD OF RECORD .-- Water years 1976 to current year.

COOPERATION.--Field data 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 water-phase nutrients were performed by the New Jersey Department of Health, Division of Laboratories and Epidemiology.

DATE		TIME	SPE- CIFIC CON- DUCT- ANCE (MICRO- MHOS)	PH FIELD (UNITS)	TEMPER- ATURE, WATER (DEG C)	DIS	S- VED	OXYGE DEMANI BIOCHI UNINH 5 DA (MG/L	D, FOR FECTOR ED EC	M, AL, S TO TH F	TREP- COCCI ECAL MPN)	HARD- NESS (MG/L AS CACO3)
OCT 18		1130			11.0		9.9	<1	. 0	540	79	56
MAR 24		1030	87	7.7	3.5	1;	2.3	2	. 1	230	33	27
JUN 05		0915	205	7.7	20.0		7.2	2	3	490	2	70
JUL			206		26.0		5.6		. 9	130	170	75
17 AUG		0915		7.7					- 1			
21		0915	200	8.5	24.0		7.9	<1	. 2	110	<2	80
DATE	5	ALCIUM DIS- BOLVED (MG/L AS CA)	MAGNE- SIUM, DIS- SOLVED (MG/L AS MG)	SODIUM, DIS- SOLVED (MG/L AS NA)	POTAS- SIUM, DIS- SOLVED (MG/L AS K)	ALK.	ΓY /L	SULFAT DIS- SOLVI (MG/I	DIS ED SOL (MG	VED S	LUO- IDE, DIS- OLVED MG/L S F)	SILICA, DIS- SOLVED (MG/L AS SIO2)
OCT				100						_		
18 MAR		15	4.6	6.2	1.1		29	20		8.9	. 1	5.0
24 JUN		7.2	2.2	4.5	1.1		22	12		6.2	. 1	3.4
05 JUL		18	6.1	9.9	1.4		47	25	1	1	.1	3.8
17 AUG		18	7.3	11	1.9		51	23	1	2	.1	3.0
21		20	7.4	10	1.7		56	27	1	2	.2	3.0
	DATE	SOI	IDUÉ NO 180 (G. C NO IS- TO LVED (1	GEN, C 2+NO3 AMN DTAL TO MG/L (N	GEN, MONIA OR OTAL T MG/L (ITRO- GEN, GANIC OTAL MG/L S N)	GEN MON ORG TO (M	RO- , AM- IA + ANIC TAL G/L N)	NITRO- GEN, TOTAL (MG/L AS N)	PHOS- PHORUS ORTHOP OSPHAT TOTAL (MG/L AS PO4	H CAR E ORG TO	BON, ANIC TAL G/L C)
(18.		91	1.2	.200	.58		.78	2.0	.1	1	2.8
M	1AR 24.		66	.80	. 190	2.5		2.7	3.5	.3		5.9
i	JUN 05.		141	1.4	.210	.63		.84	2.2	.2		1.4
	JUL 17.		129	1.1	.630					.5	8	2.5
A	UG 21.		131	1.2	.030	. 62		. 65	1.8	.3		1.4

01462005 SWAN CREEK AT LAMBERTVILLE, NJ

LOCATION.--Lat 40°21'51", long 74°56'41", Hunterdon County, Hydrologic Unit 02040105, at bridge in Lambertville 250 ft (76 m) upstream from Delaware-Raritan Canal, 350 ft (107 m) downstream from State Route 29, and 500 ft (152 m) upstream from mouth.

DRAINAGE AREA. -- 3.28 mi2 (8.50 km2).

WATER-QUALITY RECORDS

PERIOD OF RECORD. -- Water years 1976 to current year.

COOPERATION. -- Field data 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 water-phase nutrients were performed by the New Jersey Department of Health, Division of Laboratories and Epidemiology.

WATER QUALITY DATA, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

DATE		STREAM- FLOW, INSTAN- FANEOUS (CFS)	SPE- CIFIC CON- DUCT- ANCE (MICRO- MHOS)	PH FIELD (UNITS)	TEMPER- ATURE, WATER (DEG C)	OXYGEN, DIS- SOLVED (MG/L)	OXYG DEMAI BIOCI UNINI 5 DI (MG/I	ND, F HEM F HIB AY B	OLI- ORM, ECAL, EC ROTH MPN)	STREP- TOCOCCI FECAL (MPN)	HARD- NESS (MG/L AS CACO3)
OCT	1430	26	205	7.5	10.5	11.2	,	1.0	2800	1700	65
11 FEB		20			10.5		,				
06 APR	1245		279	6.9	.0	14.4			50	13	85
29 JUN	1230	25	190	7.1	11.5	10.4		1.8	330	350	53
05 JUL	0900	10	320	7.4	15.0	9.6		1.3	1400	920	92
17	1015	9.6	284	7.4	22.0	6.4	E	2.9	16000	>2400	85
AUG 21	0915	7.7	182	7.0	20.0	6.2		<.6	3500	1600	98
DATE	CALCIU DIS- SOLVE (MG/I AS CA	DIS ED SOLV	M, SODIU S- DIS- VED SOLVE L (MG)	JM, SI DI ED SOL L (MG		TY SULF	IDE AL /L	SULFATE DIS- SOLVED (MG/L AS SO4)	DIS- SOLVI (MG/I	RIDI DIS ED SOL L (MG)	E, S- VED /L
OCT	. 16	6	5.2 1	1	2.1	32	.0	25	13		.1
FEB 06	. 21	8	3.0 12	2	1.8	47		38	15		. 1
APR 29	. 13	1	1.9 1	4	1.5	41		25	20		. 1
JUN 05	. 23	,	3.4 2		2.2	56	.0	30	34		.1
JUL 17			.4 20		3.0	63		26	26		.1
AUG						35					
21	. 25		3.6 17		2.6	81		31	19		. 2
DATE	SILICA DIS- SOLVE (MG/I AS SIO2)	AT 18 D DEG. DIS SOLV	OUE NITH OUE NOTH OUE NOZ+N OUE TOTA OUE (MG/	N, GE 103 AMMO LL TOT /L (MG	N, GE NIA ORGA AL TOT /L (MG	NÎC ORGA AL TOT /L (MG	AM- A + NIC AL	NITRO- GEN, TOTAL (MG/L AS N)	PHOS- PHORUS ORTHOI OS PHAT TOTAI (MG/I AS PO	PH CARBO	NIĆ AL /L
OCT					221						
11 FEB					500	. 04	.54	1.7			5.7
06 APR	. 18	1	41 1.	.5	030	. 57	.60	2.1	<	01	5.1
29 JUN	13	1	31 .	. 55	090	. 19	.28	. 83		16	5.6
05 JUL	16	- 1	98 .	.78	160	. 22	.38	1.2	. (0,8	1.3
17 AUG	. 12	1	67 1.	. 0	160					37 5	5 . 3
21	. 10	1	59 <.	. 05	040	.79	. 83			40 2	2.1

01462005 SWAN CREEK AT LAMBERTVILLE, NJ--Continued

DATE	TIME	ALUM- INUM, DIS- SOLVED (UG/L AS AL)	ARSENIC TOTAL (UG/L AS AS)	ARSENIC TOTAL IN BOT- TOM MA- TERIAL (UG/G AS AS)	BERYL- LIUM, TOTAL RECOV- ERABLE (UG/L AS BE)	BORON, TOTAL RECOV- ERABLE (UG/L AS B)	CADMIUM TOTAL RECOV- ERABLE (UG/L AS CD)	CADMIUM RECOV. FM BOT- TOM MA- TERIAL (UG/G AS CD)	CHRO-MIUM, TOTAL RECOV- ERABLE (UG/L AS CR)	CHRO- MIUM, RECOV. FM BOT- TOM MA- TERIAL (UG/G)
OCT #	1430	70	1	0	0	60	0	<10	10	20
JUN 05	0900	0	1		0	100	0		<10	
05	0900	U			U	100	· ·	- 2	(10	
DATE	COPPER, TOTAL RECOV- ERABLE (UG/L AS CU)	COPPER, RECOV. FM BOT- TOM MA- TERIAL (UG/G AS CU)	IRON, TOTAL RECOV- ERABLE (UG/L AS FE)	IRON, RECOV. FM BOT- TOM MA- TERIAL (UG/G AS FE)	LEAD, TOTAL RECOV- ERABLE (UG/L AS PB)	LEAD, RECOV. FM BOT- TOM MA- TERIAL (UG/G AS PB)	MANGA- NESE, TOTAL RECOV- ERABLE (UG/L AS MN)	MANGA- NESE, RECOV. FM BOT- TOM MA- TERIAL (UG/G)	MERCURY TOTAL RECOV- ERABLE (UG/L AS HG)	MERCURY RECOV. FM BOT- TOM MA- TERIAL (UG/G AS HG)
OCT 11	7	40	270	25000	3	280	10	710	.1	.00
JUN 05	4		180		5		10	22	.1	
- 1			100		,					
DATE	NICKEL, TOTAL RECOV- ERABLE (UG/L AS NI)	SELE- NIUM, TOTAL (UG/L AS SE)	SELE- NIUM, TOTAL IN BOT- TOM MA- TERIAL (UG/G)	ZINC, TOTAL RECOV- ERABLE (UG/L AS ZN)	ZINC, RECOV. FM BOT- TOM MA- TERIAL (UG/G AS ZN)	PHENOLS (UG/L)	PCB, TOTAL IN BOT- TOM MA- TERIAL (UG/KG)	PCN, TOTAL IN BOT- TOM MA- TERIAL (UG/KG)	ALDRIN, TOTAL IN BOT- TOM MA- TERIAL (UG/KG)	CHLOR-DANE, TOTAL IN BOT- TOM MA- TERIAL (UG/KG)
OCT	AS NI)	AS SE)	(00/0)	AS ZN)	AS ZN)	(UG/L)	(UG/KG)	(UG/KG)	(UG/KG)	(UG/KG)
11	10	0	0	20	310	0	6	.0	.0	15
JUN 05	1	0		20		0				4882
DATE	DDD, TOTAL IN BOT- TOM MA- TERIAL (UG/KG)	DDE, TOTAL IN BOT- TOM MA- TERIAL (UG/KG)	DDT, TOTAL IN BOT- TOM MA- TERIAL (UG/KG)	DI- AZINON, TOTAL IN BOT- TOM MA- TERIAL (UG/KG)	DI- ELDRIN, TOTAL IN BOT- TOM MA- TERIAL (UG/KG)	ENDO- SULFAN, TOTAL IN BOT- TOM MA- TERIAL (UG/KG)	ENDRIN, TOTAL IN BOT- TOM MA- TERIAL (UG/KG)	ETHION, TOTAL IN BOT- TOM MA- TERIAL (UG/KG)	HEPTA- CHLOR, TOTAL IN BOT- TOM MA- TERIAL (UG/KG)	HEPTA- CHLOR EPOXIDE TOT. IN BOTTOM MATL. (UG/KG)
OCT 11	2.0	. 4	.0	2.1	.0	.0	.0	.0	.0	.0
JUN 05										
03		-	-							-
DATE	LINDANE TOTAL IN BOT- TOM MA- TERIAL (UG/KG)	MALA- THION, TOTAL IN BOT- TOM MA- TERIAL (UG/KG)	METH- OXY- CHLOR, TOT. IN BOTTOM MATL. (UG/KG)	METHYL PARA- THION, TOT. IN BOTTOM MATL. (UG/KG)	METHYL TRI- THION, TOT. IN BOTTOM MATL. (UG/KG)	MIREX, TOTAL IN BOT- TOM MA- TERIAL (UG/KG)	PARA- THION, TOTAL IN BOT- TOM MA- TERIAL (UG/KG)	PER- THANE IN BOTTOM MATERIL (UG/KG)	TOXA- PHENE, TOTAL IN BOT- TOM MA- TERIAL (UG/KG)	TRI- THION, TOTAL IN BOT- TOM MA- TERIAL (UG/KG)
OCT 11	.0	.0	.0	.0	.0	.0	.0	.00	0	.0
JUN 05										

109

01462500 DELAWARE RIVER AT WASHINGTON CROSSING, NJ

LOCATION.--Lat 40°17'20", long 74°52'08", Mercer County, Hydrologic Unit 02040105, at bridge at Washington Crossing, 1.4 mi (2.3 km) upstream of Jacobs Creek.

DRAINAGE AREA. -- 6,735 mi2 (17,444 km2).

WATER-QUALITY RECORDS

PERIOD OF RECORD .-- Water years 1976 to current year.

COOPERATION.--Field data 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 water-phase nutrients were performed by the New Jersey Department of Health, Division of Laboratories and Epidemiology.

WATER QUALITY DATA, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

DATE	Т	IME	SPE- CIFIC CON- DUCT- ANCE (MICRO MHOS)	- FI	PH ELD ITS)	ATWA	PER- URE, TER G C)	SOL	EN, S- VED	OXYGE DEMAN BIOCH UNINH 5 DA (MG/L	ID, FOR	OLI- ORM, CCAL, CC OTH	STR TOCO FEC (MP	CCI AL	HAR NES (MG AS	S /L
OCT		line														
16		430	-	-			11.0		8.8	1	.0 1	6000		350		56
27 JUN	. 1	230	10	4	7.1		4.5	1	2.5	1	. 2	170		23		34
05 JUL	. 1	045	20	4	7.4	- 1	21.0		7.3	2	2.5	490		7		70
17 AUG	. 1	045	20	8	7.4		26.0		6.4	EZ	2.0	1300		79		80
21	. 1	100	22	0	8.5		24.0		8.3	<1	. 4	230		5		81
DATE	SO (M	CIUM S- LVED G/L CA)	MAGNE SIUM DIS- SOLVE (MG/L AS MG	, SOD: D SOL: (MC		SOI SOI (MC	TAS- IUM, IS- LVED G/L K)	ALK LINI (MG AS CAC	TY /L	SULFA DIS- SOLV (MG/ AS SO	TE RI DI ED SC L (M	LO- DE, S- LVED G/L CL)	FLU RID DI SOL (MG AS	E, S- VED /L	SILI DIS SOL (MG AS SIO	VED /L
OCT		15	4.	_	5.9				26	4.0		0 0				5.0
16			4.	2	5.9		1.1			19		8.3		. 1		5.0
27 JUN		9.0	2.	7	4.9		1.1		18	1.6	i	7.8		. 1		3.7
05		18	6.	2	9.9		1.4		51	25	-	11		. 1		3.8
JUL 17		20	7.	3	9.3		1.8		53	23		13		. 1		3.0
AUG 21		20	7.	5	10		1.7		56	27		13		. 2		2.9
	DATE	SOLI RESI AT 1 DEG DI SOL (MG	DUÉ 80 . C N S- VED	NITRO- GEN, D2+NO3 TOTAL (MG/L AS N)	AMM TO (M	TRO- EN, ONIA TAL G/L N)	ORG TO (M	TRO- EN, ANIC TAL G/L N)	MON ORG TO (M	RO- , AM- IA + ANIC TAL G/L N)	NITRO- GEN, TOTAL (MG/L AS N)	PHO ORT OSP TO (M	OS- RUS, HOPH HATE TAL G/L PO4)	TO'	BON, ANIC TAL G/L C)	
	16		82	<1.0		. 400		.53		. 93			. 16		3.5	
	27		73	. 75		. 160		.02		. 18	. 93		.02		5.9	
	JUN 05		135	1.4		. 160		. 44		.60	2.0		. 41		1.4	
	JUL 17 AUG		136	1.1		. 990							. 43		3.1	
,	21		133	1.0		. 030		. 46		. 49	1.5		. 34		5.4	

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 Assunpink Creek, and at mile 134.5

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

GAGE.--Water-stage recorder. Datum of gage is National Geodetic Vertical Datum of 1929. 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.--Water-discharge records good. 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. Diversion 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. -- 68 years, 11,750 ft3/s (332.8 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 (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 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) National Geodetic Vertical Datum of 1929, discharge estimated, 295,000 ft³/s (8,350 m³/s). Maximum elevation since 1903, 30.6 ft (9.33 m) National Geodetic Vertical Datum of 1929, 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	Tim	harge) (m³/s)	Elevat	ion (m)	Date		Time	Disch (ft3/s)		Elevat	ion (m)
Nov. 2 Mar. 2				4.404	Apr.	11	1130	50400	1430	14.03	4.276

Minimum discharge, 2,420 ft3/s (68.5 m3/s) Aug. 23, Sept. 30, gage height, 7.82 ft (2.384 m).

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980 MEAN VALUES

DAY	OCT	NO V	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	10000	7620	20200	9930	4510	3900	39400	32900	5070	4550	3030	3050
2	18900	7260	17200	10100	4000	3460	37100	27600	5930	5430	3230	3100
3	20900	10900	15100	8880	3900	4090	33500	23500	5650	5710	3340	3040
4	25200	16200	13800	9030	4000	3370	32700	19900	7300	4930	3660	2970
5	23000	21500	13700	8640	4800	3760	32400	16800	7270	4570	4210	2930
6 7 8 9	31800 32900 28900 22300 24400	17400 14900 13300 12100 11500	12800 12900 11700 10600 9210	7970 6870 6160 6500 6520	4200 4400 4500 4400 4330	4310 3950 3860 4630 5340	30200 25600 21500 22700 34900	14800 14900 13600 12400 11300	6070 5390 5520 5570 5810	4450 5030 4490 4570 4500	4470 4350 4070 3810 3630	2830 3040 2830 2970 2800
11	22900	11700	8550	6360	4270	7110	47800	10600	5780	4200	3490	2740
12	19200	12900	8700	10900	3980	7490	40600	9930	5620	4140	2950	2690
13	17500	11900	8870	11200	3970	6240	31900	14800	5560	4310	2950	2660
14	15500	11200	10500	8880	3760	6230	28200	14300	5020	3800	3130	2840
15	13600	10600	10100	8520	3830	5340	30600	12000	4590	3710	3070	3220
16	11900	9710	9510	8600	3970	6330	34800	10900	4310	3460	3050	3070
17	11900	9020	8810	8270	4000	5950	33000	9730	4270	3840	3140	2870
18	11300	8680	8240	7580	3650	14100	28300	8810	4240	3780	3080	3730
19	11100	8530	8130	9160	3480	23200	23900	8300	4320	3710	2910	3660
20	10300	8600	7960	8540	3670	27500	20200	8180	4170	3500	2730	3480
21	9680	8290	7700	7400	3780	29500	17600	8680	4080	3200	2820	3280
22	8310	8030	7580	6770	4300	69800	16100	9440	4030	3100	2500	3150
23	7810	7800	8120	6420	4850	88700	15300	8660	4000	3260	2560	2800
24	8420	7110	7920	6520	4990	52000	13800	7780	4060	4350	2650	2720
25	9790	6930	9410	6240	5380	46800	12800	7110	3900	3930	2640	3070
26 27 28 29 30 31	9880 10000 9020 8160 7860 7770	8130 30300 48700 35200 25600	14300 17000 15600 13600 12100 10700	5580 5630 5260 5390 4950 4720	4720 4140 3670 3640	40600 34100 26500 25700 29200 35700	11800 11300 13400 23100 33800	6550 5900 5530 5160 4840 4620	3730 3650 3680 3590 4040	3660 3380 3220 3150 3130 3200	2650 2770 3080 3140 3000 3020	2840 2770 2850 2800 2640
TOTAL	480200	421610	350610	233490	121090	628760	798300	369520	146220	124260	99130	89440
MEAN	15490	14050	11310	7532	4176	20280	26610	11920	4874	4008	3198	2981
MAX	32900	48700	20200	11200	5380	88700	47800	32900	7300	5710	4470	3730
MIN	7770	6930	7580	4720	3480	3370	11300	4620	3590	3100	2500	2640
CAL YR WTR YR	1979 TO:		4040 MEA 2630 MEA			06000 M: 88700 M:	IN 3300 IN 2500					

COLI-

OXYGEN

STREP-

DELAWARE RIVER BASIN

01463500 DELAWARE RIVER AT TRENTON, NJ--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD .-- Water years 1945 to current year.

PERIOD OF DAILY RECORD.-SPECIFIC CONDUCTANCE: June 1968 to September 1978, May 1979 to current year.
pH: June 1968 to September 1978, May to September 1978, February to September 1980.
WATER TEMPERATURES: October 1944 to September 1978, May 1979 to current year.
DISSOLVED OXYGEN: October 1962 to September 1978, May 1979 to current year.
SUSPENDED-SEDIMENT DISCHARGE: September 1949 to current year.

SPE-

INSTRUMENTATION. -- Temperature recorder since October 1944, water-quality recorder since October 1962.

REMARKS. -- Missing continuous water-quality records are the result of malfunction of sensor or sampling mechanism.

EXTREMES FOR PERIOD OF DAILY RECORD .--

SPECIFIC CONDUCTANCE: Maximum, 400 micromhos Jan. 24, 1959; minimum, 50 micromhos Mar. 19, 1945. 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 0.0°C on many days during winter months. DISSOLVED OXYGEN: Maximum, 18.4 mg/L January 10, 1980; minimum, 4.0 mg/L Nov. 9, 1972. SEDIMENT CONCENTRATIONS: Maximum daily, 1,720 mg/L Nov. 26, 1950; minimum daily, less than 0.5 mg/L Oct. 21, 1952 and Jan. 18, 1970. SEDIMENT LOADS: Maximum daily, 1,087,000 tons (986,126 tonnes) Aug. 20, 1955; minimum daily, less than 0.5 ton (0.45 tonnes) Oct. 21, 1952.

EXTREMES FOR CURRENT YEAR.--SEDIMENT CONCENTRATIONS: Maximum daily mean, 550 mg/L Mar. 22, 1980; minimum daily mean, 1 mg/L on several days during January, February and March.
SEDIMENT LOADS: Maximum daily, 104,000 tons (94,000 Mg) Mar. 22, 1980; minimum daily, 9.1 tons (8.3 Mg) Mar. 4, 1980.

DATE	Т	IME	STRE FLO INST TANE (CF	AM- CON W, DUG AN- ANG OUS (MIC	FIC N- CT-	FIE	PH ELD ITS)	TEMPH ATUR WATE (DEG	RE, ER	TU BI IT (NT	Y	SOL	EN, S-	DEMAN CHEMICAL (HIG LEVEL (MG/L	D, (- I H (OXYGEN DEMAND, BIOCHEM JNINHIB 5 DAY MG/L)	FOR FEC 0.7 UM- (COL 100	M, AL, MF S./	TOCOC FECA KF AC (COLS PEF 100 M	CCI AL, GAR S.
NOV 29	1	330	22	600	81		7.1		8.5	_	. 0		1.2		32	1.6	-	700	20	000
DEC																			20	
12 JAN	1	230	9	110	160		7.6		5.0	1	. 0	1	3.3		5	1.0		90		26
23	1	130	6	140	192		8.1	3	3.5		.50	1	3.8		16	1.3		15	K	K11
FEB 13	. 1	130	3	880	223		8.7	2	2.5		.80	1	6.9			1.6		К7		34
MAR 26	1	200	41	000	98		7.3	1	4.0		.50	1	4.0		12	1.9		140	2	230
A PR 23		200		200	128		7.7		3.0		. 0		0.7		11	1.5		100		(52
MAY																				
15 JUN	1	230	12	000	151		7.7	11	7.5	1	. 6	. 1	0.4			2.0		150		87
18 JUL	1	200	4	080	212		9.2	21	4.0		. 30	1	1.8	-		4.1		8	2	200
24	1	130	4	220	224		8.8	28	3.0	3	. 0		8.9	- 0		3.0		K39	2	200
AUG 12	1	100	2	890	198		8.5	21	7.5	2	. 3		8.1	- 4		2.3		K9	6	560
SEP 16	1	305	3	030	225		8.3	22	2.0		. 30		9.1		14	1.9		71	2	290
	DATE	1	HARD- NESS (MG/L AS CACO3)	CALCIUM DIS- SOLVED (MG/L AS CA)	S D SO (M	GNE- IUM, IS- LVED G/L MG)	(MC	S- VED	SI		A:	ITY G/L	SULF DIS SOL (MG AS S	VED /L	CHLC RIDE DIS- SOLV (MG/ AS C	E, R ZED S ZL (LUO- IDE, DIS- OLVED MG/L S F)	(MC	S- VED G/L	
	ov 29		31	8.5		2.4		3.2		1.2		22	1	2	5	5.1	. 1		4.6	
	EC 12		61	16		5.1		7.0		1.3		34	2	1	9	. 9	. 1		4.6	
J	AN 23		71	18		6.4		8.5		1.1		46	2	5	11		. 1		4.1	
	EB 13		83	22		6.9		9.8		1.6		52	2	6	14		. 1		2.2	
	AR 26		33	8.9		2.7		4.9		1.1		16	1	3	6	. 9	. 1		4.0	
	PR 23		45	12		3.7		5.0		1.1		25	1	6	8	. 0	. 1		3.0	
	AY 15		56	14		5.0		7.7		1.1		31	1	9	9	. 2	. 1		4.1	
	UN 18		83	21		7.3		9.3		1.6		52	2	6	14		. 1		1.9	
J	UL 24		86	22		7.6		9.6		1.9		62		9	13	3	.1		3.8	
A	UG 12		70	18		6.2		8.9		1.6		45		2	12		.1		3.1	
	EP 16		79	20		7.1		10		1.9		46		6	14		. 1		2.6	
			13	20		1.1		U		1.9		40	~	U	14				2.0	

DELAWARE RIVER BASIN
01463500 DELAWARE RIVER AT TRENTON, NJ--Continued

		SOLIDS, RESIDUE AT 180 DEG. C DIS- SOLVED	SEDI- MENT, SUS- PENDED		² FINER THAN	TOT	RO- N, NO NO3 AL :	NITRO- GEN, 02+N03 DIS- SOLVED (MG/L	NITRO- GEN, AMMONIA TOTAL (MG/L	NITRO- GEN, AMMONIA DIS- SOLVED (MG/L	NITRO- GEN, ORGANIC TOTAL (MG/L	ORGANI DIS- SOLVE (MG/I	ic ED
DA	TE	(MG/L)	(MG/L)	(T/DAY)	.062 MM	AS	N)	AS N)	AS N)	AS N)	AS N)	AS N)
NOV 29		54	104	9440	68		. 62	.58	.060	.060	.81		52
DEC		98	10				. 1	1.1	.110	.090	. 41		07
JAN		98	1				. 3	1.1		.070			38
FEB												100	
MAR		118	1				. 2	1.2	.080	.080	.20		20
APR	• • •	67	37				. 96	. 89	. 100	. 100			16
23 MAY	• • •	80	9	369	63		. 75	.72	.050	.050	. 21		13
		94	17	551	70	1	. 0	1.0	.070	.070	. 29		24
18		125	13	143	63	1	. 1	1.1	.040	.020	.60		24
		149	9	103	86	1	. 0	1.0	.010	.000	. 18		16
		100	3	23	70		.72	.70	.020	.010	. 25		19
SEP 16		138	4	33	8 65	1	. 2	1.2	.020	.020	.28		14
DA		NITRO- GEN, AM- MONIA + ORGANIC TOTAL (MG/L AS N)	NITRO- GEN, NH4 + ORG. SUSP. TOTAL (MG/L AS N)	GEN, AM-	NITRO- GEN,	NIT	N, PI AL /L	PHOS- HORUS, TOTAL (MG/L AS P)	PHOS- PHORUS, DIS- SOLVED (MG/L AS P)	CARBON, ORGANIC TOTAL (MG/L AS C)	CARBON, ORGANIO DIS- SOLVED (MG/L AS C)		ić D
NOV		.87	. 29	.58	3 1.2	1	. 5	.110	.110		4.3	2	1
DEC		.52	.36				. 6	.070	.060	2.8			20
JAN													
FEB	• • •			. 45	1.6			. 170	.060	2.7	1	41	
		.28	.00	. 28	1.5	1	. 5	.100	.090		3.0		. 8
		.35	.09	. 26	1.2	1	. 3	.060	.030	5.0			
APR 23		.29	.11	. 18	.90	1	. 0	.050	.030	2.1			
MAY 15		.36	.05	•3			. 4	.060	. 050		3.6		. 3
JUN		.64	.38				. 7	. 100	.050	2.0			_
JUL		. 19	.03				. 2	. 130	.060	3.6			
AUG													
SEP	• • •	.27	.07				.99	. 100	.070		3.1		. 4
10	• • •	.30	. 14	. 10	1.4	1	. 5	. 130	. 110	2.6		- 3 15	
ATE	TIM	ARSE TOT IE (UG AS	NIC PE AL TO	NDED I TAL SO G/L (U	SENIC TO DIS- RE DLVED ER UG/L (U	IUM,	BARIUM SUS- PENDED RECOV ERABL (UG/L AS BA	BARI - DIS E SOLV	- REC	TAL PER COV- RECABLE ERA	COV- D ABLE SC G/L (U	OMIUM TO DIS- H DLVED H G/L (CHRO- MIUM, TOTAL RECOVERABLI (UG/L AS CR
V 9	133	80	1	0	1	40		0	40	2	0	2	10
B 3	113		1	0	1	100	7			2	0	2	
Y									30				<10
5 G	123		2	1	1	<50	-		30	0	0	0	10
2	110	00	1	0	1	100	-	-	<50	0	0	<10	<1

01463500 DELAWARE RIVER AT TRENTON, NJ--Continued

DATE	CHRO-MIUM, SUS-PENDED RECOV. (UG/L AS CR)	CHRO-MIUM, DIS-SOLVED (UG/L AS CR)	COBALT, TOTAL RECOV- ERABLE (UG/L AS CO)	COBALT, SUS- PENDED RECOV- ERABLE (UG/L AS CO)	COBALT, DIS- SOLVED (UG/L AS CO)	COPPER, TOTAL RECOV- ERABLE (UG/L AS CU)	COPPER, SUS- PENDED RECOV- ERABLE (UG/L AS CU)	COPPER, DIS- SOLVED (UG/L AS CU)	IRON, TOTAL RECOV- ERABLE (UG/L AS FE)	IRON, SUS- PENDED RECOV- ERABLE (UG/L AS FE)	IRON, DIS- SOLVED (UG/L AS FE)
NOV 29	0	10	5	0	5	8	5	3	2600	1800	790
FEB 13	0	<10	0	0	0	7	4	3	140	120	20
MAY 15		<10	0	0	0	5	1	4	350	310	40
AUG 12		<10	0	0	0	4	1	3	180	160	20
DATE	LEAD, TOTAL RECOV- ERABLE (UG/L AS PB)	LEAD, SUS- PENDED RECOV- ERABLE (UG/L AS PB)	LEAD, DIS- SOLVED (UG/L AS PB)	MANGA- NESE, TOTAL RECOV- ERABLE (UG/L AS MN)	MANGA- NESE, SUS- PENDED RECOV. (UG/L AS MN)	MANGA- NESE, DIS- SOLVED (UG/L AS MN)	MERCURY TOTAL RECOV- ERABLE (UG/L AS HG)	MERCURY SUS- PENDED RECOV- ERABLE (UG/L AS HG)	MERCURY DIS- SOLVED (UG/L AS HG)	NICKEL, TOTAL RECOV- ERABLE (UG/L AS NI)	NICKEL, SUS- PENDED RECOV- ERABLE (UG/L AS NI)
NOV 29	7	5	2	260	140	120	<.1	.0	<.1	5	4
FEB 13	4	4	0	40	10	30	<.1	.0	<.1	3	1
MAY 15	4	4	0	50	40	10	.2	.0	.2	1	1
AUG 12	3	0	3	60	50	- 10	.1		<.1	4	4
DATE	NICKEL, DIS- SOLVED (UG/L AS NI)	SELE- NIUM, TOTAL (UG/L AS SE)	SELE- NIUM, SUS- PENDED TOTAL (UG/L AS SE)	SELE- NIUM, DIS- SOLVED (UG/L AS SE)	SILVER, TOTAL RECOV- ERABLE (UG/L AS AG)	SILVER, SUS- PENDED RECOV- ERABLE (UG/L AS AG)	SILVER, DIS- SOLVED (UG/L AS AG)	ZINC, TOTAL RECOV- ERABLE (UG/L AS ZN)	ZINC, SUS- PENDED RECOV- ERABLE (UG/L AS ZN)	ZINC, DIS- SOLVED (UG/L AS ZN)	GROSS ALPHA, DIS- SOLVED (UG/L AS U-NAT)
NO V 29	1	0	0	0	0	0	0	70	30	40	<.8
FEB 13	2	1	1	0	0	0	0	40	0	40	
MAY 15	0	0	0	0	0	0	0	50	30	20	<1.3
AUG 12	0	0	0	0	0	0	0	20	20	0	
DATE	GROSS ALPHA, SUSP. TOTAL (UG/L AS U-NAT)	GROSS ALPHA, DIS- SOLVED (PCI/L AS U-NAT)	GROSS ALPHA, SUSP. TOTAL (PCI/L AS U-NAT)	GROSS BETA, DIS- SOLVED (PCI/L AS CS-137)	GROSS BETA, SUSP. TOTAL (PCI/L AS CS-137)	GROSS BETA, DIS- SOLVED (PCI/L AS SR/ YT-90)	GROSS BETA, SUSP. TOTAL (PCI/L AS SR/ YT-90)	RADIUM 226, DIS- SOLVED, RADON METHOD (PCI/L)	URANIUM DIS- SOLVED, EXTRAC- TION (UG/L)	PCB TOTAL (UG/L)	PCB, TOTAL IN BOT- TOM MA- TERIAL (UG/KG)
NOV 29	4.3	<.5	2.9	1.8	3.5	1.7	3.6	. 04	.20	ND	ND
FEB 13		44								ND	
MAY 15	<.4	<.9	<.3	1.4	<.4	1.4	<.4	. 04	.09		
AUG 12											
DATE	ALDRIN, TOTAL (UG/L)	ALDRIN, TOTAL IN BOT- TOM MA- TERIAL (UG/KG)	CHLOR- DANE, TOTAL (UG/L)	CHLOR-DANE, TOTAL IN BOT- TOM MA- TERIAL (UG/KG)	P,P' DDD, TOTAL IN BOT- TOM MA- TERIAL (UG/KG)	DDD, TOTAL (UG/L)	O,P' DDE, TOTAL IN BOT- TOM MA- TERIAL (UG/KG)	P,P' DDE, TOTAL IN BOT- TOM MA- TERIAL (UG/KG)	DDE, TOTAL (UG/L)	O,P' DDT, TOTAL IN BOT- TOM MA- TERIAL (UG/KG)	P,P' DDT, TOTAL IN BOT- TOM MA- TERIAL (UG/KG)
NO V 29	ND	ND	ND	ND	6.8	ND	ND	18	ND	ND	36
FEB 13	ND		ND			ND			ND		
MAY 15									100		
AUG										122	

DELAWARE RIVER BASIN

01463500 DELAWARE RIVER AT TRENTON, NJ--Continued

DATE	DD' TOTI (UG.	ΑĹ	DI- AZINON TOTAL (UG/L	AZII TO: IN I TOM TEI	I- NON, TAL BOT- MA- RIAL /KG)	DI- ELDR TOTA (UG/	IN TO L 1	DI- DRIN, FOTAL N BOT- DM MA- FERIAL JG/KG)	ENDR TOT (UG	AL	ENDRIN TOTAL IN BOT TOM MA TERIA (UG/KO	L F - A - E T A L T	THION, TOTAL (UG/L)	ETHI TOT IN B TOM TER (UG/	AL OT- MA- IAL	HEPTA- CHLOR, TOTAL (UG/L)	CH TC IN TOM TE	EPTA- HLOR, DTAL BOT- M MA- ERIAL G/KG)
NOV 29 FEB		ND	N	D	ND		ND	.9		ND	1	ND	ND		ND	NI)	ND
13		ND	N	D			ND			ND			ND			NI	,	
MAY 15			-	_														
AUG 12			_	_														
DATE	HEP CHLC EPOX TOT (UG	OR IDE AL	HEPTA CHLOR EPOXID TOT. I BOTTO MATL (UG/KG	E N M LINI	DANE TAL G/L)	LINDA TOTA IN BO TOM M TERI (UG/K	L T - N A - 1 AL 1	MALA- THION, TOTAL (UG/L)	MAL THI TOT IN B TOM TER (UG/	ON, AL OT- MA- IAL	METH- OXY- CHLON TOTAL (UG/L	- TOR, E	METH- DXY- CHLOR, DT. IN BOTTOM MATL. JG/KG)	PAR THI TOT	ON,	METHYL PARA- THION, TOT. IN BOTTOM MATL. (UG/KG)	TH TC	ETHYL TRI- HION, DTAL JG/L)
NOV		WD			WD			WB		N.D.			WD		W.D.			WD
29 FEB		ND	N	D	ND		ND	ND		ND		ND	ND		ND	NI	144	ND
13 MAY		ND	-	-	ND			ND			1	ND			ND			ND
15 AUG			-	-														
12			-	-													- 8	
ı	DATE	TH TOT BO M	TTOM ATL.	PARA- THION, TOTAL (UG/L)	TH TO IN TOM TE	RA- ION, TAL BOT- MA- RIAL /KG)	TOX- APHENI TOTAI (UG/I	PH TO IN E, TOM L TE	XA- ENE, TAL BOT- MA- RIAL /KG)	THI	RI- T	TRI- THION TOTAL IN BOT TOM MA TERIA (UG/KO	i, i- i- 2, iL TO	4-D, TAL G/L)	TO	TAL T	LVEX, OTAL UG/L)	
NC 2 FE	29		ND	ND		ND	1	ND	ND		ND	1	ID	ND		ND	NI)
1	13			ND			ı	ND			ND		-					
MA 1 AU	15							-					-					
	12												_				-	
				DATE	S	F	PERI- PHYTO BIOMAS TOTAL DRY WEIGH G/SQ	ON PE SS PH L BIO A HT WE	RI- YTON MASS SH IGHT SQ M	CHLC PEF PHY CHRC GRAF FLUC (MG/	RI- TTON DMO- C PHIC C	PERI- PHYTO CHROMO GRAPHI FLUORO (MG/M2	CHL ON PH O- RA IC PE OM PH	MASS ORO- YLL TIO RI- YTON ITS)				
				DEC														
				12 JAN		12	. 87	70	.790		090	.00	00 88	9			1.7	
				17 APR		23	14.2	12	. 9	3.	34	. 25	50 38	9				
				23 MAY		27	21.3	19	. 4	17.	9	.00	00 10	6				
				15 AUG		21	13.6	12	. 1	5.	98	. 82	20 25	1			-1.	
				08		14	1.65	5 1	. 02	3.	04	. 83	30 20	7				

DELAWARE RIVER BASIN 115 01463500 DELAWARE RIVER AT TRENTON, NJ--Continued

SPECIFIC CONDUCTANCE (MICROMHOS/CM AT 25 DEG. C), WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

	3	I ECIT IC	CONDUCTANO	E (HICKOMIC	JO/ CH AI	25 DEG.	o,, WAIER I	EAR OCIC	DEN 1919	TO DETTEMBER	1900	
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		OCTOBE	R		NO VEMBE	R		DECEMBE	ER		JANUA	RY
1										147	144	146
2 3 4										148 149	144	147 144
4										159	150	155
5										159	153	155
6										162	155	157
7 8										168 180	164	166 175
9										190	181	186 187
10										193	181	187
11										194	177	191 174
12 13							161	156		198 182	157 177	174
13 14							161	157	159	177	167	179 180
15							161	159	160	172	169	171
16							157	149	153	175	170	171
17 18							157 164	147	15C 160	174	169	
19							164	162	163			
20							165	160	163			
21							166	161	163			
22							174 173	166 163	169 166			
23							178	166	174			
25							182	173	179			
26 27							180 160	164 129	174 143			
28							131	126	128			
29 30							136 139	129 134	134 136			
31							146	138	142			
MONTH							182	126	156	198	142	168
							102	120	150	1,0	1.72	100
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		FEBRUAR	Y		MARCH			APRIL			MAY	
1							121	106	116	131	102	118
2				246	240		120 118	115 116	118 117	124 126	104	114
3 4				246	229	237	117	114	116	121	116	116 118
5				243	231	238	120	115	118	125	118	121
6				236	229	232	114	111	112	133	119	127
7 8				230 232	218 223	223 227	114 133	111	113 123	135 137	120 119	128
9				232	223	227	133	123	130	138	118	130 138
10				226	219	222	135	120	130	145	122	138
11				225	190	208	117	94	103	150	126	146
12 13				188 177	171 168	176 171	96 102	92 95	94 98	155 158	148	151 153
14				209	177	195	105	100	102	162	143	150
15				207	200	203	109	104	107	155	137	151
16	236	223	230	219	203	211	106	103	104	169	157	162
17 18	236	229	233	209 201	203 146	206 169	106 105	101 103	103 104	172 179	153 156	168
19				208	152	179	118	105	112	186	168	162 168 173 180
20				151	119	130	123	114	120	184	173	182
21	243	235	2112	124	102	114	132	122	126	188	183	185 182
22	247 249	241 238	243 242	127 79	81 74	108 76	136 137	130 133	133 135	187 184	177 178	182
24	249	237	241	89	80	85	145	136	141	186	176	180
25	250	242	246	100	90	96	150	145	148	188	179	182
26	244	228	234	100	97	99	160	150	156	187	181	184
27				103 113	98 103	101 108	168 182	161 164	165 170	191 196	185 189	189 193
29				121	113	117	177	156	169	203	195	199
30 31				119 112	113 105	117 107	150	125	136	207 221	201	210
MONTH	250	223	238	246	74	164	182	92	124	221	102	160
HOMIN	250	663	230	240	14	104	102	92	124	261	102	100

DELAWARE RIVER BASIN

01463500 DELAWARE RIVER AT TRENTON, NJ--Continued

SPECIFIC CONDUCTANCE (MICROMHOS/CM AT 25 DEC. C), WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

		SPECIFIC	CONDUCTANO	E (MICRON	HOS/CM	AT 25 DEC.	C), WATER Y	EAR OCTO	BER 1979	TO SE	PTEMBE	ER 1980	
DA Y	MA X	MIN	MEAN	MA X	MIN	MEAN	MA X	MIN	MEAN		MAX	MIN	MEAN
		JUNE			JUL	Y		AUGUST				SEPTEMB	ER
1	226	215	220	228	220	224	228	218	223		210	199	206
2	223	218	221	228	198	215	221	217	219		208	200	206
2	222	203	211	197	177	185	223	218	221		211	205	208
3	212		205		172	174	220	214	217		206	196	211
4		201		175				209			204	197	201
5	216	200	207	179	173	176	218	209			204	191	201
6	201	192	196	182	173	178					215	198	205
7	197	192	194	201	181	189					213	201	210
8	205	198	202	202	190	198					219	213	216
9				217	202	208					222	214	219
10				222	203	212					225	219	222
11				210	201	204					221	217	219
12				216	204	212					233	221	222
13				216	211	214	217	209			238	230	235
14				213	208	210	225	215	221		250	246	248
15				216	207	210	225	215	220		259	223	251
16				220	210	217					262	253	258
			214	230	218						267	182	227
17	220	210		226	213						237	138	192
18	220	213	216								261	190	204
19													
20											226	211	
21											239	227	232
22											238	225	232
23							229	217	220		239	219	
24				224	204		234	229	232				
25	225	217	221	218	212	215	239	235	237			7	
26	227	216	220	221	211	217	237	226	232				
27	239	221	225	220	207		234	224	228				
28	254	234	244	208	200		229	222	226				
29	255	233	240	212	195		237	229	233		232	228	
30	235	210	228	215	206		239	225	233		246	223	230
31				224	211	215	227	211	219				
MONTH	255	192	217	230	172	205	239	209	225		267	138	221
			PH	(STANDARD	UNITS).	WATER YEAR	R OCTOBER 19	79 TO SE	PTEMBER	1980			
DAY	MAX	MIN	MEAN	MAX			MAX	MIN	MEAN	16	MAX	MIN	MEAN
		ОСТОВЕ			NOVEMB			DECEMBER				JANUARY	

01463500 DELAWARE RIVER AT TRENTON, NJ -- Continued

PH (STANDARD UNITS), WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

							OCTOBER 19					
DA Y	MA X	MIN	MEAN	MA X	MIN	MEAN	MA X	MIN	MEAN	MA X	MIN	MEAN
		FEBRUAR	Y		MARCH			APRIL			MAY	
1 2							7.1 7.2	7.0 7.1	7.1 7.2	7.5 7.6	7.4	7.4
3							7.2	7.2	7.2	7.5	7.3	7.4
5				9.3	8.5 8.5	9.0 8.9	7.2 7.3	7.2	7.2 7.3	7.4	7.2	7.3 7.4
6					8.3			7.2		8.0		
7				9.3 9.0	8.4	8.9 8.7	7.3 7.4	7.3	7.3 7.3	8.2	7.3 7.3	7.6 7.7
8				8.9 8.5	7.9 7.5	8.4	7.4	7.3 7.2	7·3 7·3	7.7 8.0	7.3	7.5
10				8.7	7.5	8.1	7.3	7.2	7.3	8.3	7.3	7.8
11				8.4	7.8	8.0	7.3	7.3	7.3	8.1	7.4	7.8 7.5
12 13				8.6	7.8 7.7	8.2	7.3 7.5	7.3 7.3	7.3	8.1 7.4	7.3 7.2	7.5
14				8.2	7.6	7.8	7.5	7.4	7.5	7.4	7.2	7.3 7.3 7.5
15				8.5	7.6	8.0	7.5	7.5	7.5	7.8	7.3	
16 17	9.1 9.3	8.5	8.8	8.5 8.5	7.7 7.5	8.1 7.9	7.5 7.5	7.5 7.5	7.5 7.5	7.8 8.1	7.3	7.5 7.6
18				7.5	7.2	7.3	7.6	7.6	7.6	7.8	7.3	7.5 7.8
19 20				7.4	7.2	7.3 7.2	7.6 7.6	7.5 7.5	7.6 7.6	8.3 8.3	7.3 7.5	7.8
21	9.0	8.5		7.2	6.7	7.0	7.6	7.4	7.5	7.8	7.5	
22	8.7	7.9	8.4	7.2	6.8	7.0	7.6	7.4	7.5	8.3	7.5	7.6
23 24	8.7 8.8	7.7 7.8	8.2	6.7	6.7	6.7	7.7	7.4	7.5 7.6	8.6 8.6	7.7	8.0
25	8.8	7.8	8.3	6.9	6.9	6.9	7.7	7.2	7.5	8.9	7.8	8.4
26	8.9	8.0	8.5	7.0	6.9	7.0	7.5	7.2	7.3	9.1	8.2	8.8
27 28				7.0 7.1	7.0 7.0	7.0 7.0	7.7 7.8	7.3	7.4 7.5	9.3 9.3	8.6	9.0
29		'		7.1	7.1	7.1	7.5	7.5	7.5	9.3	8.8	9.1
30 31				7.1 7.1	7.1 7.0	7.1 7.1	7.5	7.4	7.5	9.1	8.5	8.8
MONTH	9.3	7.7	8.5	9.3	6.7	7.7	7.9	7.0	7.4	9.3	7.2	7.9
DA Y	MA X	MIN	MEAN	MA X	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		JUNE			JULY			AHOHOM				ED
1	9.1				JOLI			AUGUST			SEPTEME	ER
3	9.1	8.1	8.7	9.0	8.3	8.7	8.9	8.4	8.6	8.5	7.7	8.1
	8.5	8.1 7.9 7.5	8.7 8.3 7.8	9.0 8.5		8.7 8.7 8.4	8.9 9.0 9.0			8.5 8.5 8.4		
4	8.5 8.4 8.2	7.9 7.5 7.4	8.3 7.8 7.7	9.0 8.5 8.9	8.3 8.3 8.2 8.1	8.7 8.4 8.5	9.0 9.0 8.8	8.4 8.3 8.4 8.3	8.6 8.7 8.7 8.6	8.5 8.4 8.5	7.7 7.7 7.7 7.6	8.1 8.1 8.0 8.1
5	8.5 8.4 8.2 8.0	7.9 7.5 7.4 7.3	8.3 7.8 7.7 7.6	9.0 8.5 8.9 9.0	8.3 8.3 8.2 8.1 8.2	8.7 8.4 8.5 8.6	9.0 9.0 8.8 8.5	8.4 8.3 8.4 8.3 7.9	8.6 8.7 8.7 8.6	8.5 8.4 8.5 8.3	7.7 7.7 7.7 7.6 7.7	8.1 8.0 8.1 8.0
5	8.5 8.4 8.2 8.0	7.9 7.5 7.4 7.3	8.3 7.8 7.7 7.6	9.0 8.5 8.9 9.0	8.3 8.3 8.2 8.1 8.2	8.7 8.4 8.5 8.6	9.0 9.0 8.8	8.4 8.3 8.4 8.3	8.6 8.7 8.7 8.6	8.5 8.4 8.5 8.3	7.7 7.7 7.7 7.6 7.7	8. 1 8. 0 8. 1 8. 0 8. 1
5 6 7 8	8.5 8.4 8.2 8.0 8.2 8.4 8.5	7.9 7.5 7.4 7.3 7.4 7.4 7.6	8.3 7.8 7.7 7.6 7.7 7.9 8.0	9.0 8.5 8.9 9.0 9.2 8.9	8.3 8.2 8.1 8.2 8.3 8.5	8.7 8.4 8.5 8.6 8.8 8.8	9.0 9.0 8.8 8.5	8.4 8.3 8.4 8.3 7.9	8.6 8.7 8.7 8.6 	8.5 8.5 8.5 8.5 8.5	7.7 7.7 7.7 7.6 7.7 7.6 7.7	8. 1 8. 0 8. 1 8. 0 8. 1
5 6 7	8.5 8.4 8.2 8.0 8.2 8.4	7.9 7.5 7.4 7.3 7.4 7.4	8.3 7.8 7.7 7.6 7.7	9.0 8.5 8.9 9.0 9.2 8.9	8.3 8.2 8.1 8.2	8.7 8.4 8.5 8.6 8.8	9.0 9.0 8.8 8.5	8.4 8.3 8.4 8.3 7.9	8.6 8.7 8.7 8.6	8.5 8.4 8.5 8.3 8.5	7.7 7.7 7.7 7.6 7.7 7.6 7.7	8.1 8.0 8.1 8.0
5 6 7 8 9	8.5 8.4 8.2 8.0 8.2 8.4 8.5	7.9 7.5 7.4 7.3 7.4 7.4 7.6	8.3 7.8 7.7 7.6 7.7 7.9 8.0	9.0 8.5 8.9 9.0 9.2 8.9 9.0	8.3 8.3 8.2 8.1 8.2 8.3 8.5	8.7 8.4 8.5 8.6 8.8 8.7 8.8	9.0 9.0 8.8 8.5	8.4 8.3 8.4 8.3 7.9	8.6 8.7 8.6 	8.5 8.5 8.5 8.5 8.5 8.9 9.1	7.7 7.7 7.7 7.6 7.7 7.6 7.7 7.9 8.7	8.1 8.0 8.1 8.0 8.1 8.0 8.7 8.5
5 6 7 8 9 10 11 12	8.5 8.4 8.2 8.0 8.2 8.4 8.5	7.9 7.5 7.4 7.3 7.4 7.6 	8.3 7.8 7.7 7.6 7.7 7.9 8.0	9.0 8.5 8.9 9.0 9.2 8.9 9.0 9.1 9.1	8.3 8.2 8.1 8.2 8.5 8.5 8.5 8.5 8.5 8.5	8.7 8.4 8.5 8.6 8.8 8.7 8.8 8.9	9.0 9.0 8.8 8.5	8.4 8.3 8.4 8.3 7.9	8.6 8.7 8.7 8.6 	8.5 8.5 8.5 8.5 8.9 9.1 8.8 8.7	7.7 7.7 7.7 7.6 7.7 7.6 7.7 7.9 8.1 8.1	8.1 8.0 8.1 8.0 8.1 8.0 8.1 8.5 8.7
5 6 7 8 9 10	8.5 8.4 8.2 8.0 8.2 8.4 8.5	7.9 7.5 7.4 7.3 7.4 7.6	8.3 7.8 7.7 7.6 7.7 7.9 8.0	9.0 8.5 8.9 9.0 9.2 8.9 9.1 9.1	8.3 8.2 8.1 8.2 8.3 8.5 8.5 8.5 8.5	8.7 8.4 8.5 8.6 8.8 8.7 8.8 8.9	9.0 9.0 8.8 8.5	8.4 8.3 8.3 7.9	8.6 8.7 8.6 	8.5453 8.5919 8.6778 8.778.75	7.7 7.7 7.7 7.6 7.7 7.6 7.7 7.9 8.7 8.4	8.1 8.0 8.1 8.0 8.1 8.0 8.1 8.5 8.7 8.5 8.4 8.3
5 6 7 8 9 10 11 12 13	8.5 8.4 8.2 8.0 8.2 8.4 8.5	7.9 7.5 7.4 7.3 7.4 7.6 	8.3 7.8 7.7 7.6 7.7 7.9 8.0	9.0 8.5 8.9 9.0 9.2 8.9 9.0 9.1 9.1 9.2	8.3 8.2 8.1 8.2 8.5 8.5 8.5 8.5 8.5 8.5 8.5	8.7 8.4 8.5 8.6 8.8 8.7 8.8 8.9 8.8	9.0 9.0 8.8 8.5 9.1	8.4 8.3 8.4 8.3 7.9	8.6 8.7 8.6 	8.5 8.45 8.5 8.5 8.5 8.9 9.1 8.8 8.7	7.7 7.7 7.7 7.6 7.7 7.6 7.7 7.9 8.7 8.1 8.1	8.1 8.0 8.1 8.0 8.1 8.0 8.1 8.5 8.9 8.7
5 6 7 8 9 10 11 12 13 14 15	8.5 8.4 8.2 8.0 8.2 8.4 8.5 	7.9 7.5 7.4 7.3 7.4 7.6 	8.3 7.8 7.7 7.6 7.7 7.9 8.0 	9.0 8.5 9.0 9.2 8.9 9.1 9.1 9.1 9.2 9.3 9.3	8.33212 8.88.12 8.88.55 8.88.55 8.88.57 8.88.88 8.88.88 8.88.88	8.7 8.4 8.6 8.8 8.8 8.7 8.8 8.9 9.1	9.0 9.0 8.8 8.5 9.1 9.2 9.1	8.4 8.3 8.4 8.3 7.9	8.6 8.7 8.6 8.9 8.9	8.5 8.45 8.5 8.91 9.9 8.775 8.3 8.4	7.7 7.7 7.6 7.7 7.6 7.7 7.6 7.7 8.7 8.1 8.1 7.9 7.6 7.7	8.1 8.0 8.1 8.0 8.1 8.5 8.7 8.5 8.7 8.5 8.7 8.3
5 6 7 8 9 10 11 12 13 14 15	8.5 8.4 8.2 8.0 8.2 8.4 8.5	7.9 7.5 7.4 7.3 7.4 7.6 	8.3 7.8 7.7 7.6 7.7 7.9 8.0	9.0 8.5 9.0 9.2 8.9 9.1 9.1 9.2 9.2 9.3 9.3 9.3	8.33212 8.88.88 8.88.88 8.88.88 8.88.88 8.88.88	8.7 8.45 8.6 8.8 8.8 8.7 8.9 8.8 8.9 9.1 9.0 8.8	9.0 9.0 8.8 8.5 9.1 9.1	8.4 8.3 8.4 8.3 7.9	8.6 8.7 8.6 8.9 8.9	8.5 8.45 8.5 8.5 9.19 8.77 8.3 8.3 8.3 8.3	7.7 7.7 7.7 7.6 7.7 7.6 7.7 7.9 8.7 8.1 8.1 7.9 7.6 7.7	8. 1 8. 0 8. 1 8. 0 8. 1 8. 5 8. 9 8. 7 8. 5 8. 4 8. 3 8. 2 7. 9
5 6 7 8 9 10 11 12 13 14 15 16 17 18	8.5 8.4 8.2 8.0 8.2 8.4 8.5 9.3 9.3	7.9 7.4 7.3 7.4 7.6 	8.3 7.8 7.7 7.6 7.7 7.9 8.0 	9.0 8.5 9.0 9.2 8.9 9.1 9.1 9.1 9.2 9.3 9.1 9.1 9.1	88.88.88.88.88.88.88.88.88.88.88.88.88.	8.7 8.4 8.6 8.8 8.8 8.9 8.8 8.9 9.1 9.0 8.8 8.8	9.0 9.0 8.8 8.5 9.1 9.2 9.1	8.4 8.3 8.4 8.3 7.9	8.6 8.7 8.6 8.9 8.9	8.5453 55919 8.7753 4300 8.800	7.7 7.7 7.7 7.7 7.6 7.7 7.9 8.1 8.1 7.9 7.6 7.7 7.4 7.5	8.1 8.0 8.1 8.0 8.1 8.5 8.9 8.7 8.5 8.4 8.3 8.2 7.9
5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20	8.5 8.2 8.0 8.2 8.4 8.5 9.3 9.3	7.9 7.4 7.3 7.4 7.4 7.6 	8.3 7.8 7.7 7.6 7.7 7.9 8.0 8.9 9.1	9.0 8.5 9.0 9.2 8.9 9.1 9.1 9.1 9.2 9.3 9.1 9.1 9.2 9.3	8.33212 35.355 5.4557 85.344 8.88.88 8.88.88 8.88.88 8.88.88 8.88.88 8.	8.7 8.45 8.6 8.8 8.8 8.9 8.8 8.9 9.1 9.0 8.8 8.7 8.8	9.0 9.0 8.8 8.5 9.1 9.2 9.1	8.4 8.3 8.4 8.3 7.9	8.6 8.7 8.6 8.9 8.9	8.5 8.45 8.3 8.5 9.9 8.9 8.7 8.7 8.7 8.3 8.3 8.4 8.3 8.6 8.6 8.6 8.6 8.6 8.6 8.6 8.6 8.6 8.6	7.7 7.7 7.7 7.6 7.7 7.6 7.7 8.7 8.1 8.1 7.9 7.6 7.7 7.4 7.5 7.4	8. 1 8. 0 8. 1 8. 0 8. 1 8. 5 8. 9 8. 7 8. 5 8. 4 8. 2 7. 9 8. 0 7. 7 7. 7
5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	8.5 8.4 8.2 8.0 8.2 8.4 8.5 9.3 9.3	7.9 7.4 7.3 7.4 7.6 	8.3 7.8 7.7 7.6 7.7 7.9 8.0 	9.0 8.5 9.0 9.2 8.9 9.1 9.1 9.2 9.3 9.1 9.2 9.3 9.1 9.2 9.3	8.33212 8.88.88 8.88.88 8.88.88 8.88.88 8.88.88	8.7 8.4 8.6 8.8 8.7 8.8 8.9 9.0 8.7 8.8 8.7 8.9 9.0 8.7 8.9	9.0 9.0 8.8 8.5 9.1 9.2 9.1	8.4 8.3 8.4 8.3 7.9	8.6 8.7 8.6 8.9 8.9	8.5 8.45 8.5 8.5 9.9 8.7 8.7 8.7 8.3 8.3 8.3	7.7 7.7 7.7 7.6 7.7 7.6 7.7 7.9 8.1 8.1 7.9 7.6 7.7 7.4 7.4	8.1 8.0 8.1 8.0 8.1 8.5 8.9 8.7 8.5 8.9 7.7 7.7 7.7 7.8
5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23	8.5 8.2 8.0 8.2 8.4 8.5 9.3 9.3	7.9 7.4 7.3 7.4 7.4 7.6 8.5 8.8	8.3 7.8 7.7 7.6 7.7 7.9 8.0 8.9 9.1 	9.0 8.9 9.0 9.2 9.1 9.1 9.1 9.2 9.2 9.3 9.1 9.1 9.2 9.2 9.1 9.2 9.2 9.2 9.2 9.2	8.33.2.1.2 3.5.3.5.5 5.4.5.5.7 8.5.3.4.4 6.0.3 8.8.8.8.8.8.8.8.8.8.8.8.8.8.8.8.8.8.8	8.7 8.45 8.6 8.8 8.8 8.7 8.8 8.9 9.1 9.0 8.8 8.9 9.1 9.0 8.8 8.9	9.0 9.0 8.8 8.5 9.1 9.2 9.1	8.4 8.3 8.4 8.3 7.9	8.6 8.7 8.6 8.9 8.9	8.5453 55919 8.7753 43001 8.333 8.33	7.7 7.7 7.7 7.6 7.7 7.6 7.7 7.9 8.4 8.1 7.9 7.6 7.7 7.4 7.4 7.4	8.1 8.0 8.1 8.0 8.1 8.5 8.9 8.7 8.5 8.9 8.7 7.7 7.7 7.7 7.8
5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	8.5 8.4 8.2 8.0 8.2 8.4 8.5 	7.9 7.4 7.3 7.4 7.6 8.5 8.8	8.3 7.8 7.7 7.6 7.7 7.9 8.0 	9.0 8.5 9.0 9.2 8.9 9.1 9.1 9.2 9.3 9.1 9.2 9.3 9.1 9.2 9.3	8.33212 8.88.88 8.88.88 8.88.88 8.88.88 8.88.88	8.7 8.4 8.6 8.8 8.7 8.8 8.9 9.0 8.7 8.8 8.7 8.9 9.0 8.7 8.9	9.0 9.0 8.8 8.5 9.1 9.2 9.1	8.4 8.3 8.4 8.3 7.9	8.6 8.7 8.6 8.9 8.9	8.5 8.45 8.5 8.5 9.9 8.7 8.7 8.7 8.3 8.3 8.3	7.7 7.7 7.7 7.6 7.7 7.6 7.7 7.9 8.1 8.1 7.9 7.6 7.7 7.4 7.4	8.1 8.0 8.1 8.0 8.1 8.5 8.9 8.7 8.5 8.9 7.7 7.7 7.7 7.8
5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26	8.5 8.4 8.2 8.0 8.2 8.4 8.5 9.3 9.3 9.3	7.9 7.4 7.3 7.4 7.6 8.5 8.8 9.0	8.3 7.8 7.7 7.6 7.7 7.9 8.0 8.9 9.1 9.2 9.3	9.0 8.9 9.0 9.2 9.1 9.1 9.1 9.1 9.1 9.1 9.1 9.1 9.1 9.1	333212 35355 54557 85344 603334 68888 88888 88888 88888 88888 88888 88888	8.7 8.4 8.6 8.8 8.8 8.9 9.1 9.0 8.8 8.9 9.1 9.8 8.9 8.9 8.9 8.9 8.9 8.9 8.9 8.9	9.0 9.0 8.8 8.5 9.1 9.2 9.1 8.6 8.6 8.6 8.6	8.4 8.3 8.4 8.3 7.9 8.9 8.5 8.6	8.6 8.7 8.7 8.6 8.9 8.9 8.2 8.3 8.3	8.5453 55919 8.7753 43001 33334	7.7 7.7 7.7 7.7 7.7 7.7 7.9 8.4 8.1 7.9 7.6 7.7 7.4 7.4 7.4 7.4	8.1 8.0 8.1 8.0 8.1 8.5 8.9 8.5 8.4 8.3 8.2 7.9 7.7 7.7 7.8 7.8 7.8
5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27	8.5 8.4 8.2 8.0 8.2 8.4 8.5 9.3 9.3 9.4	7.9 7.5 7.4 7.3 7.4 7.6 8.5 8.8 9.0	8.3 7.8 7.7 7.6 7.7 7.9 8.0 8.9 9.1 9.2 9.3 9.2	9.0 8.9 9.0 9.2 9.1 9.1 9.1 9.2 9.3 9.1 9.1 9.2 9.0 9.2 9.0 9.2 9.0 9.2 9.3 9.0 9.3 9.0 9.0 9.0 9.0 9.0 9.0 9.0 9.0 9.0 9.0	8.33212 35355 54557 85344 603334 666 8.8888	8.7 8.4 8.6 8.8 8.7 8.8 8.9 9.0 8.7 8.8 8.7 8.9 9.0 8.7 8.7 8.7 8.9	9.0 9.0 8.8 8.5 9.1 9.1 9.2 9.1 8.6 8.6 8.6 8.7 8.7	8.4 8.3 8.4 8.3 7.9 8.9 8.6 7.8 7.8 7.8	8.6 8.7 8.7 8.6 8.9 8.9 8.2 8.3 8.3 8.3	8.5453 8.55919 8.7753 8.7753 8.3334 8.3334 8.3334 8.3334	7.7 7.7 7.7 7.6 7.7 7.6 7.7 7.9 8.1 8.1 7.9 7.6 7.7 7.4 7.4 7.4 7.4	8. 1 8. 0 8. 1 8. 0 8. 1 8. 5 8. 9 8. 5 8. 4 8. 3 8. 2 7. 7 7. 7 7. 7 7. 8 7. 8 7. 8 7. 8
5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29	8.5 8.4 8.2 8.0 8.2 8.4 8.5 9.3 9.3 9.3 9.4 9.5 9.4 9.5	7.9 7.4 7.3 7.4 7.6 6 8.5 8.8 8.8 9.0 9.1 9.0 8.8	8.3 7.8 7.7 7.6 7.7 7.9 8.0 8.9 9.1 8.9 9.1 9.2 9.3 9.2 9.2	9.0 8.9 9.0 9.0 9.0 9.1 9.1 9.1 9.1 9.1 9.1 9.1 9.1 9.1 9.1	33212 35355 54557 85344 603334 66663 8.888 8.888 8.8888 8.	8.7 8.4 8.6 8.8 8.8 8.9 9.1 9.0 8.8 8.9 9.0 8.9 8.9 8.9 8.9 8.9 8.9 8.9 8.9 8.9 8.9	9.0 9.0 8.8 8.5 9.1 9.2 9.1 9.2 9.1 8.6 8.6 8.6 8.7 8.7 8.7	8.4 8.3 8.4 8.3 7.9 8.9 8.6 8.6 7.8 7.8 7.8 7.8	8.6 8.7 8.7 8.6 8.9 8.9 8.2 8.3 8.3 8.4 8.3 8.4	8.5453 8.5919 8.7753 8.3334 8.3001 8.3334 8.43001 8.3334 8.43001	7.7 7.7 7.7 7.7 7.7 7.7 7.9 8.4 8.1 7.9 7.7 7.4 7.4 7.4 7.4 7.4 7.4 7.4 7.4	8.1 8.0 8.1 8.0 8.1 8.5 8.9 8.7 7.7 7.7 7.7 7.8 7.8 7.8
5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28	8.5 8.2 8.0 8.2 8.4 8.5 9.3 9.3 9.3 9.4	7.9 7.4 7.3 7.4 7.6 6 8.5 8.8 8.8 9.0 9.1 9.0	8.3 7.8 7.7 7.6 7.7 7.9 8.0 8.9 9.1 9.2 9.3 9.2	9.0 8.9 9.0 9.1 9.1 9.1 9.1 9.1 9.1 9.1 9.1 9.1 9.1	33212 35355 54557 85344 60334 6666 8.888 8.888 8.888 8.888 8.8888	8.7 8.45 8.8 8.8 8.8 8.8 8.9 9.0 8.8 8.7 8.9 9.0 8.7 8.9 9.0 9.0 9.0 9.0	9.0 9.0 8.8 8.5 9.1 9.2 9.1 8.6 8.6 8.6 8.7 8.7	8.4 8.3 8.4 8.3 7.9 8.9 8.6 7.8 7.8 7.8 7.9	8.6 8.7 8.7 8.6 8.9 8.9 8.2 8.3 8.3 8.3 8.3	8.5453 55919 8.7753 43001 33334	7.7 7.7 7.7 7.7 7.7 7.7 7.7 7.7 7.9 8.4 8.1 7.9 9 7.7 7.7 7.4 7.4 7.4 7.4 7.4	8. 1 8. 0 8. 1 8. 0 8. 1 8. 5 8. 9 8. 7 8. 5 8. 4 8. 3 8. 2 7. 7 7. 7 7. 7 7. 7 7. 8 7. 8 7. 8
5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30	8.5 8.2 8.0 8.2 8.4 8.5 9.3 9.3 9.4 9.5 9.4 9.5 9.4 9.5	7.9 7.54 7.4 7.6 8.5 8.8 9.0 9.1 9.0 9.0 9.8 8.8	8.3 7.8 7.7 7.6 7.7 7.9 8.0 8.9 9.1 9.2 9.2 9.2 9.2 9.0 8.7	9.0 8.9 9.0 9.0 9.0 9.1 9.1 9.1 9.1 9.1 9.1 9.1 9.1 9.1 9.1	332112 35355 54557 85344 603334 666632 8.8888 8.888	8.7 8.4 8.6 8.8 8.8 8.9 9.1 9.0 8.8 8.9 9.1 9.0 8.7 8.8 9.9 8.7 8.8 9.9 8.7 8.8	9.0 9.0 8.8 8.5 9.1 9.2 9.1 8.6 8.6 8.7 8.7 8.5 8.5	8.4 8.3 8.4 8.3 7.9 8.9 8.6 7.8 7.8 7.8 7.8 7.9	8.6 8.7 8.7 8.6 8.9 8.9 8.2 8.3 8.3 8.3 8.4 8.3 8.4	8.5 8.45 8.5 8.5 9.9 8.7 8.7 8.7 8.3 8.3 8.3 8.3 8.3 8.3 8.7 7	7.7 7.7 7.7 7.7 7.6 7.7 7.9 8.4 8.1 7.9 7.6 7.7 7.4 7.4 7.4 7.4 7.4 7.4 7.4 7.4 7.4	8.1 8.0 8.1 8.0 8.1 8.5 8.9 8.7 7.7 7.7 7.7 7.8 7.8 7.8 7.8 7.8 7.8

TEMPERATURE, WATER (DEG. C), WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

				TEMPERATURE,	WAILK	(DEG. C	, walli	I LA	N OOTODE.	1 1919 10	, 001110	BER 1900		
DAY		MAX	MIN	MEAN	MAX	MIN	MEAN		MAX	MIN	MEAN	MAX	MIN	MEAN
			OCTOBER			NOVEMBE	R			DECEMBER	?		JANUAR	Y
1 2 3 4 5									5.0 5.0 5.0	5.0 4.5 4.0	4.5 4.5	4.5 4.0 4.0 3.5 3.0	4.0 3.5 3.5 3.0 2.5	4.0 4.0 3.5 3.0 3.0
6 7 8 9									5.0 6.0 6.5 6.0	4.5 5.0 5.5 5.0 5.0	4.5 5.5 6.0 5.5 5.5	3.0 2.5 3.0 3.0	2.0 2.0 2.0 2.5 2.0	2.5 2.5 2.5 2.5 2.5
11 12 13 14 15									6.0 7.0 7.0 6.5 6.0	5.0 6.0 6.5 6.0 5.5	5.5 6.5 6.0 6.0	5.0 5.5 3.5 4.0 5.5	2.0 3.5 3.0 3.0 4.0	3.5 4.5 3.5 4.5
16 17 18 19 20									5.5 5.5 3.0 2.5 2.0	5.0 3.0 2.5 2.0 1.5	5.0 4.5 3.0 2.0 2.0	5.5 5.0 	4.5 4.5 	5.0
21 22 23 24 25							1		2.0 3.0 4.0 5.0 6.5	1.5 2.0 3.0 4.0 5.0	2.0 2.5 3.5 4.5 6.0			
26 27 28 29 30 31									7.0 6.0 5.0 5.5 5.5	6.0 5.0 4.5 4.0 4.5	6.5 5.5 5.0 4.5 5.0 4.5	, ==		
MONT	Н								7.0	1.5	4.5	5.5	2.0	3.5
DAY		MAX	MIN	MEAN	MAX	MIN	MEAN		MAX	MIN	MEAN	MAX	MIN	MEAN
DAI		MAA	FEBRUARY		HAA	MARCH			HAA	APRIL	TLAN		MAY	
1 2 3 4 5		=======================================		=======================================	2.0 4.0 4.0	.0	2.0		6.5 7.0 8.0 8.5 9.0	5.0	6.0 6.5 7.0 8.0 8.5	12.5 14.0 16.0 16.5 17.5	11.0 12.5 13.5 15.0 15.5	11.5 13.0 14.5 15.5 16.5
6 7 8 9		===	==		6.5 6.0 8.0 8.5 9.0	3.5 4.5 5.5 6.5 6.0	5.0 5.0 7.0 7.5 7.5		9.5 10.0 10.5 11.0 12.0	8.0 8.5 9.5 10.5 10.5	8.5 9.5 10.0 11.0	18.5 19.0 18.5 16.5 17.0	17.0 17.0 16.5 15.5	17.5 18.0 17.0 16.0 16.0
11 12 13 14 15		=			8.0 5.5 4.5 2.5 4.5	5.5 4.0 2.0 2.0 1.5	7.0 5.0 3.5 2.0 3.0		11.5 11.0 12.0 12.0 11.5	11.0 10.0 10.5 11.0	11.0 11.0 11.5 11.5	16.0 16.0 17.5 18.0 18.5	15.5 15.0 15.5 16.5	15.5 15.5 16.5 17.5 17.5
16 17 18 19 20		3.0	1.5	2.5	5.5 6.5 6.5 6.5	2.5 4.5 5.5 5.5 4.5	4.0 5.5 6.0 6.0 5.0		10.5 9.5 10.0 10.5 12.0	9.5 8.5 8.5 9.0 10.0	10.0 9.0 9.0 10.0	18.5 19.0 17.5 19.0 19.0	16.5 17.0 17.0 17.0 18.5	17.5 18.0 17.0 18.0 18.5
21 22 23 24 25		6.5 5.0 6.0 6.5 6.0	3.5 4.0 4.0 5.0 4.5	4.5 5.0 5.5 5.0	7.0 6.0 3.0 4.5 4.5	5.0 3.5 2.0 3.0 4.5	6.0 5.0 2.5 4.0		13.5 14.0 14.5 15.0	11.5 12.0 12.5 13.0 14.0	12.5 13.0 13.5 14.0 14.5	18.5 20.0 22.0 22.5 24.0	17.5 17.0 19.5 21.0 21.0	18.0 18.5 20.5 21.5 22.0
26 27 28 29 30 31		5.5	2.5	4.0 	4.5 5.5 6.5 7.0 7.5 7.0	4.0 5.0 6.0 6.5 5.5	4.5 5.0 5.5 6.5 7.0 6.5		14.5 13.5 13.0 12.0 11.5	13.5 13.0 11.5 11.5	14.0 13.5 12.5 11.5	23.0 21.5 22.0 23.5 22.0 22.5	20.5 19.5 19.0 20.0 20.5 20.0	21.5 20.5 20.5 21.5 21.0 21.0
MONT	гн	6.5	.5	4.0	9.0	.0	5.0		15.0	5.0	11.0	24.0	11.0	18.0

01463500 DELAWARE RIVER AT TRENTON, NJ -- Continued

DATE MAX				TEMPER	ATURE, WATE	R (DEG.	C), WATER	YEAR OCTOBER	1979 T	O SEPTEMBER	1980		
2	DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
2 24.0 23.0 23.5 27.5 24.5 27.5 24.9 25.5 31.5 27.0 28.5 31.0 27.7 25.5 26.0 27.0 25.5 27.0 5 23.0 20.5 21.5 26.5 24.5 25.5 31.5 27.0 28.5 31.0 27.0 25.5 26.5 27.0 5 23.0 20.5 21.5 26.5 24.5 25.5 31.0 28.0 29.5 27.0 25.5 26.0 27.0 25.5 26.0 27.0 28.5 21.5 26.5 24.5 25.5 31.0 28.0 29.5 27.0 25.5 26.0 27.0 28.5 21.5 21.0 22.5 26.0 26.5 24.5 24.5 24.5 24.5 24.5 24.5 24.5 24			JUNE			JUL	Y		AUGUST			SEPTEMB	ER
7 24.5 21.0 22.5 26.0 22.5 24.0 28.0 25.0 26.5 26.5 28.5 28.5 28.5 28.5 28.5 28.5 28.5 28	2 3 4	24.0 25.0 23.0	23.0 22.5 21.0	23.5 23.0 22.0	27.5 25.5 27.5	24.5 24.5 23.5	25.5 25.0 25.5	30.5 31.5 31.5	27.0 27.5 28.0	28.5 29.0 29.5	31.0 30.0 29.0	27.5 27.0 25.5	29.0 28.5 27.0
12	7 8 9	24.5	21.0	22.5	26.0 25.5 27.5	22.5 23.5 23.5	24.0 24.5 25.5	==	===		28.0 27.5 26.5	25.0 23.5 23.0	26.5 25.5 24.5
17	12 13 14	===	===	===	28.5 28.5 29.5	25.5 24.5 24.5	27.0 26.5 27.0	29.5 28.5	27.5 26.0	27.5	26.0 26.0 25.0	22.5 22.0 23.5	24.0 23.5 24.0
22	17 18 19	25.5	20.5	23.0	29.0 30.0 30.5	26.5 26.5 27.5	27.5 28.5	===	===		22.5 24.0 24.0	20.5 21.5 21.0	21.5 22.5 22.5
27 29.5 25.5 27.0 30.5 27.0 28.5 29.5 26.0 27.5 29 28.5 25.5 26.5 27.5 29.5 26.0 27.5 28.0 29 28.5 25.5 26.5 27.5 26.0 27.5 29.5 26.0 27.0 20.0 17.5 18.5 31 2 30.2 5.5 26.5 27.5 28.5 28.5 29.5 26.0 27.5 27.0 20.0 17.5 18.5 31 2 30.5 26.5 28.5 28.5 29.5 26.0 27.5 27.0 20.0 17.5 18.5 31 2 30.5 26.5 28.5 28.5 29.5 26.0 27.5 27.0 20.0 17.5 18.5 31 2 10.0 30.5 26.5 28.5 28.5 29.5 26.0 27.5 27.0 20.0 17.5 18.5 31 2.5 25.5 28.5 29.5 26.0 27.5 27.0 20.0 17.5 18.5 24.5 27.0 20.0 17.5 18.5 24.5 27.0 20.0 17.5 18.5 24.5 27.0 20.0 17.5 18.5 24.5 27.0 20.0 17.5 18.5 24.5 27.0 20.0 17.5 18.5 24.5 27.0 20.0 17.5 18.5 24.5 27.0 20.0 17.5 18.5 24.5 27.0 20.0 17.5 18.5 24.5 27.0 20.0 17.5 18.5 24.5 27.0 20.0 17.5 18.5 24.5 27.0 20.0 17.5 18.5 24.5 27.0 20.0 17.5 18.5 24.5 27.0 20.0 17.5 18.5 24.5 27.0 20.0 17.5 18.5 24.5 27.0 20.0 17.5 18.5 24.5 27.5 27.0 20.0 17.5 18.5 24.5 27.0 20.0 17.5 18.5 27.0	22 23 24	===	===	===			===	27.5 28.5	22.5	25.0 26.0	27.0 26.5 25.0	23.0 24.0 22.0	24.5 25.0 23.0
OXYGEN, DISSOLVED (DO), MG/L, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980 DAY MAX MIN MEAN MAX MIN MEAN MIN MEAN MAX MIN MAX	27 28 29 30	29.5 29.0 28.5 27.0	25.5 26.0 25.5 25.0	27.0 27.0 26.5 26.0	30.5 28.5 27.5 30.0	27.0 26.5 26.0 26.0	28.5 27.5 27.0 28.0	29.5 29.5 28.0 28.5	26.0 26.0 26.0 25.5	27.5 28.0 27.0 27.0	19.0	18.0 17.5	18.5
DAY MAX MIN MEAN		20 5	20.5	24.0	31.0	22.5	26.5	31.5	22.5	27.5	31.0	17.5	24.5
DAY MAX MIN MEAN	MONTH	29.3											
1	MONTH	23.3		OXYGEN.	DISSOLVED	(DO), M	G/L. WATER	YEAR OCTOBER	1979 T	O SEPTEMBER	1980		
2												MIN	MEAN
7 13.7 13.3 13.4 17.5 15.4 16.5 9 13.3 12.8 13.1 18.0 15.6 16.5 10 13.6 12.8 13.2 18.3 15.9 16.9 11 13.7 12.9 13.2 17.7 14.1 16.9 12 13.2 12.4 12.8 14.0 12.8 13.3 13 12.5 11.8 12.2 14.2 13.1 13.6 14 13.1 12.5 13.1 14.9 13.2 13.1 13.0 15 13.7 12.5 13.1 14.9 13.3 13.3 15 13.7 13.2 13.4 14.0 14.0 14.0 15 13.7 13.2 13.4 14.6 12.5 13.8 16 13.7 13.2 13.4 14.6 12.5 13.5 17 14.5 13.1 14.9 13.5 13.4 13.6 19 15.4 14.5 14.8 <			MIN	MEAN		MIN	MEAN	MAX	MIN	MEAN			
12 13.2 12.4 12.8 14.0 12.8 13.3 13 12.5 11.8 12.2 14.2 13.1 13.6 14.0 15 13.1 12.2 12.6 14.7 13.6 14.0 15 13.7 12.5 13.1 14.9 13.2 13.8 16 13.7 13.2 13.4 14.6 12.5 13.5 17 14.5 13.2 13.9 15.0 13.4	DA Y		MIN	MEAN		MIN	MEAN	12.6 13.0	MIN DECEMBE 12.1 12.1	MEAN R 12.5	15.0 15.5 16.4 16.7	JANUAR 13.4 14.5 14.4 14.9	14.1 15.0 15.3 15.6
17 14.5 13.2 13.9 15.0 13.4 18 15.1 13.7 14.4 20 15.4 14.5 14.8 20 15.9 14.8 15.1 21 16.2 15.3 15.7 22 15.9 14.9 15.3 23 15.2 13.2 14.7 24 13.6 14.1 25 14.6 13.6 14.1 26 12.6 10.6 11.9 27 12.2 11.9 12.1 29 13.9 13.0 13.4 30 14.2 13.2 13.6 31	DAY 1 2 3 4 5 6 7 8 9		MIN	MEAN		MIN	MEAN	12.6 13.0 13.1 14.3 13.7 13.3 13.6	MIN DECEMBE 12.1 12.5 12.6 13.3 12.8 12.8	MEAN 12.5 12.8 13.6 13.4 13.1 13.2	15.0 15.5 16.4 16.7 16.8 17.4 17.5 18.0 18.3	JANUAR 13.4 14.5 14.4 14.9 15.1 15.2 15.4 15.9	14.1 15.0 15.3 15.6 15.8 16.2 16.3 16.5
22	DAY 1 2 3 4 5 6 7 8 9 10 11 12 13 14		MIN	MEAN		MIN	MEAN	12.6 13.0 13.1 14.3 13.7 13.6 13.8	MIN DECEMBE 12.1 12.1 12.5 12.6 13.3 12.8 13.0 12.9 12.4 11.8	MEAN 12.5 12.8 13.6 13.1 13.2 13.4 13.2 12.8 12.8	15.0 15.5 16.4 16.7 16.8 17.4 17.5 18.0 18.3 18.4	JANUAR 13.4 14.5 14.9 15.1 15.2 15.6 15.9 15.8 14.1 12.8 13.6	14.1 15.3 15.6 15.8 16.2 16.3 16.9 16.9 16.0 13.3 13.6
27 28 29 30 31 31 27 31 31 32 31 31 32 31 31 31 32 31 31 31 32 31 31 31 32 31 31 31 31 31 31 31 31 31 31 31 31 31	DAY 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19		MIN	MEAN		MIN	MEAN	MAX 12.6 13.0 13.1 14.3 13.7 13.6 13.8 13.7 13.7 13.7 14.5 15.1	MIN DECEMBE 12.1 12.5 12.6 13.3 12.8 13.0 12.9 12.4 11.8 12.2 12.5 13.2 13.7 14.5	MEAN 12.5 12.8 13.6 13.1 13.2 13.4 13.2 12.8 12.6 13.1	15.0 15.5 16.4 16.7 16.8 17.4 17.5 18.0 18.3 18.4 17.7 14.0 14.2 14.7 14.9	JANUAR 13.4 14.5 14.9 15.1 15.2 15.6 15.9 15.8 14.1 12.8 13.6 13.2 12.5 13.4	14.1 15.0 15.3 15.6 15.8 16.2 16.3 16.5 16.9 16.9 16.9 13.3 13.6 14.0 13.8
	DAY 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24		MIN	MEAN		MIN	MEAN	MAX 12.6 13.0 13.1 14.3 13.7 13.6 13.8 13.7 13.5 15.1 15.9 16.2 15.9 15.9 15.4	MIN DECEMBE 12.1 12.5 12.6 13.3 12.8 13.0 12.9 12.4 11.8 12.2 12.5 13.2 13.7 14.5 14.8 15.3 14.9 13.6	MEAN R 12.5 12.8 13.6 13.1 13.2 13.4 13.2 12.8 12.6 13.1 13.4 13.9 14.8 15.1 15.7 15.3 14.7	15.0 15.5 16.4 16.7 16.8 17.4 17.5 18.0 18.3 18.4 17.7 14.0 14.2 14.7 14.9	JANUAR 13.4 14.5 14.9 15.1 15.2 15.6 15.9 15.8 14.1 12.8 13.6 13.2 12.5 13.4	14.1 15.0 15.3 15.6 15.8 16.2 16.3 16.5 16.9 16.9 16.9 13.3 13.6 14.0 13.8
	DAY 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30		MIN	MEAN		MIN	MEAN	MAX 12.6 13.0 13.1 14.37 13.6 13.8 13.7 13.5 13.7 13.5 13.7 13.7 13.7 13.7 13.7 13.7 13.7 13.7	MIN DECEMBE 12.1 12.1 12.5 12.6 13.3 12.8 12.8 12.8 12.9 11.8 12.2 13.7 14.5 13.2 13.6 14.9 13.2 13.6 10.6 11.9 12.3 13.6	MEAN R 12.5 12.8 13.6 13.4 13.2 13.4 13.2 12.8 12.8 12.8 12.8 12.8 12.9 12.6 13.1 13.4 14.8 15.1 15.3 14.7 14.1 13.3 11.9 12.9 13.6	15.0 15.5 16.4 16.7 16.8 17.4 17.5 18.0 18.3 18.4 17.7 14.0 14.2 14.7 14.9	JANUAR 13.4 14.5 14.4 14.5 15.6 15.8 14.1 13.6 13.1 13.6 13.1 13.6 13.1 13.6 13.1 13.6 13.1 13.6 13.1 13.6 13.1 13.6 13.1 13.6	14.1 15.0 15.3 15.6 15.8 16.2 16.3 16.5 16.9 16.9 16.9 13.3 13.6 14.0 13.8

01463500 DELAWARE RIVER AT TRENTON, NJ -- Continued

OXYGEN, DISSOLVED (DO), MG/L, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

MAX				OXYGEN	, DISS	OLVED	(DO), MG/I	., WATER	R YEAR O	CTOBER	1979 TO	SEPTEM	BER 1980		
1	DA Y	MAX	MIN	MEAN		MAX	MIN	MEAN		MAX	MIN	MEAN	MAX	MIN	MEAN
2			FEBRUAR	Y			MARCH				APRIL			MAY	
7	3 4	==	===	==		18.0	14.7	15.5	1	2.8 3.1 2.8	12.3 12.7 11.5	12.6 12.9 12.3	10.7 10.2 9.4	9.6 8.9 8.3	10.2 8.7 9.0
122 13.6 11.4 12.5 11.5 11.0 11.2 12.2 9.7 10.5 11.5 11.0 11.2 12.2 9.7 10.5 11.5 11.5 11.0 11.2 10.9 11.4 12.5 13.2 11.5 11.5 11.1 11.4 10.9 17 8.8 9.6 11.5 11.5 11.5 11.5 11.5 11.5 11.5 11	7 8 9		===	===		17.0 15.2 12.7	12.9 11.8 10.0	14.3 13.4 11.5	1 1 1	1.8	11.5 10.9 10.4	11.8 11.4 10.9	11.4 10.9 12.2	10.0 10.1 10.6	10.6 10.6 11.3
18	12 13 14	==		==		13.6 14.4 14.5	11.4 12.5 12.6	12.5 13.2 13.5	1	1.5	11.0 11.1 10.9	11.2 11.4 11.1	12.2 10.0 9.7	9.7 9.1 8.8	10.5 9.5 9.1
22 13.7 11.2 12.5 12.7 11.3 11.9 11.0 10.4 10.8 10.7 11.1 8.3 9.4 23 14.3 10.5 12.1 13.5 12.8 13.2 11.2 10.4 10.7 11.1 8.3 9.4 24 14.1 10.4 12.0 13.7 13.3 13.5 11.6 10.7 11.0 10.4 7.7 9.0 10.4 11.1 10.4 12.0 13.7 13.3 13.5 11.6 10.7 11.0 10.4 7.7 9.0 12.5 14.1 10.6 12.0 13.6 13.2 13.4 11.5 10.5 10.5 10.9 11.7 7.3 9.4 12.5 14.1 10.6 12.0 13.6 13.2 13.4 11.5 10.5 10.5 10.9 11.7 7.3 9.4 12.5 14.1 10.6 12.0 13.6 13.2 13.4 11.5 10.5 10.5 10.9 11.7 7.3 9.4 12.5 12.2 7.4 9.8 13.6 13.2 13.4 11.5 10.5 10.5 10.9 11.7 7.3 9.4 12.5 12.2 7.4 9.8 13.6 13.4 13.5 10.9 10.2 10.5 12.2 7.4 9.8 13.6 13.7 11.0 10.0 10.4 13.1 7.8 10.5 12.2 7.4 9.8 13.6 13.7 11.0 10.0 10.4 13.1 7.8 10.5 12.2 7.4 9.8 13.5 13.6 11.1 9.9 10.4 13.6 13.1 7.8 10.3 13.0 13.3 13.5 13.6 11.1 9.9 10.4 13.6 8.5 11.0 12.9 13.5 13.0 13.3 13.5 13.6 13.1 13.3 13.9 9.7 10.4 13.6 8.5 11.0 12.9 13.5 13.0 13.3 13.5 13.6 13.1 13.1 9.6 11.3 13.9 8.5 11.0 13.9 13.9 8.5 11.0 13.1 13.1 17.0 10.4 12.6 18.0 9.8 13.1 13.1 13.1 9.6 11.3 13.9 7.3 10.0 10.4 13.1 7.9 10.4 12.6 18.0 9.8 13.1 13.1 13.1 9.6 11.3 13.9 7.3 10.0 10.4 13.1 7.9 10.4 12.6 18.0 13.4 14.0 6.8 10.1 9.5 5.6 7.3 10.5 6.2 7.8 10.5 10.5 12.5 12.5 12.5 12.5 12.5 12.5 12.5 12	17 18 19	16.1	12.1	14.0		14.9 12.3 10.7	12.2 10.5 9.8	13.7 11.3 10.2	1 1 1	11.9	11.6 11.6 11.7	11.7 11.8 12.0	11.9 10.3 11.8	8.9 8.9 8.7	10.3 9.6 10.1
1 13.1 7.9 10.4 13.1 7.8 10.5 10.4 13.1 7.8 10.5 29 10.4 13.1 7.8 10.5 29 10.4 13.1 13.6 8.5 11.0 29 10.4 13.6 8.5 11.0 20 10.4 13.6 8.5 11.0 20 10.4 20.5	22 23 24	13.7 14.3 14.1	11.2 10.5 10.4	12.5 12.1 12.0		12.7 13.5 13.7	11.3 12.8 13.3	11.9 13.2 13.5	1	11.0 11.2 11.6	10.4 10.4 10.7	10.8 10.7 11.0	10.7 11.1 10.4	8.3 8.3 7.7	9.4 9.4 9.0
DAY MAX MIN MEAN MAX MIN MEAN MAX MIN MEAN MAX MIN MEAN	27 28 29 30	===	===	===		13.8 13.8 13.5 13.0	13.6 13.5 13.0 12.7	13.7 13.6 13.3 12.9	1	11.0 11.1 10.3	10.0 9.9 9.6 9.7	10.4	13.1 13.6 13.9 12.9	7.8 8.5 8.5 8.3	10.5 11.0 11.2 10.3
1	MONTH	17.0	10.4	12.6		18.0	9.8	13.1	1	13.1	9.6	11.3	13.9	7.3	10.0
1	DA Y	MAX	MIN	MEAN		MAX	MIN	MEAN		MAX	MIN	MEAN	MAX	MIN	MEAN
4 9.1 6.2 7.5 12.2 6.4 9.0 10.1 6.3 7.9 5 8.9 6.0 7.3 10.0 6.2 7.9 7 10.3 6.7 8.3 10.0 6.4 8.0 8 9.5 6.8 8.1 11.2 7.4 9.1 10.0 6.4 8.0 9 12.5 7.6 9.8 11.5 8.3 11.0 10 11.8 6.8 9.4 12.0 7.6 9.6 11 11.8 6.8 9.3 10.7 7.6 9.0 11 11.8 6.8 9.3 10.7 7.6 9.0 12 <td< th=""><th></th><th></th><th>JUNE</th><th></th><th></th><th></th><th>JULY</th><th></th><th></th><th></th><th>AUGUST</th><th></th><th></th><th>SEPTEM</th><th>BER</th></td<>			JUNE				JULY				AUGUST			SEPTEM	BER
7 10.3 6.7 8.3 13.9 7.2 10.1 9 9.5 6.8 8.1 11.2 7.4 9.1 14.5 8.3 11.0 10 11.8 7.1 9.4 12.0 7.6 9.6 11 11.8 6.8 9.3 10.7 7.6 9.6 12 11.8 6.8 9.3 10.3 7.6 8.7 13 12.7 7.2 9.7 13.6 9.4 10.3 7.6 8.0 14 12.9 7.2 9.8 13.9 7.3 10.2 9.4 6.7 7.9 15 12.9 7.4 10.0 12.7 7.2 9.3 8.3 6.2 7.2 16	3	9.9 10.5 9.1	7.4 6.2 6.2	8.7 7.8 7.5		===			1	14.0	6.8 6.6 6.4	10.1 9.9 9.0	9.5 9.5 10.1	5.6 5.7 6.3	7.5 7.3 7.4 7.9 7.5
12 10.3 7.6 8.7 13 10.3 7.6 8.4 14 12.7 7.2 9.8 13.9 7.3 10.2 9.4 6.7 7.9 15 12.9 7.4 10.0 12.7 7.2 9.3 8.3 6.2 7.2 16 12.9 7.1 9.1 9.0 6.4 7.5 17 11.2 7.0 9.0 11.3 6.2 8.3 8.6 6.7 7.5 18 11.4 7.2 9.4 11.4 6.2 8.3 8.6 6.7 7.5 19 12.0 6.4 9.0 7.4 6.1 6.8 20 13.0 6.4 9.4 9.0 6.4 7.4	7 8 9	10.3	6.7	8.3		11.2	7.4 7.6	9.1		===		==	10.0 13.9 14.5	6.4 7.2 8.3	8.0 10.1 11.0
19	12 13 14					11.8 12.7 12.9	6.8 7.2 7.2	9.3 9.7 9.8		13.6	9.4 7.3	10.2	10.3 10.3 9.4	7.6 7.0 6.7	8.7 8.4 7.9
22 9.5 5.9 7.3 23 9.4 5.6 7.1 11.8 6.8 9.0 9.1 5.5 7.1 24 10.9 5.8 8.1 12.2 6.8 9.1 9.6 5.7 7.4 25 14.2 8.1 11.2 13.6 6.2 9.6 11.7 6.6 8.9 26 14.2 8.1 11.2 14.2 7.2 10.3 12.2 6.5 8.9 27 14.2 7.8 10.8 14.1 7.1 10.2 11.6 6.2 8.5 28 13.3 7.3 10.2 12.2 7.1 9.5 10.9 6.4 8.2 29 12.3 6.7 9.0 10.0 6.9 8.3 9.5 6.1 7.4 11.9 9.2 30 10.2 6.2 8.0 12.9 6.8 9.5 9.7 6.0 7.6 12.2 8.4 9.9 31 13.3 7.1 9.8 9.6 6.1 7.6	17 18 19	11.2	7.0 7.2	9.0 9.4		11.3 11.4 12.0	6.2 6.3 6.4	8.3 8.8 9.0		===	\equiv	==	8.6 7.4 8.6	6.7 6.1 6.7	7.5 7.5 6.8 7.5 7.4
27	22 23 24	===	===		¥.,	13.6 9.4 10.9	6.2 5.6 5.8	9.1 7.1 8.1		11.8	6.8	9.0	9.5 9.1 9.6	5.9 5.5 5.7	7.3 7.1 7.4
	27 28 29 30	14.2 13.3 12.3 10.2	7.8 7.3 6.7 6.2	10.8 10.2 9.0 8.0		14.1 12.2 10.0 12.9	7.1 7.1 6.9 6.8	10.2 9.5 8.3 9.5		11.6 10.9 9.5 9.7	6.2 6.4 6.1 6.0	8.5 8.2 7.4 7.6	11.9	9.2	9.9
													14.5	5.5	

01463500 DELAWARE RIVER AT TRENTON, NJ--Continued
PHYTOPLANKTON ANALYSES, OCTOBER 1979 TO SEPTEMBER 1980

	PHYTOPLANKTON ANALYSES,	OCTOBE	R 1979	TO SEPT	EMBER	1980			
DATE TIME			29,79 330		26,80 200		15,80 230		18,80
TOTAL CEL	LS/ML	9	800	1	000	2	800	70	000
DIVERSITY	: DIVISION .CLASS .ORDERFAMILYGENUS		1. 4 1. 4 1. 8 2. 9 3. 3		0.9 0.9 1.7 3.2 3.6		1.4 1.4 2.3 2.7 2.9		1.5 1.5 1.7 2.1 2.6
OBCANTON		CELLS	PER-	CELLS	PER-	CELLS	PER-	CELLS	PER- CENT
ORGANISM		/ML	CENT	/ML	CENT	/ML	CENT	/ML	CENI
. CHLOROPH	OCCALES								
COELAS			_		_		-		_
HYDROD		-					_	-	
MICRACT	TINIACEAE	1 25	15%	120	-				
GOLENI			-		-	90	0		0
OOCYST	ACEAE FRODESMUS	580	6	55	5	90	3	*	0
CHLORE	ELLA	58	1		-		-	1300	2
CHODAT	TELLA OS PHAERI UM	460	5		-	*	0	970 1300	1 2
	NERIELLA	120	1	8	1		-	1300	2
	DRIOPSIS		-		-		-	*	0
SELENA			-		-	*	0	3200	5
SCENED	ESMACEAE								
CRUCIO		230	2	16	2	100	4	17000#	24
TETRAS		230	2		-		-	2600	4
	DOM ON A DA CE A E		_	8	1	51	2	1600	2
CYCLO	IOPHYCEAE ES DDISCACEAE EELLA IRA	520	5	250# 39	25 4	730# 51	27 2	11000#	15
ACHNAN									
ACHNA	NTHES	2300#		39 24	4	26	1		-
COCCON		58	1	24	2		U	4.7	-
CYMBEI		810	8	79	8	26	1		-
DIATON	1A		-	63	6	26	1		-
EUNOTIA	IA	120	1	8	1		-		-
FRAGILA	ARIACEAE IONELLA	170	2	24	2		_		_
FRAGII	LARIA		-	16	2		-		-
SYNEDI	NEMATACEAE	230	2	120	12		0		-
GOM PHO		410	4		-		-		-
MERID	ION		-	8	1		-		-
NA VICUI		580	6	86	8	100	4		
NITZSCH		58	1	63	6	77	3	970	1
SURIREI	LLACEAE	50				11	3	310	
SURIRE	ELLA		-	8	1		-		-
CYANOPHYTA .CYANOPHYO CHROOCO	CCALES								
ANACYS		120	1		12	820#	30	27000# 640	39
HORM OGO	NALES	. 22	-			25	13	540	
OSCILLA	ATORIACEAE LATORIA	2800#	28	100	10	490#	18	642	-
	TA (FIRE ALGAE) EAE IALES			272.6					
PERIDI			-	8	1		-		-

01463500 DELAWARE RIVER AT TRENTON, NJ--Continued PHYTOPLANKTON ANALYSES, OCTOBER 1979 TO SEPTEMBER 1980

NOTE: # - DOMINANT ORGANISM; EQUAL TO OR GREATER THAN 15% * - OBSERVED ORGANISM, MAY NOT HAVE BEEN COUNTED; LESS THAN 1/2%

DATE TIME		24,80 130		12,80 100		16,80 305
TOTAL CELLS/ML	82	000	60	000	8	100
DIVERSITY: DIVISION .CLASSORDERFAMILYGENUS		1. 1 1. 1 1. 2 1. 7 1. 8		0.9 0.9 1.0 2.0 2.6		1.2 1.2 1.2 2.1 2.2
ORGANISM	CELLS /ML	PER- CENT	CELLS /ML	PER- CENT	CELLS /ML	PER- CENT
CHLOROPHYTA (GREEN ALGAE)						
. CHLOROPHYCEAE						
CHLOROCOCCALES COELASTRACEAE						
COELASTRUM		1	6100	10		-
HYDRODICTYACEAE					67C	8
PEDIASTRUM MICRACTINIACEAE		-		10	010	0
GOLENKINIA	860	1		-		-
MICRACTINIUM OOCYSTACEAE		-				-
ANKISTRODESMUS	4000	5	900	1	170	2
CHLORELLA		-		-		-
CHODATELLA DICTYOS PHAERIUM		-	13000#	21	==	-
KIRCHNERIELLA		-		-		-
OOCYSTIS		-		-		-
POLYEDRIOPSIS	5700	7	4300	7	1200#	15
TETRAEDRON	5700	-	360	1		
SCENEDESMACEAE						
CRUCIGENIA SCENEDESMUS	34000#	42	1400 17000#	27	3000#	38
TETRASTRUM	34000#	-	720	1	3000#	-
VOL VOCALES						
CHLAM YDOM ON A DA CEAE CHLAM YDOM ON A S	860	1	360	1		-
CHRYSOPHYTA .BACILLARIOPHYCEAECENTRALESCOSCINODISCACEAECYCLOTELLAMELOSIRAPENNALES	1100	1	360	1_	Ξ	
ACHNANTHACEAE ACHNANTHES						0
COCCONEIS		- 20		Later 19		_
CYMBELLACEAE						
CYMBELLA DIATOMACEAE					5 10.29	
DIATOMA		-		-		-
EUNOTIACEAE			W. Age-		200	
FRAGILARIACEAE	0.00					
ASTERIONELLA		-		-		-
FRAGILARIA SYNEDRA		-	- 4 55			
GOM PHON EMATACEAE						
GOM PHONEMA		-		-		-
MERIDIONACEAE						100
NA VICULACEAE						
NA VICULA		-		-	67	1
NITZSCHIACEAE	570	1	*	0	300	4
SURIRELLACEAE SURIRELLA					1.0	
	- 1			O.S.		
CYANOPHYTA (BLUE-GREEN ALGAE) .CYANOPHYCEAE						
CHROOCOCCALES						
CHROOCOCCACEAE	34000#	42	16000#	27	2600#	32
COCCOCHLORIS	34000#	-		-	2000#	-
HORM OGONA LES						
OSCILLATORIACEAE			100	1872	130	3
OSCILLATORIA		- Table 1		-		

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DELAWARE RIVER BASIN

01463500 DELAWARE RIVER AT TRENTON, NJ--Continued PHYTOPLANKTON ANALYSES, OCTOBER 1979 TO SEPTEMBER 1980

PYRRHOPHYTA (FIRE ALGAE)
.DINOPHYCEAE
.PERIDINIALES
..PERIDINIACEAE
...PERIDINIUM

NOTE: # - DOMINANT ORGANISM; EQUAL TO OR GREATER THAN 15% * - OBSERVED ORGANISM, MAY NOT HAVE BEEN COUNTED; LESS THAN 1/2%

01463500 DELAWARE RIVER AT TRENTON, NJ--Continued

SEDIMENT DISCHARGE, SUSPENDED (TONS/DAY), WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

DAY	MEAN DISCHARGE	MEAN CONCEN- TRATION	SEDIMENT DISCHARGE	MEAN DISCHARGE	MEAN CONCEN- TRATION	SEDIMENT DISCHARGE	MEAN DISCHARGE	MEAN CONCEN- TRATION	SEDIMENT DISCHARGE
DAY	(CFS)	(MG/L) OCTOBER	(TONS/DAY)	(CFS)	(MG/L) NOVEMBER	(TONS/DAY)	(CFS)	(MG/L) DECEMBER	(TONS/DAY)
1 2 3 4 5	10000 18900 20900 25200 23000	16 92 82 69 49	432 4690 4630 4690 3040	7620 7260 10900 16200 21500	4 3 37 45 22	82 59 1090 1970 1280	20200 17200 15100 13800 13700	8 10 8 6 4	436 464 326 224 148
6 7 8 9	31800 32900 28900 22300 24400	89 58 36 17	7640 5150 2810 1020 1120	17400 14900 13300 12100 11500	14 6 5 4 5	658 241 180 131 155	12800 12900 11700 10600 9210	4 4 4 4 3	138 139 126 114 75
11 12 13 14 15	22900 19200 17500 15500 13600	14 10 9 9	866 518 425 377 294	11700 12900 11900 11200 10600	6 8 5 5	190 279 161 151 114	8550 8700 8870 10500 10100	4 3 4 4 3	92 70 96 113 82
16 17 18 19 20	11900 11900 11300 11100 10300	7 8 7 7	225 257 214 210 195	9710 9020 8680 8530 8600	4 3 2 3 3	105 73 47 69 70	9510 8810 8240 8130 7960	3 4 6 5 4	77 95 133 110 86
21 22 23 24 25	9680 8310 7810 8420 9790	6 5 6 8 8	157 112 127 182 211	8290 8030 7800 7110 6930	4 3 3 3	90 87 63 58 56	7700 7580 8120 7920 9410	3 3 2 3 6	62 61 44 64 152
26 27 28 29 30 31	9880 10000 9020 8160 7860 7770	7 5 4 5 4	187 135 97 110 106 84	8130 30300 48700 35200 25600	8 96 175 107 52	176 7850 23000 10200 3590	14300 17000 15600 13600 12100 10700	24 31 10 7 4	927 1420 421 257 131 87
TOTAL	480200		40311	421610		52275	350610		6770
3	0000	JANUARY	20		FEBRUARY	0.11	2222	MARCH	
1 2 3 4 5	9930 10100 8880 9030 8640	3 2 1 1	80 55 24 24 23	4510 4000 3900 4000 4800	2 2 3 3 3	24 22 32 32 39	3900 3460 4090 3370 3760	3 2 2 1 3	32 19 22 9.1 30
6 7 8 9	7970 6870 6160 6500 6520	4 2 1 1	86 37 17 18 18	4200 4400 4500 4400 4330	3 4 4 3	34 48 49 48 35	4310 3950 3860 4630 5340	5 5 33 29	47 53 52 413 418
11 12 13 14 15	6360 10900 11200 8880 8520	6 32 15 12 3	103 942 454 288 69	4270 3980 3970 3760 3830	2 2 1 2 2	23 21 11 20 21	7110 7490 6240 6230 5340	24 19 8 7 7	461 384 135 118 101
16 17 18 19 20	8600 8270 7580 9160 8540	2 2 3 4 3	46 45 61 99 69	3970 4000 3650 3480 3670	3 2 2 3 2	32 22 20 28 20	6330 5950 14100 23200 27500	9 16 148 226 158	154 257 5630 14200 11700
21 22 23 24 25	7400 6770 6420 6520 6240	2 2 2 2 2	40 37 35 35 34	3780 4300 4850 4990 5380	3 4 5 6 5	31 46 65 81 73	29500 69800 88700 52000 46800	223 550 317 125 62	17800 104000 75900 17600 7830
26 27 28 29 30 31	5580 5630 5260 5390 4950 4720	2 1 1 1 2 2	30 15 14 15 27 25	4720 4140 3670 3640	4 4 3 3 	51 45 30 29	40600 34100 26500 25700 29200 35700	43 30 23 21 19 27	4710 2760 1650 1460 1500 2600
TOTAL	233490		2865	121090		1032	628760		272045.1

01463500 DELAWARE RIVER AT TRENTON, NJ--Continued

SEDIMENT DISCHARGE, SUSPENDED (TONS/DAY), WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

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)
		APRIL			MAY			JUNE	
1 2 3 4 5	39400 37100 33500 32700 32400	26 25 22 23 22	2770 2500 1990 2030 1920	32900 27600 23500 19900 16800	42 23 14 11 9	3730 1710 888 591 408	5070 5930 5650 7300 7270	6 8 11 26 28	82 128 168 512 550
6 7 8 9 10	30200 25600 21500 22700 34900	17 14 13 28 46	1390 968 755 1720 4330	14800 14900 13600 12400 11300	7 7 7 7 6	280 282 257 234 183	6070 5390 5520 5570 5810	22 18 15 14 15	361 262 224 211 235
11 12 13 14 15	47800 40600 31900 28200 30600	62 30 20 16 18	8000 3290 1720 1220 1490	10600 9930 14800 14300 12000	5 61 56 14	143 134 2440 2160 454	5780 5620 5560 5020 4590	17 15 11 9 8	265 228 165 122 99
16 17 18 19 20	34800 33000 28300 23900 20200	25 30 21 11 10	2350 2670 1600 710 545	10900 9730 8810 8300 8180	6 5 7 5 6	177 131 167 112 133	4310 4270 4240 4320 4170	8 7 8 9	93 81 92 105 101
21 22 23 24 25	17600 16100 15300 13800 12800	12 10 8 7 6	570 435 330 261 207	8680 9440 8660 7780 7110	8 11 10 7 6	187 280 234 147 115	4080 4030 4000 4060 3900	9 8 8 8 7	99 87 86 88 74
26 27 28 29 30 31	11800 11300 13400 23100 33800	6 5 8 25 45	191 153 289 1560 4110	6550 5900 5530 5160 4840 4620	7 8 6 6 8 6	124 127 90 84 105 75	3730 3650 3680 3590 4040	6 8 10 7 12	60 79 99 68 131
TOTAL	798300		52074	369520		16182	146220	-22	4955
		JULY			AUGUST			SEPTEMBER	
1 2 3 4 5	4550 5430 5710 4930 4570	22 30 28 20 15	270 440 432 266 185	3030 3230 3340 3660 4210	5 7 6 5 15	41 61 54 49 171	3050 3100 3040 2970 2930	7 8 9 10 8	58 67 74 80 63
6 7 8 9	4450 5030 4490 4570 4500	13 23 19 16 14	156 312 230 197 170	4470 4350 4070 3810 3630	27 13 9 6 6	326 153 99 62 59	2830 3040 2830 2970 2800	8 9 10 9 8	61 74 76 72 60
11 12 13 14	4200 4140 4310 3800 3710	12 11 10 7 7	136 123 116 72 70	3490 2950 2950 3130 3070	5 5 4 11 9	47 40 32 93 75	2740 2690 2660 2840 3220	7 6 4 7 10	52 44 29 54 87
16 17 18 19 20	3460 3840 3780 3710 3500	10 9 8 7 6	93 93 82 70 57	3050 3140 3080 2910 2730	7 4 4 3	58 34 33 24 29	3070 2870 3730 3660 3480	6 4 5 4 5	50 31 50 40 47
21 22 23 24 25	3200 3100 3260 4350 3930	6 7 10 11 9	52 59 88 129 95	2820 2500 2560 2650 2640	5 2 3 5 7	38 13 21 36 50	3280 3150 2800 2720 3070	4 5 4 3 4	35 43 30 22 33
26 27 28 29 30 31	3660 3380 3220 3150 3130 3200	7 7 6 6 7 6	69 64 52 51 59 52	2650 2770 3080 3140 3000 3020	5 4 4 6 7	36 30 33 34 49 57	2840 2770 2850 2800 2640	5 3 2 2 3	38 22 15 15 21
TOTAL	124260		4340	99130	222	1937	89440		1443
YEAR	3862630		456229.1						

01463568 ASSUNPINK CREEK AT CARSONS MILLS, NJ

LOCATION.--Lat 40°13'05", long 74°33'08", Mercer County, Hydrologic Unit 02040105, at bridge at Carsons Mills, 0.1 mi (0.2 km) upstream from New Sharon Branch, and 1.3 mi (2.0 km) northeast of Pages Corner.

DRAINAGE AREA. -- 12.5 mi2 (32.4 km2).

WATER-QUALITY RECORDS

PERIOD OF RECORD. -- Water years 1976 to current year.

COOPERATION.--Analyses of fecal coliform and fecal streptococci by the MPN method, and water-phase nutrients were performed by the New Jersey Department of Health, Division of Laboratories and Epidemiology.

WATER QUALITY DATA, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

DATE	TIME	STREAM- FLOW, INSTAN- TANEOUS (CFS)	SPE- CIFIC CON- DUCT- ANCE (MICRO- MHOS)	PH FIELD (UNITS)	TEMPER- ATURE, WATER (DEG C)	OXYGEN, DIS- SOLVED (MG/L)	OXYGEN DEMAND, BIOCHEM UNINHIB 5 DAY (MG/L)	COLI- FORM, FECAL, EC BROTH (MPN)	STREP- TOCOCCI FECAL (MPN)	HARD- NESS (MG/L AS CACO3)
JAN 28	1100	13	122	6.3	2.0	13.6	1.3	8	2	38
MAR								100		1100
25 JUN	1300	50	102	6.2	6.0	11.6	1.6	5	540	30
05 JUL	0930	13	119	6.9	18.5	9.3	2.2	2400	49	39
15 AUG	1300	13	122	7.6	25.0	10.4	1.7	80	80	42
07	1030	15	113	7.0	24.5	9.8	2.8			41
DATE	CALCIUM DIS- SOLVED (MG/L AS CA)	MAGNE- SIUM, DIS- SOLVED (MG/L AS MG)	SODIUM, DIS- SOLVED (MG/L AS NA)	POTAS- SIUM, DIS- SOLVED (MG/L AS K)	BICAR- BONATE (MG/L AS HCO3)	CAR- BONATE (MG/L AS CO3)	ALKA- LINITY (MG/L AS CACO3)	SULFATE DIS- SOLVED (MG/L AS SO4)	CHLO- RIDE, DIS- SOLVED (MG/L AS CL)	FLUO- RIDE, DIS- SOLVED (MG/L AS F)
JAN 28	8.0	4.3	4.1	2.3	10	0	8	27	9.5	.1
MAR										
25 JUN	6.5	3.4	3.7	2.1	5	0	4	23	8.3	.1
05	8.0	4.5	3.9	1.8	12	0	10	23	8.7	.2
JUL 15 AUG	8.7	5.0	3.9	2.2	18	0	15	22	10	. 2
07	8.5	4.8	4.0	2.3	20	0	16	19	8.9	.3
DA	SILI DIS SOL (MG AS TE SIO	VED DEC	DUE NIT	N, GE NO3 AMMO AL TOT /L (MO	EN, GE	TAL TOT	AM- IA + NIT ANIC GE TAL TOT	G/L (MG,	JS, DPH CARBO ATE ORGAN AL TOTA /L (MG	NIĆ AL /L
JAN										
28 MAR	• • • •	6.4	64 1	.4 E.	.060		.06 1	.5	.11	3.4
25		4.6	66 1	.0	.090	1.5 1	.6 2	2.6	.58	
JUN 05 JUL		4.6	90 1	.0	. 170	.74	.91	1.9	.09	3.6
15		5.8	91	. 85	. 160	. 46	.62	1.5	. 31	3.8
AUG 07		6.4	85	.50	. 170	.38	.55	.0	. 28	6.4

01463620 ASSUNPINK CREEK NEAR CLARKSVILLE, NJ

LOCATION.--Lat 40°16'11", long 74°40'20", Mercer County, Hydrologic Unit 02040105, on left bank 200 ft (61 m) upstream from bridge on Quaker Bridge Road, 1.9 mi (3.1 km) south of Clarksville, 2.0 mi (3.2 km) upstream from Shipetaukin Creek, and 7.6 mi (12.2 km) upstream of mouth.

DRAINAGE AREA .-- 34.3 mi2 (88.8 km2).

WATER-DISCHARGE RECORDS

PERIOD OF RECORD. -- Occasional low-flow measurements water years 1963-67. October 1972 to current year.

REVISED RECORDS. -- WRD-NJ 1974: 1973(M). WDR-NJ-75-1: 1971(M).

GAGE .-- Water-stage recorder. Datum of gage is 49.28 ft (15.021 m) National Geodetic Vertical Datum of 1929.

REMARKS .-- Water-discharge records good. Regulation from flood-control dams and ponds upstream.

AVERAGE DISCHARGE.--8 years, 56.2 ft3/s (1.592 m3/s), 22.25 in/yr (565 mm/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 1,050 ft³/s (29.7 m³/s) July 21, 1975, gage height, 9.36 ft (2.853 m), from crest-stage gage; minimum, 5.7 ft³/s (0.16 m³/s) Sept. 11, 12, 13, 14, 1980, gage height, 3.78 ft (1.152 m)

EXTREMES OUTSIDE PERIOD OF RECORD. -- Flood of Aug. 28, 1971, reached a stage of 10.9 ft (3.32 m), discharge, 1,500 ft3/s (42.5 m3/s).

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 147 ft³/s (4.16 m³/s) Apr. 1, gage height, 5.48 ft (1.670 m), no peaks above base of 200 ft³/s (5.66 m³/s); minimum, 5.7 ft³/s (0.16 m³/s) Sept. 11-14, gage height, 3.78 ft (1.152 m).

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980
MEAN VALUES DAY OCT NOV DEC JAN FEB MAR APR MAY JUN JUL AUG SEP 11 11 76 71 21 24 25 15 6.3 6.1 57 5.9 5.7 11 11 9.3 9.4 9.2 122 19 36 38 9.9 39 52 ---TOTAL 344.5 MEAN 70.7 49.3 47.8 30.7 47 24 68.7 54.9 92 30 20.9 28 15 20.9 35 14 22.5 35 13 11.5 49.7 MAX MIN 5.7 CFSM 2.06 1.44 1.39 1.45 . 90 2.00 1.60 .66 IN. 2.38 1.60 1.67 2.31 3.52 1.85 .68 .70 .76 .37

CAL YR 1979 TOTAL 28048.4 MEAN 76.8 MAX 832 CFSM 2.24 MIN 8.0 IN 30.42 WTR YR 1980 TOTAL 16982.5 MEAN 46.4 MAX 135 MIN 5.7 CFSM 1.35

01463620 ASSUNPINK CREEK NEAR CLARKSVILLE, NJ -- Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD. -- Water years 1963, 1965, 1967, and 1979 to current year.

COOPERATION.--Analyses of fecal coliform and fecal streptococci by the MPN method, and water-phase nutrients were performed by the New Jersey Department of Health, Division of Laboratories and Epidemiology.

DATE	TIME	STREAM- FLOW, INSTAN- TANEOUS (CFS)	SPE- CIFIC CON- DUCT- ANCE (MICRO- MHOS)	PH FIELD (UNITS)	TEMPER- ATURE, WATER (DEG C)	OXYGEN, DIS- SOLVED (MG/L)	OXYGEN DEMAND, BIOCHEM UNINHIB 5 DAY (MG/L)	COLI- FORM, FECAL, EC BROTH (MPN)	STREP- TOCOCCI FECAL (MPN)	HARD- NESS (MG/L AS CACO3)
JAN				(00115)	(DEG G)	(110/2)	(11071)			
31 APR	1345	38	144	6.5	4.0	15.7	1.1	<2	<2	47
07 JUN	1330	122	107	6.7	13.0	12.0	1.5	2	11	30
JUL	1300	28	125	7.2	23.5	9.6	2.2	79	170	36
15 AUG	1030	15	130	7.6	26.0	8.4	2.9	20	<20	44
07	1230	30	124	7.5	29.0	9.2	3.0		-	42
DATE	CALCIUM DIS- SOLVED (MG/L AS CA)	MAGNE- SIUM, DIS- SOLVED (MG/L AS MG)	SODIUM, DIS- SOLVED (MG/L AS NA)	POTAS- SIUM, DIS- SOLVED (MG/L AS K)	BICAR- BONATE (MG/L AS HCO3)	CAR- BONATE (MG/L AS CO3)	ALKA- LINITY (MG/L AS CACO3)	SULFIDE TOTAL (MG/L AS S)	SULFATE DIS- SOLVED (MG/L AS SO4)	CHLO- RIDE, DIS- SOLVED (MG/L AS CL)
JAN 31	10	5.3	5.7	2.3	7	0	6		26	12
APR 07	5.8	3.7	4.7	2.3	7	0	6		21	9.7
JUN 02	7.4	4.2	5.2	2.2	20	0	16	.0	19	11
JUL 15						0	24		16	12
AUG	9.0	5.2	5.2	2.5	29					
07	8.7	5.0	5.3	2.4	24	0	20	77	16	11
DATE	FLUO- RIDE, DIS- SOLVED (MG/L AS F)	SILICA, DIS- SOLVED (MG/L AS SIO2)	SOLIDS, RESIDUE AT 180 DEG. C DIS- SOLVED (MG/L)	NITRO- GEN, NO2+NO3 TOTAL (MG/L AS N)	NITRO- GEN, AMMONIA TOTAL (MG/L AS N)	NITRO- GEN, ORGANIC TOTAL (MG/L AS N)	NITRO- GEN, AM- MONIA + ORGANIC TOTAL (MG/L AS N)	NITRO- GEN, TOTAL (MG/L AS N)	PHOS- PHORUS, ORTHOPH OSPHATE TOTAL (MG/L AS PO4)	CARBON, ORGANIC TOTAL (MG/L AS C)
JAN 31	.1	7.4	89	2.5	<.030		.03	2.5	.09	8.4
APR 07	.1	4.6	46	1.5	.030	. 45	. 48	2.0	. 22	2.7
JUN 02	.2	2.2	89	1.4	. 170	.55	.72	2.1	1.0	3.4
JUL 15	.2	3.7	93	. 62	.090	.53	.62	1.2	. 28	4.0
AUG 07	.2	3.7	83	. 34	. 100	.57	.67	1.0	. 12	6.7
	DATE	TIME	ALUM- INUM, DIS- SOLVED (UG/L AS AL)	ARSENIC TOTAL (UG/L AS AS)	BERYL- LIUM, TOTAL RECOV- ERABLE (UG/L AS BE)	BORON, TOTAL RECOV- ERABLE (UG/L AS B)	CADMIUM TOTAL RECOV- ERABLE (UG/L AS CD)	CHRO-MIUM, TOTAL RECOV-ERABLE (UG/L AS CR)	COPPER, TOTAL RECOV- ERABLE (UG/L AS CU)	
	JUN 02	1300	20	1	0	70	0	10	2	
	DATE JUN	IRON, TOTAL RECOV- ERABLE (UG/L AS FE)	LEAD, TOTAL RECOV- ERABLE (UG/L AS PB)	MANGA- NESE, TOTAL RECOV- ERABLE (UG/L AS MN)	MERCURY TOTAL RECOV- ERABLE (UG/L AS HG)	NICKEL, TOTAL RECOV- ERABLE (UG/L AS NI)	SELE- NIUM, TOTAL (UG/L AS SE)	ZINC, TOTAL RECOV- ERABLE (UG/L AS ZN)	PHENOLS (UG/L)	
	02	820	0	100	.2	4	0	10	2	

01464000 ASSUNPINK CREEK AT TRENTON, NJ

LOCATION.--Lat 40°13'27", long 74°44'58", Mercer County, Hydrologic Unit 02040105, on left bank at Chambers Street Bridge in Trenton, and 1.5 mi (2.4 km) upstream from mouth.

DRAINAGE AREA .-- 89.4 mi2 (231.5 km2).

WATER-DISCHARGE RECORDS

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

GAGE.--Water-stage recorder. Concrete control since July 10, 1932. Datum of gage is 24.76 ft (7.547 m) National Geodetic Vertical Datum of 1929 (levels from New Jersey Geological Survey bench mark).

REMARKS.--Water-discharge records good. Records include water diverted from outside the basin since February 1954 for municipal supply which returns to Assunpink Creek through Ewing-Lawrence Sewerage Authority Treatment Plant, 2.4 mi (3.9 km) above station (records given herein). In addition there is an average inflow of about 2.0 ft³/s (0.057 m³/s) from industrial use of water that originates outside the basin. Some diversion for irrigation in headwater area during summer months.

AVERAGE DISCHARGE. -- 57 years, 129 ft3/s (3.653 m3/s), unadjusted.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 5,450 ft³/s (154 m³/s) July 21, 1975, gage height, 14.61 ft (4.453 m), from high-water mark in gage house; minimum, 1.0 ft³/s (0.028 m³/s) Aug. 21, Oct. 22, 1931, gage height, 0.25 ft (0.076 m); minimum daily, 4.0 ft³/s (0.11 m³/s) July 21, Aug. 8, Sept. 2, 1929.

EXTREMES FOR CURRENT YEAR .-- Peak discharges above base of 900 ft3/s (25.5 m3/s) and maximum (*):

Date		Time	Discha (ft³/s)		Gage h	eight (m)	Date		Time	Discha (ft3/s)		Gage h	eight (m)
Oct. Mar.	1 21	1830 1830	984 *1730	27.9 49.0	6.10	1.859	Mar. Apr.	31	1345 1445	931 1100	26.4	5.95 6.43	1.814
Mar.	25	0400	963	27.3	6.04	1.841	Aug.	5	2100	1440	40.8	7.35	2.240

Minimum discharge, 20 ft3/s (0.57 m3/s) Sept. 13 14, gage height, 2.42 ft (0.738 m).

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980 MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	A UG	SEP
1	582	95	128	104	89	63	803	221	69	59	51	27
2	460	94	120	101	82	70	511	196	72	55	40	31
3	329	225	113	98	78	70	379	176	76	54	40	31
4	251	156	111	93	79	70	539	160	69	49	40	31
5	236	131	107	92	78	73	431	150	66	54	315	31
6 7 8 9	204 167 150 160 594	123 119 112 108 125	110 146 122 108 107	88 89 90 88 85	76 75 75 73 73	73 74 84 102 99	337 305 276 600 721	140 133 178 145 127	65 62 65 64 75	60 47 45 45 42	261 69 55 47 41	40 29 30 31 30
11	432	146	105	161	79	275	390	118	67	41	41	30
12	313	291	100	414	75	152	328	155	63	38	157	29
13	283	178	144	215	72	126	300	314	62	34	63	26
14	238	182	163	183	71	252	311	182	58	35	58	26
15	214	157	127	170	71	244	347	148	56	36	56	135
16 17 18 19 20	194 175 162 150 141	145 133 124 121 116	115 119 106 103 101	154 141 159 302 191	96 86 81 79 76	215 209 325 203 173	285 259 269 255 239	132 119 124 125 112	64 59 57 56	66 72 52 43 39	51 46 48 46 45	44 38 196 54 42
21	132	113	99	166	72	823	224	151	49	40	45	40
22	128	105	102	159	103	691	206	138	46	95	42	47
23	123	102	113	166	137	385	189	118	47	109	39	49
24	131	99	128	143	113	304	173	106	48	50	34	45
25	115	95	207	131	112	648	157	98	46	42	36	56
26 27 28 29 30 31	108 101 110 108 101 98	282 243 175 152 138	183 151 135 125 117 111	120 112 110 105 98 93	112 94 82 77	371 305 273 450 446 655	143 163 322 280 223	89 84 80 76 74 73	46 49 45 44 85	38 34 35 123 61 56	37 35 33 33 30 28	52 43 34 35 37
TOTAL	6690	4385	3826	4421	2466	8303	9965	4242	1786	1649	1962	1369
MEAN	216	146	123	143	85.0	268	332	137	59.5	53.2	63.3	45.6
MAX	594	291	207	414	137	823	803	314	85	123	315	196
MIN	98	94	99	85	71	63	143	73	44	34	28	26
(†)	17•3	15•2	14.2	15•3	13.2	15.7	18.1	15.8	12.6	11.1	11.1	11.1

CAL YR 1979 TOTAL 80920 MEAN 222 MAX 2120 MIN 60 † 16.2 WTR YR 1980 TOTAL 51064 MEAN 140 MAX 823 MIN 26 † 14.2

[†] Inflow from outside the basin, 2.4 mi (3.9 km) upstream of station through plant of Ewing-Lawrence Sewerage Authority, in cubic feet per second.

01464500 CROSSWICKS CREEK AT EXTONVILLE, NJ

LOCATION.--Lat 40°08'15", long 74°36'02", Mercer County, Hydrologic Unit 02040201, on right bank upstream from highway bridge on Extonville, 0.5 mi (0.8 km) upstream from Pleasant Run, and 0.7 mi (1.1 km) downstream from Mercer-Monmouth County line.

DRAINAGE AREA .-- 83.6 mi2 (216.5 km2).

WATER-DISCHARGE RECORDS

PERIOD OF RECORD .-- August 1940 to October 1951, October 1952 to current year.

REVISED RECORDS .-- WDR NJ-79-2: 1971(M) .

GAGE.--Water-stage recorder and concrete control. Datum of gage is 24.94 ft (7.602 m) National Geodetic Vertical Datum of 1929.

REMARKS .-- Water-discharge records good. Flow regulated occasionally by lakes above station.

AVERAGE DISCHARGE.--39 years (water years 1941-51, 1953-80), 136 ft3/s (3.852 m3/s), 22.09 in/yr (561 mm/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 4,860 ft³/s (138 m³/s) Sept. 1, 1978, gage height, 14.18 ft (4.322 m); minimum 13.1 ft³/s (0.37 m³/s) Feb. 14, 1942 (result of freezeup); minimum daily, 16 ft³/s (0.45 m³/s) Aug. 30 to Sept. 3, Sept. 12, 1966.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

EXTREMES FOR CURRENT YEAR .-- Peak discharges above base of 750 ft3/s (21.2 m3/s) and maximum (*):

			Discha	arge	Gage h	eight
Date		Time	(ft^3/s)	(m^3/s)	(ft)	(m)
Apr.	1	2000	852	24.1	7.28	2.219
Apr.	10	1400	*1390	39.4	8.97	2.734

Minimum discharge, 29 ft 3 /s (0.82 m 3 /s) Sept. 11, 12, 13, gage height, 2.36 ft (0.719 m).

		DISCH	ANGE, IN	COBIC FE	EI FER	MEAN	VALUES	OCTOBER 1979	TO SEF	TEMBER 190		
DA Y	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1 2 3 4 5	143 272 165 127 111	81 81 158 308 184	118 110 103 100 97	95 93 92 89 90	81 76 81 89 91	72 73	656 362 337	221 186 162 142 120	71 68 82 100 82	87 65 96 92 68	74 63 53 52 51	35 33 33 32 33
6 7 8 9	139 127 106 96 217	133 116 107 101 99	98 138 132 111 103	95 90 97 97 89	95 90 80 74 76	89 96 116	201 162 256	110 104 111 126 115	70 67 67 66 81	78 67 56 54 50	143 107 67 54 47	35 35 33 31 30
11 12 13 14 15	438 338 229 173 140	116 258 274 194 165	101 98 109 167 141	98 344 357 184 155	73 74 72 71 73	107 292	448 246 191	76 93 157 162 122	82 72 65 62 60	50 49 46 44 42	44 77 74 54 48	30 29 30 30 95
16 17 18 19 20	123 111 106 103 98	138 121 113 107 103	122 115 105 98 100	134 118 112 223 199	88 116 96 82 81	148 168	166 141 131	105 96 97 117 106	69 71 67 60 58	47 78 58 47 44	51 46 42 41 42	101 51 78 81 52
21 22 23 24 25	96 92 90 91 91	101 99 97 97	98 103 127 136 158	149 128 161 143 118	83 94 145 137 120	538 536 304	114 112 107	123 143 111 98 93	56 52 52 50 48	40 36 47 59 47	42 41 41 40 38	45 44 41 38 39
26 27 28 29 30 31	87 84 89 87 83	139 323 228 155 130	190 141 117 108 104 100	110 103 102 99 92 96	107 96 92 82	305 195	111 173 299 306	84 76 73 72 68 68	48 50 54 53 103	41 38 35 69 183 99	37 36 35 35 36 36	53 49 42 40 40
TOTAL MEAN MAX MIN CFSM IN.	4336 140 438 83 1.68 1.93	4423 147 323 81 1.76 1.97	3648 118 190 97 1.41 1.62	4152 134 357 89 1.60 1.85	2615 90.2 145 71 1.08 1.16	229 614 72 2.74	300 1210 104 3.59	3537 114 221 68 1.36 1.57	1986 66.2 103 48 .79	1912 61.7 183 35 .74	1647 53.1 143 35 .64 .73	1338 44.6 101 29 .53
CAL YR WTR YR	1979 TOTAL 1980 TOTAL		MEAN 12 MEAN 12		2990 1210	MIN 56 MIN 29	CFSM 2.33 CFSM 1.50					

01464500 CROSSWICKS CREEK AT EXTONVILLE, NJ -- Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD. -- Water years 1965 to current year.

PERIOD OF DAILY RECORD.-WATER TEMPERATURES: October 1966 to June 1970.
SUSPENDED-SEDIMENT DISCHARGE: February 1965 to June 1970.

COOPERATION.--Analyses of fecal coliform and fecal streptococci by the MPN method, and water-phase nutrients were performed by the New Jersey Department of Health, Division of Laboratories and Epidemiology.

WATER QUALITY DATA, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

DATE	TIME	STREAM- FLOW, INSTAN- TANEOUS (CFS)	SPE- CIFIC CON- DUCT- ANCE (MICRO- MHOS)	PH FIELD (UNITS)	TEMPER- ATURE, WATER (DEG C)	OXYGEN, DIS- SOLVED (MG/L)	OXYGEN DEMAND, BIOCHEM UNINHIB 5 DAY (MG/L)	COLI- FORM, FECAL, EC BROTH (MPN)	STREP- TOCOCCI FECAL (MPN)	HARD- NESS (MG/L AS CACO3)
JAN 29	1030	97	156	7.0	1.5	13.5	. 9	20	50	47
APR			300				0.00			
08 MAY	1000	163	118	7.2	12.0	10.8	1.5	14	49	41
20 JUL	0930	106	143	7.0	17.0	7.6	3.6	120	23	44
02 AUG	1200	66	150	7.1	22.0	6.0	3.2	200	200	45
13	1200	74	148	7.4	24.5	5.9	3.1	500	700	42
DATE	CALCIUM DIS- SOLVED (MG/L AS CA)	MAGNE- SIUM, DIS- SOLVED (MG/L AS MG)	SODIUM, DIS- SOLVED (MG/L AS NA)	POTAS- SIUM, DIS- SOLVED (MG/L AS K)	BICAR- BONATE (MG/L AS HCO3)	CAR- BONATE (MG/L AS CO3)	ALKA- LINITY (MG/L AS CACO3)	SULFATE DIS- SOLVED (MG/L AS SO4)	CHLO- RIDE, DIS- SOLVED (MG/L AS CL)	FLUO- RIDE, DIS- SOLVED (MG/L AS F)
JAN		1.2	2.2	2.0			2.0			
29 APR	14	2.9	7.2	2.4	29	0	24	23	12	.2
08 YAM	12	2.6	4.5	2.2	20	0	16	20	8.8	.2
20	13	2.9	6.9	2.4	29	0	24	20	10	.2
O2 AUG	14	2.5	5.8	3.0	32	0	26	20	10	• 3
13	13	2.4	7.9	3.2	30	0	25	19	11	• 3
DA	(MG AS	- AT 1 VED DEC /L DI SOL	DUÉ NIT	N, GE NO3 AMMO AL TOT /L (MG	N, GE NIA ORGA AL TOT /L (MG	NÍC ORGA AL TOT /L (MG	AM- A + NIT NIC GE AL TOT	AL TOT	US, OPH CARBO ATE ORGAN AL TOTA G/L (MG/	NIĊ AL /L
JAN										
APR		9.8	88 1	. 1 E.	600	1	.3 2	. 4	. 41	4.6
		7.5	94 1	. 2 .	260	.73	.99 2	. 2	.50	5.9
		9.3	99 1	.3 .	220	. 42	.64 1	.9 1	.0	4.6
		8.3	91 1	.1 .	300	.53	.83 1	.9 1	.2	3.5
		0	105	. 99 .	180 1	.0 1	.2 2	. 2 1	.0	7.5

01464505 CROSSWICKS CREEK AT GROVEVILLE, NJ

LOCATION.--Lat 40°10'26", long 74°40'48", Mercer County, Hydrologic Unit 02040201, at bridge on U.S. Route 130 in Groveville, 0.3 mi (0.5 km) upstream from Doctors Creek, and 0.6 mi (1.0 km) southwest of Yardville.

DRAINAGE AREA .-- 94.5 mi2 (244.8 km2).

WATER-QUALITY RECORDS

PERIOD OF RECORD. -- Water years 1976 to current year.

COOPERATION.--Analyses of fecal coliform and fecal streptococci by the MPN method, and water-phase nutrients were performed by the New Jersey Department of Health, Division of Laboratories and Epidemiology.

WATER QUALITY DATA, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

DATE	TIME	SPE- CIFIC CON- DUCT- ANCE (MICRO- MHOS)	PH FIELD (UNITS)	TEMPER- ATURE, WATER (DEG C)	OXYGEN, DIS- SOLVED (MG/L)	OXYGEN DEMAND, BIOCHEM UNINHIE 5 DAY (MG/L)	FECAL	, STREP TOCOCC FECAL	I (MG/L AS	CALCIUM DIS- SOLVED (MG/L AS CA)
OCT								A HATE		
10 JAN	1300	162	7.0	11.0	9.4	4.2	540	00 >2400	0 47	13
22 APR	1145	180	7.1	2.5	14.2	3.3	3 4	6 8	0 43	12
10	1015	88	6.6	12.5	8.3	2.6	>240	00 >240	0 25	6.3
MAY 29	0930	180	6.9	17.5	8.4	3.8	3 170	0 70	0 49	14
JUL 30	1030	192	7.0	23.0	6.8	3.9	240	0 2400	0 53	16
AUG 25	0930	197	7.5	21.0	7.5	1.4	1600	00 40	0 57	17
SEP 30	0930	209	7.5	15.5	8.1	3.8				18
30	0930	209	1.9	15.5	0.1	3.0	, 11	0 40	00	10
DATE	MAGNE- SIUM, DIS- SOLVED (MG/L AS MG)	SODIUM, DIS- SOLVED (MG/L AS NA)	POTAS- SIUM, DIS- SOLVED (MG/L AS K)	BICAR- BONATE (MG/L AS HCO3)	CAR- BONATE (MG/L AS CO3)	ALKA- LINITY (MG/L AS CACO3)	SULFID TOTAL (MG/L	SOLVE (MG/L	DIS- D SOLVED (MG/L	FLUO- RIDE, DIS- SOLVED (MG/L AS F)
OCT	3.6	10	2.7	16	0	4.5	,	- 22	17	2
10 JAN			3.7			13				.2
22 APR	3.2	12	1.9	20	0	16		- 25	19	.2
10 MAY	2.2	3.4	2.8	10	0	8	3	- 16	6.7	.2
29 JUL	3.5	14	2.4	24	0	20		2 24	19	.2
30	3.2	11	3.8	37	. 0	30	-	- 23	18	. 4
AUG 25	3.6	11	3.6	37	0	30		- 25	16	. 4
SEP 30	3.6	13	4.2	41	0	31		- 24	17	.4
DA'	(MG	VED DEG	DUE NIT	N, GE NO3 AMMO AL TOT	IN, GEORIA ORGA CAL TO:	TRO- GENEN, MONANIC ORC	GANIC TAL I	PH IITRO- OR GEN, OS OTAL T MG/L (PHATE ORG OTAL TO MG/L (M	BON, ANIC TAL G/L C)
OCT										
JAN		8.8	200		580	.00	.58		.70	8.9
APR		8.9			300		E.93		.54	4.9
10 MAY		4.3	56 1	.0	120	I	1.8		1.5	12
	1	0	119 1	.6	120	.71	.83	2.4	1.5	4.1
30	1	0	108 1	.1 .	240	1.4	1.6	2.7	1.6	6.6
AUG 25		2	116 2	.1 .	100	.84	.94	3.0	.92	6.2
SEP	1	2	122	.20	300	1.0	1.3	1.5	.43	6.7

DELAWARE RIVER BASIN

01464505 CROSSWICKS CREEK AT GROVEVILLE, NJ--Continued WATER QUALITY DATA, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

DATE	TIME	ALUM- INUM, DIS- SOLVED (UG/L AS AL)	ARSENIC TOTAL (UG/L AS AS)	LIUM, TOTAL RECOV- ERABLE (UG/L AS BE)	BORON, TOTAL RECOV- ERABLE (UG/L AS B)	CADMIUM TOTAL RECOV- ERABLE (UG/L AS CD)	MIUM, TOTAL RECOV- ERABLE (UG/L AS CR)	COPPER, TOTAL RECOV- ERABLE (UG/L AS CU)
MAY								
29	0930	0	2	0	50	0	10	18
			MANGA-					
	IRON,	LEAD,	NESE,	MERCURY	NICKEL,		ZINC,	
	TOTAL RECOV-	TOTAL RECOV-	TOTAL RECOV-	TOTAL RECOV-	TOTAL RECOV-	SELE- NIUM.	TOTAL RECOV-	
	ERABLE	ERABLE	ERABLE	ERABLE	ERABLE	TOTAL	ERABLE	PHENOLS
	(UG/L	(UG/L	(UG/L	(UG/L	(UG/L	(UG/L	(UG/L	
DATE	AS FE)	AS PB)	AS MN)	AS HG)	AS NI)	AS SE)	AS ZN)	(UG/L)
MAY								
29	8800	15	130	.1	7	0	50	0

01464515 DOCTORS CREEK AT ALLENTOWN, NJ

LOCATION.--Lat 40°10'37", long 74°35'57", Monmouth County, Hydrologic Unit 02040201, at bridge on Breza Road in Allentown, and 0.8 mi (1.3 km) downstream from Conines Millpond dam.

DRAINAGE AREA. -- 17.2 mi2 (44.5 km2).

WATER-QUALITY RECORDS

PERIOD OF RECORD. -- Water years 1976 to current year.

COOPERATION.--Analyses of fecal coliform and fecal streptococci by the MPN method, and water-phase nutrients were performed by the New Jersey Department of Health, Division of Laboratories and Epidemiology.

WATER QUALITY DATA, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

DAT	E.	TIME	SPE- CIFIC CON- DUCT- ANCE (MICRO- MHOS)	PH FIELD (UNITS)	TEMPER- ATURE, WATER (DEG C)	OXYGEN, DIS- SOLVED (MG/L)	OXYGEN DEMAND, BIOCHEM UNINHIB 5 DAY (MG/L)	COLI- FORM, FECAL, EC BROTH (MPN)	STREP- TOCOCCI FECAL (MPN)	HARD- NESS (MG/L AS CACO3)	CALCIUM DIS- SOLVED (MG/L AS CA)
JAN 28.		1400	161	6.9	2.5	14.4	1.0	70	49	53	12
MAR 25.		1030	117	6.7	6.0	10.9	1.7	1300	>2400	. 36	8.1
MAY 27.		1030	147		18.0	8.7	1.8	70	350	50	11
JUL 02.		1000	185	7.2	22.0	6.0	4.2	<200	210	57	13
AUG 13.		0915	157	7.3	24.5	6.5	1.8	1100	1100	55	13
SEP 23.		1230	200	7.2	21.5	6.4	3.7	1300	1100	60	15
		50			21.5	•••	3.1	1,500			
DAT	°E	MAGNE- SIUM, DIS- SOLVED (MG/L AS MG)	SODIUM, DIS- SOLVED (MG/L AS NA)	POTAS- SIUM, DIS- SOLVED (MG/L AS K)	BICAR- BONATE (MG/L AS HCO3)	CAR- BONATE (MG/L AS CO3)	ALKA- LINITY (MG/L AS CACO3)	SULFIDE TOTAL (MG/L AS S)	SULFATE DIS- SOLVED (MG/L AS SO4)	CHLO- RIDE, DIS- SOLVED (MG/L AS CL)	FLUO- RIDE, DIS- SOLVED (MG/L AS F)
JAN 28.		5.5	5.9	2.7	20	0	16		26	14	.2
MAR 25.		3.9	4.2	2.8	10	0	8		22	10	.2
MAY 27.		5.4	5.5	2.2	34	0	28		18	11	.3
JUL 02.		6.0	7.2	3.7	41	0	34		23	16	.3
AUG 13.		5.4	5.2	3.3	44	0	36		17	13	.3
SEP 23.		5.5	8.3	4.9	51	0	42	.0	22	16	.3
	JAN 28. MAR 25. MAY		CA, RES AT VED DE /L DO 2) (M	180 GI G. C NO2: IS- TO: LVED (MG G/L) AS	EN, GE +NO3 AMMO FAL TOT G/L (MO N) AS	EN, GE DNIA ORGA TAL TOT G/L (MC N) AS	CAL TOT G/L (MG N) AS	AM- A + NIT NIC GE AL TOT. I/L (MG N) AS	N, OSPH. AL TOTA /L (MG N) AS PO	US, OPH CARB ATE ORGA AL TOT /L (MG D4) AS	NIĆ AL /L C) 3.4
	27. JUL	••	4.4	87	. 85	.440	.76 1	.2 2	.0	.41	7.1
	O2. AUG	• •	6.0	115	.86	.910	.59 1	.5 2	. 4 2	. 7	4.5
	13. SEP		6.9	106	.20	.260	.74 1	.0 1	. 2	.49	5.0
	23.	•	9.7	128	.46 1.	100 1	1.5 2	.6 3	.1 1	. 3	5.9
		DATE SEP	TIME	ALUM- INUM, DIS- SOLVED (UG/L AS AL)	ARSENIC TOTAL (UG/L AS AS)	BERYL- LIUM, TOTAL RECOV- ERABLE (UG/L AS BE)	BORON, TOTAL RECOV- ERABLE (UG/L AS B)	CADMIUM TOTAL RECOV- ERABLE (UG/L AS CD)	CHRO- MIUM, TOTAL RECOV- ERABLE (UG/L AS CR)	COPPER, TOTAL RECOV- ERABLE (UG/L AS CU)	
		23	1230	20	2	0	50	0	20	5	

DELAWARE RIVER BASIN

01464515 DOCTORS CREEK AT ALLENTOWN, NJ--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

IRON, TOTAL RECOV- ERABLE (UG/L AS FE)	LEAD, TOTAL RECOV- ERABLE (UG/L AS PB)	NESE, TOTAL RECOV- ERABLE (UG/L AS MN)	MERCURY TOTAL RECOV- ERABLE (UG/L AS HG)	NICKEL, TOTAL RECOV- ERABLE (UG/L AS NI)	SELE- NIUM, TOTAL (UG/L AS SE)	ZINC, TOTAL RECOV- ERABLE (UG/L AS ZN)	PHENOLS (UG/L)
1400	3	230	.1	4	0	20	4
	TOTAĹ RECOV- ERABLE (UG/L AS FE)	TOTAL TOTAL RECOV-RECOV-ERABLE ERABLE (UG/L (UG/L AS FE) AS PB)	TOTAĹ TOTAĹ TOTAĹ RECOV- RECOV- ERABLE ERABLE ERABLE (UG/L (UG/L (UG/L AS FE) AS PB) AS MN)	TOTAĹ TOTAĹ TOTAĹ TOTAĹ RECOV- REABLE (UG/L (UG/L (UG/L AS FE) AS PB) AS MN) AS HG)	TOTAL TOTAL TOTAL TOTAL TOTAL RECOV- REABLE RABLE RABLE RABLE AS PB) AS MN) AS HG) AS NI)	TOTAĹ TOTAĹ TOTAĹ TOTAL TOTAL SELE- RECOV- RECOV- RECOV- RECOV- NIUM, ERABLE ERABLE ERABLE ERABLE TOTAL (UG/L (UG/L (UG/L (UG/L (UG/L (UG/L AS FE) AS PB) AS MN) AS HG) AS NI) AS SE)	TOTAĹ TOTAĹ TOTAĹ TOTAĹ TOTAL SELE- TOTAĹ RECOV- RECOV- RECOV- RECOV- NIUM, RECOV- ERABLE ERABLE ERABLE ERABLE TOTAĹ ERABLE (UG/L (UG/L (UG/L (UG/L (UG/L AS FE) AS PB) AS MN) AS HG) AS NI) AS SE) AS ZN)

DELAWARE RIVER BASIN

01464522 DOCTORS CREEK AT ROUTE 130 NEAR YARDVILLE, NJ

LOCATION.--Lat 40°10'31", long 74°40'33", Mercer County, Hydrologic Unit 02040201, at bridge on U.S. Route 130, 0.3 mi (0.5 km) upstream from mouth, 0.4 mi (0.7 km) northwest of Groveville, 0.6 mi (1.0 km) southwest of Yardville, and 2.5 mi (4.0 km) southwest of Haines Corner.

DRAINAGE AREA .-- 25.8 mi2 (66.8 km2).

WATER-QUALITY RECORDS

PERIOD OF RECORD .-- Water years 1976 to current year.

WATER QUALITY DATA, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

DATE	TIME	SPE- CIFIC CON- DUCT- ANCE (MICRO- MHOS)	PH FIELD (UNITS)	TEMPER- ATURE, WATER (DEG C)	OXYGEN, DIS- SOLVED (MG/L)	OXYGEN DEMAND, BIOCHEM UNINHIB 5 DAY (MG/L)	COLI- FORM, FECAL, EC BROTH (MPN)	STREP- TOCOCCI FECAL (MPN)	HARD- NESS (MG/L AS CACO3)	CALCIUM DIS- SOLVED (MG/L AS CA)
JAN 22	1430	195	6.9	2.5	14.1	3.4	5	23	54	12
APR 10	1300	90	6.6	14.5	8.8	2.5	920	>2400	25	5.9
MAY										
29 JUL	1130	189	7.2	18.5	8.4	8.4	130	490	56	12
30 AUG	1200	182	7.5	24.0	7.2	3.0	3500	1700	56	13
25 SEP	1200	271	7.4	22.5	7.5	>8.1	3500	50	65	15
30	1300	262	7.2	17.0	8.1	>8.2	220	110	66	16
DATE	MAGNE- SIUM, DIS- SOLVED (MG/L AS MG)	SODIUM, DIS- SOLVED (MG/L AS NA)	POTAS- SIUM, DIS- SOLVED (MG/L AS K)	BICAR- BONATE (MG/L AS HCO3)	CAR- BONATE (MG/L AS CO3)	ALKA- LINITY (MG/L AS CACO3)	SULFIDE TOTAL (MG/L AS S)	SULFATE DIS- SOLVED (MG/L AS SO4)	CHLO- RIDE, DIS- SOLVED (MG/L AS CL)	FLUO- RIDE, DIS- SOLVED (MG/L AS F)
JAN 22	5.8	9.4	2.3	20	0	16		30	18	.2
APR 10	2.6	3.3	2.7	7	0	6		15	7.1	.2
MAY 29	6.2	9.9	2.7	34	0	28	.3	24	17	.3
JUL										
30 AUG	5.8	7.5	3.1	41	0	3.4	77	18	16	• 3
25 SEP	6.8	6.7	5.2	63	0	52		25	24	.4
30	6.4	15	6.0	54	0	4.4		26	26	. 4
DAT	(MG AS	VED DEC	IDUÉ NIT	N, GE NO3 AMMO AL TOT	N, GE ONIA ORGA CAL TOT	NÍC ORGA CAL TOT G/L (MC	AM- IA + NIT INIC GE TAL TOT	J/L (MG	US, OPH CARB ATE ORGA AL TOT /L (MG	NIĆ AL /L
JAN 22.		8.1	121 1	.2 E.	640	F	.72		.72	3.7
APR										
10. MAY		3.4			150		1.6			2
29. JUL	••	5.7	117 1	.9 1.	200	.80 2	2.0	3.9	.60	6.5
30. AUG	••	5.3	99	.87	800 1	.2 2	2.0	2.9	.92	5.5
25. SEP		7.8	132 1	.9 3.	300 2	2.3	5.6	7.5 3	.5 1	2
30.		8.4	147 2	.0 2.	500 2	2.0	1.5	5.5 2	.5 1	3
	DATE	TIME	ALUM- INUM, DIS- SOLVED (UG/L AS AL)	ARSENIC TOTAL (UG/L AS AS)	BERYL- LIUM, TOTAL RECOV- ERABLE (UG/L AS BE)	BORON, TOTAL RECOV- ERABLE (UG/L AS B)	CADMIUM TOTAL RECOV- ERABLE (UG/L AS CD)	CHRO-MIUM, TOTAL RECOV- ERABLE (UG/L AS CR)	COPPER, TOTAL RECOV- ERABLE (UG/L AS CU)	
	MAY 29	1130	10	1	0	90	0	<10	10	

DELAWARE RIVER BASIN

01464522 DOCTORS CREEK AT ROUTE 130 NEAR YARDVILLE, NJ--Continued

WATER QUALITY DATA, WATER YEAR OCTOBE 1979 TO SEPTEMBER 1980

	IRON.	LEAD.	MANGA- NESE,	MERCURY	NICKEL.		ZINC.	
	TOTAL	TOTAL	TOTAL	TOTAL	TOTAL	SELE-	TOTAL	
	RECOV-	RECOV-	RECOV-	RECOV-	RECOV-	NIUM,	RECOV-	
	ERABLE (UG/L	ERABLE (UG/L	ERABLE (UG/L	ERABLE (UG/L	ERABLE (UG/L	TOTAL (UG/L	ERABLE (UG/L	PHENOLS
DATE	AS FE)	AS PB)	AS MN)	AS HG)	AS NI)	AS SE)	AS ZN)	(UG/L)
MAY								
29	1200	2	80	.2	5	0	20	3

01464531 BLACKS CREEK AT BORDENTOWN, NJ

LOCATION.--Lat 40°08'14", long 74°42'42", Burlington County, Hydrologic Unit 02040201, at bridge on U.S. Route 130 in Bordentown, 1.0 mi (1.6 km) northeast of Fieldsboro, 1.3 mi (2.1 km) upstream of mouth, and 3.1 mi (4.9 km) southwest of Groveville.

DRAINAGE AREA. -- 14.5 mi2 (37.6 km2).

WATER-QUALITY RECORDS

PERIOD OF RECORD. -- Water years 1976 to current year.

WATER QUALITY DATA, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

DATE	TIME	SPE CIF CON DUC ANC (MIC MHO)	IC T- E RO- FI	PH A	MPER- TURE, ATER EG C)	SO	GEN, IS- LVED G/L)	BIO	AND, CHEM NHIB DAY	FOI FE E BR	CAL,	TOCO	REP- DCCI CAL PN)	HAR NES (MG AS CAC	S /L	CALCI DIS- SOLV (MG/ AS C	/ED
OCT 01	1100		177	7.3	17.5		8.2		1.5		500		<20		58	. 15	5
JAN 29 APR	1300		205	7.0	2.0		13.4		1.1		<20		79		61	15	5
08 MAY	1300		184	6.8	12.5		10.8		1.3		5		33		58	14	4.
20 JUL	1130		189	6.9	16.5		8.8		3.7		50	+ -	170		54	13	3
30 AUG	1330		195	7.2	24.0		7.0		3.5		170		80		58	16	5
20 SEP	1230		226	7.1	22.0		7.0		5.0		<20		40		62	17	7
29	1330		247	7.2	16.0				5.8		4		<2		66	19	9
DATE	SI DI SOL (MG	S- VED /L	SODIUM, DIS- SOLVED (MG/L AS NA)	POTAS SIUM, DIS- SOLVED (MG/L AS K)	BICA	TE /L S	CAR BONA (MG AS C	TE /L	ALKA LINIT (MG/ AS CACO	Y L	SULFA DIS- SOLV (MG/ AS SO	ED L	CHL RIDE DIS- SOLV (MG/ AS C	, ED L	FLU RIDE DIS SOLV (MG) AS E	E, ED L	
OCT 01		4.9	6.0	5.1		33		0		27	22	2	15			.3	
JAN 29		5.6	11	3.8	1	15	-	0		12	34		18			.2	
APR 08		5.6	7.7	3.5		15		0		12	32	2	15			.2	
MAY 20 JUL		5.3	9.7	3.8	3	29		0		24	28	3	17			.3	
30		4.5	8.1	5.3		34		0		28	24		16			.3	
AUG 20		4.8	11	5.0		39		0		32	28	3	19		3	.3	
SEP 29		4.4	14	6.1		44		0		36	27		21			.3	
DATE	SILI DIS SOL (MG AS	CA, VED /L	SOLIDS, RESIDUE AT 180 DEG. C DIS- SOLVED (MG/L)	NITRO- GEN, NO2+NO3 TOTAL (MG/L AS N)	GE	N, NIA AL /L	NIT GE ORGA TOT (MG AS	N, NIC AL /L	NITRO GEN, A MONIA ORGAN TOTA (MG/ AS N	M- + IC L	NITE GEN TOTA (MG/ AS N	l, L L	PHOS PHORU ORTHO OSPHA TOTA (MG/ AS PO	S, PH TE L	CARBO ORGAN TOTA (MG/	IIĆ L ′L	
OCT O1 JAN	. 1	3	100	1.3	1.	000		. 10	1.	1	2.	4	1.	0	(5.0	
29 APR	. 1	2	118	2.2	Ε.	810			1.	8	4.	0	1.	4	8	3.4	
08 MAY	. 1	0	127	2.5		470		.73	1.	2	3.	7	1.	4		3.9	
20 JUL	. 1	2	127	2.2		360		.94	1.	3	3.	5	1.	5	12	1	
30 AUG	. 1	2	120	1.9		420	1	. 6	2.	0	3.	9	1.	4	. (.0	
20 SEP	. 1	3	138	2.5		340	2	. 0	2.	3	4.	8	3.	2		3.6	
29	. 1	3	150	3.4	1.	800	3	. 1	4.	9	8.	3	3.	6			

139 DELAWARE RIVER BASIN 01464540 CRAFTS CREEK AT HEDDING, NJ

LOCATION.--Lat 40°06'01", long 74°45'23", Burlington County, Hydrologic Unit 02040201, at bridge on Old York Road in Hedding, 1.6 mi (2.6 km) southeast of Roebling, and 2.2 mi (3.5 km) upstream from mouth.

DRAINAGE AREA .-- 10.6 mi2 (27.5 km2).

WATER-QUALITY RECORDS

PERIOD OF RECORD. -- Water years 1959-63, 1976 to current year.

WATER QUALITY DATA, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

DATE	TIME	SPE- CIFIC CON- DUCT- ANCE (MICRO- MHOS)	PH FIELD (UNITS)	TEMPE ATUR WATE (DEG	E, R S	YGEN, DIS- OLVED MG/L)	DEM BIO UNI 5	IAND, CHEM NHIB DAY	COLI- FORM, FECAL, EC BROTH (MPN)	STREP TOCOCC FECAL (MPN)	- NI	ARD- ESS MG/L AS ACO3)	CALCIUM DIS- SOLVED (MG/L AS CA)
OCT 02	1415	192	7.0	18	. 0	7.8		2.2	35000	2400	0	53	11
JAN 30	1030	280	6.6		.0	14.2		.2	2	<	2	74	15
APR 16	1230	200	6.7	11	.5	10.9		.7	920	54	0	54	11
MAY 22	1200	223	7.0	16	. 0	9.6		1.3	2400	46	0	55	11
JUL 17	1215	199	6.9	25	.5	6.7		3.9	11000	350	0	53	11
AUG 18 SEP	1200	236		21	. 5	7.0		2.7	1100	130	0	63	14
24	1300	236	7.1	20	.5	7.2		1.0	1400	49	0	62	14
DATE	MAGN SIU DIS SOLV (MG/	M, SODI - DIS ED SOLV L (MG	IUM, SI S- DI VED SOI G/L (MC	IS- BO	ICAR- ONATE (MG/L AS HCO3)	CAR BONA (MG AS C	TE /L	ALKA- LINITY (MG/L AS CACO3	DIS SOL (MG	ATE R - D VED S /L (HLO- IDE, IS- OLVED MG/L S CL)	FLUC RIDE DIS SOLV (MG/ AS F	ED L
OCT 02	. 6	.3 1	1	5.7	22		0	1	8 2	9	23		.2
JAN 30			18	3.1	10		0		8 3		41		.2
APR 16			12	3.2	12		0	1			25		.2
MAY 22			17	3.2	22		0	1			30		.2
JUL 17	. 6	.1 1	13	4.5	20		0	1	6 3	1	25		.2
AUG 18	. 6	.7	14	5.1				-	- 3	5	29		.2
SEP 24	. 6	.5 1	12	7.2	22		0	1	8 3	9	27		.2
DATE	SILIC DIS- SOLV (MG/ AS SIO2	AT 1 ED DEC L DI SOL	DUÉ NIT 80 GE 6. C NO2- S- TOT VED (MC	EN, NO3 AI TAL	NITRO- GEN, MMONIA FOTAL (MG/L AS N)	GE	NÍC AL /L	NITRO- GEN, AM MONIA ORGANI TOTAL (MG/L AS N)	+ NIT C GE TOT (MG	RO- OR' N, OS AL T	HOS- ORUS, THOPH PHATE OTAL MG/L PO4)	CARBO ORGAN TOTA (MG/ AS C	IIĆ L L
OCT 02	. 11		128 <1	.0	.400		. 47	.8	7		.40	8	3.4
JAN 30	. 11		152 2	2.7	.170		.31	. 4	8 3	. 2	.01	1	. 8
APR 16	. 8	. 3	137	2.2	.320		.49	.8	1 3	. 0	.77	5	. 8
MAY 22	. 9	. 6	163	. 6	.160		.63	.7	9 2	. 4	.06	4	. 4
JUL 17 AUG	. 6	. 3	133	.63	.210		.89	1.1	1	. 7	.34		
18 SEP	. 9	. 8	152	.85	.300		.43	.7	3' 1	. 6	. 15	2	. 7
24	. 8	. 7	153	. 3	.170		.32	. 4	9 1	. 8	.12	5	.7

01464580 ASSISCUNK CREEK AT COLUMBUS, NJ

LOCATION.--Lat 40°03'25", long 74°43'27", Burlington County, Hydrologic Unit 02040201, at bridge on U.S. Route 206, 1.1 mi (1.8 km) south of Columbus, 1.2 mi (1.9 km) downstream of Annaricken Brook, and 2.1 mi (3.4 km) northwest of Jobstown.

DRAINAGE AREA. -- 8.28 mi2 (21.45 km2).

WATER-QUALITY RECORDS

PERIOD OF RECORD. -- Water years 1958-63, 1976 to current year.

WATER QUALITY DATA, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

	DATE	TIME	SPE- CIFIC CON- DUCT- ANCE (MICRO- MHOS)	PH FIELD (UNITS)	TEMPER- ATURE, WATER (DEG C)	OXYGEN, DIS- SOLVED (MG/L)	OXYGEN DEMAND, BIOCHEM UNINHIB 5 DAY (MG/L)	COLI- FORM, FECAL, EC BROTH (MPN)	STREP- TOCOCCI FECAL (MPN)	HARD- NESS (MG/L AS CACO3)	CALCIUM DIS- SOLVED (MG/L AS CA)
(OCT 02	1215	147	6.7	17.5	7.4	2.3	1400	5400	44	11
1	06	1300	183	6.5	1.5	13.2	1.6	2	221	50	13
1	APR 09	1300	105		12.0	9.2	5.4	>2400	>2400	32	7.9
	JUN 03	1230	163		18.5	6.4	1.2	700	1100	45	11
	JUL 16	1230	170		19.5	5.6	1.0	800	1300	46	11
1	AUG 19	1330	185			5.6	1.4	500	800	53	13
	19	1330	100	0.1	17.5	5.0	1.4	500	800	23	13
	DATE	MAGNE- SIUM, DIS- SOLVED (MG/L AS MG)	SODIUM, DIS- SOLVED (MG/L AS NA)	POTAS- SIUM, DIS- SOLVED (MG/L AS K)	BICAR- BONATE (MG/L AS HCO3)	CAR- BONATE (MG/L AS CO3)	ALKA- LINITY (MG/L AS CACO3)	SULFIDE TOTAL (MG/L AS S)	SULFATE DIS- SOLVED (MG/L AS SO4)	CHLO- RIDE, DIS- SOLVED (MG/L AS CL)	FLUO- RIDE, DIS- SOLVED (MG/L AS F)
(OCT 02	4.0	3.7	7.1	18	0	15	.0	30	8.7	.2
1	FEB 06	4.3	5.4		17	0	14		42	12	.3
1	APR 09	3.0	3.2		20	0	16		19	6.2	.2
	JUN 03	4.2	6.2		12	0	10		36	12	.4
	JUL						8	-	44		
1	16 AUG	4.6	5.8		10	0				13	.3
	19	5.0	5.7	5.1	13	0	11	100	42	14	.3
	DAT	(MG AS	CA, RES - AT VED DE /L D SO		EN, GE NO3 AMMO TAL TOT G/L (MG	N, GE ONIA ORGA AL TOT I/L (MG	NIC ORGA AL TOT /L (MG	AM- IA + NIT INIC GE TAL TOTA G/L (MG	N, OSPH AL TOT /L (MG	US, OPH CARB ATE ORGA AL TOT /L (MG	NIC AL /L
	OCT	que la	7	114 <		200 1		li .		F7	0.0
	FEB		7					511 1	_		9.8
	O6.					080	.46				1.9
	JUN 09.		7.2	80						.0 1	
	JUL		7	127		580	.10		. 6	100	5.1
	16. AUG		4	123		110	. 45				1.4
	19.	1	6	137	.73 .	260	.50	.76 1	. 5	.52	.9
		DATE	TIME	ALUM- INUM, DIS- SOLVED (UG/L AS AL)	ARSENIC TOTAL (UG/L AS AS)	BERYL- LIUM, TOTAL RECOV- ERABLE (UG/L AS BE)	BORON, TOTAL RECOV- ERABLE (UG/L AS B)	CADMIUM TOTAL RECOV- ERABLE (UG/L AS CD)	CHRO-MIUM, TOTAL RECOV- ERABLE (UG/L AS CR)	COPPER, TOTAL RECOV- ERABLE (UG/L AS CU)	
		OCT 02	1215	50	1	0	60	0	10	3	

DELAWARE RIVER BASIN

01464580 ASSISCUNK CREEK AT COLUMBUS, NJ--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

	IRON, TOTAL RECOV- ERABLE	LEAD, TOTAL RECOV- ERABLE	MANGA- NESE, TOTAL RECOV- ERABLE	MERCURY TOTAL RECOV- ERABLE	NICKEL, TOTAL RECOV- ERABLE	SELE- NIUM, TOTAL	ZINC, TOTAL RECOV- ERABLE	PHENOLS
DATE	(UG/L AS FE)	(UG/L AS PB)	(UG/L AS MN)	(UG/L AS HG)	(UG/L AS NI)	(UG/L AS SE)	(UG/L AS ZN)	(UG/L)
OCT 02	3700	5	100	<.5	5	0	70	2

01464590 ASSISCUNK CREEK NEAR BURLINGTON, NJ

LOCATION.--Lat 40°04'19", long 74°47'57", Burlington County, Hydrologic Unit 02040201, at bridge on Old York Road, 1.4 mi (2.3 km) southwest of Bustleton, 2.8 mi (4.5 km) northeast of Deacons, 3.2 mi (5.1 km) east of Burlington, and 4.2 mi (6.8 km) upstream from mouth.

DRAINAGE AREA. -- 37.2 mi2 (96.4 km2).

WATER-QUALITY RECORDS

PERIOD OF RECORD. -- Water years 1976 to current year.

WATER QUALITY DATA, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

DATE	TIME	SPE- CIFIC CON- DUCT- ANCE (MICRO- MHOS)	PH FIELD (UNITS)	TEMPER- ATURE, WATER (DEG C)	OXYGEN, DIS- SOLVED (MG/L)	OXYGEN DEMAND, BIOCHEM UNINHIB 5 DAY (MG/L)	COLI- FORM, FECAL, EC BROTH (MPN)	STREP- TOCOCCI FECAL (MPN)	HARD- NESS (MG/L AS CACO3)	CALCIUM DIS- SOLVED (MG/L AS CA)
OCT 09	1100	162	7.1	13.0	9.2	.7	490	<200	51	12
JAN 30	1300	174	6.6	.5	15.1	.1	8	11	56	13
APR 16	1000	124	6.7	12.0	9.6	.3	1600	280	39	8.9
MAY 22	1000	150	6.9	15.5	8.7	2.1	5400	>2400	48	11
JUL 17	1100	170	6.7	24.0	3.4	2.7	9200	3500	53	12
AUG 18	1000	195	7.3	21.0	6.7	2.1	1100	490	63	15
SEP 24	1015	235	7.0	19.5	6.6	.9	1300	790	73	18
DATE	MAGNE- SIUM, DIS- SOLVED (MG/L AS MG)	SODIUM, DIS- SOLVED (MG/L AS NA)	POTAS- SIUM, DIS- SOLVED (MG/L AS K)	BICAR- BONATE	CAR- BONATE (MG/L AS CO3)	ALKA- LINITY (MG/L AS CACO3)	SULFIDE TOTAL (MG/L AS S)	SULFATE DIS- SOLVED (MG/L AS SO4)	CHLO- RIDE, DIS- SOLVED (MG/L AS CL)	FLUO- RIDE, DIS- SOLVED (MG/L AS F)
OCT		- 0				4.0				
09 JAN	5.2	5.8	4.5		0	18	-	30	13	.2
30 APR	5.7	6.1	2.9		0	8		35	13	.2
16 MAY	4.1	4.4	3.1		0	12		26	9.9	.2
22 JUL	5.0	6.1	3.4		. 0	18	.0	26	12	.3
17 AUG	5.7	6.6	4.6	24	0	20		29	15	.3
18 SEP	6.1	6.8	5.2	26	0	21		37	16	.3
24	6.9	7.7	6.8	15	0	12		57	17	.2
DAT	(MG AS	VED DE	IDUÉ NI 180 G G. C NO2 IS- TO LVED (M	EN, GE +NO3 AMMO TAL TOT	EN, GE ONIA ORGA TAL TOT G/L (MC	TAL TOT	AM- IA + NIT ANIC GE TAL TOT G/L (MG	AL TOTA	US, OPH CARB ATE ORGA AL TOT /L (MG	NIĆ AL /L
ОСТ										
09. JAN		6			.200	.31	.51			4.1
30. APR	1	5	111	1.5	.110	.00	.11 1	. 6	. 15	3.6
16. MAY	••	9.0	96	1.0	.130	.68	.81 1	.8 1.	. 2	8.8
22. JUL	1	2	115	1.0	.160	.62	.78 1	.8 1.	. 3	
17.	1	0	111	.66	.200	.80	1.0 1	.7	.21	6.1
18. SEP	1	2	142	.67	.030	.58	.61 1	. 3	.24	3.7
24.	1	3	162	.68 .	. 150	.34	.49 1	.2	.18	6.1

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01464590 ASSISCUNK CREEK NEAR BURLINGTON, NJ--Continued WATER QUALITY DATA, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

DATE	TIME	GEN, + OF TOT BOT	NH4 INC G. GAI IN TOT MAT BOT /KG (G.	MAT BOT	RG + AL ANIC IN . IN D MAT SO /KG (U	LVED T		TOTAL TOTAL IN B TOM I TER (UG AS	AL LI OT- TO MA- RE IAL ER	TAL TOOM ABLE E	OTAL TO ECOV- RE RABLE EF UG/L (U	OMIUM OTAL FI CCOV- TO RABLE OG/L	ADMIUM RECOV. M BOT- OM MA- TERIAL (UG/G AS CD)
OCT		-											
09 MAY	1100	230	10	.9	16				0				<10
22	1000					10	1			0	50	0	
DAT	P F E	CHRO- MIUM, COTAL RECOV- ERABLE (UG/L AS CR)	CHRO-MIUM, RECOV. FM BOT- TOM MA- TERIAL (UG/G)	COBALT, RECOV. FM BOT- TOM MA- TERIAL (UG/G AS CO)	COPPER, TOTAL RECOV- ERABLE (UG/L AS CU)	FM BOT TOM MA TERIA (UG/G	- TOTA - RECO L ERAI	AĹ OV- BLE /L	IRON, RECOV. FM BOT- TOM MA- TERIAL (UG/G AS FE)	RECOV ERABL (UG/L	E TERIAL (UG/G	TOTAL RECO ERABI	V- LE
OCT			20	<10		/1	0		23000		- 1100		
MAY		10	20	X10		<1			142				10
22.	••	10			2	-	- 4	800	- 5		3	. 2	10
DAT	FN TC	MANGA- NESE, RECOV. M BOT- DM MA- CERIAL (UG/G)	MERCURY TOTAL RECOV- ERABLE (UG/L AS HG)	MERCURY RECOV. FM BOT- TOM MA- TERIAL (UG/G AS HG)	NICKEL, TOTAL RECOV- ERABLE (UG/L AS NI)	TERIA (UG/G	SELI NIUM TOTA	M, AL /L	SELE- NIUM, TOTAL IN BOT- TOM MA- TERIAL (UG/G)	ERABLI (UG/L	FM BOT- TOM MA- E TERIAL (UG/G	. PHENOI	
ОСТ					41241121								
09. MAY	• •	360		.00		1	0		0	-	- 50		
22.	• •		.3		6	-	-	0	2.2	1	0		1
DATI	IN TO	PCB, COTAL I BOT- DM MA- CERIAL	ALDRIN, TOTAL IN BOT- TOM MA- TERIAL (UG/KG)	CHLOR-DANE, TOTAL IN BOT- TOM MA- TERIAL (UG/KG)	DDD, TOTAL IN BOT- TOM MA- TERIAL (UG/KG)	TOM MA TERIA	- IN BO - TOM N L TER	AL OT- AA- IAL	DI- AZINON, TOTAL IN BOT- TOM MA- TERIAL (UG/KG)	TOM MA-	TOTAL IN BOT- TOM MA- L TERIAL	TOTAL IN BO TOM MA	Г- А- АL
OCT													
O9.	• •	10	.0	10	23	30	11	7	.0	2.	2 .0		.0
22.	••					-	-			-			
DATE	IN TO	EPTA- HLOR, OTAL BOT- M MA- ERIAL G/KG)	HEPTA- CHLOR EPOXIDE TOT. IN BOTTOM MATL. (UG/KG)	LINDANE TOTAL IN BOT- TOM MA- TERIAL (UG/KG)	MALA- THION, TOTAL IN BOT- TOM MA- TERIAL (UG/KG)	BOTTO MATL	PARA THIC N TOT. M BOTT	A- ON, IN COM	METHYL TRI- THION, TOT. IN BOTTOM MATL. (UG/KG)		TOTAL IN BOT- TOM MA- TERIAL	TOM MA	ν, Γ- Λ-
OCT 09.		.0	.0	.0	.0		0	.0	.0	. (0 0		.0
MAY 22.							_						

01464598 DELAWARE RIVER AT BURLINGTON, NJ

LOCATION.--Lat 40°04'42", long 74°52'28", Burlington County, Hydrologic Unit 02040201, on left bank at the intake canal of the Public Service Electric and Gas Company, 0.3 mi (0.5 km) downstream from Burlington-Bristol Bridge, 1.4 mi (2.3 km) downstream from Assiscunk Creek, and at channel mile 117.40 (188.89 km).

DRAINAGE AREA. -- 7,160 mi2 (18,540 km2).

PERIOD OF RECORD.-TIDE ELEVATIONS: July 1964 to current year. March 1921 to July 1926, January 1931 to November 1939, August 1951 to June 1954, July 1957 to June 1964, in files of Philadelphia District Corps of Engineers.

REVISED RECORDS. -- WDR NJ-76-1: 1973(m).

GAGE.--Water-stage recorder. Datum of gage is -12.90 ft (-3.932 m) National Geodetic Vertical Datum of 1929. Prior to May 20, 1971, water-stage recorder at site 0.8 mi (1.3 km) upstream at same datum. Gage-height record converted to elevation above or below (-) National Geodetic Vertical Datum of 1929 for publication.

REMARKS.--Summaries for months with short periods of no gage-height record have been estimated with negligible or no loss of accuracy unless otherwise noted. Some periods cannot be estimated and are noted by dash (--) lines.

EXTREMES FOR PERIOD OF RECORD. -- Maximum elevation, 8.58 ft (2.615 m) June 30, 1973; minimum, -6.60 ft (-2.012 m)

EXTREMES OUTSIDE PERIOD OF RECORD.--Maximum elevation known, 10.8 ft (3.29 m) Aug. 20, 1955, from high-water mark at site 1.4 mi (2.3 km) upstream; minimum, -9.1 ft (-2.77 m) Dec. 31, 1962, at present site.

EXTREMES FOR CURRENT YEAR.--Maximum elevation recorded, 6.64 ft (2.024 m) Oct. 5; minimum recorded, -5.28 ft (-1.609 m) Dec. 17.

Summaries of tide elevations during current year are as follows:

TIDE ELEVATIONS, IN FEET, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

		OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
Maximum	Elevation	6.6.4	6.61	5.69									6.17
high tide	Date	5	26	20									25
Minimum	Elevation	-3.46	-4.29	-5.28									-3.75
low tide	Date	10	16	17									3
Mean high t	ide	5.20	4.90	4.08									4.74
Mean water	level	1.52	1.28	0.52									1.08
Mean low ti	de	-2.32	-2.54	-3.00									-2.76

NOTE. -- Missing or doubtful record on Jan. 2, to Sept. 1, Sept. 26-30.

01464600 DELAWARE RIVER AT BRISTOL, PA-BURLINGTON, NJ 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).

WATER-QUALITY DATA

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

PERIOD OF DAILY RECORD.-SPECIFIC COMPUCTANCE: October 1967 to September 1975, July 1978 to current year.
pH: October 1967 to September 1975, July 1978 to current year.
WATER TEMPERATURES: October 1954 to September 1975, July 1978 to current year.
DISSOLVED OXYGEN: October 1961 to September 1975, July 1978 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 RECORD .--

SPECIFIC CONDUCTANCE: Maximum, 397 micromhos Nov. 1, 1970; minimum, 54 micromhos June 5, 1968.

pH: Maximum, 9.2 Sept. 28, 29, 1978; minimum, 3.9 Sept. 2, 1978.

WATER TEMPERATURES: Maximum, 31.0°C July 9, 1966; minimum, freezing point on many days during winter months.

DISSOLVED OXYGEN: Maximum, 16.0 mg/L Jan. 12, 1974; minimum, 0.0 on several days during 1963, 1965, and 1967.

TEMPERATURE. V	WATER	(DEG.	C).	WATER	YEAR	OCTOBER	1979	TO	SEPTEMBER	1980
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DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		ОСТОВЕ	ER		NOVEMBE	CR CR		DECEMBE	R		JANUAR	Y
1 2 3 4 5	19.5 19.5 19.5 19.0 18.5	19.0 19.0 18.5 18.0 18.0	19.0 19.5 19.0 18.5 18.5	 	===	===	9.5 8.0 7.0 6.0	7.5 6.5 5.5 5.0 5.0	8.5 7.0 6.5 5.5	5.5 5.0 5.0 4.0	5.0 5.0 4.5 4.0 3.5	5.0 5.0 5.0 4.5 4.0
6 7 8 9	18.0 17.0 15.5 15.0 14.5	16.5 15.5 14.5 14.5 13.5	17.5 16.5 15.5 14.5 14.0	===	===	===	6.0 6.5 6.0 6.0	5.0 5.0 5.5 5.5	5.5 5.5 6.0 6.0	4.0 3.5 3.5 3.0 3.0	3.0 3.0 3.0 3.0 2.5	3.5 3.5 3.0 3.0
11 12 13 14 15	13.5 12.5 12.0 11.5 12.0	12.0 11.5 11.5 11.5 11.5	13.0 12.0 12.0 11.5 11.5	11.0	10.5	10.5	6.5 7.0 7.0 7.5 7.0	5.5 6.0 6.5 6.5	6.0 6.5 6.5 6.5 7.0	3.5 4.0 4.5 4.5 5.0	2.5 3.5 3.5 4.0 4.0	3.0 4.0 4.5 4.5
16 17 18 19 20	12.0 12.5 13.0 12.5	11.5 12.0 12.0 12.5	11.5 12.0 12.5 12.5	11.0 10.5 10.0 9.5 10.0	9.5 9.5 9.0 9.0	10.5 9.5 9.5 9.5 9.5	7.0 7.0 6.0 5.5 4.5	6.5 5.5 4.5 3.5 3.0	6.5 6.0 5.5 5.0 4.0	5.0 5.5 6.0 6.0	4.0 4.5 4.5 5.0 5.5	4.5 5.0 5.5 5.5
21 22 23 24 25	===	===		10.0 10.0 10.5 11.0 11.5	9.0 9.5 9.5 10.0 10.5	9.5 9.5 10.0 10.5 11.0	4.0 3.5 3.5 3.5 4.0	2.5 2.5 2.5 3.0 3.5	3.5 3.0 3.0 3.5 3.5	5.5 5.5 5.0 4.5	5.0 5.0 5.0 4.0 4.0	5.5 5.0 5.0 4.5 4.0
26 27 28 29 30 31	=======================================	=======================================	=======================================	12.0 13.5 14.0 12.0	11.0 12.0 12.0 10.5 8.5	11.5 13.0 13.5 11.0 9.5	7.0 6.5 6.0 5.5 5.5	6.0 6.0 5.5 5.0	6.5 6.0 5.5 5.5	4.5 4.0 4.0 3.5 3.0	4.0 3.5 3.5 3.0 2.5 2.0	4.0 3.5 3.5 3.5 3.0 2.5
MONTH	19.5	11.5	15.0	14.0	8.5	10.5	9.5	2.5	5.5	6.0	2.0	4.0

DELAWARE RIVER BASIN

01464600 DELAWARE RIVER AT BRISTOL, PA-BURLINGTON, NJ BRIDGE--Continued TEMPERATURE, WATER (DEG. C), WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		FEBRUAR	Υ .		MARCH			APRIL			MAY	
1 2 3 4 5	2.5 2.0 2.0 1.5 1.5	2.0 1.5 1.5 1.5	2.5 2.0 1.5 1.5	5.0 4.5 4.0 4.0	4.5 4.0 3.5 3.5 3.5	4.5 4.0 3.5 4.0 4.0	7.5 8.0 8.5 9.0	6.5 7.0 7.5 8.0 8.5	7.5 7.5 8.0 8.5 9.0	12.5 13.5 15.0 16.0 17.0	11.5 12.0 13.0 14.5 16.0	12.0 12.5 14.0 15.5 16.5
6 7 8 9	1.5 2.0 2.0 2.5 2.5	1.0 1.0 1.0 1.5	1.5 1.5 1.5 2.0 2.0	4.5 4.5 4.5	3.5 4.0 4.0	4.0 4.0 4.0	10.0 10.5 11.0 11.5 13.0	9.0 9.5 10.0 11.0 11.5	9.5 10.0 10.5 11.0 12.0	17.5 18.0 	16.5 17.5	17.0 17.5
11 12 13 14 15	2.5 2.5 2.5 2.5 3.0	2.0 2.0 2.0 2.0 2.5	2.5 2.5 2.5 2.5 2.5	9.0 8.5 7.5 7.0	7.0 7.5 6.5 5.5	8.0 8.0 7.0 6.0	13.0 12.5 12.5 12.5 12.5	12.0 11.5 11.5 12.0 12.0	12.5 12.0 12.0 12.5 12.5		=======================================	
16 17 18 19 20	3.0 3.5 3.5 3.5	2.5 2.5 2.0 2.5 3.0	3.0 2.5 2.5 3.0 3.5	6.5	5.0 5.0 	6.0 5.5 	12.5 11.0 11.0 11.5 12.0	11.0 10.0 10.0 10.0 11.0	12.0 10.5 10.5 10.5 11.5			
21 22 23 24 25	4.0 4.5 5.5 6.0	3.0 4.0 4.0 4.5 4.5	4.0 4.0 4.5 5.0	===	===	===	13.0 14.0 14.5 15.0 15.5	11.5 12.5 13.5 14.0 14.5	12.5 13.5 14.0 14.5 15.0	19.5 20.0 20.5 21.5	18.5 19.0 19.5 20.0	19.0 19.5 20.0 20.5
26 27 28 29 30 31	6.5 6.0 6.0 5.5	5.0 5.0 5.0 5.0	6.0 5.5 5.5 5.5	6.0 6.5 7.5 8.5	5.5 6.0 6.5 7.5 7.5	6.0 6.0 7.0 8.0 8.0	15.5 15.5 15.5 14.5 13.5	15.0 15.0 14.0 13.0	15.5 15.5 15.0 14.0 12.5	22.0 22.0 22.0 22.0 22.0 22.0	21.0 21.0 21.0 21.5 21.5 21.5	21.0 21.5 21.5 22.0 22.0 22.0
MONTH	6.5	1.0	3.0	9.0	3.5	5.5	15.5	6.5	11.5	22.0	11.5	18.5
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
DAY	MAX	MIN JUNE	MEAN	MAX	MIN JULY	MEAN	MAX	MIN AUGUST		MAX	MIN SEPTEME	
DAY 1 2 3 4 5	MAX 22.5 23.0 23.5 24.0 24.0		MEAN 22.0 22.5 23.0 23.0 23.5	27.0		M EA N	29.5 29.5 29.5 30.0 30.0			28.5 28.5 29.0 29.0 28.5		
1 2 3 4	22.5 23.0 23.5 24.0	JUNE 22.0 22.0 22.5 23.0	22.0 22.5 23.0 23.0	27.0	JULY 25.5 	===	29.5 29.5 29.5 30.0	AUGUST 28.5 29.0 29.0 29.0	29.0 29.0 29.5 29.5	28.5 28.5 29.0 29.0	27.5 28.0 28.5 28.5	28.0 28.5 28.5 28.5 28.5
1 2 3 4 5 6 7 8 9	22.5 23.0 23.5 24.0 24.0 23.5 24.0 23.5	JUNE 22.0 22.0 22.5 23.0 22.5 23.0 23.0 23.0 23.0 23.5	22.0 22.5 23.0 23.0 23.5 23.5 23.5 23.5 23.5	27.0 27.0 27.0 27.0	JULY 25.5 26.5 26.5 26.0	27.0 26.5 26.5	29.5 29.5 29.5 30.0 30.0 30.5 30.5	AUGUST 28.5 29.0 29.0 29.5 29.0 29.5 29.0 29.5	29.0 29.0 29.5 29.5 29.5 29.5 30.0 30.0	28.5 28.5 29.0 28.5 28.5 28.5 28.5 28.5	SEPTEMB 27.5 28.0 28.5 28.5 28.5 28.0 28.0 27.5	28.0 28.5 28.5 28.5 28.5 28.5 28.5 28.5 28.5
1 2 3 4 5 6 7 8 9 10	22.5 23.0 23.5 24.0 24.0 24.0 23.5 24.0 23.5 22.5	JUNE 22.0 22.5 23.0 22.5 23.0 23.0 23.0 23.0 22.5 22.0 22.0 22.0	22.0 22.5 23.0 23.5 23.5 23.5 22.5 22.5 22.5 22.5	27.0 27.0 27.0 27.0 27.0 27.5 27.5 27.5 27.5	JULY 25.5 26.5 26.5 26.0 26.0 26.5 26.5 26.5 26.5	27.0 26.5 26.5 26.5 27.0 27.0 27.0 27.0	29.5 29.5 30.0 30.0 30.5 30.5 30.5 30.0 30.0	AUGUST 28.5 29.0 29.0 29.5 29.5 29.5 29.5 29.5 29.5 29.5	29.0 29.5 29.5 29.5 29.5 29.5 30.0 30.0 30.0 30.0 39.5 29.5	28.5 28.5 29.0 28.5 28.5 28.5 28.0 28.0 27.0 27.0	SEPTEME 27.5 28.0 28.5 28.5 28.5 28.0 28.0 27.5 27.5 27.0 26.5 26.5	28.0 28.5 28.5 28.5 28.5 28.5 28.5 28.5 28.5
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19	22.5 23.0 24.0 24.0 24.0 23.5 24.0 23.5 22.5 23.0 23.0 23.0 23.0 23.0 23.0 23.0 23.5 23.0	JUNE 22.0 22.5 23.0 22.5 23.0 23.0 23.0 22.0 22.0 22.0 22.0 22.0	22.0 22.5 23.0 23.5 23.5 23.5 22.5 22.5 22.5 22.5 22.5	27.0 27.0 27.0 27.0 27.0 27.5 27.5 27.5 27.5 27.5 27.5 27.5 27.5 27.5 27.5 27.5 27.5 27.5 27.5	JULY 25.5 26.5 26.5 26.0 26.5 26.5 26.5 26.5 27.0 27.5 27.5 28.0	27.0 27.0 27.0 27.0 27.0 27.0 27.0 27.0	29.5 29.5 30.0 30.5 30.5 30.5 30.0 30.0 30.0 30	AUGUST 28.5 29.0 29.0 29.5 29.5 29.5 29.5 29.5 29.5 29.6 29.6 28.0 28.0	29.0 29.5 29.5 29.5 29.5 29.5 29.5 29.5 29.5	28.5 28.5 29.0 28.5 28.5 28.5 28.0 27.0 27.0 26.5 25.5 25.0	SEPTEME 27.5 28.0 28.5 28.5 28.0 28.0 27.5 27.0 26.5 26.5 26.0 25.5 26.0 24.5	28.0 28.5 28.5 28.5 28.5 28.5 28.5 28.0 27.5 27.0 27.0 26.5 26.5 25.5 25.5 25.5 25.0
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30	22.5 23.5 24.0 24.0 23.5 24.0 23.5 22.5 23.0 23.0 23.0 23.0 23.5 23.5 23.5 23.5 23.5 23.5 23.5 23.5	JUNE 22.0 22.5 23.0 23.0 23.0 23.0 22.0 22.0 22.0 22.0	22.0 22.5 23.0 23.5 23.5 22.5 22.5 22.5 22.5 22.5 22.5	27.0 	JULY 25.5 26.55 26.0 26.55 26.52 26.55 27.0 27.55 28.0 27.55 28.0 29.0 29.0 29.0 29.0 29.0 29.0 29.0 29	27.0 26.5 26.5 26.5 27.0 27.0 27.0 27.0 27.5 28.5 28.5 29.5 29.5 29.5 29.5 29.5 29.5 29.0 29.5	29.5 29.5 29.5 30.0 30.5 30.0	AUGUST 28.5 29.0 29.05 29.5 29.5 29.5 29.5 29.5 29.6 29.6 28.0 28.0 27.5 26.5 26.5	29.0 29.5 29.5 29.5 29.5 29.5 29.5 30.0 0 0.5 29.5 29.5 29.5 29.5 29.5 29.5 29.5 29	28.5 28.5 29.0 29.0 28.5 28.5 28.5 28.0 27.0 27.0 27.0 27.0 27.0 27.0 27.0 27	SEPTEME 27.5 28.5 28.5 28.5 28.0 28.0 27.5 27.0 26.5 26.5 26.5 26.5 24.5 24.5 24.5 24.5	28.0 28.5 28.5 28.5 28.5 28.5 28.0 27.0 27.0 27.0 26.5 26.5 25.5 25.0 25.0 25.0 24.5 24.5
1 2 3 4 5 6 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29	22.5 23.5 24.0 24.0 23.5 22.5 23.0 23.0 23.0 23.0 23.0 23.0 23.5 22.5 23.0 23.0 23.5 23.0 23.5 23.0 23.5 23.0 23.5 23.0 23.5 23.5 23.0 23.5 23.0 23.5 23.0 23.5 23.0 23.0 23.0 23.0 23.0 23.0 23.0 23.0	JUNE 22.0 0 22.5 5 0 0 22.5 5 0 0 23.0 0 22.0 0 22.0 0 22.2 22.2 22.2	22.0 22.5 23.0 23.5 23.5 22.5 22.5 22.5 22.5 22.5 22.5	27.0 	JULY 25.5 26.5 26.5 26.0 26.5 26.5 27.0 27.5 28.0 27.5 28.0 29.0 29.0 29.0 29.0 29.0	27.0 26.5 26.5 26.5 27.0 27.0 27.0 27.0 27.5 28.0 27.5 28.5 29.5 29.5 29.5 29.5 29.0 29.5	29.5 29.5 29.5 30.0 30.5 30.5 30.0	AUGUST 28.50 29.00 29.05 29.05 29.05 29.05 29.05 29.05 29.05 29.05 29.07 29.07 29.07 29.07 29.07 29.07 29.07 29.07 29.07 29.07 20.07	29.005555 29.555 29.500 29.555 29.500 29.5555 29.500 29.5555 29.500 27.5555 27.5555 27.5555	28.5 28.5 29.0 28.5 29.0 28.5 28.5 28.5 28.5 28.5 28.5 27.7 26.0 27.7 27.0 26.5 27.7 27.0 27.5	SEPTEME 27.5 28.5 28.5 28.0 28.0 27.7 276.5 26.5 26.5 26.5 26.5 26.5 26.5 26.5 2	28.0 28.5 28.5 28.5 28.5 28.5 28.0 27.0 27.0 26.5 26.5 25.0 25.0 25.0 24.0 24.0 24.0 23.0 23.0 22.5

01464600 DELAWARE RIVER AT BRISTOL, PA-BURLINGTON, NJ BRIDGE--Continued

SPECIFIC CONDUCTANCE (MICROMHOS/CM AT 25 DEG. C), WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

	S	PECIFIC	CONDUCTANCE	(MICROMH	OS/CM AT	25 DEG.	C), WATER	YEAR OCTO	BER 1979	TO SEPTEMBER	1980	
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		остовя	ER		NOVEMBE	R		DECEMBE	R		JANUAR	Y
1 2 3 4 5	166 168 166 158 131	156 162 151 126 118	162 165 157 140 125	===	===	===	112 121 128 136 142	98 107 116 121 130	104 113 120 125 133	156 156 162 166 165	147 150 154 159 162	149 152 157 161 163
6 7 8 9	126 117 108 101 112	109 103 95 95 99	117 110 101 97 104	==	===	===	151 150 151 157 163	136 140 144 148 153	139 142 146 151 156	169 175 177 183 188	163 167 172 176 179	165 169 174 178 182
11 12 13 14 15	127 134 142 148 149	106 126 131 136 142	119 129 135 139 145	172	166	167	166 170 174 185 186	158 162 166 172 177	161 165 170 176 180	197 208 208 205 204	184 190 190 192 192	189 201 202 199 199
16 17 18 19 20	152 156 161 160	146 149 153 157	148 152 156 158	177 182 182 185 188	168 172 175 177 180	170 175 177 178 182	187 183 183 182 181	175	179 179 179 178 178	202 200 201 199 198	193 193 192 193 192	199 197 196 195 195
21 22 23 24 25	===	===	===	189 191 192 193 195	183 185 186 186 189	185 187 188 189 191	185 190 194 201 196	192	181 186 191 194 195	199 204 201 203 211	194 195 196 197 199	196 198 198 199 203
26 27 28 29 30 31	===	===		196 198 189 120 105	192 189 117 94 93	193 192 161 100 97	197 192 170 151 155	158 143 143	193 178 153 145 146	212 217 222 224 224 228	205 209 212 217 218 220	208 212 216 218 220 223
MONTH	168	95	135	198	93	171	201	98	161	228	147	191
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
	1	FEBRUA			MARCI			APRI			MAY	
1 2 3 4 5	230 233 235 237 241	224 227 229 231 234	226 229 231 233 236	263 261 262 260 262	254 252 251 252 254	257 257 256 256 257	129 131 140 141 138	123 127 129	122 126 132 133 133	166 130 130 149 143	125 122 124 126 134	142 125 126 130 136
6 7 8 9	245 256 272 284 282	236 241 249 260 270	240 247 260 272 276	265 273 274	257 261 262	260 265 268	143 136 134 139 146	129 129 130	137 131 130 133 141	143 153 	136 143 	139 146
11 12 13 14 15	282 275 273 271 269	268 260 259 257 257	274 269 266 263 262	271 262 261 247	252 249 223 207	260 255 247 225	145 123 119 127 136	108 108 112	135 113 111 118 125	===		===
16 17 18 19	265 263 268 266 265	256 254 255 255 255	260 259 259 259 259	232 220 	205 210 	216 216 	138 140 130 131 137	122 120 122	131 129 124 124 129	===		===
21 22 23 24 25	266 266 263 267 268	256 257 256 255 257	259 260 259 261 261	===	===	===	140 150 153 159 162	138 145 149	134 142 147 153 158	168 173 176 179	158 165 170 171	163 169 172 174
26 27 28 29 30	265 267 262 260	254 255 253 255	259 260 258 257	120 125 131 140	114 115 120 128 123	117 119 124 134 132	171 173 175 182 182	164 171 174 152	163 169 172 177 175	178 182 184 186 190 192	172 173 175 177 178 182	174 175 177 179 182 187
31 MONTH	284	224	256	137 274	114	217	182		138	192	122	159
HOMIN	204	264	250	-11	1.00		,02		7.7	4.500		

01464600 DELAWARE RIVER AT BRISTOL, PA-BURLINGTON, NJ BRIDGE--Continued

SPECIFIC CONDUCTANCE (MICROMHOS/CM AT 25 DEG. C). WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

	DIEGII IC	CONDUCTANCE	(HICKOHII	OB/ CH AI	25 DEG. C	, WHIER II	SAR OCTO	DEN 1919 1	0 0011101100	. 1900	
MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
	JUNE			JULY			AUGUST		100	SEPTEMBE	R
201	187	192	234	232		225	216	219	236	228	231
	191								237	229	231
											231
							217				231
225	211	220				225	218	221			
225	218	222				224	216	219	236		228
226	215									215	224
											221
										210	218
											045
											217
211		209	202								214
211									222		215
								200	219	213	215
										045	246
											216
			207			201					218
										218	220
											221
210	211	2/13	212	200	200						
221	214	216	215	209	211						221
										213	219
											219
											219
231	223	226	223	216	218	220	211	210	224	209	
234	224	227	222	216	218	222	214	219	222	209	215
237	226	229	223			226	217				213
				217							213
235				218							214
			224	211	219						
237	187	215	234	190	210	235	193	213	237	207	220
284	93	193									
	201 201 218 225 226 220 218 214 211 211 211 210 209 216 215 216 227 227 231 237 237 237 237	MAX MIN JUNE 201 187 203 191 210 197 218 201 225 211 225 218 226 215 220 212 218 206 214 202 211 203 211 206 214 206 211 206 210 206 209 207 216 208 215 209 216 211 221 214 227 217 226 217 227 220 231 223 234 224 237 227 235 230 237 187	MAX MIN MEAN JUNE 201 187 192 203 191 197 210 197 203 218 201 211 225 211 220 225 218 222 226 215 221 210 206 212 214 202 208 211 208 209 211 208 209 211 208 209 211 208 209 211 208 209 211 208 209 211 208 209 211 208 209 211 208 209 211 208 209 211 208 209 211 208 209 211 208 209 211 206 208 214 206 208 219 206 208 210 206 208 210 206 208 210 206 208 211 206 208 210 206 208 211 206 208 211 206 208 211 206 208 211 206 208 211 206 208 211 206 208 211 206 208 211 206 208 211 206 208 212 208 213 208 214 216 229 227 220 224 231 223 226 234 224 227 237 220 224 231 235 229 232 235 230 232 237 187 215	MAX MIN MEAN MAX JUNE 201 187 192 234 203 191 197 203 218 201 211 225 211 220 225 218 222 226 216 215 221 230 220 212 217 229 218 206 212 217 229 218 206 212 217 229 218 206 208 214 201 208 209 202 211 208 209 202 211 208 209 202 211 206 208 201 211 206 208 205 214 206 208 201 210 206 208 207 211 206 208 207 215 209 211 207 216 217 220 207 216 217 220 217 221 214 216 215 227 217 220 224 227 220 224 222 231 223 226 223 234 224 227 221 227 220 224 222 231 223 226 223 234 224 227 221 227 220 224 222 237 226 223 234 227 231 222 235 230 232 221 237 187 215 234	MAX MIN MEAN MAX MIN JUNE JULY 201 187 192 234 232 203 191 197 203 218 201 211 225 211 220 226 215 221 230 208 220 212 217 229 195 218 206 212 222 190 214 202 208 214 190 211 203 208 206 195 211 203 208 206 195 211 203 208 206 195 211 208 209 202 197 211 208 209 202 197 211 206 208 207 201 210 206 208 207	MAX MIN MEAN MAX MIN MEAN JUNE JULY 201 187 192 234 232 203 191 197 210 197 203 218 201 211 225 211 220 225 218 222 226 215 221 230 208 221 220 212 217 229 195 213 218 206 212 222 190 203 214 202 208 214 190 198 211 203 208 206 195 198 211 208 209 202 197 199 211 208 209 202	MAX MIN MEAN MAX MIN MEAN MAX JUNE JULY 201 187 192 234 232 225 203 191 197 203 221 210 197 203 223 218 201 211 222 225 211 220 225 225 218 222 224 226 215 221 230 208 221 229 220 212 217 229 195 213 234 218 206 212 222 190 203 222 214 202 208 206 195 198 221 211 203 208 206 195 198 221 211 208 209 202 <td> MAX MIN MEAN MAX MIN MEAN MAX MIN </td> <td> MAX MIN MEAN MAX MIN MEAN MAX MIN MEAN </td> <td> MAX</td> <td> JUNE JULY AUGUST SEPTEMBE </td>	MAX MIN MEAN MAX MIN MEAN MAX MIN	MAX MIN MEAN MAX MIN MEAN MAX MIN MEAN	MAX	JUNE JULY AUGUST SEPTEMBE

			OXYGEN,	DISSOLVED	(DO), MG/	L, WATER	YEAR OCTOBER	1979	TO SEPTEMB	ER 1980		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		остов	ER		NOVEMBE	CR CR		DECEMBI	ER		JANUAF	łY.
1	5.5	5.2	5.4				12.1	11.2	11.6	13.0	12.8	12.9
2	5.6	5.0	5.2				12.7	11.7	12.2	13.1	12.8	12.9
3	5.9	5.0	5.5	1000			13.0	12.4	12.7	13.2	12.9	13.0
3	6.2	5.6	5.9				13.4	12.6	12.9	13.2	12.9	13.1
5	6.4	5.8	6.0				13.4	13.0	13.2	13.4	13.1	13.2
6	6.8	6.1	6.5				13.3	13.0	13.1	13.4	13.1	13.3
7	7.1	5.6	6.7				13.3	13.0	13.1	13.6	13.2	13.4
8	7.4	6.9	7.2				13.1	12.9	13.0	13.8	13.5	13.6
9	7.7	7.2	7.4				12.9	12.6	12.8	13.8	13.4	13.6
10	7.7	7.5	7.6				12.6	12.4	12.5	13.8	13.5	13.6
11	8.3	7.5	7.9				12.5	12.3	12.4	13.7	13.4	13.6
12	8.7	8.2	8.5				12.7	12.3	12.5	14.0	13.4	13.6
							12.7	12.5	12.6	13.8	13.2	13.6
13	8.8	8.4	8.6	77.5						13.5	12.8	13.0
14	8.8	8.6	8.7		1		12.6	12.4	12.5			12.8
15	8.8	8.5	8.7	10.6	10.4	10.5	12.4	12.0	12.2	13.1	12.7	12.0
16	8.8	8.6	8.7	10.9	10.4	10.6	12.2	11.9	12.0	13.3	12.7	13.0
17	8.7	8.3	8.5	11.2	10.4	10.8	12.7	11.9	12.3	13.2	12.9	13.0
18	8.4	8.2	8.3	11.4	10.9	11.0	12.8	12.4	12.6	13.0	12.8	12.9
19	8.3	8.2	8.2	11.6	10.9	11.2	13.0	12.5	12.7	13.1	12.8	12.9
20				11.8	11.1	11.4	13.4	12.7	12.9	13.1	12.8	12.9
20				11.0		11.4	13.4	12.1	12.5			
21				11.7	11.3	11.4	13.6	12.9	13.2	12.8	12.6	12.7
22				11.6	11.3	11.4	13.8	13.2	13.4	12.6	12.4	12.5
23				11.5	11.1	11.3	14.1	13.4	13.7	12.7	12.3	12.5
24				11.3	10.9	11.0	14.1	13.6	13.8	12.9	12.5	12.7
25				11.0	10.7	10.8	14.0	13.7	13.8	12.8	12.6	12.7
26				10.9	10.5	10.6				12.9	12.6	12.7
27				10.9	9.9	10.5	12.4	12.2	12.3	13.2	12.6	12.7
				10.8	9.9	9.6	12.5	12.1	12.3	13.3	12.6	12.9
28							12.9	12.3	12.6	13.5	12.7	13.0
29				10.7	10.1	10.4		12.5	12.8	13.7	12.9	13.4
30				11.4	10.5	11.0	13.0				13.2	13.4
31							13.0	12.7	12.8	13.6	13.2	13.4
MONTH	8.8	5.0	7.3	11.8	9.2	10.8	14.1	11.2	12.8	14.0	12.3	13.1
		4-11-1			-							

01464600 DELAWARE RIVER AT BRISTOL, PA-BURLINGTON, NJ BRIDGE--Continued OXYGEN, DISSOLVED (DO), MG/L, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		FEBRUAR	RY		MARCH			APRII			MAY	
1 2 3 4 5	13.6 13.7 13.7 13.6 13.6	13.3 13.4 13.4 13.4 13.3	13.5 13.6 13.5 13.5	11.9 12.1 12.4 12.4 12.6	11.5 11.5 11.6 12.0 11.9	11.7 11.8 12.0 12.2 12.2	11.3 11.5 11.3 10.1 10.2	10.7 11.0 10.1 9.8 9.7	11.0 11.2 10.7 10.0 10.0	9.1 9.0 8.7 8.3 8.0	8.6 8.3 7.9 7.5	8.8 8.6 8.2 7.9
6 7 8 9	13.5 13.8 13.9 13.8 13.8	13.2 13.3 13.4 13.4	13.4 13.5 13.6 13.6	13.1 13.0 12.7	11.8 12.1 12.0	12.5 12.5 12.3	10.0 10.1 9.9 9.6 9.3	9.7 9.8 9.6 9.3 8.6	9.8 9.9 9.8 9.5 9.0	7.6 7.1 	6.7 6.8 	7.3 6.8
11 12 13 14 15	13.6 13.5 13.4 13.4	13.3 13.3 13.1 13.1	13.4 13.4 13.3 13.2 13.1	11.4 10.7 11.0 12.1	10.8 10.2 10.2 10.6	10.9 10.4 10.5 11.4	9.2 9.4 9.4 9.3 9.0	8.5 9.0 9.1 8.9 8.9	8.9 9.2 9.2 9.1 8.9	===	==	==
16 17 18 19 20	13.1 12.8 12.8 12.6 12.4	12.4 12.5 12.2 12.3 12.0	12.8 12.7 12.7 12.5 12.2	12.1 11.7 	10.8	11.4 11.4 	9.4 9.7 9.9 9.8 9.6	8.9 9.2 9.5 9.5 9.3	9.2 9.4 9.7 9.6 9.5	===	==	==
21 22 23 24 25	12.1 12.1 12.2 12.3 12.2	11.9 11.7 11.7 11.7 11.8	12.0 11.9 11.9 12.0 12.0	===	===	===	9.4 9.2 8.8 8.5 8.1	9.1 8.8 8.4 8.0 7.8	9.3 9.0 8.6 8.2 7.9	7.8 7.5 7.3 7.3	7.3 7.1 6.9 6.8	7.5 7.3 7.1 7.0
26 27 28 29 30 31	12.1 12.0 11.8 11.8	11.7 11.6 11.5 11.4	11.9 11.8 11.7 11.6	12.0 12.0 11.7 11.3	11.7 11.7 11.2 10.8 10.8	11.8 11.8 11.5 11.0	7.9 7.7 8.0 8.4 8.9	7.7 7.5 7.5 7.7 8.2	7.8 7.6 7.7 8.0 8.4	7.7 7.8 8.0 7.6 7.4 7.1	6.8 6.7 6.8 6.8 6.5	7.1 7.2 7.2 7.2 7.0 6.8
MONTH	13.9	11.4	12.8	13.1	10.2	11.6	11.5	7.5	9.2	9.1	6.5	7.5
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
DAY	MAX	MIN JUNE	MEAN	MAX	MIN JULY	MEAN	MAX	MIN AUGUST		MAX	MIN SEPTEME	
DAY 1 2 3 4 5	7.6 7.7 8.0 8.2 7.5		6.8 6.8 6.6 6.7 6.5	4.6 		MEAN	6.5 6.3 6.5 6.1 5.7			5.4 5.6 6.6 5.9 5.5		
1 2 3	7.6 7.7 8.0 8.2	JUNE 6.3 6.3 6.1 6.0	6.8 6.8 6.6 6.7	4.6 	JULY 3.9 	===	6.5 6.3 6.5 6.1	4.7 4.8 4.7 4.9	5.3 5.3 5.3 5.3	5.4 5.6 6.6 5.9	3.7 3.8 3.9 4.0	4.4 4.7 5.2 5.1
1 2 3 4 5 6 7 8	7.6 7.7 8.0 8.2 7.5 6.9 7.5 7.5	JUNE 6.3 6.3 6.1 6.0 5.6 5.5 5.5 5.5	6.8 6.8 6.6 6.7 6.5 6.2 6.3 6.3	4.6 7.9 7.4 8.0	JULY 3.9 6.5 5.5 5.8	7.2 6.5 6.8	6.5 6.3 6.5 6.1 5.7 5.9 5.6 5.8	4.7 4.8 4.7 4.9 4.8 4.5 4.3	5.335.355.2 5.4.995.0	5.4 5.6 6.9 5.5 5.6 6.5 6.5	3.7 3.8 3.9 4.0 3.5 2.8 3.9	4.4 4.7 5.2 5.1 4.5 4.5 5.4 5.4
1 2 3 4 5 6 7 8 9 10 11 12 13 14	7.6 7.7 8.2 7.5 6.9 7.5 7.0 6.7 7.3 8.1 7.7	JUNE 6.3 6.3 6.3 6.0 5.6 5.5 5.5 5.5 5.6 6.0 6.5	6.8 6.8 6.6 6.7 6.5 6.2 6.3 6.1 6.5 6.5 7.4	4.6 7.9 7.4 8.0 7.5 7.7 8.2 8.0 8.3	JULY 3.9 6.5 5.5 5.8 6.0 6.1 6.2 6.4 6.5	7.2 6.5 6.8 6.8 7.0 7.1	6.53 6.53 6.17 5.66 5.7 5.60 5.7 5.35	4.7 4.8 4.7 4.8 4.5 4.3 4.3 4.3 4.3 4.2 5.0	333332 29909 8146 5.5555 5.4.55 4.555	5.666.55.5.5.66.5.14 7.146.4	3.7 3.8 3.9 4.0 3.5 2.8 3.9 4.5 4.5 4.5 5.1	4.4 4.7 5.1 4.5 4.5 5.4 5.4 5.5 5.4 5.7
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15	7.6 7.7 8.0 8.2 7.5 6.9 7.5 7.0 6.7 7.3 8.1 7.7 8.7 8.2 7.8	JUNE 6.3 6.3 6.3 6.0 5.6 5.5 5.5 5.6 6.9 6.7 6.6 6.1	6.8866.66.75 6.226.336.1 6.5846 77.6 77.21.8	4.6 7.9 7.4 8.0 7.5 7.7 8.2 8.3 7.5	JULY 3.9 6.5 5.8 6.0 6.1 6.24 6.5 6.5 6.6 5.3	7.2 6.5 6.8 6.8 7.0 7.1 7.2 7.0 6.8 6.3 6.3	6.535 6.5.17 968807 5.66.55 7.34 6.75 5.66 6.75 7.34 6.76 6.76 7.34	4.7 4.8 4.7 4.8 4.5 4.3 4.3 4.3 4.2 7 5.7 4.7 5.4	333332 29909 81466 5993 55555 54454 45555 5555	466695 665514 71445 9440 5.66666 56666 5555.	SEPTEME 3.7 3.8 3.9 3.5 2.8 3.9 4.5 4.5 4.5 5.1 1 4.7 4.4 4.4 4.9	4.4 4.72 55.15 4.5 5.2 4.5 5.2 4.7 5.7 5.7 5.7 5.7 5.7 5.9 4.9
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 29 20 20 20 20 20 20 20 20 20 20 20 20 20	7.6 7.7 8.2 7.5 6.9 7.5 7.0 6.7 7.3 8.1 7.7 8.7 8.2 7.8 7.3 7.1	JUNE 6.3 6.3 6.3 6.0 5.6 5.5 5.5 5.4 6.0 6.5 6.9 6.6 6.1 8 5.6 6.0 6.0	6.8866.6.5 223331 258846 32184 77.66.6.6.6.6.6.6.6.6.6.6.6.6.6.6.6.6.6	4.6 7.9 7.4 8.0 7.5 7.7 8.2 8.3 7.5 7.4 6.9 7.1 6.3 6.5 6.5 6.1 6.2 6.0	JUL 3.9	7.25 8.8 8.00 1.20 8.30 7.6 6.4 9.8 1 3.4 5.5 5.5 5.5 5.5 5.5 5.5 5.5 5.5 5.5 5	5.35.17 9.68.07 4.33.55 7.34.93 8.27.41 9.35.84 6.5.6.6.6.6.6.7.7 6.5.8.4	4.7 4.87 4.87 4.88 4.53 4.33 4.27 5.07 4.7 5.49 4.91 8.72 4.94 4.91 8.72 4.94 4.91 8.72 4.94 4.94 4.94 4.94 4.94 4.94 4.94 4.9	333332 29909 81466 59933 76701 87140 55555 54454 45555 55555 55566 55554.0	46695 66514 71445 94402 1701 55655 56666 56666 55555 4 4344	SEPT EMB 3.8905 3.8934.55 2.8934.45 4.555.11 4.44.496 3.303.33 3.303.34 4.555.11	HATELER 4.172.15 5.24.45 277777 30949 645777 03468
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 32 42 25 26 27 28 9	7.67 7.78 8.22 7.55 6.95 7.55 7.00 6.7 7.31 7.78 8.02 7.83 7.75 7.83 7.75 7.84 6.68 6.68 6.68 6.68 6.68	JUNE 6.3 66.6 6.6 5.5 5.5 5.6 6.6 6.6 6.6 6.6 6.	6.8866.5 223331 25846 32184 77652 09618 6.666.6 6.555.	4.6 7.9 7.4 8.0 7.5 7.7 8.2 8.3 7.5 7.4 6.3 6.3 6.4 6.5 6.3	JUL 3	7.5888 8.0120 8.3076 6.4981 34555 55.55555	6.35.17 9.68.07 4.33.55 7.34.93 82.74.1 9.35.8 6.66.77. 6.55.8	4.7 4.8 4.8 4.8 4.3 4.3 4.3 4.2 7 4.4 4.9 4.9 4.9 4.9 4.9 4.9 4.9 4.9 4.9	333332 29909 81466 59933 76701 8714 55555 54454 45555 55555 55566 5554.	466695 66514 71445 94402 17010 12397 55655 56666 56666 55554 43444 555555	SEPT EMB 3.8905 8.934.5 5.4011 7.44.49.6 32.03.4 4.555.1 4.44.9.6 32.03.3 3.3 3.3 3.3 3.3 3.3 3.3 3.3 3.3 3.	HAT TO THE TENT OF

O1464600 DELAWARE RIVER AT BRISTOL, PA-BURLINGTON, NJ BRIDGE--Continued PH (STANDARD UNITS), WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

DAY MAX MIN MEAN MAX MIN MEAN MAX MIN MEAN MAX MIN MEAN OCTOBER NOVEMBER DECEMBER JANUARY 6.7 6.7 6.9 7.0 7.0 6.8 7.2 6.8 6.7 6.7 7.3 7.3 1234 6.9 7.4 7.3 7.3 7.3 7.4 7.3 7.4 7.4 6.8 ---------6.9 6.8 6.8 6.8 6.7 6.7 ---------7.1 7.0 7.4 5 6.9 6.7 6.8 ------7.1 7.0 7.1 7.1 7.1 7.2 7.5 7.5 7.5 7.4 6 6.9 6.8 6.9 7.1 7.1 7.4 7.4 7.4 6.9 6.8 6.9 ---7.1 7.1 ---------8 ------6.9 6.9 7.1 7.1 7.5 7.4 7.4 6.9 ---------7.1 10 6.8 6.9 7.4 7.4 7.4 7.1 7.1 7.1 7.1 7.3 7.4 7.3 7.3 7.4 6.9 7.1 7.1 7.5 11 6.7 6.8 ---7.2 6.7 ------7.2 7.4 12 6.8 ---7.5 13 6.9 6.9 ---------7.1 7.1 7.4 6.9 6.9 6.9 7.4 7.2 7.3 15 7.0 6.9 6.9 7.0 7.0 7.0 7.2 7.1 7.1 7.3 7.3 7.3 7.3 7.3 16 7.0 6.9 6.9 7.0 6.9 7.0 7.1 7.4 7.3 7.1 7.1 7.1 7.1 7.1 7.2 7.2 7.2 7.1 7.2 7.2 7.2 7.2 7.2 7.4 17 6.9 6.9 6.9 6.9 7.0 18 6.9 6.9 6.9 7.0 7.0 7.3 7.0 19 7.0 7.0 7.3 7.1 7.2 7.2 7.3 21 7.1 7.0 7.3 7.2 7.4 7.3 7.3 7.3 7.3 ---------7.1 7.3 7.3 ---------7.1 7.1 7.1 7.3 7.3 7.3 23 ------7.1 7.0 7.0 7.4 24 7.1 7.3 7.3 7.3 25 ------7.1 6.9 7.0 7.3 7.2 7.3 7.5 7.4 26 ------7.1 7.0 7.0 7.5 7.4 7.4 ---7.4 7.4 7.4 7.5 27 28 ---7.2 7.1 7.2 7.2 7.2 7.2 7.6 7.5 ------7.0 7.1 ---------7.5 7.5 7.6 7.1 29 ---------6.8 6.6 6.7 7.2 7.1 7.5 30 ---------6.7 7.1 7.1 6.7 7.3 MONTH 7.4 7.0 6.7 6.9 7.2 6.6 7.0 6.7 7.1 7.6 7.2 7.4 MIN MEAN MAX MIN MIN MIN DAY MAX MEAN MAX MEAN MAX MEAN FEBRUARY MARCH APRIL MAY 7.5 7.5 7.5 7.5 7.5 7.4 7.4 7.5 7.4 7.5 7.5 7.5 7.5 7.6 6.8 7.7 7.5 6.7 6.8 7.7 7.6 7.6 7.6 7.6 == 6.6 2 ------7.6 ---6.6 7.6 6.6 ------6.7 6.6 5 7.5 7.5 ---6.7 7.5 ---6.6 7.6 7.5 7.5 7.5 7.4 7.5 6 7.1 6.9 6.6 6.6 6.6 7.5 7.6 7.6 6.9 7.6 7.6 7.5 7.4 7.5 7.0 6.9 7 8 6.6 6.5 6.5 ---------7.6 6.9 6.9 ------6.6 10 7.6 6.9 6.8 7.6 7.6 7.6 11 7.6 7.6 6.6 6.7 6.8 ---------7.6 7.5 7.4 7.3 6.7 12 7.6 7.4 ---------6.6 6.7 13 7.6 7.4 7.4 6.6 6.7 6.7 14 7.6 7.5 7.6 7.5 7.4 6.8 6.6 15 7.6 7.5 7.5 7.3 7.4 6.8 6.7 6.8 ---------7.5 16 7.5 7.4 6.8 6.7 6.8 7.5 7.5 7.5 7.4 7.3 17 7.5 7.6 7.4 6.8 6.7 6.8 ------------18 7.4 7.5 ---=== 6.8 6.7 6.8 ------------------19 ---20 7.5 7.5 6.9 6.8 6.8 21 7.5 7.4 7.5 6.9 6.8 6.8 ---------22 7.5 7.4 7.4 ---------6.8 6.8 6.8 6.8 6.7 6.8 23 7.4 ---------6.8 6.7 6.8 6.8 6.7 6.8 24 7.5 7.4 7.4 ---6.7 6.6 6.7 6.8 6.7 6.8 25 7.4 7.5 7.4 ---------6.7 6.6 6.7 6.8 6.7 6.7 26 7.4 7.3 7.4 6.7 6.6 6.7 6.8 6.7 6.7 ---------7.4 7.4 27 7.4 ------6.7 6.6 6.7 6.8 6.7 6.8 28 ------7.4 6.8 6.7 6.7 6.8 6.8 7.4 29 7.5 ---6.9 6.7 6.8 6.7 6.8 6.8 ---6.8 30 ------6.9 6.8 ---------6.8 ---------6.9 6.8 6.8 ---MONTH 7.7 7.3 7.5 7.6 7.3 7.5 7.1 6.6 6.8 6.9 6.5 6.7

DELAWARE RIVER BASIN

01464600 DELAWARE RIVER AT BRISTOL, PA-BURLINGTON, NJ BRIDGE--Continued
PH (STANDARD UNITS), WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		JUNE			JULY			AUGUST			SEPTEME	BER
1 2 3 4 5	7.0 7.0 7.1 7.3 7.1	6.8 6.8 6.9 6.9	6.9 6.9 6.9 7.0	6.8	6.7		7.0 7.0 7.0 7.0 6.9	6.8 6.9 6.8 6.9	6.9 6.9 6.9 6.9	6.7 6.8 6.9 6.8 6.8	6.7 6.6 6.7 6.7	6.7 6.8 6.7 6.7
6 7 8 9	7.0 7.0 7.0 6.9 6.8	6.9 6.8 6.8 6.7	6.9 6.9 6.9 6.8 6.8	7.2 7.1 7.2 7.0	7.0 6.8 6.8	7.1 7.0 7.0 6.9	7.0 6.9 7.0 7.0 6.9	6.8 6.8 6.8 6.8	6.9 6.8 6.9 6.9	6.8 6.8 6.8 6.8	6.6 6.6 6.7 6.7	6.7 6.8 6.8 6.8
11 12 13 14 15	7.0 7.1 7.0 7.1 7.1	6.7 6.8 6.8 6.8	6.8 6.9 6.9 6.9	7.1 7.2 7.2 7.2 7.1	6.9 6.9 6.9 6.9	6.9 7.0 7.0 7.0 7.0	6.9 6.9 6.9 6.9	6.8 6.8 6.7 6.8 6.7	6.8 6.8 6.8 6.8	6.8 6.8 6.8 6.9	6.7 6.7 6.7 6.7	6.8 6.8 6.8 6.8
16 17 18 19 20	7.0 7.0 6.9 7.0 7.0	6.8 6.9 6.8 6.8	6.9 6.9 6.9 6.9	7.2 7.1 7.1 7.0 7.0	7.0 7.0 6.9 6.9	7.1 7.0 7.0 6.9 6.9	7.0 7.0 6.9 6.8 6.9	6.7 6.7 6.8 6.7	6.8 6.8 6.8 6.8	6.9 6.8 6.8 6.8	6.8 6.8 6.7 6.7	6.8 6.8 6.8 6.7
21 22 23 24 25	7.1 7.0 7.1 7.0 6.9	6.9 6.9 6.9 6.9	7.0 6.9 6.9 6.9	7.1 7.1 6.9 7.0 7.0	6.9 6.8 6.8 6.8	6.9 6.9 6.9 6.9	6.9 6.9 6.9 6.9	6.7 6.8 6.7 6.7	6.8 6.8 6.8 6.8	6.7 6.7 6.7 6.8 6.8	6.7 6.7 6.7 6.7	6.7 6.7 6.7 6.7
26 27 28 29 30 31	6.9 6.8 6.8	6.8 6.8 6.7 6.7	6.9 6.8 6.8 6.8	7.0 7.0 7.0 7.0 7.0 7.1	6.8 6.9 6.9 6.9	6.9 6.9 6.9 6.9	6.9 6.8 6.7 6.7 6.7	6.7 6.7 6.6 6.6 6.6	6.8 6.7 6.7 6.7	6.8 6.8 6.9 6.8	6.7 6.7 6.7 6.7	6.7 6.8 6.8 6.8
MONTH	7.3	6.7	6.9	7.2	6.7	7.0	7.0	6.6	6.8	6.9	6.6	6.8
YEAR	7.7	6.5	7.0									

01465835 SOUTH BRANCH RANCOCAS CREEK AT RETREAT, NJ

LOCATION.--Lat 39°55'23", long 74°43'05", Burlington County, Hydrologic Unit 02040202, at bridge on light-duty road in Retreat, 40 ft (12.2 m) upstream of Friendship Creek, 1.2 mi (1.9 km) southwest of Buddtown, and 1.8 mi (2.9 km) northeast of Beaverville.

DRAINAGE AREA . - - 44.4 mi2 (115.0 km2).

WATER-QUALITY RECORDS

PERIOD OF RECORD. -- Water years 1975 to current year.

WATER QUALITY DATA, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

						- 1				
DATE	TIME	STREAM- FLOW, INSTAN- TANEOUS (CFS)	SPE- CIFIC CON- DUCT- ANCE (MICRO- MHOS)	PH FIELD (UNITS)	TEMPER- ATURE, WATER (DEG C)	OXYGEN, DIS- SOLVED (MG/L)	OXYGEN DEMAND, BIOCHEM UNINHIB 5 DAY (MG/L)	COLI- FORM, FECAL, EC BROTH (MPN)	STREP- TOCOCCI FECAL (MPN)	HARD- NESS (MG/L AS CACO3)
OCT O2 FEB	0930	105	64	4.4	18.5	5.8	1.3	79	790	12
07 APR	1030	41	69	4.4	1.5	14.7	1.3	4	6	10
17	1000	18	57	4.4	10.0	11.2		13	<2	7
JUN 03 JUL	1030	32	59	4.5	24.0	6.7	1.4	350	49	8
16 AUG	1045	10	58	4.6	26.5	8.4	1.9	230	340	20
19	1030	14	58	4.9	23.0	6.6	2.2	130	490	9
SEP 25	1000		72	4.6	19.5	7.2	2.3			12
DATE	CALCIUM DIS- SOLVED (MG/L AS CA)	MAGNE- SIUM, DIS- SOLVED (MG/L AS MG)	SODIUM, DIS- SOLVED (MG/L AS NA)	POTAS- SIUM, DIS- SOLVED (MG/L AS K)	BICAR- BONATE (MG/L AS HCO3)	CAR- BONATE (MG/L AS CO3)	ALKA- LINITY (MG/L AS CACO3)	SULFIDE TOTAL (MG/L AS S)	SULFATE DIS- SOLVED (MG/L AS SO4)	CHLO- RIDE, DIS- SOLVED (MG/L AS CL)
OCT 02	2.7	1.2	2.8	1.4	0	0	0	.0	9.0	4.9
FEB 07	2.5	1.0	3.0	.9	0	0	0		13	5.2
APR 17	1.4	.8	2.3	1.0	0	0	0		11	4.2
JUN 03	2.0	.8	3.1	.9	0	0	0		11	5.2
JUL 16	6.0	1.3	4.5	1.8	1	0	1		12	6.4
AUG 19	2.1	1.0	3.3	1.4	1	0	1		12	5.2
SEP 25	2.7	1.2	3.7	1.8	1	0	1		14	6.1
23	2.1	1.2	3.1	1.0						•••
DATE	FLUO- RIDE, DIS- SOLVED (MG/L AS F)	SILICA, DIS- SOLVED (MG/L AS SIO2)	SOLIDS, RESIDUE AT 180 DEG. C DIS- SOLVED (MG/L)	NITRO- GEN, NO2+NO3 TOTAL (MG/L AS N)	NITRO- GEN, AMMONIA TOTAL (MG/L AS N)	NITRO- GEN, ORGANIC TOTAL (MG/L AS N)	NITRO- GEN, AM- MONIA + ORGANIC TOTAL (MG/L AS N)	NITRO- GEN, TOTAL (MG/L AS N)	PHOS- PHORUS, ORTHOPH OSPHATE TOTAL (MG/L AS PO4)	CARBON, ORGANIC TOTAL (MG/L AS C)
OCT 02	.1	6.0	50	<1.0	.200	1.3	1.5	II	.24	15
FEB 07	.1	5.8	44	E.53	.070	.26	.33		<.01	7.9
APR 17	.0	2.5	30	.20	.140	.35	.49	.69	. 17	11
JUN 03	.1	3.5	42	.25	.430	.43	.86	1.1	.38	16
JUL 16	.1	5.3	61	<.05	.110	.66	.77		.37	11
AUG 19	.1	6.8	43	<.05	.200	1.0	1.2		.31	1,1
SEP 25	.1	5.8	42	<.05	.110	.51	.62		.28	6.2

DELAWARE RIVER BASIN

01465835 SOUTH BRANCH RANCOCAS CREEK AT RETREAT, NJ--Continued WATER QUALITY DATA, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

				BERYL-	DODON	as Duting	CHRO-	CORRER
		ALUM- INUM.		LIUM, TOTAL	BORON, TOTAL	CADMIUM	MIUM, TOTAL	COPPER, TOTAL
		DIS-	ARSENIC	RECOV-	RECOV -	RECOV-	RECOV-	RECOV -
		SOLVED	TOTAL	ERABLE	ERABLE	ERABLE	ERABLE	ERABLE
	TIME	(UG/L	(UG/L	(UG/L	(UG/L	(UG/L	(UG/L	(UG/L
DATE		AS AL)	AS AS)	AS BE)	AS B)	AS CD)	AS CR)	AS CU)
OCT		2						
02	0930	350	1	0	60	1	10	3
			MANGA-					
	IRON,	LEAD,	NESE,	MERCURY	NICKEL,		ZINC,	
	TOTAL	TOTAL	TOTAL	TOTAL	TOTAL	SELE-	TOTAL	
	RECOV-	RECOV-	RECOV-	RECOV-	RECOV-	NIUM,	RECOV-	BURNOT C
	ERABLE (UG/L	ERABLE (UG/L	ERABLE (UG/L	ERABLE (UG/L	ERABLE (UG/L	TOTAL (UG/L	ERABLE (UG/L	PHENOLS
DATE	AS FE)	AS PB)	AS MN)	AS HG)	AS NI)	AS SE)	AS ZN)	(UG/L)
DATE	AS FE	AS FB)	AS MA	AS HU)	AS NI)	AS SE	AS ZN)	(00/1)
OCT								
02	1700	7	30	<.5	3	0	30	1

01465850 SOUTH BRANCH RANCOCAS CREEK AT VINCENTOWN, NJ

LOCATION.--Lat 39°56'22", long 74°45'50", Burlington County, Hydrologic Unit 02040202, at bridge on Lumberton-Vincentown Road at Vincentown, 2.9 mi (4.7 km) southeast of Lumberton, and 3.1 mi (5.0 km) upstream from Southwest Branch.

DRAINAGE AREA. -- 53.3 mi2 (138.0 km2).

WATER-QUALITY RECORDS

PERIOD OF RECORD. -- Water years 1925, 1959-62, 1975 to current year.

WATER QUALITY DATA, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

DATE	TIME	STREAM- FLOW, INSTAN- TANEOUS (CFS)	SPE- CIFIC CON- DUCT- ANCE (MICRO- MHOS)	PH FIELD (UNITS)	TEMPER- ATURE, WATER (DEG C)	OXYGEN, DIS- SOLVED (MG/L)	OXYGEN DEMAND, BIOCHEM UNINHIB 5 DAY (MG/L)	COLI- FORM, FECAL, EC BROTH (MPN)	STREP- TOCOCCI FECAL (MPN)	HARD- NESS (MG/L AS CACO3)
FEB	1220	50	75			411.0	2.0	2	250	10
07 APR	1330	53	75	6.3	1.0	14.0	2.0		350	19
17 JUN	1200	23	60	5.7	10.0	8.6		13	25	15
05 JUL	1130	41	75	6.2	20.0	6.8	1.7	330	330	19
16 AUG	0915	14	75	6.6	24.5	6.0	2.0	200	500	9
20 SEP	1015	20	70	6.8	22.5	6.4	2.2	200	7900	18
29	1030	14	88	6.8	17.0		.8	17	94	26
DATE	CALCIUM DIS- SOLVED (MG/L AS CA)	MAGNE- SIUM, DIS- SOLVED (MG/L AS MG)	SODIUM, DIS- SOLVED (MG/L AS NA)	POTAS- SIUM, DIS- SOLVED (MG/L AS K)	BICAR- BONATE (MG/L AS HCO3)	CAR- BONATE (MG/L AS CO3)	ALKA- LINITY (MG/L AS CACO3)	SULFIDE TOTAL (MG/L AS S)	SULFATE DIS- SOLVED (MG/L AS SO4)	CHLO- RIDE, DIS- SOLVED (MG/L AS CL)
FEB 07	5.4	1.3	3.7	1.2	7	0	6		15	6.0
APR 17	3.7	1.3	2.8	1.2	5	0	4		12	5.0
JUN 05	5.5	1.3	4.4	1.4	7	0	6	.3	15	6.0
JUL 16	2.0	1.0	3.1	1.2	10	0	8		11	5.2
AUG										
20 SEP	5.1	1.3	4.3	1.8	10	0	8		14	6.2
29	7.9	1.5	4.6	2.3	11	0	9	.0	16	6.7
DATE	FLUO- RIDE, DIS- SOLVED (MG/L AS F)	SILICA, DIS- SOLVED (MG/L AS SIO2)	SOLIDS, RESIDUE AT 180 DEG. C DIS- SOLVED (MG/L)	NITRO- GEN, NO2+NO3 TOTAL (MG/L AS N)	NITRO- GEN, AMMONIA TOTAL (MG/L AS N)	NITRO- GEN, ORGANIC TOTAL (MG/L AS N)	NITRO- GEN, AM- MONIA + ORGANIC TOTAL (MG/L AS N)	NITRO- GEN, TOTAL (MG/L AS N)	PHOS- PHORUS, ORTHOPH OSPHATE TOTAL (MG/L AS PO4)	CARBON, ORGANIC TOTAL (MG/L AS C)
FEB 07	.1	6.3	56	E. 81	.100	.14	.24		<.01	7.6
APR 17	.1	3.2	47	.40	.160	.66	.82	1.2	.38	10
JUN 05	.1	4.8	66	.49	.220	.78	1.0	1.5		14
JUL									.58	
16 AUG	.1	4.7	50	.56	.130	.87	1.0	1.6	.98	11
20 SEP	.1	7.4	58	.45	.090	.88	.97	1.4	.77	13
29	.1	7.2	60	.40	.310	. 35	.66	1.1	.49	6.0
	DATE	TIME	ALUM- INUM, DIS- SOLVED (UG/L AS AL)	ARSENIC TOTAL (UG/L AS AS)	BERYL- LIUM, TOTAL RECOV- ERABLE (UG/L AS BE)	BORON, TOTAL RECOV- ERABLE (UG/L AS B)	CADMIUM TOTAL RECOV- ERABLE (UG/L AS CD)	CHRO-MIUM, TOTAL RECOV- ERABLE (UG/L AS CR)	COPPER, TOTAL RECOV- ERABLE (UG/L AS CU)	
	JUN 05	1130	210	1	0	90	0	<10	3	
	SEP			1						
	29	1030	30	1	0	80	0	10	2	

DELAWARE RIVER BASIN

01465850 SOUTH BRANCH RANCOCAS CREEK AT VINCENTOWN, NJ--Continued WATER QUALITY DATA, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

			MANCA					
	IRON, TOTAL	LEAD, TOTAL	MANGA- NESE, TOTAL	MERCURY TOTAL	NICKEL, TOTAL	SELE-	ZINC, TOTAL	
	RECOV- ERABLE (UG/L	RECOV- ERABLE (UG/L	RECOV- ERABLE (UG/L	RECOV- ERABLE (UG/L	RECOV- ERABLE (UG/L	NIUM, TOTAL (UG/L	RECOV- ERABLE (UG/L	PHENOLS
DATE	AS FE)	AS PB)	AS MN)	AS HG)	AS NI)	AS SE)	AS ZN)	(UG/L)
JUN								
05	3200	6	30	.3	1	0	30	1
SEP 29	1600	2	30	.2	4	0	20	1

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01465970 NORTH BRANCH RANCOCAS CREEK AT BROWNS MILLS, NJ

LOCATION.--Lat 39°58'04", long 74°34'48", Burlington County, Hydrologic Unit 02040202, at bridge on Lakehurst Road at outflow of Mirror Lake in Browns Mills, 1.5 mi (2.4 km) north of Browns Mills Junction, and 2.0 mi (3.2 km) northwest of outflow of Country Lake.

DRAINAGE AREA .-- 19.5 mi2 (50.5 km2).

WATER-QUALITY RECORDS

PERIOD OF RECORD. -- Water years 1975 to current year.

WATER QUALITY DATA, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

				The last of								
	DATE	TIME	STREAM- FLOW, INSTAN- TANEOUS (CFS)	SPE- CIFIC CON- DUCT- ANCE (MICRO- MHOS)	PH FIELD (UNITS)	TEMPER- ATURE, WATER (DEG C)	OXYGEN, DIS- SOLVED (MG/L)	OXYGEN DEMAND, BIOCHEM UNINHIB 5 DAY (MG/L)	COLI- FORM, FECAL, EC BROTH (MPN)	STREP- TOCOCCI FECAL (MPN)	HARD- NESS (MG/L AS CACO3)	
	OCT 03	1000	57	37	5.5	19.5	8.5	1.4	130	350	8	
	FEB 06	1030	33	49	5.2	4.0	14.5	1.7	<2	2	10	
	APR 09	1045	101	41	5.1	14.0	10.6	1.2	7	79	9	
	MAY 21	1030	53	36	5.3	19.5	6.9	1.9	<20	140	8	
	JUL 01	1045	17	43	5.7	24.0	7.3	2.4	1700	920	9	
	AUG 12	1130	16	53	5.6	27.0	5.8	1.6	20	350	. 13	
	SEP 23	1000	14	47	6.1	22.5	7.1	1.3	<20	270	11	
	DATE	CALCIUM DIS- SOLVED (MG/L AS CA)	MAGNE- SIUM, DIS- SOLVED (MG/L AS MG)	SODIUM, DIS- SOLVED (MG/L AS NA)	POTAS- SIUM, DIS- SOLVED (MG/L AS K)	BICAR- BONATE (MG/L AS HCO3)	CAR- BONATE (MG/L AS CO3)	ALKA- LINITY (MG/L AS CACO3)	SULFIDE TOTAL (MG/L AS S)	SULFATE DIS- SOLVED (MG/L AS SO4)	CHLO- RIDE, DIS- SOLVED (MG/L AS CL)	
	OCT 03	1.7	.8	2.2	.8	4	0	3		5.4	4.1	
	FEB 06	2.2	1.0	2.8	.9	1	0	1		10	4.3	
	APR 09	2.1	1.0	2.2	.8	2	0	2		8.6	3.5	
	MAY 21	1.7	.9	2.8	.7	2	0	2	.0	8.7	4.0	
	JUL 01	2.0	1.0	2.7	.9	2	0	2		6.8	4.4	
	AUG 12	2.7	1.5	3.1	1.1	5	0	4		10	4.8	
	SEP 23	2.3	1.2	3.1	1.1	4	0	3	.0	8.0	5.0	
	23	2.3	1.2	3. 1		7		,		0.0	5.0	
	DATE	FLUO- RIDE, DIS- SOLVED (MG/L AS F)	SILICA, DIS- SOLVED (MG/L AS SIO2)	SOLIDS, RESIDUE AT 180 DEG. C DIS- SOLVED (MG/L)	NITRO- GEN, NO2+NO3 TOTAL (MG/L AS N)	NITRO- GEN, AMMONIA TOTAL (MG/L AS N)	NITRO- GEN, ORGANIC TOTAL (MG/L AS N)	NITRO- GEN, AM- MONIA + ORGANIC TOTAL (MG/L AS N)	NITRO- GEN, TOTAL (MG/L AS N)	PHOS- PHORUS, ORTHOPH OSPHATE TOTAL (MG/L AS PO4)	CARBON, ORGANIC TOTAL (MG/L AS C)	
	OCT 03 FEB	.0	4.6	31	<1.0	.400	.05	. 45		.13	7.6	
	06 APR	.1	4.1	32	.12	.030	.90	.93	1.0	<.01	4.6	
)	09 MAY	.0	1.9	22	.15	.090	.27	.36	.51	.30	8.1	
	21 JUL	.0	2.3	28	.05	.070	.07	.14	.19	.04	8.0	
	01	.1	3.2	40	.10	.160	.20	.36	.46	.07	9.0	
	AUG 12	.1	4.0	44	<.05	.190	.12	.31		.21	8.3	
	SEP 23	.1	4.4	45	.05	.100	.52	.62	.67	.18	6.3	

DELAWARE RIVER BASIN
01465970 NORTH BRANCH RANCOCAS CREEK AT BROWNS MILLS, NJ--Continued
WATER QUALITY DATA, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

DATE	TIME	ALUM- INUM, DIS- SOLVED (UG/L AS AL)	ARSENIC TOTAL (UG/L AS AS)	BERYL- LIUM, TOTAL RECOV- ERABLE (UG/L AS BE)	BORON, TOTAL RECOV- ERABLE (UG/L AS B)	CADMIUM TOTAL RECOV- ERABLE (UG/L AS CD)	CHRO-MIUM, TOTAL RECOV- ERABLE (UG/L AS CR)	COPPER, TOTAL RECOV- ERABLE (UG/L AS CU)
MAY								
21 SEP	1030	120	1	0	10	0	10	4
23	1000	50	1	0	40	0	10	5
DATE	IRON, TOTAL RECOV- ERABLE (UG/L AS FE)	LEAD, TOTAL RECOV- ERABLE (UG/L AS PB)	MANGA- NESE, TOTAL RECOV- ERABLE (UG/L AS MN)	MERCURY TOTAL RECOV- ERABLE (UG/L AS HG)	NICKEL, TOTAL RECOV- ERABLE (UG/L AS NI)	SELE- NIUM, TOTAL (UG/L AS SE)	ZINC, TOTAL RECOV- ERABLE (UG/L AS ZN)	PHENOLS (UG/L)
MAY 21	1700	12	30	.3	0	0	30	2
SEP 23	2800	13	30	.1	2	0	20	1

DELAWARE RIVER BASIN

01466500 McDonalds Branch In Lebanon State Forest, NJ (Hydrologic bench-mark station)

LOCATION.--Lat 39°53'05", long 74°30'20", Burlington County, Hydrologic Unit 02040202, on right bank in Lebanon State Forest, 25 ft (7.6 m) upstream from Butterworth Road Bridge, 3.4 mi (5.5 km) upstream from confluence with Cooper Branch, and 7.0 mi (11.3 km) southeast of Browns Mills.

DRAINAGE AREA .-- 2.31 mi2 (5.98 km2).

WATER-DISCHARGE RECORDS

PERIOD OF RECORD. --October 1953 to current year. Prior to October 1962, published as "McDonald Branch in Lebanon State Forest".

GAGE.--Water-stage recorder and concrete control. Datum of gage is 117.73 ft (35.884 m) National Geodetic Vertical Datum of 1929 (levels from New Jersey Geological Survey bench mark).

REMARKS.--Water-discharge records good except those for winter months, which are fair. Gage-height record is collected above concrete control and discharge record, which includes leakage around control, is at site 785 ft (239 m) downstream.

AVERAGE DISCHARGE. -- 27 years, 2.36 ft3/s (0.067 m3/s), 13.88 in/yr (353 mm/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 35 ft³/s (0.991 m³/s) Aug. 25, 1958, gage height, 2.33 ft (0.710 m); minimum daily, 0.8 ft³/s (0.023 m³/s) July 6, 19, 1967.

EXTREMES FOR CURRENT YEAR.--Peak discharges above base of 7.0 ft3/s (0.198 m3/s) and maximum (*):

Date Time Discharge Gage height (ft³/s) (m³/s) (ft) (m)

Apr. 10 1230 *8.4 0.24 1.59 0.485

Minimum discharge, 1.0 ft3/s (0.028 m3/s) many days in September.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980 MEAN VALUES OCT NOV AUG SEP DAY DEC JUN JUI. JAN FFR MAR APR MAY 4.8 4.5 3.9 3.7 3.4 2.0 1.6 1.5 1.6 1.8 2.0 2.0 1.9 5.7 2.3 2.0 2 2.0 1.9 1.1 1.9 1.9 4.3 1.9 2.0 2.3 2.0 1.8 1.8 1.9 1.9 2.0 2.0 2.0 1.9 1.9 5 1.9 1.8 2.0 2.2 1.9 1.5 1.1 6 1.8 4.2 2.2 1.8 1.5 2.3 1.9 1.9 1.9 2.1 3.3 1.1 2.0 1.9 2.0 3.8 2.1 1.7 1.4 1.7 1.9 2.0 2.0 2.0 2.1 3.6 3.5 2.1 1.6 1.4 1.0 1.9 4.7 3.5 1.4 1.0 10 1.8 2.0 2.2 1.6 2.8 2.0 1.6 1.1 1.8 3.9 2.2 1.4 2.0 2.5 5.9 3.2 1.0 1.6 12 3.0 1.9 3.1 1.9 1.0 3.4 2.0 3.4 1.4 1.0 4.2 3.4 2.0 13 3.1 1.9 2.2 1.6 14 3.3 2.9 3.0 3.2 2.0 1.9 4.1 4.1 1.5 2.0 1.0 2.0 2.0 16 2.5 2.2 2.5 2.3 2.2 3.0 2.9 3.0 2.0 2.0 2.1 4.1 1.1 3.3 1.5 2.1 2.0 2.0 1.6 1.4 17 3.9 2.2 3.0 1.1 2.2 2.0 1.9 2.2 3.2 2.0 1.6 1.2 19 2.1 2.0 2.8 1.9 1.4 2.1 2.2 2.6 2.0 2.0 1.9 2.3 3.4 3.2 3.2 3.0 2.8 1.5 1.4 1.5 1.8 2.0 2.3 22 1.9 1.9 3.3 1.7 1.3 1.1 4.3 23 3.4 1.1 3.4 1.5 2.0 2.1 2.4 1.2 1.0 1.9 2.6 3.6 25 1.9 2.2 2.3 1.2 26 1.9 2.3 2.5 2.2 2.1 5.0 3.3 2.7 1.7 1.4 1.2 1.1 2.4 1.9 2.1 1.4 1.0 27 2.6 2.1 3.9 3.7 2.6 1.2 1.9 2.6 2.1 2.0 2.0 1.0 29 2.4 2.0 2.0 2.3 1.9 1.2 1.0 2.0 4.9 1.8 1.8 2.0 1.9 4.8 2.3 TOTAL. 69.7 64.4 62.7 68.2 59.3 95.9 128.3 97.9 60.1 51.0 41.9 32.2 2.02 2.04 3.16 2.00 1.65 1.35 1.07 2.25 2.15 2.20 3.09 4.28 MEAN 4.8 3.9 3.1 2.5 3.4 2.6 7.6 2.4 2.1 1.6 5.1 MAX MIN 1.9 1.8 1.0 . 87 . 46 CFSM .97 . 93 . 87 . 95 . 88 1.34 1.85 1.37 .71 .58 .67 1.12 1.04 1.01 1.10 .52 IN. .95 1.54 2.07 1.58 .97 .82 CAL YR 1979 TOTAL WTR YR 1980 TOTAL 1252.9 MEAN 3.43 MEAN 2.27 MIN 1.8 CFSM 1.49 IN 20.17 MAX 14 831.6 MAX 7.6 MIN 1.0 CFSM .98 IN 13.39

01466500 MCDONALDS BRANCH IN LEBANON STATE FOREST, NJ--Continued WATER-QUALITY RECORDS

PERIOD OF RECORD. -- Water years 1963 to current year.

PERIOD OF DAILY RECORD.--SPECIFIC CONDUCTANCE: October 1968 to current year. WATER TEMPERATURES: October 1960 to current year.

INSTRUMENTATION. -- Temperature recorder since October 1960, water-quality monitor since October 1968.

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

EXTREMES FOR PERIOD OF DAILY RECORDS.-SPECIFIC CONDUCTANCE: Maximum, 182 micromhos June 16, 1969; minimum, 19 micromhos Aug. 25, 1979.
WATER TEMEPRATURES: Maximum, 22.0°C Aug. 1, 1970; minimum, 0.0°C on many days during winter months.

EXTREMES FOR CURRENT YEAR.-SPECIFIC CONDUCTANCE: Maximum, 64 micromhos Jan. 13; minimum recorded, 23 micromhos Oct. 3.
WATER TEMPERATURES: Maximum recorded, 17.0°C July 30, 31; minimum, 1.0°C Mar. 14, 15, 16.

WATER QUALITY DATA, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

DATE	TIME TA	TREAM- C FLOW, D NSTAN- A		PH A	TURE,	DXYGEN, DIS- SOLVED (MG/L)	OXYGEN DEMAND, BIOCHEM UNINHIB 5 DAY (MG/L)	COLI- FORM, TOTAL, IMMED. (COLS. PER 100 ML)	COLI- FORM, FECAL, 0.7 UM-MF (COLS./ 100 ML)	
NO V 28 JA N	1400	2.6	48	4.0	10.0	3.2	. 4		-	57
	1300	2.3	53	4.0	3.5	5.1	1.0	110	<1	K26
	1145	3.3	52	4.1	4.0	7.7	.2		<1	
28	1330	2.4	37	4.3	13.0	3.0	.1	210	<2	55
	1130	1.4	28	4.6	15.0	2.2	.7	K40	K 1	60
SEP 17	1100	1.1	25	4.5	14.0		.8	72	К8	200
DATE	HARD- NESS (MG/L AS CACO3)	CALCIUM DIS- SOLVED (MG/L AS CA)	DIS- SOLVED (MG/L	SODIUM, DIS- SOLVED (MG/L AS NA)	DIS- SOLVE (MG/L	LINIT D (MG/ AS	Y DIS L SOL (MG	ATE RII - DIS VED SOI /L (MC	DE, RI S- D LVED SO G/L (M	UO- DE, IS- LVED G/L F)
NO V 28		3 .5		1.6		2	0	4.8	2.5	0
JAN						3			3.5	.0
24 MAR	3	.6	. 4	1.8		6	0	6.3	2.8	.0
28 MA Y	17	2.7	2.4	1.5		5	0 1	1	2.5	. 0
28 JUL	2	. 4	.3	1.6		1	0	3.6	3.2	.0
22 SEP	2	.3	• 3	1.7		2	2	2.0	3.1	.0
17	1	.9	. 4	2.0		4	4	3.4	2.8	.0
DATE	SILICA, DIS- SOLVEI (MG/L AS SIO2)	AT 180	SUS- PENDED	SEDI- MENT DIS- CHARGE, SUS- PENDED (T/DAY)		NO2+1 3 DI3 SOL1 (MG/	N, NO3 PHO S- PHOR VED TOT 'L (MG	US, OSPH AL DISS /L (MC	RUS, HOPH CAR HATE ORG BOL. TO G/L (M	BON, ANIC TAL G/L C)
NO V 28	3.3	3 21	1	.01	.0	1 .	.01 .	000	.000	,02
JAN 24	3.2		1	.01					.010	5.0
MAR 28	2.			.01			.03		.040	5.9
MAY 28	2.3	3 19	1	.01	.0	1	.01 .	000	.000	5.3
JUL 22	4.	1 25	1	.00	.0	1	.01 .	010	.000	3.7
SEP										

01466500 MCDONALDS BRANCH IN LEBANON STATE FOREST, NJ--Continued WATER QUALITY DATA, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

DATE	TIME (SENIC OTAL UG/L S AS)	ARSENIC SUS- PENDED TOTAL (UG/L AS AS)	ARSEN DIS SOLVI (UG/I	IC TO - RE ED EF L (U	ECOV -	ARIUM, DIS- OLVED (UG/L AS BA)	DIS SOI (UC	UM, T S- F LVED E G/L (DMIUM OTAL ECOV- RABLE UG/L S CD)	CADMIU SUS- PENDE RECOV ERABL (UG/L AS CD	D CAI	OMIUM SOIS- IOLVED I	IIUM, FOTAL RECOV- ERABLE (UG/L	CHRO- MIUM, SUS- PENDED RECOV. (UG/L AS CR)
NO V 28	1400	1	0		1	20	20		<1	<1	-	_	<1	10	10
MAY 28	1330	1	0		1	<50	10		<1	2		0	2	<10	
DATE	CHRO- MIUM, DIS- SOLVED (UG/L AS CR)	(UG/	REC D ERA L (UG	AL CO OV- I BLE	OPPER, DIS- SOLVED (UG/L AS CU)	IRON, TOTAL RECOV ERABL (UG/L AS FE	PEN REC E ERA (UG	S- DED OV- BLE /L	IRON, DIS- SOLVEI (UG/L AS FE)	(UG/	L L V- LE S L (EAD, DIS- OLVED UG/L S PB)	LITHIUN DIS- SOLVEI (UG/L AS LI	RECOV ERABL (UG/L	Ē
NO V 28	. 0		5	3	3	24	0		180		4	<10	<1	2	0
MAY 28	. 2		<3	2	<10	21	10	60	180	1	0	<10	<1	1 1	0
DATE	MANGA- NESE, SUS- PENDED RECOV. (UG/L AS MN)	MANG NESE DIS SOLV (UG/	, TOT - REC ED ERA L (UG	URY AL OV- BLE	ERCURY SUS- PENDED RECOV- ERABLE (UG/L AS HG)	MERCUR DIS- SOLVE (UG/L AS HG	DI D SOL (UG	UM, S- VED /L	SELE- NIUM, TOTAL (UG/L AS SE)	SELE NIUM SUS PEND TOTA (UG/ AS S	ED L SL (ELE- IUM, DIS- OLVED UG/L S SE)	SILVER, TOTAL RECOV- ERABLI (UG/L AS AG)	PENDE RECOV E ERABL (UG/L	D E
NO V 28			14	. 1	.0		1	<10	(0	0)	0
MAY 28	. 1		9	.1		<.	1	<10	()	0	0)	0
DATE	SILVER, DIS- SOLVED (UG/L AS AG)	DIS SOLV (UG/	M, DIU - DI ED SOL L (UG	M, S- VED /L	ZINC, TOTAL RECOV- ERABLE (UG/L AS ZN)	ZINC, DIS- SOLVE (UG/L AS ZN	D (UG AS	HA, S- VED /L	GROSS ALPHA, SUSP. TOTAL (UG/L AS U-NAT)	DIS SOLV (PCI/	A, A ED T L (P	ROSS LPHA, USP. OTAL CI/L AS -NAT)	GROSS BETA, DIS- SOLVEI (PCI/L AS CS-137)	(PCI/L AS	
NO V		0	,	.,			, 0-11	,	0-11117	0 - 111	., .			05-151	
28 MAY	. 0)	6 <	6.0	20	1	2	2.0	<.5	1	. 4	<.3	2.	٠.	5
28	. 0		5 <	6.0	20	<	.4						-	-	
DATE	GROSS BETA, DIS- SOLVED (PCI/L AS SR/ YT-90)	(PCI AS S	, 22 . DI L SOLV /L RAD R/ MET	ED, SON E	RANIUM DIS- OLVED, XTRAC- TION (UG/L)	CYANII TOTAL (MG/L AS CN	PC TOT	AL	PCB, TOTAL IN BOT- TOM MA- TERIAL (UG/KG)	CHLC	S, Y- R. AL	DRIN, OTAL UG/L)	ALDRIN, TOTAL IN BOT- TOM MA- TERIAL (UG/KG)	CHLOR DANE, TOTAL	
NO V 28	2.1	<	.6	. 18	. 15	. 0	00	.00	5		.0	.00	. (0
MAY 28						.0	00						_		- "
DATE	CHLOR-DANE, TOTAL IN BOT- TOM MA- TERIAL (UG/KG)	DDD.	TOT IN E TOM L TER	MA- IAL	DDE, TOTAL (UG/L)	DDE, TOTAL IN BOT TOM MA TERIA (UG/KO	DD L TOT	AL	DDT, TOTAL IN BOT- TOM MA- TERIAL (UG/KG)	AZINO TOTA	N, E	DI- LDRIN OTAL UG/L)	DI- ELDRIN TOTAL IN BOT- TOM MA- TERIAL (UG/KG	ENDO- SULFAN TOTAL	,
NOV 28 MAY				?5	.00	5.		.00	5.8		00	.00	1.	3 .0	0
28							-						-	-	-

DELAWARE RIVER BASIN

01466500 MCDONALDS BRANCH IN LEBANON STATE FOREST, NJ--Continued WATER QUALITY DATA, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

DATE	ENDRIN, TOTAL (UG/L)	ENDRIN, TOTAL IN BOT- TOM MA- TERIAL (UG/KG)	ETHION, TOTAL (UG/L)	HEPTA - CHLOR, TOTAL (UG/L)	HEPTA- CHLOR, TOTAL IN BOT- TOM MA- TERIAL (UG/KG)	HEPTA- CHLOR EPOXIDE TOT. IN BOTTOM MATL. (UG/KG)	LINDANE TOTAL (UG/L)	LINDANE TOTAL IN BOT- TOM MA- TERIAL (UG/KG)	MALA- THION, TOTAL (UG/L)	METH- OXY- CHLOR, TOTAL (UG/L)	METH- OXY- CHLOR, TOT. IN BOTTOM MATL. (UG/KG)
NOV											
28 MAY	.00	.0	.00	.00	.0	.0	.00	.0	.00	.00	.0
28	1,22	44									
DATE	METHYL PARA- THION, TOTAL (UG/L)	METHYL TRI- THION, TOTAL (UG/L)	MIREX, TOTAL (UG/L)	PARA- THION, TOTAL (UG/L)	PER- THANE TOTAL (UG/L)	TOX- APHENE, TOTAL (UG/L)	TO XA - PHENE, TOTAL IN BOT- TOM MA- TERIAL (UG/KG)	TOTAL TRI- THION (UG/L)	2,4-D, TOTAL (UG/L)	2,4,5-T TOTAL (UG/L)	SILVEX, TOTAL (UG/L)
NO V 28 MA Y	.00	.00	.00	.00	.00	0	0	.00	.00	.00	.00
28											

01466500 MCDONALDS BRANCH IN LEBANON STATE FOREST, NJ--Continued
TEMPERATURE, WATER (DEG. C), WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

DAY MAX				TEMPERATURE,	WATER	(DEG. C	, WATER	YEAR OCTOBER	1979 TO	SEPTEMBER	1980		
1	DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX		
2 14.5 14.0 14.0 16.5 9.5 10.0 7.5 7.0 7.0 7.0 6.0 6.0 6.0 6.0 3 14.5 14.0 14.0 14.0 10.0 10.0 16.5 16.5 7.0 6.5 7.0 6.5 5.5 5.5 5.5 5.5 5.5 5.5 14.5 14.0 14.0 14.0 19.5 9.0 19.0 7.0 6.5 7.0 6.5 7.0 6.5 5.5 5.5 5.5 5.5 5.5 5.5 14.5 14.5 14.			OCTOBER			NO VEMBE	R		DECEMBE	R		JAN UAR	Y
8 13.0 12.5 12.5 12.5 9.0 8.5 9.0 7.5 7.0 7.5 5.5 5.5 5.5 5.5 10 12.5 9.0 12.5 9.0 12.5 9.5 9.0 9.5 9.0 7.0 7.0 7.5 7.0 7.5 5.5 5.5 5.5 5.5 10 12.5 9.5 12.5 9.5 9.5 9.5 9.5 9.5 9.5 9.5 9.5 9.5 9	2 3 4	14.5 14.5 14.5	14.0 14.0 14.0	14.0 14.5 14.0	10.5 10.5 10.0	9.5 10.0 9.5	10.0 10.5 9.5	7.5 7.0 7.0	7.0 6.5 6.5	7.0 7.0 7.0	6.0 6.0 5.5	6.0 5.5 5.5	6.0
12 9.5 8.5 9.0 10.0 9.5 9.5 8.0 7.0 7.5 5.5 5.5 14.0 4.5 11.1 9.0 9.5 9.5 9.5 8.0 7.0 7.5 8.0 3.0 3.0 3.0 11.1 9.0 9.5 9.5 9.5 9.5 8.0 7.0 7.0 8.5 3.5 3.0 3.0 3.5 11.1 9.0 9.5 9.5 9.5 9.5 8.0 7.0 8.5 8.0 7.0 8.5 3.5 3.0 3.0 3.5 3.0 3.5 3.0 3.5 3.0 3.5 3.0 3.5 3.0 3.5 3.0 3.5 3.0 3.0 3.5 3.0 3.5 3.0 3.5 3.0 3.0 3.5 3.0 3.0 3.5 3.0 3.0 3.5 3.0 3.0 3.5 3.0 3.0 3.5 3.0 3.0 3.5 3.0 3.0 3.5 3.0 3.0 3.5 3.0 3.0 3.5 3.0 3.0 3.5 3.0 3.0 3.5 3.0 3.0 3.5 3.0 3.0 3.5 3.0 3.0 3.5 3.0 3.0 3.0 3.0 3.0 3.0 3.0 3.0 3.0 3.0	7 8 9	13.5 13.0 12.5	13.0 12.5 12.5	13.5 12.5 12.5	9.5 9.0 9.5	9.0 8.5 9.0	9.0 9.0 9.5	7.5 7.5 7.0	7.0 7.0 7.0	7.5 7.5 7.0	5.5 5.5 5.5	5.0 5.5 5.5	5.5 5.5 5.5 5.5
17 9.5 9.0 9.5 8.0 7.5 8.0 6.5 5.5 6.0 5.0 4.5 5.0 5.0 19 11.0 10.5 9.5 10.0 8.5 8.0 8.0 8.0 6.0 5.5 5.5 5.5 5.0 5.0 5.0 19 11.0 10.0 10.5 8.5 8.0 8.0 8.0 6.0 5.5 5.5 5.5 5.0 5.0 5.0 5.0 19 11.0 10.0 10.5 8.5 8.0 8.5 8.5 5.5 5.5 5.5 5.5 5.0 5.0 5.3 19 11.0 10.0 10.5 8.5 8.0 8.5 8.5 5.5 5.5 5.5 5.5 5.5 5.0 5.0 5.3 19 11.0 11.5 11.5 11.5 9.0 8.5 8.5 8.5 5.5 5.5 5.5 5.5 5.5 5.0 5.0 5.3 19 11.0 11.5 11.5 11.5 11.0 10.5 11.0 10.5 10.5	12 13 14	9.5 10.0 9.5	8.5 9.5 9.0	9.0 10.0 9.0	10.0 9.5 9.5	9.5 9.5 8.5	9.5 9.5 9.0	8.0 8.0 8.0	7.0 7.5 7.0	7.5 8.0 7.5	5.5 3.5 4.0	4.0 3.0 3.0	4.5 3.0
25 12.0 11.5 11.5 11.0 10.5 11.0 6.5 6.0 6.5 4.0 3.5 3.5 26 11.5 10.5 11.0 12.0 6.5 6.0 6.5 4.0 3.5 3.5 3.5 28 10.0 10.0 10.0 11.0 11.0 12.0 6.5 6.0 6.0 6.0 4.0 3.5 3.5 3.5 28 10.0 10.0 10.0 11.0 11.0 11.0 6.0 6.0 6.0 6.0 6.0 3.5 3.5 3.5 28 10.0 10.0 9.5 10.0 10.0 11.0 10.0 11.0 6.0 6.0 6.0 6.0 4.0 4.0 4.0 4.0 3.0 30 10.0 9.5 9.5 9.5 9.0 8.0 8.5 6.5 6.0 6.0 6.0 6.0 4.0 4.0 4.0 4.0 31 9.5 9.0 9.5 9.5 9.0 8.0 8.5 6.5 6.0 6.0 6.5 4.0 4.0 4.0 4.0 31 9.5 9.0 9.5 9.5 9.0 9.5 9.5 9.5 9.5 8.0 5.0 6.5 6.0 6.0 4.0 4.0 4.0 4.0 4.0 4.0 4.0 4.0 4.0 4	17 18 19	9.5 10.5 11.0	9.0 9.5 10.0	9.5 10.0 10.5	8.0 8.5 8.5	7.5 8.0 8.0	8.0 8.0 8.5	6.5 6.0 5.5	5.5 5.5 5.0	6.0 5.5 5.5	5.0 5.5 5.5	4.5 5.0 5.0	5.0 5.0 5.5
29 10.0 9.5 10.0 10.5 9.5 9.5 10.0 6.0 6.0 6.0 6.0 4.0 4.0 4.0 3.1 9.5 9.0 9.5 9.0 9.5 9.0 8.0 8.5 6.5 6.0 6.5 6.0 6.5 4.0 4.0 4.0 4.0 4.0 MONTH 14.5 8.5 11.5 12.0 7.5 9.5 8.0 5.0 6.5 6.0 6.5 4.0 4.0 4.0 4.0 4.0 MONTH 14.5 8.5 11.5 12.0 7.5 9.5 8.0 5.0 6.5 6.0 6.5 6.0 3.0 5.0 MONTH 14.5 8.5 11.5 12.0 7.5 9.5 8.0 5.0 6.5 6.0 6.5 6.0 3.0 5.0 MONTH 14.5 8.5 11.5 12.0 7.5 9.5 8.0 5.0 6.5 6.0 6.5 6.0 3.0 5.0 MONTH 14.5 8.5 11.5 12.0 7.5 9.5 8.0 5.0 6.5 6.0 6.5 6.0 3.0 5.0 MONTH 14.5 8.5 11.5 12.0 10.0 10.0 10.0 12.0 12.0 12.0 12.0	22 23 24	12.5 13.0 13.0	12.0 12.5 12.0	12.0 12.5 12.5	9.5 10.0 10.5	9.0 9.5 10.0	9.0 9.5 10.5	6.0 6.0 6.0	5.5 6.0 6.0	6.0 6.0	4.5 4.5 4.0	4.5 4.5 3.5	4.5 4.5 4.0 3.5
DAY MAX MIN MEAN	27 28 29 30	10.5 10.0 10.0 10.0	10.0 10.0 9.5 9.5	10.0 10.0 10.0 9.5	11.5 11.0 10.5 9.0	11.0 10.0 9.5 8.0	11.5 11.0 10.0 8.5	6.0 6.0 6.5	6.0 5.5 6.0 6.0	6.0 6.0 6.5	3.5 4.0 4.0 4.0	4.0 4.0 4.0	4.0
FEBRUARY MARCH APRIL MAY 1	MONTH	14.5	8.5	11.5	12.0	7.5	9.5	8.0	5.0	6.5	6.0	3.0	5.0
Tebruary	DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
2									APRIL			MAY	
7 5.0 4.5 4.5 6.0 5.0 5.5 8.5 8.5 7.5 8.0 14.0 13.5 13.5 8.5 5.0 4.5 4.5 6.0 5.5 6.0 10.5 9.0 9.5 12.5 11.5 12.0 10 5.0 4.5 4.5 5.0 5.5 5.0 5.5 12.0 10.5 11.0 12.0 11.0 11.5 11.5 12.0 10 5.0 4.5 5.0 4.5 5.0 3.5 4.5 11.5 11.5 10.0 11.0 12.5 12.0 11.5 11.5 12.0 11.5 11.5 12.0 11.5 11.5 12.0 11.5 11.5 12.0 11.5 11.5 12.0 11.5 11.5 12.0 11.5 11.5 12.0 11.5 11.5 12.0 11.5 11.5 12.0 11.5 11.5 12.0 12.5 12.5 12.5 12.5 12.5 12.5 12.5 12.5	3	4.0 4.5 4.5	4.0 4.0 4.0 4.0	4.0 4.0 4.0 4.0	4.5 5.0 5.0	4.0 4.0 4.0	4.0 4.5 4.5	6.0 6.5 8.0	4.5 5.5 6.5	5.5 6.0 7.5	11.5 12.0 12.5	10.0 10.5 11.5	11.0 11.0 12.0
15 5.0 5.0 1.5 1.0 1.0 12.0 11.5 11.5 14.0 13.0 13.5 16 5.5 4.5 5.0 2.0 1.0 1.5 11.0 9.0 10.5 13.5 12.5 13.0 17 5.0 4.5 4.5 3.5 2.0 2.5 9.0 8.0 8.5 13.5 12.5 13.0 18 5.0 4.5 4.0 3.5 3.5 8.5 7.5 8.0 13.0	7 8 9	5.0 5.0 5.0	4.5 4.5 4.5	4.5 4.5 4.5	6.0 6.0	5.0 5.5 5.5	5.5 6.0 6.0	8.5 9.5 10.5	7.5 8.0 9.0	8.0 8.5 9.5	14.0 13.5 12.5	13.5 12.5 11.5	13.5
18 5.0 4.5 4.6 3.5 3.5 8.5 7.5 8.0 13.0 13.0 13.0 13.5 13.0 13.5 13.0 13.5 13.0 13.5 13.0 13.5 13.0 13.5 13.0 13.5 13.0 13.5 13.0 13.5 13.0 13.5 13.0 13.5 13.0 13.5 13.0 13.5 13.0 13.5 13.0 13.5 13.5 14.0 14.0 13.5 14.0 13.5 14.0 14.0 13.5 14.0 14.0 13.5 14.0 14.0 14.0 14.0 14.0 14.0 14.0 14.0 14.5<	12 13 14	5.0 5.0	4.5 4.5 4.5	5.0 5.0 5.0	4.0 3.5 2.5	3.5 2.5 1.0	3.5 3.5 1.5	11.5 12.0 11.5	10.0 11.5 11.0	11.0 11.5 11.0	12.5 14.0 15.0	12.0 13.0 14.0	11.5 12.5 13.5 14.0 13.5
22 5.5 5.0 5.0 5.5 4.5 3.0 4.0 10.5 9.5 10.0 14.0 13.5 14.0 14.0 23 10.0 9.0 9.5 14.5 14.0 14.0 14.5 14.5 4.0 4.5 4.0 4.0 3.5 4.0 11.5 10.5 11.0 15.5 14.5 15.0 16.5 4.0 3.5 4.0 11.5 10.5 11.0 15.5 14.5 15.0 16.5 16.5 16.5 16.5 16.5 16.5 16.5 16.5	17 18 19	5.0 5.0 5.5	4.5	4.5 4.5 5.0	3.5 4.0 4.0	2.0 3.5 3.0	3.5	9.0 8.5 9.0	8.0 7.5 8.0	8.0 9.0	13.0	13.0	13.0
	22 23 24	5.5 5.0 4.5	5.0 4.5 4.0	5.5 5.0 4.5	4.5 3.5 4.0	3.0 2.5 3.0	4.0 3.0 3.5	10.5 10.0 10.5	9.5	10.0 9.5 10.0	14.0 14.5 15.0	13.5 14.0 14.5	14.0
	27 28 29 30	4.0 4.5 4.5	3.5 4.0 4.0	4.0 4.0 4.0	4.5 5.0 6.0	4.0 4.0 5.0	4.5 5.5 6.0	10.5 10.5 10.5	10.5 10.0 10.0	10.5 10.5 10.0	14.5 14.0 14.0 13.5	13.5 13.0 13.0 13.0	14.5 14.0 13.5 13.5 13.5
								12.0	4.5				

DELAWARE RIVER BASIN 163

01466500 MCDONALDS BRANCH IN LEBANON STATE FOREST, NJ--Continued
TEMPERATURE, WATER (DEG. C), WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

			TENTERRIORE	MAILI	(DEG.	c), WAILE	TEAR OCTOBER	1919 1	ODLITERIDER	1300		
DA Y	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		JUNE			JULY	(AUGUST			SEPTEMB	ER
1	14.5	13.5	14.0	15.5	15.0	15.5	16.5	16.0	16.0			
2	15.0	14.0	14.5	15.5	15.0	15.5	16.5	15.5	16.0			
2 3 4	15.5	14.5	15.0	15.5	15.0	15.5	16.5	15.5	16.0			
	15.5	15.0	15.0	16.0	15.5	15.5	16.5	16.0	16.0			
5	15.5	14.5	14.5	16.0	15.5	15.5	16.5	15.5	16.0			
6	15.0	14.0	14.0	16.0	15.0	15.5	16.5	15.5	16.0			
7	15.0	14.0	14.5	15.5	15.0	15.0	16.0	15.5	15.5			
8	15.5	14.5	14.5	15.0	14.5	15.0	16.5	15.0	15.5			
9	15.0	14.0	14.0	15.5	14.5	15.0	16.0	15.5	15.5			
10	14.0	13.5	14.0	15.0	14.5	14.5	16.0	15.0	15.5			
11	14.0	13.0	13.5	15.5	14.5	15.0	16.0	15.0	15.5			
12	13.5	12.5	13.0	15.5	14.5	15.0	16.0	15.0	15.5			
13	13.5	12.5	13.0	15.0	14.0	14.5	15.5	15.0	15.0			
14	13.5	12.5	13.0	15.0	14.0	14.5	15.5	14.5	15.0			
15	13.5	13.0	13.0	15.0	14.0	14.5	15.0	14.5	15.0			
16	13.5	13.5	13.5	15.5	14.5	14.5	15.5	14.5	14.5			
17	14.0	13.0	13.5	15.0	14.5	15.0	15.0	14.0	14.5	14.0	14.0	14.0
18	13.5	13.0	13.5	15.5	14.5	15.0	14.5	14.0	14.0	14.5	13.5	14.0
19	13.5	13.0	13.0	15.0	14.5	15.0	14.5	14.0	14.0	14.5	13.0	13.5
20	13.5	13.0	13.5	15.5	14.5	15.0				14.5	13.0	13.5
21	14.0	13.0	13.5	15.5	15.0	15.0				14.5	13.5	14.0
22	14.0	13.5	13.5	16.0	15.0	15.5				15.0	14.0	14.0
23	14.0	13.0	13.5	15.5	15.0	15.0				15.0	12.5	14.0
24	14.0	13.5	14.0	15.5	15.0	15.0				14.5	13.5	14.0
25	14.5	13.5	14.0	15.5	14.5	15.0				14.0	13.5	13.5
26	14.0	14.0	14.0	15.0	14.5	14.5				14.5	13.0	14.0
27	14.5	14.0	14.0	15.5	14.5	14.5				13.5	12.0	13.0
28	15.0	14.0	14.5	15.5	14.5	14.5				13.5	12.0	12.5
29	15.0	14.0	14.5	16.5	14.5	15.5	,			13.5	12.5	13.0
30	15.5	15.0	15.5	17.0	16.0	16.5				13.5	12.5	13.0
31				17.0	16.0	16.5						
MONTH	15.5	12.5	14.0	17.0	14.0	15.0	16.5	14.0	15.5	15.0	12.0	13.5
YEAR	17.0	1.0	10.0									

SPECIFIC CONDUCTANCE (MICROMHOS/CM AT 25 DEG. C), WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

DA Y	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		OCTOBE	:R		NOVEMBE	R		DECEMBE	ER		JANUAF	Y
1 2 3 4 5	25 25 25 26 30	25 24 23 25 25	25 25 24 25 26	30 29 35 35 34	29 28 29 33 33	30 29 32 34 34	48 48 46 46 45	47 44 43 43	48 46 45 45 44	48 48 47 46 46	47 47 46 44 43	48 47 47 45 44
6 7 8 9	31 30 29 27 40	30 28 28 26 27	31 29 28 27 33	33 33 33 32 33	32 32 32 31 31	33 32 32 32 32	45 47 47 46 46	43 44 44 44	44 46 46 46 45	46 45 46 45 45	43 43 43 43	44 44 45 44 44
11 12 13 14 15	39 36 37 37 36	36 34 35 36 35	37 35 36 36 36	45 48 48 47 45	33 44 44 44 43	37 47 46 46 44	46 45 49 49	43 43 44 48 44	45 45 46 48 47	56 62 64 63 61	43 58 60 59 59	46 60 62 61 60
16 17 18 19 20	36 35 34 34 34	34 34 34 32 33	35 34 34 34 33	44 43 42 42 42	43 40 41 41 40	44 42 41 42 41	47 48 47 46 45	44 44 44 43	47 47 46 45 44	59 57 55 58 57	57 53 53 54 53	58 54 54 57 55
21 22 23 24 25	33 33 32 31 31	32 31 31 30 28	33 32 32 31 30	41 42 41 42 41	40 40 38 39 39	40 41 40 40	46 46 48 49 55	43 43 45 48 49	45 44 46 49 53	57 54 57 54 51	53 53 52 50 49	54 53 55 52 51
26 27 28 29 30 31	30 30 30 30 30	30 30 29 29 29 29	30 30 29 29 29	54 54 52 50	38 50 52 49 48	47 53 53 50 49	56 55 54 52 51 50	54 53 52 50 49 48	55 54 52 51 50 49	50 48 48 49 47 46	49 47 46 45 45	49 48 47 46 46
MONTH	40	23	31	54	28	40	56	43	47	64	43	51

DELAWARE RIVER BASIN

01466500 MCDONALDS BRANCH IN LEBANON STATE FOREST, NJ--Continued

SPECIFIC CONDUCTANCE (MICROMHOS/CM AT 25 DEG. C), WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

	-	PECTE IC	CONDUCTANCE	(MICKOMIN	JS/CM AI	25 DEG.	C), WAIER	IEAR OCTO	DER 1919	TO SEFTEMBER	1900	
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		FEBRUAR			MARCH			APRIL			MAY	
1 2 3 4 5	46 44 44 43 42	44 43 40 39 39	45 44 43 41 40	42 40 40 39 38	38 38 38 37 35	40 38 39 38 38	56 56 53 53	53 52 52 51 51	55 54 53 52 52	52 51 50 48 48	48 47 48 47 46	51 49 49 48 47
6 7 8 9	42 41 40 40	39 39 39 39 39	39 40 40 40 40	39 39 41 44 46	38 38 38 41 42	38 39 39 43 43	52 51 50 56 57	50 49 47 47 53	51 50 49 51 56	47 46 46 46 46	45 43 45 43 43	46 45 46 46 45
11 12 13 14 15	40 39 39 38 38	39 37 35 35 35	40 38 38 37 36	54 54 56 62 62	48 48 48 54 57	51 49 49 59	56 54 51 51 51	53 51 50 49 47	55 52 51 50 50	46 45 45 46 44	43 44 44 43 42	44 45 45 44 43
16 17 18 19 20	40 41 40 41 39	35 38 38 38 38	38 39 39 39 39	58 54 55 53 52	53 52 52 48 47	55 53 53 51 48	52 50 49 50 48	46 46 47 46 46	49 48 48 48	43 42 43 42 42	42 41 41 41 41	42 42 42 42 42
21 22 23 24 25	38 45 50 52 53	35 38 44 48	38 39 47 49	56 57 56 55 58	47 53 53 53 53	52 54 54 54 56	47 47 46 48 47	45 43 43 45 43	46 46 45 46 46	42 42 41 40 40	41 40 40 39 38	41 41 41 40 39
26 27 28 29 30 31	50 52 45 43	45 44 43 39	48 48 44 42	58 54 55 55 58 56	54 53 52 52 52 52	56 54 53 53 54 54	45 47 50 51 52	43 45 46 47 48	45 46 48 50 51	39 38 37 37 36 36	37 37 34 33 33 33	38 37 36 35 35
MONTH	53	35	41	62	35	49	57	43	50	52	33	43
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		JUNE			JULY			AUGUST			SE PT EMB	ER
1 2 3 4 5	36 35 36 36 36	34 34 34 33 33	35 35 35 35 34	42 40 40 39 39	38 37 36 38 36	40 38 38 39 37	42 38 38 39 36	38 35 34 36 34	39 36 35 38 35		=======================================	===
6 7 8 9	35 34 34 34 36	33 33 33 32 33	34 33 33 33 35	38 36 35 34 34	36 34 33 32 32	37 35 34 33 33	35 34 33 32 32	31 31 31 31 31	34 32 32 32 32			
11 12 13 14 15	36 35 34 33 33	33 33 33 32 31	35 34 33 32 32	33 32 33 32 32	30 29 30 30 30	32 31 32 31 32	32 32 32 32 32	31 31 31 30 31	31 32 31 31 31			
16 17 18 19 20	33 33 32 35 35	32 32 31 31 34	32 32 32 33 34	33 34 33 34 33	30 30 32 33 31	32 32 33 33 32	31 31 31 31	30 30 30 30	31 31 31 31	26 29 28 27	25 26 26 26 25	26 28 27 26
21 22 23 24 25	34 34 34 34 34	33 33 33 33 32	34 33 34 33	33 33 34 34 33	32 32 33 32 31	32 32 33 33 32	===	==		27 27 27 27 27	26 26 26 26 26	27 26 26 26 26 26
26 27 28 29 30 31	33 33 32 39 42	32 32 31 32 38	33 32 32 33 40	32 32 32 48 50 48	31 31 31 31 47 41	32 32 32 39 48 45	===	==		27 27 27 27 27	26 26 26 26 26	26 26 26 27 27
MONTH	42	31	34	50	29	35	42	30	33	29	25	26
YEAR	64	23	41 .									

DELAMADE DIVED DACIN 165

LOCATION.--Lat 39°58'10", long 74°41'05", Burlington County, Hydrologic Unit 02040202, on right bank at downstream side of bridge on Hanover Street at Pemberton, 12 mi (19 km) upstream from confluence with South Branch.

DRAINAGE AREA .-- 111 mi2 (287 km2).

WATER-DISCHARGE RECORDS

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

REVISED RECORDS. -- WSP 1302: 1922-23. WSP 1382: 1933.

GAGE.--Water-stage recorder above concrete dams. Datum of gage is 31.19 ft (9.507 m) National Geodetic Vertical Datum of 1929. Prior to June 9, 1923, nonrecording gage and June 9, 1923 to Aug. 9, 1951, water-stage recorder at site 600 ft (183 m) downstream at datum 6.54 ft (1.993 m) lower.

REMARKS.--Water-discharge records good. Flow regulated occasionally by operation of gate in dam and by ponds above station.

AVERAGE DISCHARGE. -- 59 years, 173 ft 3 /s (4.899 m 3 /s), 21.17 in/yr (538 mm/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 1,730 ft³/s (49.0 m³/s) Aug. 31, 1939, gage height, 10.77 ft (3.283 m) from high-water mark at site and datum then in use; minimum daily, 9.0 ft³/s (0.25 m³/s) Sept. 29, 1932.

EXTREMES FOR CURRENT YEAR. -- Peak discharges above base of 600 ft3/s (17.0 m3/s) and maximum (*):

			Disch	arge	Gage	height
Date		Time	(ft^3/s)	(m^3/s)	(ft)	(m)
Apr.	10	1545	*670	19.0	2.53	0.771

Minimum discharge, 39 ft 3 /s (1.10 m 3 /s) Sept. 13, 14, gage height, 1.43 ft (0.436 m).

		DISCH	ARGE, IN	CUBIC FEE	T PER S	SECOND, WA MEAN V	TER YEAR OC	TOBER 19	79 TO SEP	TEMBER 19	80	
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1 2 3 4 5	153 158 181 167 157	138 131 243 197 192	173 152 140 133 128	142 136 133 131 136	131 125 115 111 107	126 122 122 124 128	587 518 491 479 455	324 334 314 263 224	102 104 110 116 114	85 79 76 79 76	91 83 80 80 88	55 50 48 47 46
6 7 8 9	182 177 173 152 195	190 169 146 149	133 159 161 153 145	136 135 134 128 113	105 107 107 114 114	131 128 136 147 147	380 336 297 380 650	199 167 160 178 170	110 109 107 109 130	78 73 70 70 71	123 94 80 81 62	47 48 46 46 45
11 12 13 14 15	296 338 339 327 279	166 260 286 287 260	139 132 141 159 162	125 241 258 254 271	113 112 110 109 110	165 166 183 278 260	647 605 448 378 468	163 162 189 189 176	138 117 115 133 121	69 65 63 58	58 62 60 56 57	43 41 41 42 62
16 17 18 19 20	227 201 194 228 226	230 204 181 165 160	157 152 144 139 140	214 189 182 217 221	125 138 138 137 129	235 236 223 234 216	284 293 269 266 246	200 238 230 246 210	108 103 94 89 86	58 59 59 58 57	57 55 55 57 58	55 52 65 60 55
21 22 23 24 25	204 189 182 199 172	155 178 160 152 163	137 140 158 173 196	204 192 206 196 181	119 135 159 173 172	289 387 390 349 466	229 228 226 207 197	197 182 170 155 139	84 80 79 73 73	55 54 59 58 54	57 56 55 54 53	54 52 51 50 54
26 27 28 29 30 31	170 163 161 165 156 143	178 190 208 227 207	205 203 186 173 161 152	171 161 156 157 150 139	162 151 142 136	435 403 353 395 432 467	194 196 245 306 321	134 120 107 111 124 125	72 68 66 66 87	52 52 51 102 119 108	48 47 47 48 51 53	59 52 50 51 52
TOTAL MEAN MAX IN CFSM IN.	6254 202 339 143 1.82 2.10	5720 191 287 131 1.72 1.92	4826 156 205 128 1.41 1.62	5409 174 271 113 1.57 1.81	3706 128 173 105 1.15 1.24	7873 254 467 122 2.29 2.64	10826 361 650 194 3.25 3.63	5900 190 334 107 1.71 1.98	2963 98.8 138 66 .89	2125 68.5 119 51 .62 .71	2006 64.7 123 47 .58 .67	1519 50.6 65 41 .46
	1979 TOTAL 1980 TOTAL		MEAN MEAN		1590 650	MIN 105 MIN 41	CFSM 2.49 CFSM 1.46	IN 33. IN 19.	. 76 . 82			

DELAWARE RIVER BASIN

01467000 NORTH BRANCH RANCOCAS CREEK AT PEMBERTON, NJ--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD. -- Water years 1923-24, 1958, 1962-69, 1975 to current year.

WATER QUALITY DATA, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

DATE	TIME	STREAM- FLOW, INSTAN- TANEOUS (CFS)	SPE- CIFIC CON- DUCT- ANCE (MICRO- MHOS)	PH FIELD (UNITS)	TEMPER- ATURE, WATER (DEG C)	OXYGEN, DIS- SOLVED (MG/L)	OXYGEN DEMAND, BIOCHEM UNINHIB 5 DAY (MG/L)	COLI- FORM, FECAL, EC BROTH (MPN)	STREP- TOCOCCI FECAL (MPN)	HARD- NESS (MG/L AS CACO3)	
OCT 03	1345	185	42	4.8	19.0	7.6	1.7	33	230	7	
JAN 31	1100	140	51	4.6	1.0	12.8	.8	<2	12	8	
APR 07	1100	334	45	4.4	11.0	10.8	.4	8	130	5	
MAY 21	1300	202	38	4.9	18.0	8.2	1.5	490	>2400	7	
JUL	1245	86	44						1		
O1				5.0	22.0	6.8	2.0	3500	130	8	
12	0945	61	43	5.3	25.0	6.0	2.6	790	5400	9	
DATE	CALCIUM DIS- SOLVED (MG/L AS CA)	MAGNE- SIUM, DIS- SOLVED (MG/L AS MG)	SODIUM, DIS- SOLVED (MG/L AS NA)	POTAS- SIUM, DIS- SOLVED (MG/L AS K)	BICAR- BONATE (MG/L AS HCO3)	CAR- BONATE (MG/L AS CO3)	ALKA- LINITY (MG/L AS CACO3)	SULFIDE TOTAL (MG/L AS S)	SULFATE DIS- SOLVED (MG/L AS SO4)	CHLO- RIDE, DIS- SOLVED (MG/L AS CL)	
OCT 03	1.7	.7	2.4	.9	1	0	1		5.3	4.0	
JAN 31	1.9	.8	2.8	.7	0	0	0		9.1	4.4	
APR 07	1.0	.7	2.0	.7	0	0	0		8.6	3.5	
MAY 21	1.5	.7	3.0	.6	1	0	1	.1	6.9	4.1	
JUL 01	1.8	.8	2.6	.8	2	0	2	32	7.6	4.4	
AUG 12	2.1	1.0	2.9	1.0	1	0	1		8.2	4.6	
DATE	FLUO- RIDE, DIS- SOLVED (MG/L AS F)	SILICA, DIS- SOLVED (MG/L AS SIO2)	SOLIDS, RESIDUE AT 180 DEG. C DIS- SOLVED (MG/L)	NITRO- GEN, NO2+NO3 TOTAL (MG/L AS N)	NITRO- GEN, AMMONIA TOTAL (MG/L AS N)	NITRO- GEN, ORGANIC TOTAL (MG/L AS N)	NITRO- GEN, AM- MONIA + ORGANIC TOTAL (MG/L AS N)	NITRO- GEN, TOTAL (MG/L AS N)	PHOS- PHORUS, ORTHOPH OSPHATE TOTAL (MG/L AS PO4)	CARBON, ORGANIC TOTAL (MG/L AS C)	
OCT 03	.1	5.3	34	<1.0	.500	.07	.57		. 15	10	
JAN 31	.1	4.6	33	.05	<.030		.30	.35	.01	5.6	
APR 07	.1	2.3	30	.05	.040	.24	.28	.33	.13	7.0	
MAY 21	.0	3.2	32	.05	.040	.08	.12	. 17	.11	8.9	
JUL 01	.1	4.4	35	.10	.100	.51	.61	.71	.04	6.9	
AUG 12	.1	5.7	38	.14	.240	.36	.60	4 .74	.25	7.3	
	DATE	TIME	ALUM- INUM, DIS- SOLVED (UG/L AS AL)	ARSENIC TOTAL (UG/L AS AS)	BERYL- LIUM, TOTAL RECOV- ERABLE (UG/L AS BE)	BORON, TOTAL RECOV- ERABLE (UG/L AS B)	CADMIUM TOTAL RECOV- ERABLE (UG/L AS CD)	CHRO-MIUM, TOTAL RECOV- ERABLE (UG/L AS CR)	COPPER, TOTAL RECOV- ERABLE (UG/L AS CU)		
	MAY							32.1			
	21	1300	130	1	0	20	0	10	3		

DELAWARE RIVER BASIN

01467000 NORTH BRANCH RANCOCAS CREEK AT PEMBERTON, NJ--Continued WATER QUALITY DATA, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

DATE	IRON, TOTAL RECOV- ERABLE (UG/L AS FE)	LEAD, TOTAL RECOV- ERABLE (UG/L AS PB)	MANGA- NESE, TOTAL RECOV- ERABLE (UG/L AS MN)	MERCURY TOTAL RECOV- ERABLE (UG/L AS HG)	NICKEL, TOTAL RECOV- ERABLE (UG/L AS NI)	SELE- NIUM, TOTAL (UG/L AS SE)	ZINC, TOTAL RECOV- ERABLE (UG/L AS ZN)	PHENOLS
MAY	AS FE	AS FB)	AS MN)	AS ng)	AS NI)	AS SE)	AS ZN /	(00/L)
21	1900	8	30	.5	2	0	20	2

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 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).

WATER-QUALITY RECORDS

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, 865 micromhos Jan. 10, 1977; minimum, 71 micromhos July 24, 1970.
pH: Maximum, 8.1 Dec. 30, 1970; minimum, 4.9 Apr. 5, 1969.
WATER TEMPERATURES: Maximum, 32.5°C July 21, 1977; minimum, freezing point on many days during winter months.
DISSOLVED OXYGEN: Maximum, 14.5 mg/L Feb. 4-5, 1964; minimum, 0.0 mg/L on many days during 1962 and 1965.

SPECIFIC CONDUCTANCE: Maximum, 470 micromhos Mar. 8; minimum, 88 micromhos Oct. 10.
pH: Maximum, 7.7 Mar. 10; minimum, 6.1 on many days.
WATER TEMPERATURES: Maximum, 31.5°C, several days in July and August; minimum, 1.5°C on many days during January and February.
DISSOLVED OXYGEN: Maximum 13.1 mg/L Mar.10; minimum 1.9 mg/L Sept. 25.

TEMPERATURE, WATER (DEG. C), WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		OCTOBE	CR .		NOVEMBE	R		DECEMBE	R		JANUAR	Y
1 2 3 4 5	20.0 20.5 20.5 20.5 20.0	19.0 19.0 20.0 19.5 18.5	19.5 20.0 20.5 20.0 19.5	14.5 14.5 15.0 13.0	12.5 13.0 12.5 11.5 12.0	13.5 14.0 13.5 12.5	10.0 9.0 7.5 7.0 6.5	8.5 6.5 5.5 5.5	9.0 8.0 7.0 6.5 6.0	5.5 5.5 5.0 4.0	4.5 5.0 4.5 4.0 3.0	5.5 5.0 5.0 4.5 4.0
6 7 8 9	19.0 18.5 17.0 16.0 15.5	18.0 17.0 16.0 15.5 11.0	18.5 18.0 16.5 16.0 14.5	12.5 12.0 11.0 11.5 13.0	12.0 11.0 10.5 10.5	12.5 11.5 11.0 10.5 11.0	6.0 8.0 6.5 6.5	5.5 5.5 4.5 4.5	5.5 6.0 5.5 5.5	4.5 3.5 4.0 3.5 3.5	3.0 2.5 3.0 3.0 2.0	4.0 3.5 3.5 3.0 3.0
11 12 13 14 15	14.0 13.5 13.0 12.5 12.5	12.0 12.5 12.5 11.5	13.5 13.0 12.5 12.0 12.0	12.0 12.0 11.0 11.5 11.0	10.5 10.5 10.5 10.5 10.0	11.0 11.0 11.0 11.0	7.0 7.0 8.0 6.5 6.5	5.5 6.0 6.5 6.0 5.5	6.0 6.5 6.5 6.5	5.0 8.0 4.0 5.0 5.5	2.5 3.5 3.0 3.5 4.5	3.5 4.5 3.5 4.0 5.0
16 17 18 19 20	12.5 13.0 13.5 14.0 14.5	11.5 12.0 12.5 13.0 13.5	12.0 12.5 13.0 13.5 14.0	11.0 10.5 11.0 11.0	10.0 9.5 10.0 10.0	10.5 10.5 10.5 10.5	6.5 10.5 6.0 5.5 5.0	6.0 5.0 4.5 3.5 4.0	6.5 6.5 5.5 5.0 4.5	5.5 5.5 6.0 7.0 6.5	4.5 5.0 5.0 5.0	5.0 5.0 5.5 5.5
21 22 23 24 25	15.5 16.5 18.0 16.5 15.5	14.0 14.5 15.0 15.5 14.5	14.5 15.0 16.0 16.0 15.5	11.0 11.0 11.5 12.5 13.5	10.0 10.0 10.0 10.5 11.0	10.5 10.5 10.5 11.0 11.5	4.5 4.5 5.0 9.0	3.5 4.0 4.0 3.5 4.0	4.0 4.0 4.0 5.0	6.0 5.5 6.0 5.0 4.5	5.0 5.0 5.0 2.5 3.5	5.5 5.5 4.5 4.0
26 27 28 29 30	15.5 16.0 15.5 15.0 14.5	14.5 14.5 14.5 13.5 13.0 12.5	15.0 15.0 15.0 15.0 14.5 14.0	16.0 13.5 14.5 14.0	11.5 12.0 12.5 10.5 8.5	13.0 12.5 13.5 12.0 10.5	6.0 6.5 6.5 6.5	4.5 5.5 5.5 5.5	5.0 6.0 6.0 6.0 5.5	4.5 4.0 4.5 3.5 3.5	3.0 2.5 3.5 3.0 2.0	4.0 3.5 4.0 4.0 3.0 3.0
MONTH	20.5	11.0	15.5	16.0	8.5	11.5	10.5	3.5	6.0	8.0	1.5	4.5

01467030 DELAWARE RIVER AT TORRESDALE INTAKE, AT PHILADELPHIA, PA--Continued TEMPERATURE, WATER (DEG. C), WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

			TEMPERATURE,	WATER	(DEG. C), WATER	YEAR OCTOBER	1979 10	SEPTEMBER	1980			
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	
		FEBRUARY		MARCH			APRIL			MAY			
1 2 3 4 5	2.5 2.0 2.5 3.0 3.0	1.5 1.5 1.5 1.5	2.5 2.0 1.5 1.5	4.5 5.0 5.0 4.5	3.0 3.0 2.5 3.0 3.5	4.0 4.0 3.5 4.0 4.0			==	16.0 16.5 17.5 19.0	13.0 13.5 14.5 16.0	14.0 14.5 15.5 17.0	
6 7 8 9	1.5 2.0 3.0 2.0 2.5	1.5 1.5 1.5 1.5	1.5 1.5 1.5 1.5	6.5 6.0 9.5 8.5 11.0	4.0 5.0 5.5 5.5	4.5 5.0 6.0 6.0 6.5	14.5 15.0 14.0 15.0	11.0 11.0 12.0 12.5	12.0 12.0 12.5 13.0	20.5 21.5 19.0 19.5 19.5	17.0 18.0 18.5 17.5	18.0 19.0 19.0 19.0 19.0	
11 12 13 14 15	2.5 2.5 2.5 2.5 3.5	1.5 1.5 1.5 1.5 2.0	2.0 2.0 2.0 2.5 2.5	8.5 7.0 7.0 6.5 7.5	6.0 4.5 6.0 3.5 5.5	6.5 6.0 6.5 6.0	14.5 15.0 14.0 13.5 14.5	13.0 13.0 13.0 12.5 13.0	13.5 13.5 13.5 13.0 13.5	19.0 19.0 19.5 20.0 19.5	18.0 18.5 18.5 18.5	19.0 19.0 19.0 19.0	
16 17 18 19 20	3.0 3.0 3.5 4.5	2.0 2.0 1.5 1.5 2.0	2.5 2.5 2.5 2.5 3.0	8.0 9.0 10.0 9.5 10.5	6.0 7.0 6.5 7.0 7.5	7.0 7.5 8.0 7.5 8.5	13.0 13.5 14.0 14.5 15.0	11.5 11.0 11.5 11.0	13.0 12.0 11.5 12.0 12.5	20.0 21.5 20.0 21.5 21.0	18.5 19.0 19.5 19.0 20.0	19.0 19.5 19.5 20.0 20.0	
21 22 23 24 25	5.5 4.5 6.0 7.0 5.5	3.0 3.5 3.5 4.5	3.5 3.5 4.5 5.0	12.5 9.5 7.5 7.5 8.5	8.5 7.5 5.0 4.5 5.0	9.0 8.0 6.5 5.0 6.5	15.0 15.0 16.0 16.0 16.5	12.5 13.0 13.5 14.5 15.5	13.0 13.5 14.0 15.5 16.0	20.0 21.5 22.5 22.0 22.5	19.0 19.0 20.0 21.0 21.5	20.0 20.0 21.0 21.5 22.0	
26 27 28 29 30 31	5.0 4.5 5.0 4.5	4.0 3.5 3.5 2.5	4.5 4.5 4.5 	7.5 8.5 8.0 10.5 10.0 9.0	6.0 6.5 7.0 7.5 5.5	6.5 7.0 7.5 8.5	16.0	15.5	16.0	22.5 22.0 22.5 23.5 23.0 23.0	21.0 21.5 22.0 22.0 22.5	22.0 22.0 22.0 22.5 22.5 23.0	
MONTH	7.0	1.5	3.0	12.5	2.5	6.5	16.5	11.0	13.5	23.5	. 13.0	19.5	
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	
DAY	MAX	MIN JUNE	MEAN	MAX	MIN JULY	MEAN	MAX	MIN AUGUST	MEAN	MAX	MIN SEPTEMB		
DAY 1 2 3 4 5	MAX 24.5 25.0 26.0 25.0 25.5		23.5	MAX 28.0 29.0 27.5 29.0 29.0		MEAN 27.0 27.0 27.5 27.5 28.0	MAX		MEAN	MAX 30.5 30.5 30.0 29.5 29.0			
1 2 3 4	24.5 25.0 26.0 25.0	JUNE 22.5 23.5 24.0 23.0	23.5 24.0 24.5 24.5 24.5 24.0 24.0 24.0 24.0 23.5 23.0 23.5 23.5 24.0	28.0 29.0 27.5 29.0	JULY 26.0 26.5 27.0 27.0	27.0 27.0 27.5 27.5	===	AUGUST		30.5 30.5 30.0 29.5	28.0 28.5 28.0 28.0	29.0 29.0 29.0 29.0	
1 2 3 4 5 6 7 8 9 10 11 12 13 14	24.50.00 25.00 25.05 25.55 25.55 25.55 24.33.34.45.0 24.50	JUNE 22.5 23.5 23.0 23.0 23.5 23.5 23.0 22.5 23.0 22.5 23.0	23.5 24.0 24.5 24.5 24.5 24.0 24.0 24.0 24.0 23.5 23.0 23.5 23.5 24.0	28.0 29.0 27.5 29.0 29.0 28.5 28.5 28.5 28.5 28.5 29.0 29.0	JULY 26.0 26.5 27.0 27.5 26.5 26.5 27.5 27.5 27.5 27.5 27.5	27.0 27.5 27.5 28.0 27.5 28.0 27.5 28.0 28.0 28.0 28.0 28.0	30.5 31.0 31.5 31.5 31.5 31.5	AUGUST 29.5 30.0 30.5 30.0 30.5 30.0 29.5 29.5	30.5 30.5 30.5 30.5 31.0 30.5	30.5 30.5 30.5 30.0 29.5 29.0 29.0 29.0 28.5 28.5 28.5 28.5	SEPTEMB 28.0 28.5 28.0 28.0 28.0 28.5 27.5 27.5 27.5 26.5 26.0 26.7	29.0 29.0 29.0 29.0 29.0 29.0 29.0 28.5 28.5 28.1 27.5 27.0	
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19	24.5 25.0 25.0 25.5 25.5 25.5 24.5 24.5 25.5 24.5 25.5 24.5 25.5 24.5 25.5	JUNE 22.5 23.0 23.0 23.0 23.5 23.0 23.5 23.0 22.5 23.0 23.5 23.0 23.5 23.5 23.0 23.5 23.5 23.0	23.5 24.0 24.5 24.5 24.0 24.0 24.0 23.5 23.0 23.5 23.5 24.0 24.0 24.0 24.0 24.0	28.0 29.0 27.5 29.0 29.0 28.5 227.5 228.5 228.5 228.5 228.5 229.5 30.0 30.0 330.5	JULY 26.0 27.0 27.0 27.5 26.5 26.5 27.0 27.5 27.5 27.5 27.5 27.5 27.5 27.5 28.5	27.0 27.5 27.5 28.0 27.5 28.0 27.5 28.0 28.5 28.5 28.5 28.5 28.5 28.5 28.5 28.5	30.5 31.0 31.5 31.5 31.5 31.0 31.5 31.0 31.0 31.0 31.0	AUGUST	30.5 30.5 30.5 30.5 31.0 30.5 31.0 30.5 30.5 30.5 30.5	30.5 30.5 30.5 30.0 29.5 29.0 29.0 29.0 28.5 28.5 27.5 26.0 25.5	SEPTEMB 28.0 28.0 28.0 28.0 28.0 28.0 27.55 27.55 26.0 26.5 27.55 24.0 24.0	29.0 29.0 29.0 29.0 29.0 29.0 29.0 29.5 28.0 211 27.5 27.0 27.0 27.0 25.5 25.5 25.0	
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 9 20 22 34	24.5 25.0 25.0 25.5 25.5 25.5 24.5 24.5 25.5 24.5 25.5 24.5 25.5 24.5 25.5 24.5 25.5 25	JUNE 2.550 23.00 23.5550 23.00 23.5550 22.550 23.00 23.5550 23.00 23.5550 23.00 23.5550 23.00 23	23.5 24.0 24.5 24.5 24.0 24.0 24.0 24.0 23.5 23.0 23.5 24.0 24.0 24.0 24.0 24.0 24.0 24.0 24.0	28.0 227.5 229.0 227.5 229.0 28.5 227.5 228.5 228.5 228.5 229.5 30.0 30.0 330.5 31.5 31.0 330.0	JULY 26.0 5 27.0 5 26.5 5 26.5 5 27.5	27.0 27.5 27.5 28.0 27.5 28.0 27.5 28.0 28.5 28.5 28.5 28.5 28.5 28.5 28.5 29.0 30.0 55.5 29.5 30.0 55.5 29.5 30.0 55.5 30.0 50.0 5	30.5 31.0 31.5 31.5 31.5 31.5 31.0 31.5 31.0 31.5 31.0 31.5 31.5 31.0 31.5 31.0 31.5 31.0 31.5 31.0 31.5 31.0 31.0 31.0 31.0 31.0 31.0 31.0 31.0	AUGUST 29.5 30.0 30.5 30.0 30.0 30.5 30.0 29.5 29.5 29.5 28.5 27.5 27.0 26.5 27.0	30.5 30.5 30.5 30.5 31.0 30.5 31.0 30.5 30.5 30.5 30.5 30.5 30.5 30.5 30	30.5 30.5 30.5 30.5 29.5 29.0 29.5 29.0 28.5 28.5 28.5 27.5 26.0 25.5 26.0 25.5 26.0 26.0 26.0 26.0 26.0 26.0 26.0 26.0	SEPTEMB 28.0 28.0 28.0 28.0 28.0 28.0 28.0 28.	29.0 29.0 29.0 29.0 29.0 29.0 29.5 28.0 211.5 27.5 27.0 27.0 25.5 25.0 25.5 25.5 25.5	
1 2 3 4 5 6 7 8 9 10 11 2 3 14 5 16 7 18 9 2 2 2 2 2 4 5 2 6 7 8 9 3 0	24.5 25.0 25.0 25.5 25.5 25.5 25.5 24.5 25.5 24.5 25.5 24.5 25.5 25	JUNE 2.55.00 2.34.00 2.35.50 2.35.50 2.36.00	23.5 24.5 24.5 24.5 24.0 24.0 24.0 23.5 23.5 23.5 24.0 24.0 24.0 24.0 24.0 24.0 24.0 24.0 24.0 24.5 25.0 24.0 24.5 25.0 24.0 25.5 26.0 26.5	28.0 227.5 29.0 227.5 229.0 28.5 227.5 228.5 228.5 228.5 229.0 30.0 30.0 30.5 31.0 30.5 30.5 30.5 30.5 30.5 30.5 30.5 30	JULY 26.0 5 27.0 5 26.5 5 26.5 5 27.5	27.0 27.5 27.5 28.0 27.5 28.0 227.5 28.0 227.5 28.0 28.5 28.5 28.5 28.5 29.0 29.5 30.0 29.5 30.0 29.5 30.0 29.5 30.0 29.5 30.0 30.0 30.0 30.0 30.0 30.0 30.0 30	30.5 31.0 31.5 31.5 31.5 31.5 31.5 31.5 31.5 31.5	AUGUST	30.55 30.55	30.55 300.50 300.50 29.50 29.00 29.05 29.00 29.05 28.55 28.55 27.55 26.65.55 25.66.55 25.66.55 26.65.55 27.66.55 28.66.5	SEPTEMB 28.0 28.0 28.0 28.0 28.0 28.0 28.0 28.	29.0 29.0 29.0 29.0 29.0 29.0 29.0 29.0	

DELAWARE RIVER BASIN

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

	S	PECIFIC (CONDUCTAN	CE (MICROMI	HOS/CM AT	25 DEG.	C), WATER	YEAR OCTO	BER 1979	TO SEPTEMBER	1980	
DAY	MAX	MIN	MEAN									
		OCTOBE	R		NOVEMBE	R		DECEMBE	R		JANUARY	
1 2 3 4 5	179 169 231 185 221	114 147 147 145 126	162 158 158 156 146	213 257 252 210 210	184 183 182 184 188	194 196 193 192 196	135 167 143 152 162	97 101 110 117 125	105 114 119 124 132	186 194 200 181 188	147 148 150 151 155	156 155 157 158 163
6 7 8 9	193 139 145 222 187	113 101 94 89 88	125 111 107 105 104	208 219 180 180 261	179 150 135 131 132	189 178 151 144 156	155 297 237 208 217	129 138 144 147 152	136 158 157 159 164	241 277 251 226 245	159 160 166 168 173	170 174 185 182 187
11 12 13 14	206 264 194 207 189	95 122 130 136 138	117 137 144 149 152	229 209 203 212 209	140 145 151 158 161	154 161 161 168 171	210 207 272 232 208	156 158 163 170 172	167 170 179 182 180	255 279 226 245 259	174 180 190 199 204	187 201 205 211 214
16 17 18 19 20	204 227 218 231 225	148 153 157 162 165	159 164 167 169 176	219 215 221 224 229	165 168 172 175 179	174 176 181 184 188	218 209 215 210 209	177 163 184 184 189	186 188 190 190 194	260 242 287 272 221	200 197 194 194 193	212 206 205 206 201
21 22 23 24 25	228 248 278 265 222	170 173 176 176 175	179 183 188 189 185	216 219 230 239 238	181 183 186 189	188 191 195 198 199	226 220 263 289 330	187 186 187 193 195	194 194 201 210 214	219 216 224 219 200	195 185 184 184 182	196 193 189 187
26 27 28 29 30 31	216 220 218 245 234 217	177 180 185 191 192 187	186 190 192 200 199 196	243 212 224 173 136	190 188 172 112 98	202 197 193 140 107	259 246 216 229 203 193	201 202 193 179 160 150	214 213 200 193 177 164	212 225 226 249 245 249	183 185 187 190 215 219	190 194 197 211 222 226
MONTH	278	88	160	261	98	177	330	97	173	287	147	192
DAY	MAX	MIN	MEAN									
		FEBRUAR	Y		MARCH			APRIL			MAY	
1 2 3 4 5	245 250 263 268 279	219 221 224 228 231	224 228 232 238 240	291 291 365 347 385	263 262 262 263 262	270 269 275 278 280		=		182 246 193 182	132 130 130 133	142 142 139 142
6 7 8 9	273 287 290 287 292	230 236 238 241 246	242 244 248 250 254	382 322 470 375 399	265 264 262 265 263	282 275 283 281 279	257 265 267 191	132 131 129 134	158 153 145 150	225 225 229 172 177	138 129 132 136 139	151 145 144 143 146
11 12 13 14 15	306 300 308 299 296	245 253 262 268 268	261 266 274 276 274	280 298 303 454 369	244 270 272 276 263	269 280 278 312 289	200 229 183 216 212	138 118 105 112 116	149 142 123 124 130	183 205 240 194 198	142 145 151 158 166	149 155 165 165 170
16 17 18 19 20	324 296 299 288 283	266 268 268 264 263	275 276 275 272 270	310 311 297 268 291	258 243 231 226 206	271 261 243 234 224	183 189 167 171 230	122 125 120 119 122	131 136 131 129 133	197 209 222 204 231	166 169 166 168 171	173 176 175 175 178
21 22 23 24 25	292 287 300 316 282	256 254 188 260 262	270 268 268 272 268	237 223 153 237 197	169 135 94 91 93	199 156 125 107 125	183 225 199 219 210	124 128 132 138 142	133 138 145 149 154	220 203 232 222 247	170 171 176 184 189	177 178 186 192 198
26 27 28 29 30 31	294 322 295 290	263 265 265 264	271 274 273 271	227 230 209 251 215 195	110 119 119 119 131 137	129 139 135 145 147 147	224 	147	159 	229 230 232 223 216 216	193 194 195 196 197 198	200 200 201 201 201 201 202
MONTH	324	188	260	470	91	225	267	105	141	247	129	170

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

SPECIFIC CONDUCTANCE (MICROMHOS/CM AT 25 DEG. C), WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		JUNE			JULY			AUGUST			SEPTEMB	ER
1	258	202	209	263	249	254				290	251	259
	256	206	213	350	251	259				389	253	263
2 3 4	253	210	217	274	253	257				290	253	260
4	252	214	221	269	254	258				283	254	262
5	251	217	224	281	256	260				283	260	265
6	247	222	228	269	251	258	242	228	237	282	257	263
7	259	225	233	264	253	256	246	237	241	279	259	266
8	274	232	238	264	251	254	261	239	245	279	259	267
9	257	233	238	265	249	255	272	243	249	279	258	266
10	242	230	233	276	246	257	263	247	251	283	256	264
11	246	228	233	274	244	257	271	247	252	280	255	264
12	244	226	232	273	240	253	259	235	246	276	253	260
13	244	225	231	268	237	248	253	241	245	292	253	262
14	244	226	231	258	234	244	254	241	246	298	254	264
15	260	229	236	305	235	246	255	240	245	295	251	260
16	276	228	235	270	236	244	255	238	244	272	246	255
17	246	227	233	269	234	240	256	235	242	269	245	255
18	267	227	235	260	235	243	245	229	236	251	167	237
19	257	227	232	265	237	245	252	230	236	249	230	239 242
20	259	227	232	296	239	247	256	229	237	258	237	242
21	249	227	232	271	242	249	257	228	236	253	242	246
22	257	229	235	304	237	248	288	229	236	262	247	251
23	274	231	238	253	238	241	256	230	239	273	249	257
24	291	235	242	244	236	239	269	233	242	273 283	247 245	254 257
25	271	238	244	256	238	244	265	236	244	203		
26	268	240	246	260	242	247	270	239	248	275	244	254
27	285	243	250	257	244	249	270	244	252	262	241	250
28	295	246	253	263	246	251	283	248	256	267	242	251
29	277	247	254	259	214	248	269	248	256	269 264	237	249 250
30	279	248	252				299	248	257 260		239	250
31							304	250	200			
MONTH	295	202	234	350	214	250	304	228	245	389	167	256
YEAR	470	88	208									

OXYGEN, DI	ISSOLVED (D)), MG/L,	WATER	YEAR	OCTOBER	1979	TO	SEPTEMBER	1980
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DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		ОСТОВЕ	:R		NOVEMBE	R		DECEMBE	R		JANUAR	Y
1 2 3 4 5	8.8 7.7 7.0 7.4 7.6	6.9 6.7 4.0 5.9 3.8	7.5 7.0 6.7 6.8 6.9	8.7 8.9 9.0 9.6 9.6	5.9 5.9 4.8 8.3 9.0	7.8 8.1 8.3 9.0 9.4	10.6 11.1 11.5 11.8 11.9	9.4 10.1 10.8 10.4 10.2	10.2 10.7 11.2 11.4 11.5	12.0 12.0 12.1 12.1 12.2	11.0 11.4 11.6 11.6 11.8	11.6 11.7 11.8 11.9
6 7 8 9	8.1 8.5 8.7 10.0	6.2 6.5 7.8 8.3 6.5	7.6 7.7 8.2 8.5 8.6	9.6 10.1 10.2 10.5 10.5	8.4 8.3 8.6 9.1 6.1	9.1 9.3 9.7 10.0 9.9	12.1 12.1 12.3 12.2 12.2	10.3 9.8 11.2 11.7	11.6 11.7 12.0 12.1 12.0	12.3 12.6 12.5 12.4 12.5	11.3 11.9 11.8 10.6 11.9	12.0 12.3 12.3 11.9 12.2
11 12 13 14 15	9.5 9.8	7.8 8.6	8.4 9.5	10.4 10.4 10.3 10.1	8.1 7.4 8.3 8.7 8.6	9.9 9.8 9.9 9.8 9.7	12.0 11.7 11.5 11.5	9.7 8.8 5.8 10.0 9.4	11.6 10.9 10.4 11.0	12.7 12.6 12.5 12.6 12.6	12.1 9.6 11.9 12.2 10.9	12.4 12.0 12.3 12.4 12.3
16 17 18 19 20	9.9 9.8 9.8 9.6 9.3	6.6 8.3 7.9 5.2 6.5	9.3 9.3 9.3 9.0 8.7	10.1 10.0 10.1 10.1	8.6 8.2 9.4 8.9 7.9	9.7 9.6 9.7 9.7 9.6	11.5 12.1 11.5 11.7 11.9	11.0 10.8 11.1 11.1	11.3 11.2 11.2 11.4 11.6	12.3 12.0 12.0 12.0 12.0	10.4 10.9 10.5 10.8 11.2	11.9 11.7 11.7 11.7
21 22 23 24 25	9.2 9.1 8.8 8.7 8.7	8.3 7.4 7.7 7.5 6.1	8.9 8.8 8.5 8.4 8.2	10.0 10.1 10.2 10.0 10.0	7.8 7.4 7.5 6.6 7.9	9.3 9.2 9.4 9.2 9.4	11.9 11.9 12.0 12.2 12.3	10.8 9.5 10.4 11.5 9.7	11.5 11.4 11.5 11.8 11.8	12.0 12.0 11.7 11.7	11.6 11.1 10.5 10.7 11.2	11.8 11.6 11.3 11.4 11.4
26 27 28 29 30	8.5 8.3 8.0 8.3 8.5	5.4 5.7 7.7 5.4 7.2 5.9	7.8 7.6 7.9 7.4 7.8 7.7	10.0 9.9 9.9 9.8 10.3	4.4 7.0 8.4 8.5 9.1	8.9 9.2 9.4 9.8	12.4 12.4 12.1 11.6 11.8 11.9	11.2 11.0 10.6 11.0 11.3	12.0 12.1 11.6 11.4 11.5 11.6	11.8 12.0 11.7 12.1 12.2 12.3	11.2 11.4 11.2 11.3 11.5	11.5 11.6 11.5 11.6 11.8
MONTH	10.0	3.8	8.1	10.5	4.4	9.4	12.4	5.8	11.4	12.7	9.6	11.9

DELAWARE RIVER BASIN

01467030 DELAWARE RIVER AT TORRESDALE INTAKE, AT PHILADELPHIA, PA--Continued OXYGEN, DISSOLVED (DO), MG/L, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

DAY MAX				OXYGEN,	DISSOLVED	(DO), MG/	L, WATER	YEAR OCTOBER	1979 1	O SEPIEMBE	K 1980		
1	DAY	MAX			MAX			MAX			MAX		MEAN
7 12.7 12.3 12.5 11.6 11.0 11.2 11.1 10.4 10.8 8.9 7.5 8.5 8.5 8 12.8 12.2 12.5 12.5 12.6 10.8 11.2 11.1 10.3 10.8 8.4 7.1 8.0 11.2 11.1 10.3 10.8 8.4 7.1 8.0 11.2 11.2 11.2 11.2 11.2 11.2 11.2 11	3	12.7 12.7 12.8	11.7 12.0 12.2 12.1	12.1 12.4 12.5 12.5	11.5 11.8 11.7	10.8 10.9 10.9 10.7	11.2 11.2 11.2 11.2	===	=	≣	9.9 9.8 9.6	9.6 9.3 9.1	9.6
12	7 8 9	12.7 12.8 12.8	12.3 12.2 12.2	12.5 12.5 12.4	11.6 12.5 11.6	11.0 10.8 10.6	11.2 11.2 11.1	11.1 11.1 10.9	10.4 10.3 9.1	10.8 10.8 10.4	8.9 8.4 7.8	7.5 7.1 6.7	8.5 8.0 7.4
17 12.1 11.5 11.8 11.3 10.5 10.7 10.3 9.8 10.0 7.3 6.4 6.7 18 18 12.1 11.5 11.8 11.2 10.6 10.9 10.6 9.9 10.2 7.3 6.4 7.0 19 19 12.3 11.6 11.9 11.5 10.7 11.1 10.6 10.9 10.6 9.3 10.4 7.1 5.8 6.4 7.0 19 12.3 11.6 11.9 11.5 10.7 11.1 10.6 10.3 10.4 7.1 5.8 6.4 7.0 19 12.3 11.6 11.9 11.5 10.7 11.1 10.6 10.3 10.4 7.1 5.8 6.4 7.0 19 12.3 11.5 11.7 10.4 10.9 10.6 9.3 10.4 7.1 5.8 6.4 7.0 19 12.3 11.5 11.7 11.3 11.5 10.7 11.1 10.6 10.3 10.4 7.1 5.8 6.4 7.0 12.2 11.5 10.8 11.5 11.5 11.5 10.7 11.5 10.8 11.5 10.7 10.8 11.5 10.7 10.8 11.5 10.8	12 13 14	12.5 12.7 12.3	12.0 12.0 11.8	12.3 12.3 12.1	11.5 11.5 12.1	11.0 11.1 10.9	11.4 11.3 11.3	10.2 10.3 10.2	9.4 9.5 9.6	9.9 10.0 10.0	8.2 8.3 8.2	7.5 6.3	7.8 7.6 7.8
22 11.7 11.3 11.5 11.3 10.3 10.9 10.4 9.0 10.1 7.0 6.1 6.6 6.2 23 11.5 11.0 11.3 12.1 10.9 11.4 10.5 9.0 9.8 7.1 6.1 6.5 24 12.1 10.8 11.1 12.5 11.6 12.2 9.9 8.8 9.5 7.2 6.0 6.6 8.5 9.1 7.4 6.2 6.8 11.1 12.4 8.9 11.9 9.6 8.5 9.5 7.2 6.0 6.6 8.5 9.1 7.4 6.2 6.8 11.1 12.4 8.9 11.9 9.6 8.5 9.5 7.2 6.0 6.6 8.5 9.1 7.4 6.2 6.8 11.1 12.4 8.9 11.9 9.2 8.2 8.8 7.8 6.5 7.6 6.8 11.2 12.2 11.5 11.9 8.3 6.9 7.6 7.6 28 11.8 11.0 11.3 12.2 11.5 11.9 8.3 6.9 7.6 7.6 28 11.8 11.0 11.3 12.2 11.5 11.9 8.7 7.0 7.9 2.3 11.6 10.9 11.2 12.1 10.3 11.7 9.3 6.9 7.6 7.9 2.3 11.6 10.9 11.2 12.1 10.3 11.5 9.3 6.9 7.6 7.9 2.3 11.7 11.0 11.4 9.3 6.9 7.3 8.2 7.3 8.2 7.3 8.2 7.3 8.2 7.3 8.2 7.3 8.2 7.3 8.2 7.3 8.2 7.3 8.2 7.3 8.2 7.3 8.2 7.3 8.2 7.3 8.2 8.3 8.2 7.3 8.2 7.3 8.2 8.3 8.2 8.3 8.2 7.3 8.2 8.3 8.2 8.3 8.2 8.3 8.2 7.3 8.2 8.3 8.2 8.3 8.2 8.3 8.2 7.3 8.2 8.3 8.3 8.2 8.3 8.2 8.3 8.3 8.2 8.3 8.3 8.2 8.3 8.3 8.2 8.3 8.2 8.3 8.3 8.3 8.2 8.3 8.3 8.2 8.3 8.3 8.3 8.2 8.3 8.3 8.3 8.2 8.3 8.3 8.3 8.2 8.3 8.3 8.3 8.3 8.3 8.3 8.3 8.3 8.3 8.3	17 18 19	12.1 12.1 12.3	11.5 11.5 11.6	11.8 11.8 11.9	11.3 11.2 11.5	10.5 10.6 10.7	10.7 10.9 11.1	10.3 10.6 10.6	9.8 9.9 10.0	10.0 10.2 10.4	7.3 7.5 7.1	6.4 6.4 6.3	6.9 7.0 6.6
27 12.0 10.8 11.2 12.2 11.5 11.9 8.3 6.9 7.6 28 11.8 11.0 11.3 12.2 11.4 11.9 8.7 7.0 7.9 29 11.6 10.9 11.2 12.1 10.3 11.7 9.3 6.9 8.3 30 11.8 10.8 11.5 9.2 7.3 8.2 31 11.8 10.8 11.5 9.2 7.3 8.2 7.3 7.8 8.2 11.7 11.0 11.1 11.1 11.1 11.1 11.1 11.1	22 23 24	11.7 11.5 12.1	11.3 11.0 10.8	11.5 11.3 11.1	11.3 12.1 12.5	10.3 10.9 11.6	10.9 11.4 12.2	10.4 10.5 9.9	9.0 9.0 8.8	10.1 9.8 9.5	7.0 7.1 7.2	6.1 6.1 6.0	6.6 6.5 6.6
MONTH 12.8 10.8 11.9 13.1 7.6 11.3 11.1 8.2 10.0 9.9 5.8 7.7 DAY MAX MIN MEAN MAX MIN MAX MI	27 28 29 30	12.0 11.8 11.6	10.8 11.0 10.9	11.2 11.3 11.2	12.2 12.2 12.1 11.8	11.5 11.4 10.3 10.8	11.9 11.9 11.7 11.5	===	===	===	8.3 8.7 9.3 9.2	6.9 7.0 6.9 7.3	7.6 7.9 8.3 8.2
SEPTEMBER JULY AUGUST SEPTEMBER		12.8						11.1	8.2	10.0	9.9	5.8	
1 8.2 6.3 7.4 5.7 3.1 4.5 6.8 4.5 5.2 2 8.3 6.1 7.4 7.1 3.3 4.8 7.0 4.2 5.4 4.7 7.2 5.8 6.5 4.6 2.5 3.6 7.3 4.5 5.7 5.7 5.6 8.5 5.4 6.1 5.3 2.8 3.7 7.3 4.5 5.7 5.7 5.6 8.5 5.4 6.1 5.3 2.8 3.7 7.3 4.5 5.7 5.7 5.6 8.5 5.4 6.1 5.3 2.8 3.7 7.3 4.5 5.7 5.7 5.7 5.0 6.8 5.4 6.1 5.3 2.8 3.7 6.6 3.7 5.7 5.7 5.0 6.8 5.4 6.1 5.3 2.8 3.7 6.6 3.7 5.7 5.7 5.0 6.2 3.4 4.4 5.5 4.1 4.7 6.3 4.1 5.6 6.2 4.1 5.2 6.6 6.3 3.3 5.3 5.4 4.2 4.9 6.4 3.5 5.6 6.4 4.0 5.5 9 6.7 5.1 5.8 6.5 3.5 5.3 5.3 5.4 4.1 4.7 6.3 4.1 5.6 6.4 4.0 5.7 9 6.7 5.1 5.8 6.5 3.5 5.3 5.3 5.5 3.4 4.6 6.7 4.0 5.7 10 7.0 4.9 5.9 6.3 2.3 4.9 5.6 3.1 4.7 6.8 4.6 5.8 11 7.2 4.8 6.4 5.8 2.7 4.7 6.2 3.6 4.9 6.9 4.1 5.8 12 8.0 4.7 6.8 5.7 2.8 4.7 6.2 3.3 5.0 6.7 4.2 5.6 13 8.4 5.2 7.4 6.1 3.1 4.9 6.5 3.6 5.2 6.1 3.7 5.1 14 8.4 6.0 7.5 6.9 3.7 5.2 7.0 3.7 5.5 5.9 4.2 4.9 14.9 15.7 15 7.9 6.1 7.3 7.8 3.9 5.7 6.8 4.7 5.5 5.5 5.9 4.2 4.9 1.9 1.9 1.9 1.9 1.9 1.9 1.9 1.9 1.9 1	DAY	MAX		MEAN	MAX		MEAN	MAX			MAX		
2 8.3 6.1 7.4 7.1 3.3 4.8 7.4 4.0 5.3 3 4.8 7.7 7.7 6.4 7.1 5.2 3.5 4.3 7.0 4.2 5.4 7.7 5 6.8 5.4 6.1 5.2 3.5 4.3 7.3 4.5 5.7 5 6.8 5.4 6.1 5.3 2.8 3.6 6.6 3.7 5.7 5 6.8 5.4 6.1 5.3 2.8 3.6 6.6 3.7 5.7 5 6.8 5.4 6.1 5.3 2.8 3.6 6.6 3.7 5.7 6 7.1 5.1 5.9 5.0 3.0 3.9 5.3 4.2 4.9 6.4 3.5 5.6 6.8 6.2 4.1 5.2 6.6 3.3 5.3 5.3 5.4 3.3 4.5 6.4 4.0 5.5 9 6.7 5.1 5.8 6.5 3.5 5.3 5.3 5.4 3.3 4.5 6.4 4.0 5.5 9 6.7 5.1 5.8 6.5 3.5 5.3 5.3 5.4 3.3 4.5 6.4 4.0 5.7 10 7.0 4.9 5.9 6.3 2.3 4.9 5.6 3.1 4.7 6.8 4.6 5.8 11 7.2 4.8 6.4 5.8 2.7 4.9 5.6 3.1 4.7 6.8 4.6 5.8 11 7.2 4.8 6.4 5.8 2.7 4.9 6.2 3.6 4.9 6.9 4.1 5.8 12 8.0 4.7 6.8 5.7 2.8 4.7 6.2 3.6 4.9 6.9 4.1 5.8 12 8.0 4.7 6.8 5.7 2.8 4.7 6.2 3.6 5.2 6.1 3.7 5.1 14 8.4 6.0 7.5 6.9 3.7 5.2 7.0 3.7 5.5 5.9 4.2 4.9 15 7.9 6.1 7.3 7.8 3.9 5.7 6.8 4.7 5.5 5.9 4.2 4.9 15 7.9 6.1 7.3 7.8 3.9 5.7 6.8 4.7 5.5 5.2 4.0 4.5 18 8.2 5.4 6.9 6.9 6.3 3.4 5.1 6.8 4.6 5.6 5.7 4.3 5.1 18 8.2 5.4 6.9 6.0 3.4 5.1 6.8 4.6 5.6 5.7 4.3 5.1 18 8.2 5.4 6.9 6.0 3.4 5.1 6.8 4.6 5.6 5.7 4.3 5.1 18 8.2 5.4 6.9 6.3 3.7 5.2 7.0 6.8 4.6 5.6 5.7 4.3 5.1 18 8.2 5.4 6.9 6.0 3.4 5.1 6.8 4.6 5.6 5.7 4.3 5.1 18 8.2 5.4 6.9 6.0 3.4 5.1 6.8 4.6 5.6 5.7 4.3 5.1 18 8.2 5.4 6.9 6.0 3.4 5.1 6.8 4.6 5.6 5.7 4.3 5.1 19 7.6 6.0 6.9 5.7 3.7 5.0 6.5 4.5 5.4 5.4 4.0 4.9 19 20 7.9 5.8 6.8 6.8 6.4 3.2 5.1 6.8 2.9 5.2 5.3 3.7 4.8 12 7.9 5.6 6.8 5.7 5.3 3.7 5.0 6.5 4.5 5.4 5.4 4.0 4.9 19 20 7.9 5.8 6.8 6.8 6.4 3.2 5.1 6.8 2.9 5.2 5.3 3.7 4.8 12 7.9 5.6 6.5 5.5 3.4 4.3 5.1 6.7 5.2 5.0 6.5 5.5 3.4 4.0 4.3 3.2 5.1 6.8 3.5 5.5 5.2 5.3 3.7 4.8 12 7.9 5.6 6.8 5.7 5.3 5.9 3.4 5.1 6.7 5.2 5.0 6.8 3.5 5.5 5.2 5.3 3.7 4.8 12 7.9 5.6 6.8 5.7 5.3 5.9 3.4 5.1 6.8 3.5 5.5 5.2 5.2 5.3 3.7 4.8 12 7.9 5.6 6.8 5.7 5.3 5.9 5.1 6.8 3.5 5.5 5.2 5.2 5.3 3.7 4.8 12 7.9 5.6 6.8 5.7 5.9 3.7 5.0 6.5 5.5 5.2 5.9 3.2 5.5 5.2 5.9 3.2 5.5 5.2 5.9 3.2 5.5 5.2 5.2 5.3 3.7 5.0 6.8 3.9 5.9 5.0 6.8 3.8 5.8 5.9 5.0 6.8 3.8 5.9 5.0 6.8 3.8 5.9 5.0 6.8 3.8 5.9 5.0 6.8 3.9 3.9 3.9 5.0 6.8 3.9 3.9 3.9 5.0 6.9 3.1 3.9			JUNE			JULY			AUGUST			SEPTEME	BER
7 6.3	2 3 4	8.3 7.7 7.2	6.1 6.4 5.8	7.4 7.1 6.5	7.1 5.2 4.6	3.3 3.5 2.5	4.8 4.3 3.6	1444 <u>===</u> =	===	E	7.4 7.0 7.3	4.0 4.2 4.5	5.3 5.4 5.7
12 8.0 4.7 6.8 5.7 2.8 4.7 6.2 3.3 5.0 6.7 4.2 5.6 13 8.4 6.0 7.5 6.9 3.7 5.2 7.0 3.7 5.5 5.9 4.2 4.9 15 7.9 6.1 7.3 7.8 3.9 5.7 6.8 4.7 5.5 5.2 4.0 4.5 16 7.6 5.9 7.0 7.4 5.0 6.1 6.8 3.8 5.4 6.1 3.5 4.7 17 7.8 5.8 6.9 6.3 4.7 5.5 6.5 4.3 5.4 6.2 4.1 5.1 19 7.6 6.0 6.9 5.7 3.7 5.0 6.5 4.5 5.4 5.1 5.1 19 7.6 6.0 6.9 5.7 3.7 5.0 6.5 4.5 5.4 5.4 5.1 5.1 19 7.6 6.0 6.9 5.7 3.7 5.0 6.5 4.5 5.4 5.4 5.4 4.0 4.9 20 7.9 5.8 6.8 6.4 3.2 5.1 6.8 2.9 5.2 5.3 3.7 4.8 23 7.9 5.6 6.5 5.5 3.4 5.1 6.5 2.7 5.0 4.8 4.0 4.3 23 7.9 5.6 6.5 5.5 3.4 5.1 6.5 2.7 5.0 4.9 3.3 4.5 1.2 4.8 3.5 5.1 5.3 6.7 5.3 2.4 4.3 6.8 3.2 5.0 4.9 3.3 4.5 1.2 6.8 3.2 5.0 4.9 3.3 4.5 1.2 6.8 3.2 5.0 4.9 3.3 4.5 1.2 6.8 3.2 5.0 4.9 3.3 4.5 1.2 6.8 3.2 5.0 4.9 3.3 4.5 1.2 6.8 3.2 5.0 4.9 3.3 4.5 1.2 6.8 3.2 5.0 4.9 3.3 4.5 1.2 6.8 3.2 5.0 4.9 3.3 4.5 1.2 6.8 3.2 5.0 4.9 3.3 4.5 1.2 6.8 3.2 5.0 4.9 3.3 4.5 1.2 6.8 3.2 5.0 4.9 3.3 4.5 1.2 6.8 3.2 5.0 4.9 3.3 4.5 1.2 6.8 3.5 5.5 5.2 1.9 4.1 1.2 6.8 3.5 5.5 5.2 1.9 4.1 1.2 6.8 3.2 5.0 5.2 5.3 3.7 4.6 7.0 3.2 5.2 5.3 3.7 4.5 1.9 4.1 1.2 6.8 3.8 5.8 5.7 5.9 3.4 6.7 5.3 2.4 4.3 6.8 3.5 5.5 5.2 1.9 4.1 1.2 6.8 3.9 4.9 6.5 3.1 5.0 6.0 3.7 4.8 6.2 3.7 4.9 6.8 3.8 5.8 5.7 2.9 4.7 6.7 3.0 5.2 6.2 3.7 4.9 6.2 3.7 4.9 6.2 3.7 4.9 6.2 3.7 4.9 6.2 3.7 4.9 6.2 3.7 4.9 6.2 3.7 4.9 6.2 3.7 4.9 6.2 3.7 4.9 6.2 3.7 4.9 6.2 3.7 4.9 6.2 3.7 4.9 6.2 3.7 4.9 6.2 3.7 4.9 6.2 3.7 4.9 6.2 3.7 4.9 6.2 3.7 4.8 6.2 3.7 4.9 6.2 3.1 4.6 7.1 4.5 5.7 6.8 3.9 4.9 6.5 5.1 5.7 6.8 3.9 4.9 6.5 5.1 5.7 6.8 3.9 4.9 6.5 5.1 5.7 6.8 3.9 4.9 6.5 5.1 5.7 6.8 3.9 4.9 6.5 5.1 5.7 6.8 3.9 4.9 6.5 5.7 6	7 8 9	6.3 6.2 6.7	4.3 4.1 5.1	5.6 5.2 5.8	6.2 6.6 6.5	3.4 3.3 3.5	4.4 5.3 5.3	5.5 5.4 5.5	4.1 3.3 3.4	4.7 4.5 4.6	6.3 6.4 6.7	4.1 4.0 4.0	5.6 5.5 5.7
17 7.8 5.8 6.9 6.3 4.7 5.5 6.5 4.3 5.4 6.2 4.1 5.1 18 8.2 5.4 6.9 6.0 3.4 5.1 6.8 4.6 5.6 5.7 4.3 5.1 19 7.6 6.0 6.9 5.7 3.7 5.0 6.5 4.5 5.4 5.4 4.0 4.9 20 7.9 5.8 6.8 6.4 3.2 5.1 6.8 2.9 5.2 5.3 3.7 4.8 22 7.4 5.6 6.4 7.1 3.8 5.4 6.3 3.2 5.0 4.8 4.0 4.3 23 7.9 5.6 6.5 5.5 3.4 5.1 6.5 2.7 5.0 4.9 3.3 4.2 24 8.3 5.4 6.7 5.4 3.7 4.6 7.0 3.2 5.2 5.3 2.5 4.5 2.2 4.8 8.3 5.4 6.7 5.3 2.4 4.3 6.8 3.5 5.5 5.2 5.3 2.5 4.5 4.5 6.8 3.5 5.5 5.2 6.8 3.6 7.9 5.6 6.7 5.3 2.4 4.3 6.8 3.5 5.5 5.2 5.3 2.5 4.5 4.5 6.8 3.5 5.5 5.2 6.8 3.8 5.8 5.7 2.9 4.7 6.7 3.0 5.2 5.2 5.3 2.5 4.5 4.5 6.2 3.7 4.9 2.8 6.8 4.2 5.6 6.0 3.3 5.1 6.7 2.8 4.9 6.5 3.1 5.0 2.9 6.2 3.7 4.9 6.2 3.5 5.3 5.9 3.6 4.9 6.3 3.1 4.8 7.4 3.9 5.0 3.0 6.0 3.7 4.8 6.8 3.9 4.9 -	12 13 14	8.0 8.4 8.4	4.7 5.2 6.0	6.8 7.4 7.5	5.7 6.1 6.9	2.8 3.1 3.7	4.7 4.9 5.2	6.2 6.5 7.0	3.3 3.6 3.7	5.0 5.2 5.5	6.7 6.1 5.9	4.2 3.7 4.2	5.6 5.1 4.9
22 7.4 5.6 6.4 7.1 3.8 5.4 6.3 3.2 5.0 4.8 4.0 4.3 23 7.9 5.6 6.5 5.5 3.4 5.1 6.5 2.7 5.0 4.9 3.3 4.2 24 8.3 5.4 6.7 5.4 3.7 4.6 7.0 3.2 5.2 5.3 2.5 4.5 25 8.1 5.3 6.7 5.3 2.4 4.3 6.8 3.5 5.5 5.2 1.9 4.1 26 7.2 4.9 6.5 5.5 2.2 4.4 6.7 3.2 5.4 5.5 2.2 4.3 27 6.8 3.8 5.8 5.7 2.9 4.7 6.7 3.0 5.2 6.2 3.7 4.9 28 6.8 4.2 5.6 6.0 3.3 5.1 6.7 6.7 2.8 4.9 6.5 3.1 5.0 29 6.2 3.5 5.3 5.9 3.6 4.9 6.3 3.1 4.8 7.4 3.9 5.6 3.3 5.1 6.7 2.8 4.9 6.3 3.1 4.8 7.4 3.9 5.6 3.1 5.0 3.1 4.8 7.4 3.9 5.6 3.1 5.0 3.1 4.8 7.4 3.9 5.6 3.1 5.0 3.1 4.8 7.4 3.9 5.6 3.1 5.0 3.1 4.8 7.4 3.9 5.6 3.1 5.0 3.1 4.8 7.4 3.9 5.6 3.1 5.0 3.1 4.8 7.4 3.9 5.6 3.1 5.0 3.1 4.8 7.4 3.9 5.6 3.1 5.0 3.1 4.8 7.4 3.9 5.6 3.1 5.0 3.1 4.8 7.4 3.9 5.6 3.1 5.0 3.1 4.8 7.4 3.9 5.6 3.1 5.0 3.1 4.8 7.4 3.9 5.6 3.1 3.1 4.6 7.1 4.5 5.7 3.1 3.1 3.1 3.1 3.1 3.1 3.1 3.1 3.1 3.1	17 18 19	7.8 8.2 7.6	5.8 5.4 6.0	6.9 6.9	6.3	4.7 3.4	5.5 5.1 5.0	6.5 6.8 6.5	4.3 4.6 4.5	5.4 5.6 5.4	6.2 5.7 5.4	4.1 4.3 4.0	5.1 5.1 4.9
27 6.8 3.8 5.8 5.7 2.9 4.7 6.7 3.0 5.2 6.2 3.7 4.9 28 6.8 4.2 5.6 6.0 3.3 5.1 6.7 2.8 4.9 6.5 3.1 5.0 29 6.2 3.5 5.3 5.9 3.6 4.9 6.3 3.1 4.8 7.4 3.9 5.6 30 6.0 3.7 4.8 6.2 3.1 4.6 7.1 4.5 5.7 31 6.8 3.9 4.9 6.8 3.9 4.9 6.8 3.9 4.9 5.1	22 23 24	7.4 7.9 8.3	5.6 5.6 5.4	6.4 6.5 6.7	7.1 5.5 5.4	3.8 3.4 3.7	5.4 5.1 4.6	6.3 6.5 7.0	3.2 2.7 3.2	5.0 5.0 5.2	4.8	4.0 3.3 2.5	4.3 4.2 4.5
MONTH 8.4 3.5 6.5 7.8 2.2 4.8 7.0 2.6 5.1 7.4 1.9 5.1	27 28 29	6.8	3.8 4.2 3.5	5.8 5.6 5.3	5.7 6.0 5.9	2.9 3.3 3.6	4.7 5.1 4.9	6.7 6.7 6.3	3.0 2.8 3.1	5.2 4.9 4.8	6.5 7.4	3.7 3.1 3.9	5.0 5.6
	30												
	31							6.8	3.9	4.9			

01467030 DELAWARE RIVER AT TORRESDALE INTAKE, AT PHILADELPHIA, PA--Continued
PH (STANDARD UNITS), WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

			PH (STANDARD	UNITS), V	WATER YEAR	OCTOBER 1	979 TO SI	EPTEMBER 19	980		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		OCTOBE	R		NOVEMBE	ER		DECEMBI	ER		JANUAR	Y
1 2 3 4 5	6.5 6.7 6.7 6.7 6.8	6.4 6.4 6.6 6.6 6.6	6.5 6.7 6.7 6.6	6.9 6.9 6.8 6.7	6.7 6.7 6.6 6.6	6.7 6.7 6.7 6.7	6.2 6.3 6.2 6.2	6.1 6.2 6.1 6.1	6.2 6.2 6.2 6.2 6.2	7.1 6.9 6.7	6.8 6.7 6.6	7.0 6.8 6.7
6 7 8 9	6.7 6.6 6.7 6.8 6.6	6.6 6.5 6.5 6.5	6.7 6.6 6.6 6.6	6.7 6.8 6.8 6.6	6.6 6.5 6.5 6.4	6.7 6.6 6.6 6.5 6.5	6.2 6.4 6.4 6.3 6.3	6.1 6.2 6.2 6.1 6.1	6.1 6.2 6.2 6.2 6.2		===	==
11 12 13 14 15	7.0 7.1 6.9 7.1 7.0	6.4 6.8 6.7 6.9 6.4	6.7 6.9 6.9 6.9	6.8 6.9 6.6 6.9 6.7	6.3 6.5 6.5 6.5	6.5 6.6 6.6 6.6	6.7 6.8 6.7 6.7	6.1 6.6 6.6 6.6	6.4 6.6 6.7 6.7	===	===	==
16 17 18 19 20	6.7 6.7 6.9 6.8	6.6 6.5 6.6 6.6	6.6 6.6 6.6 6.6	6.9 6.8 6.7 6.9	6.6 6.6 6.5 6.5	6.7 6.6 6.6 6.6 6.6	5.8 6.8 6.7 6.6 6.6	6.6 6.5 6.4 6.4	6.7 6.7 6.6 6.5 6.5	===	==	==
21 22 23 24 25	6.8 6.7 6.9 6.8 7.1	6.6 6.6 6.6 6.7	6.6 6.6 6.6 6.8	6.7 6.6 6.6 6.7 6.7	6.6 6.5 6.6 6.5	6.6 6.6 6.6 6.6	6.4 6.4 6.3 6.3	6.3 6.2 6.2 6.1 6.1	6.4 6.3 6.2 6.2 6.3	===	===	===
26 27 28 29 30 31	7.1 7.1 6.9 7.0 6.9 6.8	6.7 6.7 6.7 6.7 6.7	6.8 6.8 6.7 6.7	6.7 6.8 6.9 6.8 6.4	6.6 6.6 6.7 6.4 6.2	6.7 6.8 6.5 6.3	6.5 6.5 6.5 6.4 7.2	6.2 6.3 6.3 6.3 6.3	6.4 6.3 6.4 6.4 6.8		=======================================	=======================================
MONTH	7.1	6.4	6.7	6.9	6.2	6.6	7.2	6.1	6.4	7.1	6.6	6.8
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		FEBRUAR	Y		MARCH	4		APRII			MAY	
1 2 3 4 5	===	===	==	7.5 7.5 7.5 7.5 7.5	7.4 7.4 7.4 7.4 7.4	7.4 7.4 7.4 7.4 7.4	==	==	==	7.2 7.3 7.2 7.2	7.1 7.1 7.0 7.1	7.2 7.2 7.1 7.1
6 7 8 9	7.1 7.2 7.3 7.2 7.3	7.0 7.0 7.0 7.0 7.0	7.1 7.1 7.1 7.1	7.5 7.5 7.5 7.4 7.7	7.4 7.4 7.1 7.3 7.3	7.4 7.4 7.4 7.4 7.4	7·3 7·3 7·2 7·1	7.1 7.1 7.0 7.0	7.2 7.2 7.1 7.1	7.3 7.2 7.1 7.2 7.3	7.1 6.7 7.0 7.0 6.9	7.2 7.1 7.1 7.1 7.1
11 12 13 14 15	7.1 7.0 6.9 6.9 7.0	6.7 6.8 6.8 6.8	6.9 6.8 6.8 6.8	7.4 7.5 7.6 7.5 7.4	7.1 7.4 7.4 7.3 7.2	7.4 7.4 7.5 7.4 7.4	7.1 7.2 7.1 7.2 7.2	7.0 6.9 7.0 7.0	7.1 7.1 7.0 7.1 7.1	7.2 7.1 7.1 7.2 7.1	7.1 7.0 7.0 7.0 7.1	7.1 7.1 7.0 7.1 7.1
16 17 18 19 20	6.9 7.0 7.0 7.0 7.1	6.8 6.7 6.8 6.7 6.7	6.9 6.9 6.9 6.9	7.4 7.4 7.4 7.3 7.4	7.3 7.3 7.3 7.2 7.2	7.4 7.4 7.3 7.3 7.2	7.2 7.2 7.2 7.1 7.2	7.1 7.1 7.0 7.0 6.9	7.1 7.1 7.1 7.1 7.1	7.1 7.1 7.1 7.0 7.1	7.0 6.8 7.0 6.9 6.9	7.1 7.0 7.0 7.0 7.0
21 22 23 24 25	7.3 7.4 7.3 7.4 7.4	6.8 6.9 7.2 7.3 7.3	7.0 7.1 7.3 7.3 7.3	7.2 7.2 7.1 7.1 7.1	7.0 7.0 6.9 6.8 6.9	7.2 7.1 7.0 6.9 7.0	7.2 7.2 7.3 7.3 7.3	7.1 7.1 7.1 7.1 7.1	7.1 7.1 7.2 7.2 7.1	7.1 7.1 7.1 7.1 7.1	7.0 7.0 7.0 6.9 7.0	7.0 7.0 7.0 7.0 7.0
26 27 28 29 30 31	7.4 7.6 7.5 7.5	7.2 7.3 7.3 7.3	7.4 7.4 7.4 7.4	7.2 7.2 7.2 7.2 7.2 7.2	6.9 7.0 7.0 6.9 7.1 7.1	7.0 7.1 7.1 7.1 7.1 7.2	7.2 	6.8	7.1 	7.2 7.2 7.3 7.4 7.4 7.2	7.0 7.0 7.0 7.0 7.1 7.1	7.1 7.1 7.2 7.2 7.2 7.2 7.1
MONTH	7.6	6.7	7.1	7.7	6.8	7.3	7.3	6.8	7.1	7.4	6.7	7.1

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DELAWARE RIVER BASIN

01467030 DELAWARE RIVER AT TORRESDALE INTAKE, AT PHILADELPHIA, PA--Continued PH (STANDARD UNITS), WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

MIN MEAN DAY MAX MAX MIN MEAN MAX MIN MEAN MAX MIN MEAN JUNE JULY AUGUST SEPTEMBER 7.2 7.3 7.2 7.1 7.1 7.1 7.1 6.9 7.1 6.9 6.6 6.4 7.0 6.6 6.8 == 6.3 2 6.9 6.7 6.9 ------34 ---7.0 6.7 6.8 ---5 6.9 7.0 6.9 6.7 6.8 6.8 6.6 6.7 6.5 6.4 6.4 6.5 6 7.1 7.0 6.8 6.7 6.8 6.7 6.9 6.7 6.6 7.0 7.0 6.9 6.7 6.6 6.5 8 6.8 6.9 7.0 6.7 6.9 6.6 6.7 6.5 6.6 6.6 6.8 6.9 6.6 6.8 6.5 10 7.1 7.0 6.9 6.7 6.8 6.6 6.4 6.8 6.7 6.8 11 7.1 6.9 7.0 6.9 6.6 6.6 6.4 6.5 6.8 6.5 6.6 12 13 14 7.2 7.3 7.2 6.9 6.9 6.9 7.0 6.9 7.1 6.7 6.7 6.4 6.6 6.7 6.6 6.6 6.6 6.6 7.0 7.1 6.6 6.8 6.8 6.5 6.6 15 7.2 7.0 7.2 6.7 6.8 6.7 16 17 7.1 7.1 7.2 6.9 7.1 6.9 6.9 6.4 6.5 6.9 6.6 6.7 7.0 6.8 6.7 6.7 6.5 18 7.0 6.8 6.7 6.7 6.6 6.8 6.5 19 7.1 6.9 7.0 6.8 6.6 6.7 6.5 6.9 6.5 6.7 6.6 6.9 7.0 6.6 6.7 6.7 6.7 7.0 21 6.9 7.0 7.0 6.6 6.7 6.7 6.4 6.5 6.7 6.6 6.6 22 6.8 6.9 6.9 7.0 6.9 6.8 6.7 6.6 6.8 6.6 6.4 6.3 6.4 6.5 6.6 6.5 6.6 23 24 7.1 6.8 6.6 6.7 6.6 6.8 25 6.9 7.0 6.7 6.5 6.6 6.7 6.5 6.5 6.8 6.8 6.9 7.1 7.0 7.1 7.0 7.0 6.5 6.7 26 27 28 6.5 6.5 6.6 6.3 6.8 7.0 6.7 6.6 6.6 6.5 6.7 6.6 6.9 6.7 6.6 29 6.9 6.4 6.9 6.7 6.8 6.6 6.7 6.6 6.6 6.7 6.6 6.8 ---------MONTH 6.7 6.8 7.3 7.0 7.2 6.5 6.8 6.3 6.5 7.1 6.3 6.7 YEAR 7.7 6.1 6.8

01467060 DELAWARE RIVER AT PALMYRA, NJ

LOCATION.--Lat 40°01'05", long 75°02'16", Philadelphia County, PA, Hydrologic Unit 02040202, on right bank opposite Palmyra, 0.5 mi (0.8 km) upstream from Tacony-Palmyra Bridge, 3.5 mi (5.6 km) downstream from Rancocas Creek, and at channel mile 107.45 (172.89 km).

DRAINAGE AREA. -- 7,850 mi2 (20,330 km2).

PERIOD OF RECORD. -- December 1962 to current year. Tidal volumes published from December 1962 to September 1970.

GAGE.--Water-stage recorder. Datum of gage is -10.00 ft (-3.048 m) National Geodetic Vertical Datum of 1929.

Gage-height record converted to elevation above or below (-) National Geodetic Vertical Datum of 1929 for publication.

REMARKS.--Summaries for months with short periods of no gage-height record have been estimated with negligible or no loss of accuracy unless otherwise noted. Some periods cannot be estimated and are noted by dash (--) lines.

EXTREMES FOR PERIOD OF RECORD. -- Maximum elevation, 6.92 ft (2.109 m) Apr. 15, 1979; minimum, -8.6 ft (-2.6 m) Dec. 31, 1962.

EXTREMES OUTSIDE PERIOD OF RECORD.--Maximum elevation known since 1899, 8.9 ft (2.7 m) Aug. 24, 1933, from profile furnished by Corps of Engineers, U.S. Army.

EXTREMES FOR CURRENT YEAR.--Maximum elevation, 6.92 ft (2.109 m) Apr. 15; minimum recorded, -4.00 ft (-1.219 m) Jan. 27.

Summaries of tide elevations during current year are as follows:

TIDE ELEVATIONS, IN FEET, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

		OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
Maximum	Elevation	6.36	6.35	5.46	6.37	5.31	4.61	6.92	5.57	5.19	5.41	5.59	
high tide	Date	5	26	20	17	16	4	15	14	8	28-30	22	
Minimum	Elevation	-2.87	-3.17	-3.00	-4.00	-3.30		-3.15			-2.99	-2.99	
low tide	Date	10	16	17	27	15,17		16			27	17	
Mean high t	cide	4.86	4.54	4.02	4.07	3.75		5.04				4.50	
Mean water	level	1.56	1.32	0.85	0.94	0.68		1.74	44			1.26	
Mean low ti	ide	-2.01	-2.18	-2.42	-2.26	-2.42		-1.76				-2.33	44

NOTE.--Missing or doubtful record on Mar. 14-31, Apr. 27 to May 9, June 14 to July 8, Sept. 1-30.

01467069 NORTH BRANCH PENNSAUKEN CREEK NEAR MOORESTOWN, NJ

LOCATION.--Lat 39°57'07", long 74°58'10", Burlington County, Hydrologic Unit 02040202, at bridge on Kings Highway, 200 ft (61 m) downstream from outlet of Strawbridge Lake, 0.6 mi (1.0 km) northwest of Moorestown Mall, 0.8 mi (1.3 km) southeast of Lenola, and 1.8 mi (2.9 km) southwest of Moorestown.

DRAINAGE AREA .-- 12.8 mi2 (33.2 km2).

WATER-QUALITY RECORDS

PERIOD OF RECORD. -- Water years 1976 to current year.

COOPERATION. -- Analyses of fecal coliform and fecal streptococci by the MPN method, and water-phase nutrients were performed by the New Jersey Department of Health, Division of Laboratories and Epidemiology.

WATER QUALITY DATA, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

DATE	TIME	STREAM- FLOW, INSTAN- TANEOUS (CFS)	SPE- CIFIC CON- DUCT- ANCE (MICRO- MHOS)	PH FIELD (UNITS)	TEMPER- ATURE, WATER (DEG C)	OXYGEN, DIS- SOLVED (MG/L)	OXYGEN DEMAND, BIOCHEM UNINHIB 5 DAY (MG/L)	COLI- FORM, FECAL, EC BROTH (MPN)	STREP- TOCOCCI FECAL (MPN)	HARD- NESS (MG/L AS CACO3)
OCT 10	1000	155	232	7.0	11.0	9.2	3.4	3500	>2400	55
FEB 05	1130	6.6	352	6.9	3.0	14.1	1.2	2	<2	95
MAR 24	1115	19	209	6.6	8.0	10.3	2.7	11	140	56
MAY 19	1130	8.8	257	6.6	18.5	6.9	3.0	240	240	71
JUL 17	0915	36	293	7.0	27.0	5.6	7.1	790	270	83
AUG										
19 SEP	1355	1.6	27.0	7.0	22.5	6.1	6.2	70	230	77
30	0910	1.4	312	7.0	18.0	8.0	8.3	80	20	77
DATE	CALCIUM DIS- SOLVED (MG/L AS CA)	MAGNE- SIUM, DIS- SOLVED (MG/L AS MG)	SODIUM, DIS- SOLVED (MG/L AS NA)	POTAS- SIUM, DIS- SOLVED (MG/L AS K)	BICAR- BONATE (MG/L AS HCO3)	CAR- BONATE (MG/L AS CO3)	ALKA- LINITY (MG/L AS CACO3)	SULFIDE TOTAL (MG/L AS S)	SULFATE DIS- SOLVED (MG/L AS SO4)	CHLO- RIDE, DIS- SOLVED (MG/L AS CL)
OCT 10	15	4.3	11	4.1	15	0	12		38	18
FEB 05	26	7.3	21	5.6	24	0	19		74	37
MAR 24	15	4.5	13	4.1	12	0	10		43	22
MAY 19	19	5.8	17	3.7	17	0	14	.0	49	27
JUL 17	22		16		28	0			60	26
AUG		6.7		6.6			23			
19 SEP	21	5.9	13	6.0	17	0	14	-	57	23
30	21	6.0	18	7.4	63	0	52		54	27
DATE	FLUO- RIDE, DIS- SOLVED (MG/L AS F)	SILICA, DIS- SOLVED (MG/L AS SIO2)	SOLIDS, RESIDUE AT 180 DEG. C DIS- SOLVED (MG/L)	NITRO- GEN, NO2+NO3 TOTAL (MG/L AS N)	NITRO- GEN, AMMONIA TOTAL (MG/L AS N)	NITRO- GEN, ORGANIC TOTAL (MG/L AS N)	NITRO- GEN, AM- MONIA + ORGANIC TOTAL (MG/L AS N)	NITRO- GEN, TOTAL (MG/L AS N)	PHOS- PHORUS, ORTHOPH OSPHATE TOTAL (MG/L AS PO4)	CARBON, ORGANIC TOTAL (MG/L AS C)
OCT 10	.2	8.0	118	<1.0	.660	.18	.84		.44	4.4
FEB 05	.3	14	201	1.0	1.600	.20	1.8	2.8	.01	3.4
MAR 24	.2	8.8	151	1.0	.400	4.3	4.7	5.7	.49	5.3
MAY	.2	10	153	.74	.460	1.4		2.6	1.4	7.2
19 JUL							1.9			
17 AUG	.3	9.8	190	.35	.600	3.0	3.6	4.0	1.3	6.1
19 SEP	.3	11	174	.26	E.460		1.6	1.9	.70	6.5
30	.3	9.3	178	.56	1.100	1.0	2.1	2.7	.83	8.3

01467069 NORTH BRANCH PENNSAUKEN CREEK NEAR MOORESTOWN, NJ--Continued WATER QUALITY DATA, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

DATE	TIME	ALUM- INUM, DIS- SOLVED (UG/L AS AL)	ARSENIC TOTAL (UG/L AS AS)	BERYL- LIUM, TOTAL RECOV- ERABLE (UG/L AS BE)	BORON, TOTAL RECOV- ERABLE (UG/L AS B)	CADMIUM TOTAL RECOV- ERABLE (UG/L AS CD)	CHRO- MIUM, TOTAL RECOV- ERABLE (UG/L AS CR)	COPPER, TOTAL RECOV- ERABLE (UG/L AS CU)
MAY 19	1130	30	4	0	30	0	10	5
DATE	IRON, TOTAL RECOV- ERABLE (UG/L AS FE)	LEAD, TOTAL RECOV- ERABLE (UG/L AS PB)	MANGA- NESE, TOTAL RECOV- ERABLE (UG/L AS MN)	MERCURY TOTAL RECOV- ERABLE (UG/L AS HG)	NICKEL, TOTAL RECOV- ERABLE (UG/L AS NI)	SELE- NIUM, TOTAL (UG/L AS SE)	ZINC, TOTAL RECOV- ERABLE (UG/L AS ZN)	PHENOLS (UG/L)
MAY 19	6600	16	210	.1	14	0	30	3

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DELAWARE RIVER BASIN

01467081 SOUTH BRANCH PENNSAUKEN CREEK AT CHERRY HILL, NJ

LOCATION.--Lat 39°56'30", long 75°00'05", Camden County, Hydrologic Unit 02040202, on left bank on downstream wingwall of bridge on Mill Road in Cherry Hill, 1.1 mi (1.8 km) south of Maple Shade and 3.8 mi (6.1 km) upstream from confluence with the North Branch.

DRAINAGE AREA .-- 9.16 mi2 (23.72 km2).

WATER-DISCHARGE RECORDS

PERIOD OF RECORD .-- October 1967 to September 1976, October 1977 to current year.

GAGE.--Water-stage recorder. Datum of gage is 8.12 ft (2.475 m) National Geodetic Vertical Datum of 1929.

REMARKS. -- Water-discharge records fair.

CAL YR 1979 TOTAL 8534.2 WTR YR 1980 TOTAL 5920.1

MEAN 16.2

MAX 169

MIN 3.7

AVERAGE DISCHARGE.--12 years, (water years 1968-76, 1978-80) 18.9 ft³/s (0.535 m³/s), 28.01 in/yr (711 mm/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 868 ft³/s (24.6 m³/s) Aug. 28, 1978, gage height, 10.19 ft (3.106 m); maximum gage height, 11.34 ft (3.456 m) Aug. 28, 1971; minimum discharge, 2.6 ft³/s (0.073 m³/s) Oct. 6, 9, 10, 11, 1970, gage height, 1.71 ft (0.521 m).

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 285 ft³/s (8.07 m³/s) Apr. 9, gage height, 6.10 ft (1.859 m), no peak above base of 300 ft³/s (8.50 m³/s); minimum, 2.9 ft³/s (0.082 m³/s) Sept. 28, 29.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

						MEAN VA	LUES						
DA Y	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	
1 2 3 4 5	66 25 68 17 21	10 10 48 19 13	12 11 11 11 11	11 11 11 11	11 11 9.6 9.0 9.2	9.2 8.4 8.5 8.6	110 30 21 70 29	64 21 16 14 13	8.0 15 20 12 7.3	6.6 5.6 17 7.6 6.9	8.4 7.2 11 17 12	4.5 4.0 4.2 5.0 6.2	
6 7 8 9	18 14 14 16 117	12 12 11 11 11	16 29 14 12 12	11 13 14 12	9.1 9.0 9.9 9.0 8.8	10 9.2 13 15	19 17 15 113 56	14 13 24 13	6.9 8.0 8.5 7.7	10 5.2 5.0 4.9	36 11 7.6 6.2 5.8	4.9 4.6 4.9 5.1 5.0	
11 12 13 14 15	37 28 26 18	30 52 20 24 16	12 12 28 19 13	103 30 15 13	8.9 9.0 8.5 8.6 8.8	22 10 41 100 22	23 18 16 20 24	12 21 30 13 11	6.9 6.6 6.2 5.9 8.7	5.4 4.9 4.6 4.9	5.7 10 6.6 6.1 6.8	4.6 4.8 4.7 4.7 5.0	
16 17 18 19 20	14 13 12 12 12	15 14 13 13	13 16 13 13	13 12 15 46 17	23 12 9.6 9.4 9.3	15 14 19 13	16 14 14 13 13	10 9.6 23 14 20	6.4 6.1 6.0 6.0	13 13 5.8 5.1 5.0	6.4 6.0 6.4 6.8 6.1	4.8 4.9 43 5.7 4.7	
21 22 23 24 25	11 12 11 18 12	12 12 11 12 12	14 18 19 18 32	13 15 28 15 12	9.8 19 27 14 12	117 45 22 20 120	14 14 13 13	32 15 11 9.9 9.1	5.5 5.3 5.5 6.1 5.5	5.1 6.3 15 6.9 5.1	5.5 5.0 5.0 4.3 4.5	4.4 4.7 4.5 4.1	
26 27 28 29 30 31	11 11 14 12 11	45 22 15 14 12	18 15 13 12 12 11	12 11 12 13 12 12	9.6 9.4 8.9	37 18 15 64 32	12 22 37 31 36	8.1 8.1 7.8 7.5 8.0 7.2	5.2 5.1 4.9 12 30	4.9 4.6 4.8 23 13 7.4	4.7 4.6 4.4 5.0 4.5 5.0	5.5 4.0 3.7 3.9 4.0	
TOTAL MEAN MAX MIN CFSM IN.	697 22.5 117 11 2.46 2.83	535 17.8 52 10 1.94 2.17	474 15.3 32 11 1.67 1.92	577 18.6 103 11 2.03 2.34	323.4 11.2 27 8.5 1.22 1.31	1033.9 33.4 169 8.4 3.65 4.20	855 28.5 113 12 3.11 3.47	490.3 15.8 64 7.2 1.73 1.99	266.3 8.88 30 4.9 .97 1.08	242.5 7.82 23 4.6 .85 .98	241.6 7.79 36 4.3 .85	184.1 6.14 43 3.7 .67	

CFSM 2.56 CFSM 1.77

01467081 SOUTH BRANCH PENNSAUKEN CREEK AT CHERRY HILL, NJ--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD. -- Water years 1970-73, 1975 to current year.

COOPERATION.--Analyses of fecal coliform and fecal streptococci by the MPN method, and water-phase nutrients were performed by the New Jersey Department of Health, Division of Laboratories and Epidemiology.

WATER QUALITY DATA, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

DATE	TIME	STREAM- FLOW, INSTAN- TANEOUS (CFS)	SPE- CIFIC CON- DUCT- ANCE (MICRO- MHOS)	PH FIELD (UNITS)	TEMPER- ATURE, WATER (DEG C)	OXYGEN, DIS- SOLVED (MG/L)	OXYGEN DEMAND, BIOCHEM UNINHIB 5 DAY (MG/L)	COLI- FORM, FECAL, EC BROTH (MPN)	STREP- TOCOCCI FECAL (MPN)	HARD- NESS (MG/L AS CACO3)
OCT 04	1030	19	269	6.4	19.0	6.9	8.6	4900	3300	70
JAN										
22 APR	1100	12	321	7.0	5.0	10.0	7.5	>2400	350	83
07 JUN	1200	17	290	7.0	12.5	9.4	2.7	490	140	86
JUL	1245	6.7	305	7.2	16.5	6.4	7.5	1300	>2400	80
17 AUG	1300	7.9	235	7.1	25.0	4.5	9.0	16000	16000	60
19 SEP	1210	5.3	325	7.5	21.5	5.1	7.0	16000	2400	86
30	1130	3.4	425	7.5	18.0	5.0	6.0	160000	1100	81
DATE	CALCIUM DIS- SOLVED (MG/L AS CA)	MAGNE- SIUM, DIS- SOLVED (MG/L AS MG)	SODIUM, DIS- SOLVED (MG/L AS NA)	POTAS- SIUM, DIS- SOLVED (MG/L AS K)	BICAR- BONATE (MG/L AS HCO3)	CAR- BONATE (MG/L AS CO3)	ALKA- LINITY (MG/L AS CACO3)	SULFIDE TOTAL (MG/L AS S)	SULFATE DIS- SOLVED (MG/L AS SO4)	CHLO- RIDE, DIS- SOLVED (MG/L AS CL)
OCT 04	19	5.4	13	5.8	28	0	23		66	17
JAN 22	22	6.9	23	6.2	45	0	37		57	31
APR 07	23	6.9	16	5.2	35	0	29		55	24
JUN 11	21	6.7	25	7.7	68	0	56	.0	43	21
JUL 17	16	4.8	12	6.3	44	0	36		38	14
AUG 19	23		29	11		0	74		48	30
SEP		6.9			90					
30	22	6.4	36	11	100	0	82		46	34
DATE	FLUO- RIDE, DIS- SOLVED (MG/L AS F)	SILICA, DIS- SOLVED (MG/L AS SIO2)	SOLIDS, RESIDUE AT 180 DEG. C DIS- SOLVED (MG/L)	NITRO- GEN, NO2+NO3 TOTAL (MG/L AS N)	NITRO- GEN, AMMONIA TOTAL (MG/L AS N)	NITRO- GEN, ORGANIC TOTAL (MG/L AS N)	NITRO- GEN, AM- MONIA + ORGANIC TOTAL (MG/L AS N)	NITRO- GEN, TOTAL (MG/L AS N)	PHOS- PHORUS, ORTHOPH OSPHATE TOTAL (MG/L AS PO4)	CARBON, ORGANIC TOTAL (MG/L AS C)
OCT 04	.2	13	159	2.0	5.200	25			1.1	16
JAN 22	.2	14	212	2.9	E1.600		E1.9		2.0	
APR 07	.2	12	182	2.6	.820	1.4	2.2	4.8	1.4	5.5
JUN 11	.2	14	196	2.4	2.100	2.1	4.2	6.6	2.7	6.7
JUL 17	.2	9.0	144	1.3	1.500	1.3	2.8	4.1	2.4	8.5
AUG 19	.3	16	223	2.4	4.000	1.8	5.8	8.2	5.7	5.2
SEP										
30	. 4	16	237	2.3	3.700	1.5	5.2	7.5	7.0	9.1
	DATE	TIME	ALUM- INUM, DIS- SOLVED (UG/L AS AL)	ARSENIC TOTAL (UG/L AS AS)	BERYL- LIUM, TOTAL RECOV- ERABLE (UG/L AS BE)	BORON, TOTAL RECOV- ERABLE (UG/L AS B)	CADMIUM TOTAL RECOV- ERABLE (UG/L AS CD)	CHRO- MIUM, TOTAL RECOV- ERABLE (UG/L AS CR)	COPPER, TOTAL RECOV- ERABLE (UG/L AS CU)	
	JUN 11	1245	10	2	0	170	0	10	8	

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DELAWARE RIVER BASIN

01467081 SOUTH BRANCH PENNSAUKEN CREEK AT CHERRY HILL, NJ--Continued WATER QUALITY DATA, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

DATE	IRON, TOTAL RECOV- ERABLE (UG/L AS FE)	LEAD, TOTAL RECOV- ERABLE (UG/L AS PB)	MANGA- NESE, TOTAL RECOV- ERABLE (UG/L AS MN)	MERCURY TOTAL RECOV- ERABLE (UG/L AS HG)	NICKEL, TOTAL RECOV- ERABLE (UG/L AS NI)	SELE- NIUM, TOTAL (UG/L AS SE)	ZINC, TOTAL RECOV- ERABLE (UG/L AS ZN)	PHENOLS
JUN 11	2000	6	120	.2	6	0	30	

01467120 COOPER RIVER AT NORCROSS ROAD AT LINDENWOLD, NJ

LOCATION.--Lat 39°49'43", long 74°58'55", Camden County, Hydrologic Unit 02040202, at bridge on Norcross Road in Lindenwold, 50 ft (15 m) downstream from outflow of Linden Lake, 1.1 mi (1.8 km) southwest of Gibbstown, and 1.7 mi (2.8 km) south of Glendale.

DRAINAGE AREA. -- 1.13 mi2 (2.93 km2).

WATER-QUALITY RECORDS

PERIOD OF RECORD. -- Water years 1976 to current year.

COOPERATION.--Analyses of fecal coliform and fecal streptococci by the MPN method, and water-phase nutrients were performed by the New Jersey Department of Health, Division of Laboratories and Epidemiology.

WATER QUALITY DATA, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

DATE	TIME	STREAM- FLOW, INSTAN- TANEOUS (CFS)	SPE- CIFIC CON- DUCT- ANCE (MICRO- MHOS)	PH FIELD (UNITS)	TEMPER- ATURE, WATER (DEG C)	OXYGEN, DIS- SOLVED (MG/L)	OXYGEN DEMAND, BIOCHEM UNINHIB 5 DAY (MG/L)	COLI- FORM, FECAL, EC BROTH (MPN)	STREP- TOCOCCI FECAL (MPN)	HARD- NESS (MG/L AS CACO3)
FEB			-					40	40	
04 APR	1100	.91	82	7.0	4.5	14.1	1.0	<2	<2	23
22 JUN	0920	1.1	77	7.0	15.5	9.5		<20	11	19
12 JUL	1000	.91	65	6.8	18.0	8.7	1.8	50		19
15	1030	.50	68	7.1	26.0	7.6	2.1	11	46	22
AUG 11	0900	.30	76	6.9	26.5	5.6	1.8	20	240	22
SEP 22	1000	.20	78	7.2	24.5	6.7	2.8	49	5	24
DATE	CALCIUM DIS- SOLVED (MG/L AS CA)	MAGNE- SIUM, DIS- SOLVED (MG/L AS MG)	SODIUM, DIS- SOLVED (MG/L AS NA)	POTAS- SIUM, DIS- SOLVED (MG/L AS K)	BICAR- BONATE (MG/L AS HCO3)	CAR- BONATE (MG/L AS CO3)	ALKA- LINITY (MG/L AS CACO3)	SULFIDE TOTAL (MG/L AS S)	SULFATE DIS- SOLVED (MG/L AS SO4)	CHLO- RIDE, DIS- SOLVED (MG/L AS CL)
FEB 04	7.2	1.2	5.1	1.3	13	0	11		13	8.8
APR 22	5.7	1.1	5.4	1.4	12	0	10		11	8.6
JUN 12	6.1	1.0	4.0	.9	17	0	14	.5	7.1	6.2
JUL 15	6.9	1.1	3.3	.9	34	0	28		5.4	6.4
AUG 11	6.8	1.1	3.5	1.3	22	0	18		5.5	6.7
SEP					22	·	10			
22	8.0	1.0	3.9	1.8				.0	5.5	6.9
DATE	FLUO- RIDE, DIS- SOLVED (MG/L AS F)	SILICA, DIS- SOLVED (MG/L AS SIO2)	SOLIDS, RESIDUE AT 180 DEG. C DIS- SOLVED (MG/L)	NITRO- GEN, NO2+NO3 TOTAL (MG/L AS N)	NITRO- GEN, AMMONIA TOTAL (MG/L AS N)	NITRO- GEN, ORGANIC TOTAL (MG/L AS N)	NITRO- GEN, AM- MONIA + ORGANIC TOTAL (MG/L AS N)	NITRO- GEN, TOTAL (MG/L AS N)	PHOS- PHORUS, ORTHOPH OSPHATE TOTAL (MG/L AS PO4)	CARBON, ORGANIC TOTAL (MG/L AS C)
FEB 04	.1	1.4	51	E.12	E.160		E.60		<.01	
APR 22	.1	2.0	50	.27	.100	.16	.26	.53	.03	5.8
JUN 12	.1	1.3	48	.22	.340	.42	.76	.98	.13	5.9
JUL 15	.1	1.4	60	<.05	.140	.46	.60		.12	6.3
AUG 11	.1	5.2	68	<.05	.340	.59	.93		.18	7.5
SEP		200								
22	. 1	. 4	74	<.05	.040	.58	.62		.09	6.8

DELAWARE RIVER BASIN

01467120 COOPER RIVER AT NORCROSS ROAD AT LINDENWOLD, NJ--Continued WATER QUALITY DATA, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

DATE	TIME	ALUM- INUM, DIS- SOLVED (UG/L AS AL)	ARSENIC TOTAL (UG/L AS AS)	BERYL- LIUM, TOTAL RECOV- ERABLE (UG/L AS BE)	BORON, TOTAL RECOV- ERABLE (UG/L AS B)	CADMIUM TOTAL RECOV- ERABLE (UG/L AS CD)	CHRO-MIUM, TOTAL RECOV- ERABLE (UG/L AS CR)	COPPER, TOTAL RECOV- ERABLE (UG/L AS CU)
JUN	1000				- 00			100
12 SEP	1000	40	0	0	20	0	10	
22	1000	20	2	0	40	0	10	2
	IRON, TOTAL	LEAD, TOTAL	MANGA- NESE, TOTAL	MERCURY TOTAL	NICKEL, TOTAL	SELE-	ZINC, TOTAL	
	RECOV- ERABLE (UG/L	RECOV- ERABLE (UG/L	RECOV- ERABLE (UG/L	RECOV- ERABLE (UG/L	RECOV- ERABLE (UG/L	NIUM, TOTAL (UG/L	RECOV- ERABLE (UG/L	PHENOLS
DATE	AS FE)	AS PB)	AS MN)	AS HG)	AS NI)	AS SE)	AS ZN)	(UG/L)
JUN								
12 SEP	2300	4	30	.2	2	0	10	1
22	840	2	30	<.1	2	0	20	0

01467130 COOPER RIVER AT KIRKWOOD, NJ

LOCATION.--Lat 39°50'11", long 75°00'06", Camden County, Hydrologic Unit 02040202, at outlet of Kirkwood Lake in Kirkwood, 100 ft (30 m) east of tracks of Pennsylvania-Reading Seashore Lines, and 1.0 mi (1.6 km) north of Laurel

DRAINAGE AREA. -- 5.14 mi2 (13.31 km2).

WATER-QUALITY RECORDS

PERIOD OF RECORD .-- Water years 1964, 1967, 1976 to current year.

COOPERATION.--Analyses of fecal coliform and fecal streptococci by the MPN method, and water-phase nutrients were performed by the New Jersey Department of Health, Division of Laboratories and Epidemiology.

WATER QUALITY DATA, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

	DATE	TIME	SPE- CIFIC CON- DUCT- ANCE (MICRO- MHOS)	PH FIELD (UNITS)	TEMPER- ATURE, WATER (DEG C)	OXYGEN, DIS- SOLVED (MG/L)	OXYGEN DEMAND, BIOCHEM UNINHIB 5 DAY (MG/L)	COLI- FORM, FECAL, EC BROTH (MPN)	STREP- TOCOCCI FECAL (MPN)	HARD- NESS (MG/L AS CACO3)	CALCIUM DIS- SOLVED (MG/L AS CA)
	JAN 29	1330	321	7.2	5.0	11.9	7.9	<2	<2	47	14
	APR										
	22 JUN	1045	285	8.1	18.0	11.7		3500	49	40	12
	JUL	1145	293	7.4	19.5	7.3	9.6	150		43	13
	15 AUG	1230	377	7.8	26.5	8.8	8.2	.<20	2	49	15
	11	1040	332	7.6	28.5	7.3	9.4	490	540	46	14
	SEP 29	1050	455	8.1	18.0	11.3	8.2	110	39	56	17
	DATE	MAGNE- SIUM, DIS- SOLVED (MG/L AS MG)	SODIUM, DIS- SOLVED (MG/L AS NA)	POTAS- SIUM, DIS- SOLVED (MG/L AS K)	BICAR- BONATE (MG/L AS HCO3)	CAR- BONATE (MG/L AS CO3)	ALKA- LINITY (MG/L AS CACO3)	SULFIDE TOTAL (MG/L AS S)	SULFATE DIS- SOLVED (MG/L AS SO4)	CHLO- RIDE, DIS- SOLVED (MG/L AS CL)	FLUO- RIDE, DIS- SOLVED (MG/L AS F)
	JAN 29	2.9	27	6.9	71	0	58		24	41	.1
	APR 22	2.5	25	5.9	66	0	54		20	34	.1
	JUN 12	2.6	26	6.0	81	0	66		16	34	.1
	JUL										
	15 AUG	2.9	33	8.8	83	0	68		16	50	.2
	SEP	2.7	28	8.0	74	0	61		20	42	.2
	29	3.3	40	11	100	0	82	.0	24	67	.2
	DAT	(MG AS	- AT 1 VED DEC /L DI SOL	IDUÉ NI 180 G G. C NO2 IS- TO LVED (M	EN, GE +NO3 AMMO TAL TOT	EN, GE ONIA ORGA TAL TOT G/L (MC	TAL TOT	AM- IA + NIT ANIC GE TAL TOT G/L (MC	G/L (MG.	US, OPH CARBO ATE ORGAN AL TOTA /L (MG/	NIĆ AL 'L
	JAN 29.		8.3	147	.32 E8.	. 300		9.9 10) 1	.4 13	3
	APR 22.		6.0	138		.900		7.8			5.2
	JUN 12.		7.2	142		.000 12				.5 10	
	JUL 15.		8.8	190	.30 7.	. 200	1.8 12	2 12	2 1	.6 8	3.8
	AUG 11.		6.0	154	. 35 4.	400	3.5	7.9	3.2 1	.6 13	3
	SEP 29.	••	.1	208	.35 9.	900 6	5.1 10	5 16	5 1	.0 11	
DATI	TIM	NIT GEN, + OR TOT BOT E (MG AS	NH4 INC G. GAN IN TOT MAT BOT /KG (G/	OR- INO IIC, ORG IN TOT MAT BOT //KG (G	ANIC INU . IN DI MAT SOL	IS- ARSE VED TOT G/L (UC	TAL TER	TAL LIU BOT - TOT MA - REC RIAL ERA G/G (UC	COV- RECO	AL TOTA OV- RECC BLE ERAB /L (UG/	L FM BOT- DV- TOM MA- BLE TERIAL 'L (UG/G
SEP 29.	105	0 60	0	.1	4.3	990	4	0	0	350	0 <10

01467130 COOPER RIVER AT KIRKWOOD, NJ--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979

DATE	CHRO-MIUM, TOTAL RECOV- ERABLE (UG/L AS CR)	CHRO- MIUM, RECOV. FM BOT- TOM MA- TERIAL (UG/G)	COBALT, RECOV. FM BOT- TOM MA- TERIAL (UG/G AS CO)	COPPER, TOTAL RECOV- ERABLE (UG/L AS CU)	COPPER, RECOV. FM BOT- TOM MA- TERIAL (UG/G AS CU)	IRON, TOTAL RECOV- ERABLE (UG/L AS FE)	IRON, RECOV. FM BOT- TOM MAC- TERIAL (UG/G AS FE)	LEAD, TOTAL RECOV- ERABLE (UG/L AS PB)	LEAD, RECOV. FM BOT- TOM MAC- TERIAL (UG/G AS PB)	MANGA- NESE, TOTAL RECOV- ERABLE (UG/L AS MN)	MANGA- NESE, RECOV. FM BOT- TOM MA- TERIAL (UG/G)
SEP 29	10	<10	<10	5	<10	1100	1600	10	20	50	8
	MERCURY TOTAL	MERCURY RECOV. FM BOT-	NICKEL,	NICKEL, RECOV. FM BOT-	SELE-	SELE- NIUM, TOTAL	ZINC, TOTAL	ZINC, RECOV. FM BOT-		PCB,	PCN, TOTAL
	RECOV- ERABLE (UG/L	TOM MA- TERIAL (UG/G	RECOV- ERABLE (UG/L	TOM MA- TERIAL (UG/G	NIUM, TOTAL (UG/L	IN BOT- TOM MA- TERIAL	RECOV- ERABLE (UG/L	TOM MA- TERIAL (UG/G	PHENOLS	IN BOT- TOM MA- TERIAL	IN BOT- TOM MA- TERIAL
DATE	AS HG)	AS HG)	AS NI)	AS NI)	AS SE)	(UG/G)	AS ZN)	AS ZN)	(UG/L)	(UG/KG)	(UG/KG)
SEP 29	<.1	.00	6	<10	0	0	20	. 25	2	22	.0
DATE	ALDRIN, TOTAL IN BOT- TOM MA- TERIAL (UG/KG)	CHLOR-DANE, TOTAL IN BOT- TOM MA- TERIAL (UG/KG)	DDD, TOTAL IN BOT- TOM MA- TERIAL (UG/KG)	DDE, TOTAL IN BOT- TOM MA- TERIAL (UG/KG)	DDT, TOTAL IN BOT- TOM MA- TERIAL (UG/KG)	DI- AZINON, TOTAL IN BOT- TOM MA- TERIAL (UG/KG)	DI- ELDRIN, TOTAL IN BOT- TOM MA- TERIAL (UG/KG)	ENDO- SULFAN, TOTAL IN BOT- TOM MA- TERIAL (UG/KG)	ENDRIN, TOTAL IN BOT- TOM MA- TERIAL (UG/KG)	ETHION, TOTAL IN BOT- TOM MA- TERIAL (UG/KG)	HEPTA- CHLOR, TOTAL IN BOT- TOM MA- TERIAL (UG/KG)
SEP											
29	.0	12	9.8	.0	1.0	.0	.7	.0	.0	.0	.0
DATE	HE PTA- CHLOR EPOXIDE TOT. IN BOTTOM MATL. (UG/KG)	LINDANE TOTAL IN BOT- TOM MA- TERIAL (UG/KG)	MALA- THION, TOTAL IN BOT- TOM MA- TERIAL (UG/KG)	METH- OXY- CHLOR, TOT. IN BOTTOM MATL. (UG/KG)	METHYL PARA- THION, TOT. IN BOTTOM MATL. (UG/KG)	METHYL TRI- THION, TOT. IN BOTTOM MATL. (UG/KG)	MIREX, TOTAL IN BOT- TOM MA- TERIAL (UG/KG)	PARA- THION, TOTAL IN BOT- TOM MA- TERIAL (UG/KG)	PER- THANE IN BOTTOM MATERIL (UG/KG)	TOXA- PHENE, TOTAL IN BOT- TOM MA- TERIAL (UG/KG)	TRI- THION, TOTAL IN BOT- TOM MA- TERIAL (UG/KG)
SEP 29	.0	.0	.0	.0	.0	.0	.0	.0	.00	0	.0

01467140 COOPER RIVER AT LAWNSIDE, NJ

LOCATION.--Lat 39°52'14", long 75°00'59", Camden County, Hydrologic Unit 02040202, at bridge on Woodcrest Road in Lawnside, 0.2 mi (0.3 km) upstream from the New Jersey Turnpike, and 1.7 mi (2.7 km) upstream from Tindale Run.

DRAINAGE AREA .-- 12.8 mi2 (33.2 km2).

WATER-QUALITY RECORDS

PERIOD OF RECORD. -- Water years 1964-65, 1976 to current year.

COOPERATION.--Analyses of fecal coliform and fecal streptococci by the MPN method, and water-phase nutrients were performed by the New Jersey Department of Health, Division of Laboratories and Epidemiology.

WATER QUALITY DATA, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

DATE	TIME	STREAM- FLOW, INSTAN- TANEOUS (CFS)	SPE- CIFIC CON- DUCT- ANCE (MICRO- MHOS)	PH FIELD (UNITS)	TEMPER- ATURE, WATER (DEG C)	OXYGEN, DIS- SOLVED (MG/L)	OXYGEN DEMAND, BIOCHEM UNINHIB 5 DAY (MG/L)	COLI- FORM, FECAL, EC BROTH (MPN)	STREP- TOCOCCI FECAL (MPN)	HARD- NESS (MG/L AS CACO3)
OCT 03	1300	160	148	6.3	21.5	9.6	7.2	24000	>24000	36
JAN 29	1100	4.0	305	7.1	5.5	9.2	14	220	130	52
APR 07	0900	7.1	236	7.1	13.0		9.0	130	49	52
JUN	1030	4.2	304	7.2	17.0	5.5	9.6	310	230	46
JUL JUL										
17 AUG	1030	2.3	350	7.5	23.5	3.3	13	800	3500	56
20 SEP	1045	2.6	360	7.3	22.5	4.3	7.7	13000	700	56
22	1215		425	7.2	24.0	1.7	8.3	4900	35000	57
DATE	CALCIUM DIS- SOLVED (MG/L AS CA)	MAGNE- SIUM, DIS- SOLVED (MG/L AS MG)	SODIUM, DIS- SOLVED (MG/L AS NA)	POTAS- SIUM, DIS- SOLVED (MG/L AS K)	BICAR- BONATE (MG/L AS HCO3)	CAR- BONATE (MG/L AS CO3)	ALKA- LINITY (MG/L AS CACO3)	SULFIDE TOTAL (MG/L AS S)	SULFATE DIS- SOLVED (MG/L AS SO4)	CHLO- RIDE, DIS- SOLVED (MG/L AS CL)
OCT 03	10	2.6	6.9	4.5	28	0	23	.0	20	10
JAN 29	15	3.6	24	8.0	72	0	59		31	30
APR										
07 JUN	15	3.5	15	5.2	54	0	44		28	20
JUL	13	3.2	28	7.3	83	0	68		24	31
17 AUG	16	4.0	28	9.3	98	0	80		25	33
20 SEP	16	3.9	30	10	104	0	85		30	39
22	17	3.6	34	11				.0	28	41
DATE	FLUO- RIDE, DIS- SOLVED (MG/L AS F)	SILICA, DIS- SOLVED (MG/L AS SIO2)	SOLIDS, RESIDUE AT 180 DEG. C DIS- SOLVED (MG/L)	NITRO- GEN, NO2+NO3 TOTAL (MG/L AS N)	NITRO- GEN, AMMONIA TOTAL (MG/L AS N)	NITRO- GEN, ORGANIC TOTAL (MG/L AS N)	NITRO- GEN, AM- MONIA + ORGANIC TOTAL (MG/L AS N)	NITRO- GEN, TOTAL (MG/L AS N)	PHOS- PHORUS, ORTHOPH OSPHATE TOTAL (MG/L AS PO4)	CARBON, ORGANIC TOTAL (MG/L AS C)
OCT					0.000					
03 JAN	.2	5.8	90	•55	2.300	77			1.5	8.0
29 APR	.2	12	152	.66	E7.400		9.2	9.9	5.0	18
07 JUN	.2	9.7	128	.64	3.400	2.6	6.0	6.6	3.3	13
11 JUL	.2	11	147	.55	5.200	1.1	6.3	6.8	4.0	11
17	.3	13	177	.24	6.700	2.3	9.0	9.2	5.6	9.7
AUG 20	.3	15	187	.69	6.200	1.1	7.3	8.0	6.4	8.5
SEP 22	.3	12	215	.25	7.300	.50	7.8	8.0	5.1	11

01467140 COOPER RIVER AT LAWNSIDE, NJ--Continued WATER QUALITY DATA, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

DATE	TIME	ALUM- INUM, DIS- SOLVED (UG/L AS AL)	ARSENIC TOTAL (UG/L AS AS)	BERYL- LIUM, TOTAL RECOV- ERABLE (UG/L AS BE)	BORON, TOTAL RECOV- ERABLE (UG/L AS B)	CADMIUM TOTAL RECOV- ERABLE (UG/L AS CD)	CHRO- MIUM, TOTAL RECOV- ERABLE (UG/L AS CR)	COPPER, TOTAL RECOV- ERABLE (UG/L AS CU)
OCT							-	
03 SEP	1300	40	5	10	60	0	20	11
22	1215	20	5	0	280	4	10	15
	IRON, TOTAL RECOV-	LEAD, TOTAL RECOV-	MANGA- NESE, TOTAL RECOV-	MERCURY TOTAL RECOV-	NICKEL, TOTAL RECOV-	SELE- NIUM,	ZINC, TOTAL RECOV-	
	ERABLE (UG/L	ERABLE (UG/L	ERABLE (UG/L	ERABLE (UG/L	ERABLE (UG/L	TOTAL (UG/L	ERABLE (UG/L	PHENOLS
DATE	AS FE)	AS PB)	AS MN)	AS HG)	AS NI)	AS SE)	AS ZN)	(UG/L)
OCT								
03	7300	34	70	<.5	7	0	60	1
SEP 22	2700	9	80	.1	5	0	30	1

LOCATION.--Lat 39°54'11", long 75°01'19", Camden County, Hydrologic Unit 02040202, on right bank of Wallworth Lake in Pennypacker Park, 200 ft (61 m) upstream from bridge on State Highway 41 (Kings Highway) in Haddonfield, 0.6 mi (1.0 km) upstream from North Branch Cooper River, and 7.7 mi (12.4 km) upstream from mouth.

DRAINAGE AREA .-- 17.4 mi2 (45.1 km2).

WATER-DISCHARGE RECORDS

PERIOD OF RECORD .-- October 1963 to current year.

REVISED RECORDS .-- WRD-NJ 1969: 1967(M) .

GAGE.--Water-stage recorder above concrete dam. Datum of gage is 9.29 ft (2.832 m) National Geodetic Vertical Datum of 1929.

REMARKS.--Water-discharge records good. Occasional regulation at low flow from Kirkwood Lake, other small lakes and wastewater treatment plants.

AVERAGE DISCHARGE.--17 years, 35.9 ft3/s (1.017 m3/s), 28.02 in/yr (712 mm/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 3,300 ft³/s (93.5 m³/s) Aug. 28, 1971, gage height, 5.46 ft (1.664 m); minimum, 0.8 ft³/s (0.023 m³/s) Nov. 13, 1972, gage height, 1.07 ft (0.326 m) regulation from unknown source; minimum daily, 1.2 ft³/s (0.034 m³/s) June 27, 1964.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, $407 \text{ ft}^3/\text{s}$ (11.5 m³/s) Apr. 9, gage height, 2.47 ft (0.753 m), no peaks above base of 500 ft³/s (14.2 m³/s); minimum, 11 ft³/s (0.312 m³/s) Sept. 13, gage height, 1.35 ft (0.411 m).

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980 MEAN VALUES

SEP

DAY OCT NOV DEC JAN FEB MAR APR MAY JUN JUL AUG 27 32 82 31 33 29 25 38 15

72 MO 33 26 38 33 32 32 49 27 18 28 ---------TOTAL 65.5 227 24 46.3 21.6 MEAN 39.4 30.2 35.6 28.3 66.4 42.5 28.2 23.1 17.6 26 22 16 MAX 2.05 CFSM 2.66 2.26 1.74 1.63 3.76 3.82 2.44 1.62 1.33 1.24 1.01 IN. 3.07 2.52 2.00 2.36 1.76 4.34 4.26 2.82 1.81 1.53 1.43 1.13

CAL YR 1979 TOTAL 17811 MEAN 48.8 MAX 711 MIN 20 CFSM 2.81 IN 38.08 WTR YR 1980 TOTAL 13578 MEAN 37.1 MAX 286 MIN 13 CFSM 2.13 IN 29.03

01467190 COOPER RIVER AT CAMDEN, NJ

LOCATION.--Lat 39°55'35", long 75°05'03", Camden County, Hydrologic Unit 02040202, at bridge on U.S. Routes 130 and 30 in Camden, 3.4 mi (5.5 km) upstream from mouth, 3.5 mi (5.6 km) northwest of Haddonfield, and 3.7 mi (6.0 km) downstream from North Branch Cooper River.

DRAINAGE AREA .-- 35.2 mi2 (91.2 km2).

WATER-QUALITY RECORDS

PERIOD OF RECORD. -- Water years 1970-71, 1976 to current year.

COOPERATION.--Analyses of fecal coliform and fecal streptococci by the MPN method, and water-phase nutrients were performed by the New Jersey Department of Health, Division of Laboratories and Epidemiology.

WATER QUALITY DATA, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

	TIME	SPE- CIFIC CON- DUCT- ANCE (MICRO-	PH FIELD	TEMPER- ATURE, WATER	OXYGEN, DIS- SOLVED	OXYGEN DEMAND, BIOCHEM UNINHIB 5 DAY	COLI- FORM, FECAL, EC BROTH	STREP- TOCOCCI FECAL	HARD- NESS (MG/L AS	CALCIUM DIS- SOLVED (MG/L	
DATE		MHOS)	(UNITS)	(DEG C)	(MG/L)	(MG/L)	(MPN)	(MPN)	CACO3)	AS CA)	
OCT 17 FEB	1100	244	7.0	12.0	4.6	3.5	500	80	61	17	
04	1400	360	7.4	1.0	8.9	7.0	80	<20	75	21	
APR 14	1000	192	6.9	15.0	5.1	3.9	200	40	47	13	
JUN 02	1000	296	7.4	25.0	6.2	6.6	<20	<20	54	14	
JUL 29	1230	297	8.5	28.0	11.5	13	790	1300	60	17	
AUG 20	0850	322	7.5	23.5	4.3	6.6	310	20	61	17	
SEP 29	1340	372	7.9	19.0	7.8	6.8	>2400	175	66	19	
23	1340	312	1.9	19.0	1.0	0.0	72400	113	00	19	
DATE	MAGNE- SIUM, DIS- SOLVED (MG/L AS MG)	SODIUM, DIS- SOLVED (MG/L AS NA)	POTAS- SIUM, DIS- SOLVED (MG/L AS K)	BICAR- BONATE (MG/L AS HCO3)	CAR- BONATE (MG/L AS CO3)	ALKA- LINITY (MG/L AS CACO3)	SULFIDE TOTAL (MG/L AS S)	SULFATE DIS- SOLVED (MG/L AS SO4)	CHLO- RIDE, DIS- SOLVED (MG/L AS CL)	FLUO- RIDE, DIS- SOLVED (MG/L AS F)	
OCT											
17 FEB	4.4	14	5.7	56	0	46	.0	32	19	.2	
04 APR	5.4	27	8.5	90	0	74	-	39	34	.3	
14 JUN	3.5	12	4.1	41	0	34	-	25	16	.2	
02 JUL	4.5	24	6.8	81	0	66		34	27	.3	
29 AUG	4.3	23	7.9	68	1	57		24	27	• 3	
20	4.6	23	7.9	83	0	68		34	28	.3	
SEP 29	4.5	28	9.8	107	0	88		32	33	.3	
	SILI DIS SOL (MG	- AT 1 VED DEG /L DI	DUÉ NI 80 G . C NO2 S- TO		EN, GE ONIA ORGA TAL TOT		AM- A + NIT NIC GE AL TOT	AL TOTA	S, PH CARB TE ORGA L TOT	NIC AL	
DAT	E SIO	2) (MG	/L) AS	N) AS		N) AS	N) AS	N) AS PO	4) AS	c) .	
OCT 17. FEB	1	1	142 1	2 3.	200	.50 3	3.7 16	1.	5	8.6	
04.	1	5	195 E	1.5 7.	400	.10 7	.5	4.	1		
APR 14.		7.5	105	.84 1.	900 1	1.9 3	3.8 4	.6 2.	2	6.8	
JUN 02.	1	1	172	.62 4.	500	.50 5	5.0 5	.6 .	96	9.1	
JUL 29.	1	1	171	.34 4.	000 2	2.3	.3 6	.6 1.	0	8.2	
AUG 20.		1	160					.8 .	95	7.8	
SEP 29.		2	204					.5 1.		8.9	
43.		_		0.			,	.,		,	

01467190 COOPER RIVER AT CAMDEN, NJ--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

DATE	TIME	ALUM- INUM, DIS- SOLVED (UG/L AS AL)	ARSENIC TOTAL (UG/L AS AS)	BERYL- LIUM, TOTAL RECOV- ERABLE (UG/L AS BE)	BORON, TOTAL RECOV- ERABLE (UG/L AS B)	CADMIUM TOTAL RECOV- ERABLE (UG/L AS CD)	CHRO- MIUM, TOTAL RECOV- ERABLE (UG/L AS CR)	COPPER, TOTAL RECOV- ERABLE (UG/L AS CU)
OCT 17	1100	30	3	0	100	0	20	8
DATE	IRON, TOTAL RECOV- ERABLE (UG/L AS FE)	LEAD, TOTAL RECOV- ERABLE (UG/L AS PB)	MANGA- NESE, TOTAL RECOV- ERABLE (UG/L AS MN)	MERCURY TOTAL RECOV- ERABLE (UG/L AS HG)	NICKEL, TOTAL RECOV- ERABLE (UG/L AS NI)	SELE- NIUM, TOTAL (UG/L AS SE)	ZINC, TOTAL RECOV- ERABLE (UG/L AS ZN)	PHENOLS (UG/L)
OCT 17	2300	16	110	.3	3	0	20	0

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).

WATER-QUALITY RECORDS

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. Further information on this station is given in U.S. Geological Survey Water-Supply Paper 1809-0. Interruptions in the record were due to malfunctions of the instrument.

EXTREMES FOR PERIOD OF DAILY RECORD.-SPECIFIC CONDUCTANCE: Maximum, 1,450 micromhos Nov. 20, 1964; minimum, 65 micromhos Sept. 15, 1979.
pH: Maximum, 8.7 Oct. 14, 1979; minimum, 4.7 Dec. 29, 1978.
WATER TEMPERATURES: Maximum, 31.0°C July 13-15, 1966; minimum, 0.0°C on many days during winter months.
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, 496 micromhos Sept. 30; minimum, 68 micromhos Oct. 2.
pH: Maximum, 8.7 Oct. 14; minimum, 5.5 Mar. 24.
WATER TEMPERATURES: Maximum, 29.0°C on several days during August; minimum, 2.0°C on many days during February.
DISSOLVED OXYGEN: Maximum 12.3 mg/L Mar. 24 and 25; minimum 0.0 mg/L Aug. 1, 2.

TEMPERATURE, WATER (DEG. C), WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		ОСТОВЕ	R		NOVEMBE	R		DECEMBE	R		JANUAR	Y
1 2 3 4 5	19.5 19.5 19.5 20.0 20.0	19.0 19.0 19.0 19.5 19.0	19.5 19.5 19.5 19.5	14.5 14.5 14.5 14.0 13.5	14.0 14.0 13.5 13.0 12.5	14.0 14.5 14.5 13.5 13.0	11.5 10.5 9.0 9.0 8.0	10.0 9.0 8.0 7.5 7.0	10.5 9.5 8.5 8.5 7.5	6.0 6.0 5.5 5.5	5.5 5.5 5.0 4.5	5.5 5.5 5.5 5.5 5.0
6 7 8 9	19.0 18.5 17.5 16.5 15.5	18.0 17.0 16.5 15.5 15.0	18.5 18.0 17.0 16.5 15.5	13.0 12.5 12.5 12.0 12.0	12.5 12.0 12.0 11.5 11.5	12.5 12.5 12.0 12.0 12.0	7.5 7.5 7.0 6.5 6.0	7.0 6.5 6.0 6.0 5.5	7.5 7.0 6.5 6.0	5.0 5.0 4.5 4.5	4.5 4.0 4.0 4.0	4.5 4.5 4.5 4.5
11 12 13 14 15	14.5 14.0 13.5 13.0 12.5	14.0 13.5 13.0 12.0 12.0	14.0 13.5 13.0 12.5 12.5	12.0 11.5 11.5 11.5 11.0	11.0 11.0 11.0 10.5 10.5	11.5 11.5 11.0 11.0	6.5 6.5 6.5 6.5	6.0 6.5 6.5 6.5	6.0 6.5 6.5 6.5	5.0 5.0 4.5 4.5 5.0	4.0 4.0 4.0 4.0	4.5 4.5 4.0 4.5 5.0
16 17 18 19 20	12.5 12.5 13.0 13.0	12.0 12.0 12.5 12.5 13.0	12.5 12.5 12.5 13.0 13.0	11.0 10.5 10.5 11.0 11.0	10.5 10.5 10.5 10.5 10.5	10.5 10.5 10.5 10.5 10.5	6.5 6.5 6.0 6.0	6.5 6.0 5.5 5.0	6.5 6.0 6.0 5.5 5.0	5.0 5.5 5.5 5.6	4.5 4.5 5.0 5.0	5.0 5.0 5.0 5.0
21 22 23 24 25	13.5 14.5 15.0 15.0	13.0 13.5 14.0 14.5 14.5	13.5 14.0 14.5 14.5	11.0 11.0 11.0 11.0 11.5	10.5 10.5 10.5 10.5 11.0	10.5 10.5 10.5 11.0	5.0 5.0 5.0 5.5	5.0 4.5 4.5 4.5 5.0	5.0 5.0 5.0 5.5	5.0 5.5 5.5 5.5	5.0 5.0 5.0 5.0	5.0 5.0 5.5 5.0 5.0
26 27 28 29 30 31	14.5 14.5 14.0 14.5 14.5	14.0 14.0 13.5 14.0 14.0	14.5 14.0 14.0 14.0 14.0	12.0 12.0 12.5 13.0 12.5	11.0 11.5 11.5 12.5 11.0	11.5 12.0 12.0 13.0 12.0	5.5 5.0 5.0 6.0 6.0	5.0 4.5 4.5 5.0 5.5	5.0 5.5 5.5 5.5	5.0 5.0 4.5 4.0	4.5 4.5 4.5 4.0 3.5	5.0 4.5 4.5 4.0 4.0
MONTH	20.0	12.0	15.0	14.5	10.5	12.0	11.5	4.5	6.5	6.0	3.5	5.0

> 01467200 DELAWARE RIVER AT BENJAMIN FRANKLIN BRIDGE, AT PHILADELPHIA, PA--Continued TEMPERATURE, WATER (DEG. C), WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

			TEMPERATURE,	WAIER	(DEG. C)	, WAIER	IEAR OCTOBER	19/9 10	SEFTEMBER	1900		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		FEBRUARY			MARCH			APRIL			MAY	
1 2 3 4 5	4.0 3.5 3.0 3.0 3.0	3.0 2.5 2.5 2.5 2.0	3.5 3.0 3.0 2.5 2.5	4.0 4.0 3.5 4.0 4.0	3.5 3.0 3.0 3.0 3.5	4.0 3.5 3.5 3.5 4.0	8.0 8.0 8.5 9.0 9.0	7.5 7.5 7.5 8.0 8.5	8.0 8.0 8.0 8.5 9.0	14.0 13.5 13.5 14.0 15.0	13.0 13.0 13.0 13.5 14.0	14.0 13.5 13.5 13.5 14.5
6 7 8 9	2.5 2.5 2.5 2.5 2.5	2.0 2.0 2.0 2.0 2.0	2.5 2.5 2.5 2.5 2.5	4.5 5.0 5.5 5.5 6.0	4.0 4.5 5.0 5.0	4.0 4.5 5.0 5.5 5.5	9.5 10.0 10.5 11.0 12.0	9.0 9.5 10.0 10.5 11.5	9.5 10.0 10.5 11.0	16.0 17.0 17.5 17.5	15.0 15.5 16.5 16.5	15.5 16.5 16.5 17.0
11 12 13 14 15	2.5 2.5 2.5 3.0 3.0	2.0 2.0 2.0 2.0 2.5	2.5 2.5 2.5 2.5 2.5	6.0	5.5 5.5 	6.0	13.0 13.0 13.0 13.0	12.0 12.5 12.5 12.5 12.5	12.5 13.0 13.0 12.5	17.5 18.0 18.5 18.5	17.0 17.0 17.5 18.0 18.0	17.5 17.5 18.0 18.5 18.5
16 17 18 19 20	3.0 3.0 2.5 3.0 3.0	2.5 2.5 2.5 2.5 2.5	3.0 2.5 2.5 2.5 3.0	===	==	===	12.5 12.0 12.0 12.0	12.0 11.5 11.5 11.5	12.5 12.0 12.0 11.5 12.0	18.5 18.5 18.5 19.0	18.0 18.0 18.0 18.0 18.5	18.5 18.5 18.5 18.5 19.0
21 22 23 24 25	3.5 3.5 4.0 4.0	3.0 3.5 3.5 4.0	3.0 3.5 3.5 4.0	8.5 8.5 7.0 5.5 5.0	8.0 7.0 6.0 4.5 4.5	7.5 6.5 5.0 5.0	12.5 12.5 13.0 14.0 14.5	11.5 12.0 12.5 13.0 13.5	12.0 12.5 13.0 13.5 14.0	19.0 19.5 20.0 20.0 20.5	18.5 18.5 19.0 20.0 20.0	19.0 19.0 19.5 20.0 20.5
26 27 28 29 30 31	4.5 4.5 4.5	4.0 4.0 4.0 4.0	4.0 4.0 4.0 4.0	6.0 6.5 6.5 7.0 7.5 8.0	5.0 5.5 6.0 6.5 6.5 7.0	5.5 6.0 6.5 7.0 7.5	14.5 14.5 14.5 14.5 14.5	14.0 14.0 14.0 14.0 14.0	14.5 14.5 14.5 14.5 14.5	20.5 20.5 20.5 20.5 21.0 21.0	20.0 20.0 20.0 20.0 20.5 20.5	20.0 20.0 20.0 20.5 20.5 20.5
MONTH	4.5	2.0	3.0	8.5	3.0	5.5	14.5	7.5	12.0	21.0	13.0	18.0
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
D 1		JUNE			JULY			AUGUST			SEPTEMB	ER
1 2 3 4 5	21.5 22.0 22.5 22.5 22.5	20.5 21.0 22.0 22.0 22.0	21.5 22.0 22.5	25.0 25.0 25.0 25.5 25.5	24.5 24.5 25.0 25.0 25.0	24.5 25.0 25.0 25.0 25.5	28.0 28.0 28.0 28.5 29.0	27.5 27.5 28.0 28.0 28.0	28.0 28.0 28.0 28.0 28.5	27.0 27.5 27.0 27.5 27.0	26.5 26.5 27.0 27.0 27.0	26.5 27.0 27.0 27.0 27.0
6 7 8 9	22.5 23.0 23.0 22.5 22.0	22.0 22.0 22.0 21.5	22.5 22.5 22.0	25.5 25.5 25.5 25.5 26.0	25.0 25.0 25.0 25.0 25.0	25.5 25.0 25.0 25.0 25.5	28.5 28.5 29.0 29.0 29.0	28.0 28.5 28.5 28.5	28.5 28.5 28.5 29.0 28.5	27.0 27.0 26.5 26.5 26.5	27.0 26.5 26.5 26.0 26.0	27.0 27.0 26.5 26.5 26.0
11 12 13 14 15	22.0 22.0 22.0 22.5 22.5	21.5	21.5 22.0 22.0	26.0 26.0 26.0 26.0 26.5	25.5 25.5 25.5 25.5 26.0	26.0 26.0 25.5 26.0 26.0	29.0 29.0 28.5 28.5 28.0	28.5 28.5 28.0 28.0 28.0	28.5 28.5 28.5 28.5	26.0 26.0	25.5 25.5 25.5 25.5 25.0	26.0 25.5 25.5 25.5 25.5
16 17 18 19 20	22.5 22.5 22.5	22.0 22.0 22.0	22.0	26.5 27.0 27.0 27.0 27.0	26.0 26.5 26.5 27.0 27.0	26.5 26.5 27.0 27.0 27.5	26.5 26.5	26.5	26.5 26.5	25.0 24.5 24.5 24.5 24.5	24.5 24.5 24.0 24.0 24.0	25.0 24.5 24.5 24.5 24.0
21 22 23 24 25	24.0	23.5		28.0 28.0 28.0 27.5 28.0	27.5 27.5 27.5 27.5 27.0	27.5 28.0 27.5 27.5 27.5	26.5 26.0 26.0 26.0 26.0	26.0 25.5 25.5 25.5 25.5	26.0 25.5 25.5 25.5 26.0	24.5 24.5 25.0 24.5 24.0	24.0 24.5 24.0 23.5	24.0 24.5 24.5 24.0 24.0
26 27 28 29 30 31	24.0 24.5 24.5 24.5 24.5	23.5 23.5 24.0 24.0 24.5	23.5 24.0 24.0 24.5 24.5	28.0 28.0 28.0 27.5 28.0 28.0	27.5 27.5 27.5 27.0 27.5 27.5	27.5 27.5 27.5 27.5 27.5 27.5	26.5 26.5 26.5 26.5 27.0 27.0	26.0 26.5 26.5 26.5 26.5	26.0 26.5 26.5 26.5 26.5 26.5	23.5 23.0 22.5 22.5 22.0	23.0 22.5 22.5 22.0 22.0	23.5 23.0 22.5 22.0 22.0
MONTH	24.5	20.5		28.0	24.5	26.5	29.0	25.5	27.5	27.5	22.0	25.0
YEAR	29.0	2.0	15.0									

DELAWARE RIVER BASIN

01467200 DELAWARE RIVER AT BENJAMIN FRANKLIN BRIDGE, AT PHILADELPHIA, PA--Continued SPECIFIC CONDUCTANCE (MICROMHOS/CM AT 25 DEG. C), WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

	S	PEC IF IC	CONDUCTANCE	(MICROMHO	DS/CM AT	25 DEG.	C), WATER	YEAR OCTO	BER 1979 T	TO SEPTEMBER	1980	
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		остовя	ER		NOVEMBE	R		DECEMBE	2R		JANUAR	Y,
1 2 3 4 5	99 94 	79 68 	90 82 	200 201 202 192 181	182 186 174 167 163	192 195 192 181 172	137 144 177 213 215	108 125 145 176 196	124 136 158 192 205	227 222 219 216 216	209 205 201 199 198	220 215 212 209 208
6 7 8 9	=======================================	===	===	176 173 170 168 161	165 164 156 148 137	171 169 165 160 153	206 205 211 211 218	197 198 198 203 204	201 203 203 206 210	215 216 217 216 226	202 201 203 203 206	210 209 209 210 215
11 12 13 14 15	122 125 136 134 130	113 115 118 121 122	118 120 123 125 126	153 145 140 142 149	129 126 127 128 137	142 136 134 136 143	219 224 231 233 237	212 216 222 225 224	216 220 226 228 231	231 233 218 226 236	211 209 205 210 218	222 223 213 218 227
16 17 18 19 20	135 140 143 156 156	124 130 135 138 146	129 134 139 144 150	155 158 159 209 204	144 149 151 155 187	150 153 155 178 195	235 233 222 223 233	227 213 213 215 215	231 223 218 219 223	239 246 247 251 247	228 229 232 230 229	234 237 241 242 239
21 22 23 24 25	157 161 169 169 173	147 149 155 159 164	153 156 162 165 168	208 226 237 238 244	195 197 204 201 219	202 209 216 216 231	230 232 231 230 231	218 217 219 216 217	226 226 226 224 225	248 244 246 243 245	225 223 229 229 225	236 236 240 238 237
26 27 28 29 30 31	176 178 179 181 189 196	165 165 167 167 172 179	170 172 173 174 180 187	256 266 194 171	228 234 161 111	242 250 179 139	226 238 231 232 229 227	216 216 221 224 220 217	222 224 225 228 226 223	245 248 252 253 251 260	233 232 235 238 236 237	240 244 247 244 249
MONTH	196	68	145	266	111	178	238	108	211	260	198	228
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		FEBRUAR	RY		MARCH			APRIL			MAY	
1 2 3 4 5	25 9 260 265 271 280	243 244 250 249 256	253 256 259 263 268	334 342 345 359 353	304 306 315 317 319	323 325 332 341 339	157 150 144 151 146	138 133 132 135 137	149 142 137 143 140	188 182 180 155 146	174 157 139 134 130	180 173 160 143 138
6 7 8 9	283 284 290 292 293	259 263 268 273 277	273 277 282 286 287	349 347 349 350 356	310 310 316 320 314	333 333 337 335 338	147 146 147 160 156	138 137 140 140 141	1 42 141 1 44 1 48 1 46	145 150 152 163 161	132 134 142 145 149	140 143 149 152 156
11 12 13 14 15	299 297 301 305 318	276 273 280 292 292	291 289 293 299 305	350 324 	305 310 	329 	151 153 149 130 132	141 138 121 117 122	147 146 134 125 127	163 170 175 178 184	155 159 168 168 172	160 164 172 174 178
16 17 18 19	324 321 327 332 334	295 302 301 301 307	313 312 315 318 322	==	===	===	136 142 144 147 142	124 128 135 134 131	129 135 139 140 136	191 197 198 209 212	179 185 191 193 199	184 190 195 198 205
21 22 23 24 25	338 342 347 342 341	314 312 319 317 305	328 331 334 331 326	247 224 153 124 112	228 149 116 95 96	180 134 107 102	142 143 150 152 155	131 135 140 141 147	136 140 145 147 152	214 213 215 228 224	202 200 200 207 211	209 207 208 217 219
26 27 28 29 30 31	339 352 345 342	302 302 306 305	324 331 329 328	121 125 138 139 136	98 112 118 123 127 128	110 119 124 132 131 136	164 169 173 179 191	151 157 163 168 170	158 162 168 172 176	225 225 231 240 240 245	211 212 216 220 225 230	219 219 223 230 234 239
MONTH	352	243	301	359	95	235	191	117	145	245	130	186

01467200 DELAWARE RIVER AT BENJAMIN FRANKLIN BRIDGE, AT PHILADELPHIA, PA--Continued SPECIFIC CONDUCTANCE (MICROMHOS/CM AT 25 DEG. C), WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		JUNE			JULY			AUGUST			SEPTEME	BER
1 2 3 4 5	248 256 258 262 263	233 236 242 246 244	242 248 252 254 255	329 332 331 339 335	298 297 298 300 299	314 315 317 320 318	330 336 336 338 333	288 292 291 292 297	311 315 315 315 316	375 378 378 393 396	317 307 315 315 335	345 343 342 349 361
6 7 8 9	266 267 280 280 281	242 249 252 252 264	257 260 266 267 272	329 335 332 324 330	291 294 295 295 297	314 314 313 312 315	332 312 313 311 314	270 269 269 275 269	294 288 289 290 293	401 404 401 415 425	332 323 335 331 338	365 363 372 376 378
11 12 13 14 15	281 285 288 294 294	267 270 269 272 272	275 278 280 285 286	329 337 337 341 337	302 299 297 299 301	318 322 320 322 323	320 317 320 324 325	274 279 280 287 289	299 298 300 306	427 428 431 437 432	345 346 355 352 351	385 384 393 398 392
16 17 18 19 20	294 298 302 	278 276 280 	288 290 293	338 332 332 339 334	302 300 300 304 297	322 319 318 322 319	333 342	300 293	317 319	469 462 425 412 420	349 368 321 312 320	405 416 370 360 369
21 22 23 24 25	317	 293	305	333 342 341 342 340	296 297 294 296 296	316 316 320 320 320	364 365 363 361 362	303 308 310 294 298	328 337 338 334 332	437 417 427 445 480	329 333 330 325 342	375 370 382 395 420
26 27 28 29 30 31	324 325 328 332 330	294 297 293 295 295	309 312 313 315 313	342 345 346 345 334 330	293 290 293 280 280 289	320 319 322 316 308 310	363 365 369 376 377 376	302 315 308 311 315 318	336 342 343 346 351 349	483 441 452 477 496	356 341 346 343 366	417 392 401 410 421
MONTH	332	233	280	346	280	318	377	269	319	496	307	382
YEAR	496	68	245									

OXYGEN.	DISSOLVED	(DO).	MG/L.	WATER	YEAR	OCTOBER	1979	TO	SEPTEMBER	1980

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		OCTOBE	R		NOVEMBE	R		DECEMBE	IR.		JANUAR	RY
1 2 3 4 5	3.5 4.5 4.6 4.9	2.0 2.1 2.6 3.2 3.3	2.7 3.3 3.7 4.0 3.9	5.3 5.2 5.8 6.8 7.5	3.7 3.5 3.5 3.8 4.9	4.3 4.1 4.3 5.1 6.2	9.3 9.4 9.7 9.9 10.2	7.9 8.1 8.6 8.5 8.9	8.4 8.7 9.1 9.1	10.6 10.5 10.6 10.6 10.8	9.7 9.6 9.4 9.3 9.3	10.1 10.0 9.9 9.9 9.8
6 7 8 9	5.6 5.9 6.3 6.4 6.3	3.6 4.8 5.5 5.4 5.2	4.6 5.3 5.8 5.8 5.7	7.5 7.6 7.8 7.8 7.9	5.9 6.5 6.4 6.1 6.0	6.8 7.0 7.0 6.9 6.7	10.3 10.2 10.4 11.0	8.9 8.8 8.9 9.7 9.8	9.5 9.4 9.9 10.3	10.6 10.6 11.0 11.0	9.2 9.2 9.7 9.4 9.1	9.7 9.8 10.3 10.0 9.8
11 12 13 14 15	6.4 8.6	5.4 7.5	5.9 7.9	8.2 8.1 8.1 8.6 8.6	6.4 6.6 6.7 6.7	7.1 7.3 7.3 7.9 8.0	10.9 10.4 10.4 9.4 9.4	9.4 9.0 8.6 8.3 8.1	10.1 9.6 9.4 8.8 8.7	10.5 11.0 11.5 11.4 10.9	8.9 9.2 10.1 9.9 9.7	9.5 9.9 10.8 10.6
16 17 18 19 20	8.5 8.1 7.7 7.6 7.1	7.0 6.6 6.2 5.9 5.3	7.8 7.2 6.9 6.7 6.2	8.3 8.1 8.1 8.0 7.8	7.2 7.2 7.0 6.8 6.5	7.8 7.6 7.5 7.2 7.0	9.6 10.7 10.0 10.1 9.8	8.1 8.2 9.0 8.9 8.8	8.8 9.5 9.5 9.3 9.2	10.7 10.4 9.9 9.7 9.7	9.4 9.1 8.6 8.5 8.5	9.9 9.6 9.2 9.0 9.1
21 22 23 24 25	7.2 6.9 6.5 6.1 6.2	5.5 5.4 5.0 4.8 4.8	6.3 6.1 5.6 5.3 5.4	7.7 7.2 7.4 7.6 7.5	6.0 5.4 5.5 5.7 5.8	6.7 6.2 6.3 6.4 6.5	10.1 10.0 9.8 10.2 10.1	8.5 8.3 8.3 8.3	9.1 8.9 8.9 9.1 9.2	9.6 9.9 9.5 9.5 9.6	8.5 8.4 8.2 8.4 8.0	9.0 9.0 8.7 8.8 8.7
26 27 28 29 30 31	6.1 6.4 5.9 5.7 5.3	4.7 4.5 4.5 4.5 4.3 4.0	5.3 5.2 5.1 5.1 4.9	7.6 8.3 9.2 8.8 8.8	5.9 6.4 7.4 8.0 7.9	6.5 7.1 8.4 8.3 8.3	10.6 11.4 11.5 11.2 10.9	8.9 9.6 10.7 10.6 10.3	9.7 10.6 11.1 10.9 10.6 10.3	9.0 9.0 9.1 9.1 9.4 9.3	7.7 7.6 7.6 7.7 7.9 7.8	8.4 8.2 8.2 8.3 8.5
MONTH	8.6	2.0	5.4	9.2	3.5	6.8	11.5	7.9	9.5	11.5	7.6	9.4

DELAWARE RIVER BASIN

01467200 DELAWARE RIVER AT BENJAMIN FRANKLIN BRIDGE, AT PHILADELPHIA, PA--Continued

		01407					YEAR OCTOBER				ucu	
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		FEBRUAR	Y		MARCH			APRIL			MAY	
1 2 3 4 5	9.4 9.7 9.6 9.8 10.0	7.8 8.1 8.2 8.3 8.3	8.4 8.5 8.7 8.7	9.0 8.9 8.6 8.5	7.0 7.1 7.4 7.3 6.8	7.8 7.8 7.9 7.6 7.5	11.0 11.0 11.4 11.0	10.6 10.6 10.4 10.3 10.3	10.8 10.7 10.8 10.5 10.6	8.3 8.4 8.6 8.6 8.8	6.3 7.0 7.0 7.3 7.5	7.2 7.7 7.7 8.0 7.9
6 7 8 9	9.7 9.6 9.6 9.4 9.3	8.4 8.3 8.1 7.7 7.5	8.8 8.7 8.5 8.3 8.2	8.7 8.6 8.4 7.8 8.2	6.9 6.6 6.3 6.2 6.1	7.5 7.3 7.0 6.9 6.8	10.9 10.5 10.4 10.2 9.1	10.3 10.0 9.5 9.0 8.0	10.5 10.2 9.9 9.4 8.5	8.2 7.8 7.1 6.7 6.8	6.8 6.2 5.3 4.9 4.7	7.3 6.8 6.1 5.6 5.5
11 12 13 14 15	9.4 9.9 9.5 9.4 9.4	7.5 7.5 7.5 7.5 7.4	8.1 8.3 8.3 8.2 8.1	8.3 8.8 	5.9 7.1 	7.0 	8.7 9.2 9.5 9.7 8.9	7.9 7.9 8.3 8.6 8.1	8.3 8.5 8.8 9.0 8.4	6.6 6.4 5.4 6.2 6.0	4.8 4.3 3.8 3.6 4.0	5.5 5.1 4.4 4.6 4.9
16 17 18 19 20	8.8 8.7 9.3 9.3	7.2 7.2 7.4 7.5 7.4	7.7 7.8 8.0 8.2 8.1		===	===	9.1 9.3 9.2 9.5 9.9	8.3 8.5 8.3 8.4 8.5	8.7 8.8 8.6 8.9 9.2	5.8 5.6 5.5 5.1 4.4	4.1 3.8 3.8 3.5 2.8	4.8 4.5 4.4 4.0 3.4
21 22 23 24 25	8.7 8.7 8.2 8.1 8.6	7.0 6.6 6.3 6.2 6.1	7.6 7.3 7.0 7.0 7.2	10.1 11.3 11.6 12.3 12.3	9.3 9.4 10.8 11.5	10.5 11.1 11.8 12.0	10.0 9.4 9.2 9.1 8.6	8.8 8.5 7.8 7.3 6.8	9.3 8.9 8.5 8.2 7.7	3.7 3.6 4.0 3.9 3.9	2.1 1.7 1.7 1.4 1.3	2.8 2.5 2.6 2.3 2.3
26 27 28 29 30 31	8.6 8.8 8.9	6.2 6.3 6.5 6.6	7.2 7.1 7.4 7.5	12.1 11.9 11.7 11.6 11.6	11.7 11.4 11.1 10.8 11.0	11.9 11.6 11.4 11.2 11.2	8.1 7.8 7.6 7.2 7.8	6.4 6.4 6.2 5.8 5.6	7.3 7.0 6.8 6.3 6.7	4.8 5.4 5.6 6.0 5.4 4.8	1.9 2.8 3.0 3.0 3.1 2.6	3.1 3.8 3.9 4.1 4.0 3.3
MONTH	10.0	6.1	8.0	12.3	5.9	9.3	11.4	5.6	8.9	8.8	1.3	4.8
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		JUNE			JULY			AUGUST			SEPTEMB	ER
1 2 3 4 5	5.3 4.7 4.3 3.4 3.2	2.3 2.7 2.2 1.8 1.6	3.2 3.4 2.9 2.3 2.2	.8 1.0 .9 1.0	. 4 . 4 . 4 . 4	.6 .7 .5 .5	.8 .9 1.4 1.6 2.2	.0 .0 .3 .4	.3 .5 .8 1.0	1.8 2.4 1.8 1.6	.5 .8 .7 .5	1.1 1.4 1.2 1.0
6 7 8 9	3.0 2.4 2.1 3.5 2.4	1.1 .7 .6 1.3	1.8 1.3 1.2 2.0 1.8	1.6 1.5 1.5 1.3	.4 .8 .6 .5	.9 1.1 1.1 .9	1.7 2.0 1.9 1.6 2.3	.5 .4 .4 .4	.9 1.0 1.0 1.0	1.2 1.5 1.7 1.7	•3 •4 •5 •4 •6	.7 .9 1.0 1.0
11 12 13 14 15	2.2 2.2 2.8 2.7 3.1	1.0 .8 .6 .7	1.5 1.3 1.4 1.3 1.6	.7 .8 1.3 1.5	.4	.5 .5 .7 .8 1.0	2.1 1.3 1.3 1.5	.6 .4 .4 .3	1.1 .8 .7 .7	2.3 2.1 1.4 1.4	.5 .9 .7 .7	1.1 1.2 1.0 1.0
16 17 18 19 20	2.7 3.0 2.6	1.1 .7 .8 	1.6 1.5 1.4	1.7 .9 .7 .7	.4	1.0 •5 •4 •4 •6	 .6 .8	 .4 .3	 .5	1.2 1.1 1.2 .9 1.3	.6 .5 .5 .5	.9 .8 .7 .6
21 22 23 24 25	1.8		1.2	11. 2 11. 0 2 . 6 3 . 7	·3 ·3 ·3 ·3	.6 .6 .4 .4	.7 .7 .8 1.4 1.5	·3 ·3 ·3 ·4	.5 .4 .5 .7	1.2 1.0 1.1 1.3 1.0	.5 .5 .5	.7 .7 .7 .8 .7
26 27 28 29	1.3 1.0 1.5 1.2	. 4 . 4 . 4 . 4	.8 .6 .7 .7	1.2 1.8 2.1 1.4	.3 .7 .4 .3	.6 .9 1.3 .8	1.2 1.2 1.1 .8	.3 .3 .3 .3	.8 .6 .5	1.2 1.4 1.7 2.1 1.6	.4 .5 .6 .9	.7 .9 1.1 1.5 1.2
30 31				. 8	. 1	. 5	1.1	. 1	• 1			
30 31 MONTH	5.3	. 4	1.6	.8 .32.1	• 3	.7	2.3	.0	.7	2.4	.3	.9

PH (STANDARD UNITS), WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

01467200 DELAWARE RIVER AT BENJAMIN FRANKLIN BRIDGE, AT PHILADELPHIA, PA--Continued

			PH	(STANDARD U	NITS), V	WATER YEAR	OCTOBER 19	979 TO SI	PTEMBER	1980		
DAY	MAX	MIN	MEAN	MA X	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		OCTOBE	R		NOVEMB	ER		DECEMBE	ER		JANUAF	ΥY
1 2 3 4 5	6.6 6.6 6.6 6.6	6.2 6.4 6.4 6.4	6.4 6.5 6.5 6.5 6.5	6.5 6.7 6.6 6.5 6.3	5.9 6.2 6.3 6.2 6.0	6.2 6.4 6.4 6.4	6.6 6.4 6.4 6.5	6.4 6.3 6.3	6.5 6.4 6.4 6.4	6.6	6.4 6.4 6.3 6.3	6.5 6.5 6.4 6.4
6 7 8 9	6.8 7.0 7.0 7.0 7.0	6.4 6.6 6.5 6.7 6.6	6.6 6.8 6.8 6.8	6.8 6.7 6.6 6.6 6.6	6.0 6.5 6.5 6.5	6.3 6.6 6.6 6.6	6.5 6.5 6.7 6.7	6.3 6.4 6.4	6.4 6.5 6.6 6.5	6.5 6.6 6.5 6.6	6.3 6.4 6.3 6.3	6.4 6.5 6.4 6.4
11 12 13 14 15	7.6 8.5 8.1 8.7 8.1	6.7 7.3 7.3 7.5 7.4	7.1 7.7 7.6 8.1 7.7	6.6	6.6 6.5 6.5 6.5	6 6	6.6 6.6 6.5 6.6	6.4 6.3 6.4	6.5	6.6 6.6 6.7 6.6 6.6	6.2 6.4 6.4 6.3	6.5 6.6 6.5
16 17 18 19 20	8.1 7.5 7.3 6.8 7.0	7.1 6.9 6.8 6.5 6.6	7.5 7.2 6.9 6.7	6.7 6.7 6.7 6.7	6.5 6.5 6.5 6.4	6.6 6.6 6.5 6.5	6.6 6.7 6.6 6.6	6.4	6.5 6.5 6.4 6.4	6.5 6.5 6.5	6.3 6.2 6.3 6.3	6.4 6.4 6.4 6.4
21 22 23 24 25	6.7 6.6 6.4 6.4	6.0 5.8 6.1	6.5 6.5 6.2 6.1 6.3	6.6 6.6 6.6 6.6	6.4 6.3 6.4 6.3	6.5 6.5 6.5 6.5	6.6 6.5 6.6 6.5	6.3 6.3	6.4 6.4 6.4	6.5 6.5 6.5 6.5	6.3 6.2 6.3 6.3	6.4 6.4 6.4 6.4
26 27 28 29 30 31	6.3 6.4 6.1 6.5 6.6	6.0 5.7 5.6 5.6 5.7 6.0	6.1 6.0 6.0 5.9 6.1 6.4	6.6 6.7 6.8 6.8 6.7	6.3 6.4 6.6 6.7 6.6	6.4 6.6 6.7 6.8 6.6	6.6 6.7 6.7 6.7 6.7	6.4 6.4 6.6 6.5 6.5	6.5 6.6 6.7 6.6 6.6	6.5	6.3 6.2 6.2 6.3 6.2	6.4 6.4 6.4 6.4 6.3
MONTH	8.7	5.6	6.7	6.8	5.9	6.5	6.7	6.2	6.5	6.7	6.2	6.4
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
2.1		FEBRUAR		· · · · ·	MARCH		,,,,,	APRIL		· · · · ·	MAY	
1 2 3 4 5	6.5	6.2	6.3 6.4 6.3 6.3	6.6 6.6 6.5 6.5	6.4 6.3 6.3 6.2 6.3	6.5 6.4 6.4 6.4	6.6 6.5 6.4 6.5	6.5 6.5 6.1	6.6 6.5 6.4 6.3	6.6 6.5 6.4 6.4	6.4 6.4 6.3 6.2 6.3	
6 7 8 9	6.6 6.6 6.5 6.5	6.3	6.4 6.4 6.4 6.4	6.5 6.5 6.5 6.5	6.3 6.3 6.3 6.3	6.4 6.4 6.4 6.4	6.5 6.5 6.5 6.4	6.4 6.4 6.3 6.3	6.4	6.4 6.4 6.4 6.5	6.3 6.2 6.2 6.0	6.3 6.3 6.3
12	6.6 6.6 6.6 6.6	6.2 6.3 6.3 6.3	6.4 6.4 6.4 6.4	6.6 6.6 	6.3	6.4	6.5 6.5 6.5 6.5	6.4	6.4	6.5	6.2 6.2 6.2 6.1 6.1	6.3 6.2
16 17 18 19 20	6.5 6.6 6.6 6.6	6.2 6.3 6.2 6.3 6.2	6.3 6.4 6.4 6.4		===	===	6.5 6.4 6.4 6.4	6.3 6.4 6.3 6.2	6.4 6.4 6.3 6.3	6.4 6.4 6.3 6.3	6.2 6.1 6.1 6.2 6.2	6.3 6.3 6.3 6.2
21 22 23 24 25	6.5 6.5 6.5 6.6	6.2 6.1 6.2 6.2 6.2	6.3 6.3 6.4 6.4	6.5 6.5 6.2 5.8 5.8	6.4 6.2 5.8 5.5 5.7	6.4 6.0 5.7 5.7	6.4 6.4 6.5 6.5	6.3 6.3 6.3 6.2	6.4 6.3 6.4 6.4	6.3 6.2 6.2 6.3 6.2	6.1 6.1 6.0 6.0	6.2 6.2 6.1 6.1
26 27 28 29 30	6.6 6.5 6.6 	6.2 6.2 6.3 6.3	6.4 6.4 6.4	6.0 6.2 6.3 6.4 6.6	5.7 6.0 6.1 6.1 6.3 6.3	5.9 6.1 6.2 6.3 6.3	6.5 6.5 6.5 6.6	6.2 6.3 6.3 6.3	6.4 6.4 6.4 6.4	6.3 6.3 6.3 6.3 6.3	6.0 6.1 6.0 6.0 6.0	6.1 6.2 6.1 6.2 6.1 6.1
MONTH	6.6	6.1	6.4	6.6	5.5	6.3	6.6	6.1	6.4	6.6	6.0	6.3
Market Late.	12.5	1900	4.0	19.5		- T	70.7	07713	44.5	170.0	100	

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DELAWARE RIVER BASIN

01467200 DELAWARE RIVER AT BENJAMIN FRANKLIN BRIDGE, AT PHILADELPHIA, PA--Continued

PH (STANDARD UNITS), WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980 DAY MAX MIN MEAN MAX MIN MEAN MIN MAX MIN MEAN MAX MEAN JUNE JULY AUGUST SEPTEMBER 6.3 6.3 6.4 6.0 6.1 6.4 6.3 6.4 6.3 6.4 6.6 6.4 6.5 6.4 6.4 6.4 2 6.0 6.3 6.5 3 6.0 6.1 6.4 6.3 6.4 6.4 6.6 6.4 6.4 6.3 6.0 6.2 6.5 6.3 6.4 6.6 6.4 5 6.4 6.2 6.3 6.4 6.4 6.5 6.3 6.4 6.6 6.4 6.5 6.3 6.3 6.3 6.3 6.3 6.3 6.3 6.3 6 6.4 6.4 6.6 6.2 6.4 6.3 6.4 789 6.5 6.4 6.4 6.6 6.4 6.2 6.3 6.3 6.4 6.4 6.4 6.3 6.4 6.4 6.6 6.5 6.5 6.6 10 6.4 6.4 6.4 6.3 6.4 6.5 6.4 6.5 6.4 6.4 6.5 11 6.2 6.3 6.4 6.3 6.2 6.3 6.6 6.3 12 13 14 6.4 6.4 6.2 6.3 6.3 6.4 6.4 6.2 6.3 6.6 6.4 6.3 6.2 6.3 6.6 15 6.5 6.2 6.3 6.5 6.4 6.4 6.4 6.2 6.6 6.4 6.5 6.3 6.5 6.3 16 6.4 6.2 6.4 6.4 6.5 6.3 6.3 ---6.1 ------17 18 6.5 6.2 6.4 6.4 ------6.0 ---6.3 6.4 6.2 6.3 6.5 6.4 6.4 6.4 6.1 6.2 6.4 6.1 6.2 19 ---------6.5 6.5 6.1 20 ------6.4 ---6.5 6.5 6.6 6.3 6.1 6.2 6.2 6.2 21 22 23 24 25 ---6.5 6.5 6.5 6.6 6.4 6.5 6.3 ------6.1 == ---6.5 6.4 6.5 6.6 6.4 6.5 6.3 6.1 ---6.4 6.4 6.6 6.5 6.3 6.4 6.5 6.4 6.5 6.7 6.5 6.6 6.3 6.1 6.2 6.3 6.3 6.3 6.3 6.3 6.3 6.3 6.3 6.4 6.5 6.5 6.5 6.5 6.4 6.4 26 27 28 29 30 6.2 6.4 6.6 6.5 6.6 6.2 6.1 6.2 6.5 6.4 6.4 6.4 6.4 6.2 6.6 6.1 6.4 6.1 6.5 6.4 6.2 6.6 6.1 6.3 6.4 6.6 MONTH 6.5 6.0 6.4 6.3 6.5 6.2 6.4 6.7 6.1 6.6 6.0 6.4 YEAR 8.7 5.5 6.4

01467329 SOUTH BRANCH BIG TIMBER CREEK AT BLACKWOOD TERRACE, NJ

LOCATION.--Lat 39°48'05", long 75°04'27", Gloucester County, Hydrologic Unit 02040202, at bridge on Blackwood-Clementon Road at Blackwood Terrace, 1,000 ft (305 m) upstream from Bull Run, and 2.0 mi (3.2 km) northeast of Fairview.

DRAINAGE AREA .-- 19.1 mi2 (49.5 km2).

WATER-QUALITY RECORDS

PERIOD OF RECORD. -- Water years 1976 to current year.

COOPERATION.--Analyses of fecal coliform and fecal streptococci by the MPN method, and water-phase nutrients were performed by the New Jersey Department of Health, Division of Laboratories and Epidemiology.

WATER QUALITY DATA, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

DATE	TIME	STREAM- FLOW, INSTAN- TANEOUS (CFS)	SPE- CIFIC CON- DUCT- ANCE (MICRO- MHOS)	PH FIELD (UNITS)	TEMPER- ATURE, WATER (DEG C)	OXYGEN, DIS- SOLVED (MG/L)	OXYGEN DEMAND, BIOCHEM UNINHIB 5 DAY (MG/L)	COLI- FORM, FECAL, EC BROTH (MPN)	STREP- TOCOCCI FECAL (MPN)	HARD- NESS (MG/L AS CACO3)
OCT			5.00	3.5	72.1	1.2				24
18 JAN	1130	124	137	6.7	15.0	9.5	1.8			39
30 APR	1100	35	126	7.2	2.0	7.4	1.0	<2	<2	39
21 JUN	0600	74	126	7.1	15.0	8.0	1.5	330	350	39
11 JUL	1030	40	116	6.9	17.5	8.1	1.6	500	200	35
23 AUG	1030	44	122	6.9	26.0	5.5	2.4	200	3300	36
26	1330	22	127	7.2	25.5	8.0	1.3	200	50	37
DATE	CALCIUM DIS- SOLVED (MG/L AS CA)	MAGNE- SIUM, DIS- SOLVED (MG/L AS MG)	SODIUM, DIS- SOLVED (MG/L AS NA)	POTAS- SIUM, DIS- SOLVED (MG/L AS K)	BICAR- BONATE (MG/L AS HCO3)	CAR- BONATE (MG/L AS CO3)	ALKA- LINITY (MG/L AS CACO3)	SULFIDE TOTAL (MG/L AS S)	SULFATE DIS- SOLVED (MG/L AS SO4)	CHLO- RIDE, DIS- SOLVED (MG/L AS CL)
OCT 18	11	2.7	7.2	2.8	34	. 0	28		14	11
JAN 30	11	2.8	7.0	2.1	26	0	21		15	11
APR 21	11	2.7	5.8	2.3	28	0	23		14	11
JUN										
JUL JUL	9.4	2.7	7.7	2.0	17	0	14	.0	11	10
23 AUG	9.7	2.8	6.2	2.6	34	0	28		9.0	9.6
26	10	2.8	6.3	2.3	29	0	24		10	10
DATE	FLUO- RIDE, DIS- SOLVED (MG/L AS F)	SILICA, DIS- SOLVED (MG/L AS SIO2)	SOLIDS, RESIDUE AT 180 DEG. C DIS- SOLVED (MG/L)	NITRO- GEN, NO2+NO3 TOTAL (MG/L AS N)	NITRO- GEN, AMMONIA TOTAL (MG/L AS N)	NITRO- GEN, ORGANIC TOTAL (MG/L AS N)	NITRO- GEN, AM- MONIA + ORGANIC TOTAL (MG/L AS N)	NITRO- GEN, TOTAL (MG/L AS N)	PHOS- PHORUS, ORTHOPH OSPHATE TOTAL (MG/L AS PO4)	CARBON, ORGANIC TOTAL (MG/L AS C)
OCT 18	.1	6.9	83	1.6	.300	000			1.0	3.3
JAN										
30 APR	.1	6.8	91	1.8	. 220	. 02	. 24	2.0	. 29	2.9
21 JUN	.1	5.2	79	1.5	. 260	. 12	. 38	1.9	. 30	4.6
JUL	. 1	6.2	71	1.1	. 140	• 37	.51	1.6	. 49	5.6
23 AUG	.1	3.5	72	.78	.210	• 55	.76	1.5	.58	4.9
26	.1	5.6	79	1.1	. 120	- 74	. 86	2.0	.80	4.7
DATE	TIME	ALUM- INUM, DIS- SOLVED (UG/L AS AL)	ARSENIC TOTAL (UG/L AS AS)	ARSENIC TOTAL IN BOT- TOM MA- TERIAL (UG/G AS AS)	BERYL- LIUM, TOTAL RECOV- ERABLE (UG/L AS BE)	BORON, TOTAL RECOV- ERABLE (UG/L AS B)	CADMIUM TOTAL RECOV- ERABLE (UG/L AS CD)	CADMIUM RECOV. FM BOT- TOM MA- TERIAL (UG/G AS CD)	CHRO-MIUM, TOTAL RECOV-ERABLE (UG/L AS CR)	CHRO-MIUM, RECOV. FM BOT- TOM MA- TERIAL (UG/G)
OCT	1120							240		/40
18 JUN	1130			0				<10		<10
11	1030	20	1		0	50	0		<10	

01467329 SOUTH BRANCH BIG TIMBER CREEK AT BLACKWOOD TERRACE, NJ--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

			Marie Carlo Marie Control							
DATE	COPPER, TOTAL RECOV- ERABLE (UG/L AS CU)	COPPER, RECOV. FM BOT- TOM MA- TERIAL (UG/G AS CU)	IRON, TOTAL RECOV- ERABLE (UG/L AS FE)	IRON, RECOV. FM BOT- TOM MA- TERIAL (UG/G AS FE)	LEAD, TOTAL RECOV- ERABLE (UG/L AS PB)	LEAD, RECOV. FM BOT- TOM MA- TERIAL (UG/G AS PB)	MANGA- NESE, TOTAL RECOV- ERABLE (UG/L AS MN)	MANGA- NESE, RECOV. FM BOT- TOM MA- TERIAL (UG/G)	MERCURY TOTAL RECOV- ERABLE (UG/L AS HG)	MERCURY RECOV. FM BOT- TOM MA- TERIAL (UG/G AS HG)
18		<10		7900		170		150		.00
JUN 11	3		1800	-	5		30		.1	
DATE	NICKEL, TOTAL RECOV- ERABLE (UG/L AS NI)	SELE- NIUM, TOTAL (UG/L AS SE)	SELE- NIUM, TOTAL IN BOT- TOM MA- TERIAL (UG/G)	ZINC, TOTAL RECOV- ERABLE (UG/L AS ZN)	ZINC, RECOV. FM BOT- TOM MA- TERIAL (UG/G AS ZN)	PHENOLS (UG/L)	PCB, TOTAL IN BOT- TOM MA- TERIAL (UG/KG)	PCN, TOTAL IN BOT- TOM MA- TERIAL (UG/KG)	ALDRIN, TOTAL IN BOT- TOM MA- TERIAL (UG/KG)	CHLOR-DANE, TOTAL IN BOT- TOM MA- TERIAL (UG/KG)
OCT 18 JUN			0		40		10	.0	.0	6
11	0	0		10		1			-	
DATE	DDD, TOTAL IN BOT- TOM MA- TERIAL (UG/KG)	DDE, TOTAL IN BOT- TOM MA- TERIAL (UG/KG)	DDT, TOTAL IN BOT- TOM MA- TERIAL (UG/KG)	DI- AZINON, TOTAL IN BOT- TOM MA- TERIAL (UG/KG)	DI- ELDRIN, TOTAL IN BOT- TOM MA- TERIAL (UG/KG)	ENDO- SULFAN, TOTAL IN BOT- TOM MA- TERIAL (UG/KG)	ENDRIN, TOTAL IN BOT- TOM MA- TERIAL (UG/KG)	ETHION, TOTAL IN BOT- TOM MA- TERIAL (UG/KG)	HEPTA- CHLOR, TOTAL IN BOT- TOM MA- TERIAL (UG/KG)	HEPTA- CHLOR EPOXIDE TOT. IN BOTTOM MATL. (UG/KG)
OCT 18	.9	1.7	•3	.0	.0	.0	.0	.0	.0	. 0
JUN 11										
DATE	LINDANE TOTAL IN BOT- TOM MA- TERIAL (UG/KG)	MALA- THION, TOTAL IN BOT- TOM MA- TERIAL (UG/KG)	METH- OXY- CHLOR, TOT. IN BOTTOM MATL. (UG/KG)	METHYL PARA- THION, TOT. IN BOTTOM MATL. (UG/KG)	METHYL TRI- THION, TOT. IN BOTTOM MATL. (UG/KG)	MIREX, TOTAL IN BOT- TOM MA- TERIAL (UG/KG)	PARA- THION, TOTAL IN BOT- TOM MA- TERIAL (UG/KG)	PER- THANE IN BOTTOM MATERIL (UG/KG)	TO XA- PHENE, TOTAL IN BOT- TOM MA- TERIAL (UG/KG)	TRI- THION, TOTAL IN BOT- TOM MA- TERIAL (UG/KG)
OCT 18 JUN	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
11										

01467359 NORTH BRANCH BIG TIMBER CREEK AT GLENDORA, NJ

LOCATION.--Lat 39°50'04", long 75°04'02", Camden County, Hydrologic Unit 02040202, at bridge on State Route 168 in Glendora, 0.5 mi (0.8 km) downstream from Otter Brook, 1.0 mi (1.6 km) southeast of Clements Bridge, and 1.6 mi (2.6 km) north of Mechanicsville.

DRAINAGE AREA. -- 18.8 mi2 (48.7 km2).

WATER-QUALITY RECORDS

PERIOD OF RECORD. -- Water years 1976 to current year.

COOPERATION.--Analyses of fecal coliform and fecal streptococci by the MPN method, and water-phase nutrients were performed by the New Jersey Department of Health, Division of Laboratories and Epidemiology.

WATER QUALITY DATA, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

DATE		SPE- CIFIC CON- DUCT- ANCE MICRO- MHOS)	PH FIELD (UNITS)	TEMPER- ATURE, WATER (DEG C)	OXYGEN, DIS- SOLVED (MG/L)	DEM BIO UNI 5	AND, CHEM NHIB DAY	COLI- FORM, FECAL, EC BROTH (MPN)	STREP- TOCOCCI FECAL (MPN)	HARD- NESS (MG/L AS CACO3)	CALCIUM DIS- SOLVED (MG/L AS CA)
OCT 18	1400	212	6.5	16.0	7.0		3.3		-22	53	16
JAN 31	1000	207	7.0	1.0	10.7		2.8	5400	920	53	16
APR 23	1000	204	7.3	16.0	5.8		2.6	1100	26	51	15
JUN 12	0800	178	7.0	13.5	4.3		5.4	3500	3500	47	14
JUL 23	1230	175	6.9	24.0	2.0		3.9	110	4800	43	13
AUG 20	1240	170	7.1	24.0	4.2		2.9	270	1700	48	14
20	1240	170	1.1	24.0	7.2		2.9	210	1700	40	
DATE	MAGNE SIUM DIS- SOLVE (MG/L AS MG	DIS- D SOLVE (MG/	DIS D SOLV L (MG/	M, BICA BONA ED (MG	TE CA /L BON S (M		ALKA- LINITY (MG/L AS CACO3	DIS- SOLV (MG/	DIS- ED SOLV L (MG/	, RID DI ED SOL L (MG	E, S- VED /L
OCT 18	. 3.	1 14	1	. 9	59	0	4	8 23	3 14		.2
JAN				1.0							
31 APR				. 4	52	0	4				.2
23 JUN			Ц	. 3	55	0	4				.2
JUL	. 2.	8 14	14	. 1	49	0	4	0 20) 13		.2
23 AUG	. 2.	6 12	4	. 5	46	0	3	8 17	12		.2
20	. 3.	1 15	Ц	. 8	52	0	4	3 21	1 16		.3
DATE	SILICA DIS- SOLVE (MG/L AS SIO2)	D DEG. DIS	UÉ NITR O GEN C NO2+N - TOTA ED (MG/	GE O3 AMMO L TOT L (MG	N, G NIA ORG AL TO /L (M	TRO- EN, ANIC TAL G/L N)	NITRO- GEN, AM MONIA ORGANI TOTAL (MG/L AS N)	+ NITE	L TOTA	S, PH CARB TE ORGA L TOT L (MG	NIC AL /L
OCT 18	. 9.	1 1	29 2.	0 1.	500		_		2.	1	6.3
JAN 31	. 11	1	27 1.	4 1.	200	.40	1.6	3.	0 3.	9	7.4
APR 23			31 1.		300	.70	2.0	3.			4.2
JUN 12			15 1.			1.3	2.1	3.			6.3
JUL 23						1.0	1.5	2.			6.1
AUG 20			17 1.			1.2	1.6	2.			2.0

SCHUYLKTILL RIVER BASTN

01474500 SCHUYLKILL RIVER AT PHILADELPHIA, PA

LOCATION.--Lat 39°58'00", long 75°11'20", Philadelphia County, PA, 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 contol. Datum of gage is 5.74 ft (1.750 m) National Geodetic Vertical Datum of 1929. 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.--Water-discharge 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.--49 years, 2,962 ft3/s (83.88 m3/s), 21.25 in/yr (540 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.--Flood of Oct. 4, 1869, reached a stage of 17.0 ft (5.18 m), discharge, 135,000 ft³/s (3,820 m³/s), from rating 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 m3/s (510 m3/s) and maximum (*):

			Disch	arge	Gage h	eight
Date		Time	(ft^3/s)	(m^3/s)	(ft)	(m)
Nov.	25	2215	19600	555	8.70	2.652
Mar.	21	2400	*30200	856	9.76	2.975

Minimum discharge, 176 ft 3 /s (4.98 m 3 /s) Sept. 9, 25, gage height, 5.62 ft (1.713 m).

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980 MEAN VALUES

							Carl Tarana					
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	A UG	SEP
1	4720	1350	2860	2330	1050	598	13000	8580	1890	1140	598	339
2	12400	1380	2290	2150	1000	572	9000	6530	1980	883	522	317
3	8940	4950	2150	1980	950	625	7320	5500	1980	706	572	264
3 4	8870	5070	2030	1810	950	706	8720	4660	1980	678	493	272
5	7460	3160	1940	1620	883	678	7800	3910	1810	678	691	268
6	9820	2610	1850	1500	883	734	5430	3260	1530	1140	1030	266
7	7190	2380	2030	1420	852	678	4480	2760	1380	914	695	298
8	5810	2200	1980	1390	822	651	3740	3060	1460	763	456	288
9	5010	2020	1620	1320	822	1310	5680	2660	1690	678	365	235
10	11000	2290	1460	1210	792	1570	9820	2290	1690	625	345	250
11	8680	2850	1350	1460	763	1490	7320	2150	1810	598	400	220
12	4840	4360	1280	5920	763	1460	5680	2330	1650	547	740	228
13	4840	3010	1420	3320	706	1210	4950	7250	1490	547	551	242
14	3630	2560	2330	2240	678	2520	4480	6590	1380	522	466	250
15	2910	2330	2070	2110	651	2470	5940	4720	1460	450	446	305
16	2570	2020	1650	2110	822	2710	5810	3740	1650	651	456	349
17	2290	1940	1620	1900	822	3310	4890	3160	1530	852	427	391
18	1940	1770	1540	1730	651	10100	4300	3110	1420	1140	415	1080
19	1770	1690	1320	3010	651	9820	3740	3210	1280	678	422	1150
20	1620	1610	1320	2380	651	6790	3370	2950	1210	497	364	515
21	1540	1530	1250	1980	822	12200	3110	3160	1010	474	381	436
22	1460	1460	1280	1600	914	21700	2760	4020	1010	450	367	346
23	1420	1420	1320	1500	1650	13300	2560	3110	1010	651	389	300
24	2520	1380	1540	1400	1530	8650	2380	2520	852	734	379	286
25	2910	1350	3910	1300	1420	10600	2330	2330	792	792	360	350
26	1810	6100	6800	1250	1170	7940	2020	2110	734	734	329	630
27	1690	9920	5320	1200	1040	6070	2020	1890	734	572	296	600
28	1580	5080	4080	1200	914	5070	5190	1610	651	497	272	550
29 .	1850	3800	3260	1150	852	5870	10400	1650	706	651	268	430
30	2070	3320	2860	1100		8000	8220	1650	1240	734	260	450
30 31	1730		2620	1050		10000		1770		598	302	
TOTAL	136890	86910	70350	57640	26474	159402	166460	108240	41009	21574	14057	11905
MEAN	4416	2897	2269	1859	913	5142	5549	3492	1367	696	453	397
MAX	12400	9920	6800	5920	1650	21700	13000	8580	1980	1140	1030	1150
MIN	1420	1350	1250	1050	651	572	2020	1610	651	450	260	220
(+)	251	236	250	251	251	248	248	249	271	305	294	265
MEAN #	4666	3133	2520	2110	1164	5390	5796	3741	1638	1001	747	662
CF SM #	2.47	1.66	1.33	1.11	.61	2.85	3.06	1.98	. 87	.53	. 39	. 35
IN #	2.84	1.85	1.53	1.29	.66	3.28	3.42	2.28	.97	.61	.46	.39

MIN 445 CFSM# 2.17 CAL YR 1979 TOTAL WTR YR 1980 TOTAL 1405602 MEAN 3851 MEAN 2462 MAX 62100 MIN 445 MAX 21700 MIN 220 MEAN# 4109 IN# 29.47 MEAN # 2721 CFSM# 1.44 900911

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

EXTREMES FOR PERIOD OF DAILY REOCRD.-SPECIFIC CONDUCTANCE: Maximum, 972 micromhos June 25, 1965; minimum, 92 micromhos Feb. 26, 1979.
pH: Maximum, 10.1 Aug. 12, 1969; minimum, 5.7 Dec. 21, 1973.
WATER TEMPERATURES: Maximum, 32.0°C Aug. 5, 10, 1980; minimum, freezing point on many days during winter months.
DISSOLVED OXYGEN: Maximum, 18.3 mg/L Jan. 11, 1978; minimum, 0.4 mg/L July 24, 1971.

EXTREMES FOR CURRENT YEAR.-SPECIFIC CONDUCTANCE: Maximum, 571 micromhos Sept. 3; minimum, 158 micromhos Nov. 27.

TEMPERATURE, WATER (DEG. C), WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		OCTOBE	ER		NOVEMBE	R		DECEMBE	R		JANUAR	Y
1				13.0	11.5	12.0	8.0	7.0	7.5	5.0	4.5	5.0
2				14.0	12.0	13.0 14.0	7.0 6.5	6.0 5.0	6.5 5.5	5.0 4.5	4.5	5.0 4.5
7				14.0	12.0	13.0	6.0	4.5	5.0	4.5	3.5	4.0
5				12.0	11.0	11.5	6.5	5.0	5.5	3.5	3.5	3.5
6				11.0	10.5	11.0	6.5	5.5	6.0	4.0	3.0	3.0
7				11.0	10.5	10.5	7.5	6.5	7.0	3.0	2.5	3.0
8				11.0	10.0	10.5	8.0	6.5	7.0	4.0	3.0	3.5
9				11.5	10.5	11.0	7.0	6.5	6.5	3.5	3.0	3.5
10				12.5	11.5	12.0	7.0	6.0	6.5	3.5	2.5	3.0
11				13.0	12.5	12.5	7.5	6.0	6.5	5.5	3.0	4.0
12	12.5	12.5	12.5	13.0	12.5	12.5	8.0	6.5	7.0	6.0	4.0	5.0
13	13.0	12.5	12.5	12.0	11.5	11.5	8.0	7.5	8.0	4.0	3.5	3.5
14	13.0	12.0	12.5	11.5	10.5	11.5	8.0	7.5	8.0	4.5	3.5	4.0
15	13.0	12.0	12.5	11.0	10.0	10.5	7.5	6.5	7.5	6.0	4.5	5.0
16	13.0	12.0	12.5	10.5	9.5	10.0	7.0	6.5	6.5	6.5	5.0	5.5
17	13.5	12.5	13.0	10.0	9.0	9.5	6.5	4.5	6.0	7.0	6.0	6.5
18	14.5	13.0	14.0	10.5	9.0	9.5	4.5	3.5	4.0	6.5	6.5	6.5
19	15.5	13.5	14.5	10.5	9.5	10.0	3.5	2.5	3.0	7.0	6.5	6.5
20	16.5	15.0	15.5	10.5	10.0	10.0	3.0	2.5	2.5	6.5	5.5	6.5
21	18.0	16.0	17.0	11.0	9.5	10.5	2.5	2.0	2.5	6.0	5.0	5.5
22	18.5	17.0	18.0	11.5	10.5	11.0	3.5	2.5	3.0	5.0	5.0	5.0
23	19.5	18.0	18.5	12.0	11.0	11.5	4.5	3.5	4.0	5.5	5.0	5.0
24				13.0	11.5	12.5	5.5	4.5	5.0	4.5	3.5	4.0
25				13.5	12.0	13.0	7.0	5.5	6.5	3.5	3.5	3.5
26	14.0	13.0	14.0	16.0	13.5	14.5	7.5	7.0	7.5	4.0	2.5	3.5
27	13.5	12.5	12.5	16.0	13.5	15.0	7.5	6.5	7.0	4.0	3.0	3.5
28				13.5	12.5	13.0	6.5	5.5	6.0	3.5	3.0	3.5
29	12.5	11.5	12.0	12.5	9.5	11.0	6.0	5.5	5.5			
30	12.5	11.0	12.0	9.5	8.0	9.0	6.0	5.5	5.5			
31	12.5	11.0	11.5				6.0	5.0	5.5			
MONTH	19.5	11.0	14.0	16.0	8.0	11.5	8.0	2.0	6.0	7.0	2.5	4.5

01474500 SCHUYLKILL RIVER AT PHILADELPHIA, PA--Continued

TEMPERATURE, WATER (DEG. C), WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

			TEMPERATURE,	WATER	(DEG.	C), WATER	YEAR OCTOBER	1979 10	SEPTEMBER	1980		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		FEBRUARY	ſ		MARC	Н		APRIL			MAY	
1				3.0	2.0	3.0	8.0 10.0	7.5	8.0 9.5	19.0	17.5 19.5	18.5
2 3 4				2.5	1.5	2.0	11.5	9.5	11.0	20.5	20.0	20.5
5	2.5 3.5	1.5	3.0	3.5 4.5	1.5	2.5	12.0 11.5	11.0	11.5	20.5 19.5	16.5	17.5 18.0
6				6.5	4.5	5.5	12.5	10.5	11.5	20.0	18.0	
7 8				6.5 8.0	5.5	6.0 7.0	13.5	11.5	12.5	21.0	19.5	20.0
9			222	9.5	7.5	8.5 9.5	14.5 14.5	13.5	14.0	19.0	17.5 17.0	18.5 17.5
11				10.0	8.5	9.5	15.0	13.5	411.0	18.0	17.0	17.5
12				9.0 7.5	7.5	8.0	15.0 15.5	13.5	14.5	18.0 18.5	17.0 17.5	17.5
13 14				6.0	4.5	5.5	15.0	14.0	14.5	19.5	18.0	18.5
15				5.5	4.0	4.5	14.5	13.5	14.0	19.5	18.0	19.0
16 17	5.0	4.5	4.5 5.0	6.0 7.5	3.5	5.0 6.0	13.5 12.5	11.5	13.0	20.0	18.5	19.0
18 19	5.5	5.5	5.5 5.5	7.5	6.5	7.0 7.5	13.0 14.5	11.0	12.0	18.5	18.5 18.5	18.5
20				8.0	6.5	7.5	14.5	14.0	14.0	19.5	18.5	19.0
21			===	9.5	7.5	8.5				19.0	18.5 18.5	19.0
23				7.5	6.5	7.0 7.0	17.5 18.0	16.0	16.5	21.0	19.5	20.5
25	7.0	6.0		8.0	7.5	7.5	18.5	17.0	17.5	24.0	22.0	23.0
26	6.5	5.5	6.0	8.0	7.0		17.5 17.0	17.0	17.5 16.5	23.5	21.5	22.5
27	5.5	4.5	4.5	9.0	8.0	8.5	16.0	14.0	15.0	22.5	20.5	21.5
29 30	4.5	3.0	4.0	9.5	8.5 9.5	9.0	17.0 17.5	12.0	14.5	22.5	21.0	22.0
31	7.0	1.5	5.0	9.5	8.0 1.5	9.0 6.5	18.5	7.5	13.5	22.5	21.0 16.5	19.5
MONTH	7.0	1.5	5.0	11.0	1.5	0.5	10.5	1.5	13.3	2,10	,	
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
DAY	MAX	MIN	MEAN	MAX	MIN		MAX	MIN AUGUST	MEAN	MAX	MIN SEPTEMB	
.1	24.0	JUNE 21.5	23.0	28.5	JUL1	27.5	30.0	AUGUST	29.0	29.0	SEPTEMB 27.5	ER 28.5
1 2 3	24.0 24.5 25.0	JUNE 21.5 23.0 23.5	23.0 24.0 24.0	28.5 28.0 27.5	JULY 26.0 26.5 27.0	27.5 27.5 27.5	30.0 30.0 31.0	AUGUST 28.0 28.5 29.0	29.0 29.5 30.0	29.0 30.0 30.0	27.5 28.0 28.5	28.5 29.0 29.0
1 2	24.0 24.5	JUNE 21.5 23.0	23.0 24.0 24.0 24.0	28.5	JULY 26.0 26.5	27.5 27.5	30.0 30.0	AUGUST 28.0 28.5	29.0 29.5	29.0	SEPTEMB 27.5 28.0	28.5 29.0
1 2 3 4 5	24.0 24.5 25.0 25.0 24.5	JUNE 21.5 23.0 23.5 23.0 22.5	23.0 24.0 24.0 24.0 23.5	28.5 28.0 27.5 28.5 28.0	JULY 26.0 26.5 27.0 26.5 26.5	27.5 27.5 27.5 27.5 27.5 27.5	30.0 30.0 31.0 31.0 32.0	AUGUST 28.0 28.5 29.0 29.0 30.0	29.0 29.5 30.0 30.0 31.0	29.0 30.0 30.0 30.0 28.5	27.5 28.0 28.5 27.5 27.5	28.5 29.0 29.0 28.5 28.0
1 2 3 4 5	24.0 24.5 25.0 25.0 24.5	JUNE 21.5 23.0 23.5 23.0 22.5	23.0 24.0 24.0 24.0 23.5	28.5 28.0 27.5 28.5 28.0 27.5 27.5 26.5	JULY 26.0 26.5 27.0 26.5 26.5 26.5 25.5	27.5 27.5 27.5 27.5 27.5 27.5 27.0 26.5 26.0	30.0 30.0 31.0 31.0 32.0 30.5 31.0	AUGUST 28.0 28.5 29.0 29.0 30.0 27.5 28.5 29.5	29.0 29.5 30.0 31.0 29.0 29.5 30.5	29.0 30.0 30.0 30.0 28.5 29.5 28.5 28.0	SEPTEMB 27.5 28.0 28.5 27.5 27.5 27.5 27.6 26.5	28.5 29.0 29.0 28.5 28.0 27.5 27.0
1 2 3 4 5	24.0 24.5 25.0 25.0 24.5	JUNE 21.5 23.0 23.5 23.0 22.5	23.0 24.0 24.0 24.0 23.5	28.5 28.0 27.5 28.5 28.0 27.5	JULY 26.0 26.5 27.0 26.5 26.5	27.5 27.5 27.5 27.5 27.5 27.5 27.6	30.0 30.0 31.0 31.0 32.0	AUGUST 28.0 28.5 29.0 29.0 30.0	29.0 29.5 30.0 31.0 29.0 29.5	29.0 30.0 30.0 30.0 28.5	SEPTEMB 27.5 28.0 28.5 27.5 27.5 27.5	28.5 29.0 29.0 28.5 28.0 27.5
1 2 3 4 5 6 7 8 9	24.0 24.5 25.0 25.0 24.5	JUNE 21.5 23.0 23.5 23.0 22.5	23.0 24.0 24.0 24.0 23.5	28.5 28.0 27.5 28.5 28.0 27.5 26.5 27.5	JULY 26.0 26.5 27.0 26.5 26.5 26.5 25.5 25.5	27.5 27.5 27.5 27.5 27.5 27.5 27.5 27.0 26.0 26.0 27.0	30.0 30.0 31.0 31.0 32.0 30.5 31.0 31.5	AUGUST 28.0 28.5 29.0 29.0 30.0 27.5 28.5 29.5 30.0 29.5	29.0 29.5 30.0 31.0 29.0 29.5 30.5 30.5	29.0 30.0 30.0 28.5 29.5 28.5 27.0 27.0	SEPTEMB 27.5 28.0 28.5 27.5 27.5 27.5 27.5 27.5 25.5 25.0	28.5 29.0 29.0 28.5 28.0 27.5 27.0 26.5 26.0
1 2 3 4 5 6 7 8 9 10	24.0 24.5 25.0 25.0 24.5 22.5 22.5 23.0	JUNE 21.5 23.0 23.5 23.0 22.5 21.5 20.5	23.0 24.0 24.0 24.0 23.5 22.0 21.5 22.0	28.5 28.0 27.5 28.0 27.5 28.0 27.5 226.5 27.5 28.0 28.0 28.0	JULY 26.0 26.5 27.0 26.5 26.5 26.5 25.5 25.0 26.0 26.0	27.5 27.5 27.5 27.5 27.5 27.5 27.0 26.0 26.0 27.0	30.0 30.0 31.0 31.0 32.0 30.5 31.0 31.5 32.0	AUGUST 28.0 28.5 29.0 30.0 27.5 28.5 29.5 30.0 27.5 28.5 29.5	29.0 29.5 30.0 30.0 31.0 29.0 29.5 30.5 30.5	29.0 30.0 30.0 30.0 28.5 29.5 28.5 28.0 27.0	SEPTEMB 27.5 28.0 28.5 27.5 27.5 27.5 27.5 25.5	28.5 29.0 29.0 28.5 28.0 28.0 27.5 27.0 26.5 26.0
1 2 3 4 5 6 7 8 9 10 11 12 13 14	24.0 24.5 25.0 24.5 	JUNE 21.5 23.0 23.5 23.0 22.5 21.5 20.5 21.5 22.5	23.0 24.0 24.0 24.0 23.5 22.0 21.5 22.0 22.5 23.0	28.5 28.0 27.5 228.0 27.5 226.5 227.5 226.5 227.5 28.0 28.0 28.0 28.0 28.0 28.0	JULY 26.0 26.5 27.0 26.5 26.5 25.5 25.5 25.0 26.0 27.0 26.0	27.5 27.5 27.5 27.5 27.5 27.5 27.0 26.5 26.0 27.0 27.0 27.5 27.5	30.0 30.0 31.0 31.0 32.0 30.5 31.0 31.5 32.0 31.5 32.0	AUGUST 28.0 28.5 29.0 29.0 30.0 27.5 28.5 30.0 29.5 29.5 29.5 29.6 28.0 28.0	29.0 29.5 30.0 31.0 29.0 29.5 30.5 30.5 30.5 29.5 29.5 29.5 29.5 29.5	29.0 30.0 30.0 30.0 28.5 29.5 28.5 27.0 27.0 27.0 26.0 27.0 26.5 26.5	SEPTEMB 27.5 28.5 27.5 27.5 27.5 27.5 27.5 25.5 25.5 25	28.5 29.0 28.5 28.0 27.5 27.5 27.5 26.0 25.5 25.5 25.5
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01474500 SCHUYLKILL RIVER AT PHILADELPHIA, PA--Continued

SPECIFIC CONDUCTANCE (MICROMHOS/CM AT 25 DEG. C), WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

		TLOII 10	COMPOSITANO	E (HIOROHIII	DD/ CH AI	Z) DEG. C	, which I	LAN OUTO	DEN 1313 T	O DELLEMBE	1 1900	
DAY	MA X	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		ОСТОВЕ	ER		NOVEMBE	R		DECEMBE	R		JANUAR	Y
1 2 3 4 5	265 249 211 215 214	211 196 178 202 192	231 214 198 209 205	337 344 332 297 285	330 322 301 249 260	333 335 319 261 271	255 267 279 280 281	245 255 267 269 274	248 263 273 274 278	283 287 286 318 338	273 276 276 282 304	279 280 281 293 316
6 7 8 9	217 206 208 224 220	200 201 201 207 215	206 203 204 213 218	302 301 278 279 284	274 276 272 272 276	288 292 275 274 280	287 300 302 302 305	280 287 297 295 298	283 293 300 298 301	329 330 345 350 356	316 318 327 340 340	321 323 336 344 349
11 12 13 14 15	223 247 249 254 260	218 203 235 247 250	220 224 243 251 253	283 281 271 287 305	275 268 253 253 286	279 274 261 272 295	306 317 317 321 328	299 305 309 312 317	302 311 312 316 322	405 409 315 333 355	356 317 299 300 333	366 373 306 319 345
16 17 18 19 20	266 272 288 295 312	259 266 271 281 290	263 270 279 287 298	316 317 316 319 319	305 309 303 307 314	310 313 310 313 317	329 326 334 361 366	308 307 325 332 347	319 319 331 339 356	351 360 362 358 351	342 344 354 348 327	346 349 358 352 337
21 22 23 24 25	313 316 339	300 309 315	308 312 320	324 322 326 333 345	317 314 312 323 331	320 318 318 327 336	366 378 380 388 388	352 366 370 367 336	357 371 375 376 366	329 338 371 361 373	321 320 338 343 353	326 331 352 354 361
26 27 28 29 30 31	320 338 368 339 337	308 320 324 317 330	314 326 342 330 333	345 192 268 268 260	201 158 193 260 244	309 171 239 265 249	334 305 286 253 265 286	257 257 254 249 253 264	291 289 272 251 258 272	389 393 401 	362 381 381 	374 387 390
MONTH	368	178	260	345	158	291	388	245	307	409	273	337
DAY	MAX	MIN	MEAN	MA X	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		FEBRUAR	RY		MARCH			APRIL			MAY	
1 2 3 4 5	449 432	420 423	427	418 422 452 426 469	404 408 419 419 427	408 414 433 422 454	228 207 236 233 225	190 188 208 225 210	196 196 223 229 214	231 232 235 257 251	228 229 231 235 242	230 231 232 248 246
6 7 8 9	==	==		468 459 446 434 451	455 446 428 415 423	462 452 436 422 443	232 249 250 263 237	212 231 246 233 225	224 240 248 246 230	255 261 268 276 278	250 251 257 266 266	253 257 263 272 274
11 12 13 14 15	===	=======================================	===	416 406 503 423 387	388 362 344 388 362	403 379 375 402 378	244 248 233 255 258	224 228 228 231 243	230 235 231 244 250	288 289 289 237 265	272 281 237 204 237	280 285 274 220 257
16 17 18 19 20	474 474 473 482 483	467 471 470 471 477	470 473 472 477 481	363 349 328 282 268	345 334 222 238 247	354 345 263 267 257	254 263 269 281 281	245 247 258 253 276	248 253 265 269 279	256 254 256 271 284	247 244 246 253 262	251 247 251 265 271
21 22 23 24 25	485 426	476 407		255 207 201 206 206	194 164 183 190 196	244 183 191 198 201	266 274 291	255 262 272	261 268 282	287 303 284 307 287	264 277 277 275 266	276 289 281 294 277
26 27 28 29	434 431 431 410	423 412 405 402	429 422 414 406	206 220 232 237 234	194 206 221 229 217	198 213 228 234 224	299 313 317 311	284 293 304 211 211	291 299 311 253 229	298 294 287 298 304	266 265 260 261 277	280 281 273 278 292
30 31							234					
31 MONTH	485	402	447	229 503	200 164	216 326	317	188	248	318 318	285	304 266

01474500 SCHUYLKILL RIVER AT PHILADELPHIA, PA--Continued

SPECIFIC CONDUCTANCE (MICROMHOS/CM AT 25 DEG. C), WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

MEAN

DAY MAX MIN MEAN MAX MIN MEAN MAX MIN MEAN MAX MIN

DAI	MAX	HIN	MEAN	MAX	MIN	MEAN	MAX	HIN	MEAN	MAA	HIM	MEAN
		JUNE			JULY			AUGUST			SEPTEME	ER
1 2 3 4 5	326 377 361 362 358	293 301 342 331 338	312 341 350 343 349	442 445 439 438 413	408 434 433 404 389	427 439 436 423 399	401 394 401 456 448	385 384 388 391 424	393 390 395 428 437	545 549 571 535 540	463 471 459 442 462	513 513 512 497 519
6 7 8 9	389 389 385 389 387	353 371 372 371 352	375 385 378 381 364	402 414 429 442 448	384 391 400 427 437	393 406 417 436 444	435 397 453 456 455	305 336 382 439 421	350 374 418 448 439	549 553 563 568 570	509 508 519 553 559	532 537 550 563 565
11 12 13 14 15	360 359 352 357 367	347 345 345 348 358	354 353 348 352 363	448 438 432 434 434	434 418 405 415 421	440 430 422 425 430	432 464 465 468 446	409 416 443 434 436	423 441 451 454 440	567 547 504 503 517	542 493 479 489 493	554 519 495 496 504
16 17 18 19 20	375 374 376 384 378	364 366 367 362 370	368 371 372 376 374	446 401 424 434 426	391 357 391 411 405	419 376 410 424 414	464 478 509 517 509	438 458 463 498 471	454 468 491 511 496	559 560 556 525 538	510 550 383 426 524	532 555 440 507 530
21 22 23 24 25	373 374 404 406 421	350 355 371 388 405	361 362 384 396 410	411 422 417 406 402	400 404 371 371 391	405 416 395 395 397	495 508 526 538 536	433 418 438 452 464	479 478 491 505 512	540 534 511 524 529	531 508 492 510 493	535 522 505 514 511
26 27 28 29 30 31	426 429 418 413 418	414 409 402 396 391	420 419 409 405 405	416 404 405 413 414 401	376 371 384 391 389 387	398 389 395 402 402 395	533 538 	466 499	509	508 469 430 488 531	458 415 406 422 467	485 436 416 455 497
MONTH	429	293	373	448	357	413	538	305	449	571	383	510
YEAR	571	158	346									
			OXYGEN,	DISSOLVED	(DO), MG/	L, WATER	YEAR OCTOBER	1979 1	O SEPTEMB	ER 1980		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		остов	ER		NOVEMBE	ER		DECEMBE	CR .		JANUA	RY
1 2 3 4 5	=	==		9.8 9.7 10.0 10.4 11.5	9.5 9.4 9.7 10.1 10.6	9.7 9.6 9.9 10.3 10.8	13. 1 12. 7	12.7 12.4	12.6	12.6 12.5 12.8 12.8 12.7	12.3 12.2 12.5 12.4 12.4	12.4 12.4 12.6 12.6
6 7 8 9	=======================================	=	==	10.7 10.7 10.7 10.8 10.1	10.2 10.3 10.5 10.1 9.6	10.4 10.6 10.6 10.4 9.8	12.4 12.1 12.0 12.2 12.4	12.0 11.7 11.7 11.8 11.8	12.3 11.9 11.8 12.0 12.1	13.0 13.2 13.2 13.4 13.6	12.5 12.9 12.9 13.0 13.4	12.8 13.0 13.1 13.2 13.5
11 12 13 14 15	10.2 10.4 10.7 10.9	10.1 10.2 10.3 10.6	10.3 10.5 10.7	7.7 7.6	6.8	7.5	12.2 11.9 11.6 11.6	11.8 11.6 11.0 11.0	12.0 11.8 11.2 11.3	13.5 13.2 13.4 13.2	12.9 12.5 13.2 13.0 12.6	13.2 12.8 13.3 13.1 12.8
16 17 18 19 20	10.9 10.8 10.8 10.5 10.2	10.8 10.7 10.4 10.2 9.7	10.8 10.8 10.6 10.3	8.2 8.3 8.4 8.4	7.6 8.2 8.3 8.3	8.0 8.3 8.4 8.4	11.9 12.6 13.0 13.1 13.3	11.7 11.6 12.4 12.7 12.9	11.8 12.2 12.7 12.9 13.1	12.6 12.3 12.2 12.1 12.4	12.3 12.1 11.8 11.7 11.9	12.5 12.2 11.9 11.9 12.2
21 22 23 24 25	9.7 9.4 9.2	9.2 9.1 8.4	9.5 9.3 8.9		===	=======================================	13.5 13.3 13.0 12.5 12.1	13.0 13.0 12.5 12.1 11.7	13.2 13.1 12.8 12.3 11.9	12.4 12.6 12.5 12.3 12.6	12.1 12.1 12.0 11.9 12.1	12.2 12.4 12.3 12.1 12.4
26 27 28 29 30 31	9.2 10.0 9.2 9.7 9.7	8.7 9.0 7.8 9.3 9.6	9.0 9.6 8.7 9.6 9.6	===	=======================================	===	11.8 12.3 12.6 12.7 12.5	11.6 11.7 12.1 12.2 12.1	11.7 12.0 12.3 12.4 12.3	12.7 12.7 12.8	12.4 12.4 11.4	12.6 12.6 12.4

MONTH 10.9 7.8 9.9 11.5 6.8 9.5 13.5 11.0 12.2 13.6 11.4 12.6

SCHUYLKILL RIVER BASIN 205

01474500 SCHUYLKILL RIVER AT PHILADELPHIA, PA--Continued
OXYGEN, DISSOLVED (DO), MG/L, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

			OXYGEN,	DISSOLVED	(DO), M	G/L, WATER	YEAR OCTOBER	1979 TO	SEPTEMBER	1980			
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	
	FEBRUARY				СН		APRIL				MAY		
1				13.1	12.8	12.9	12.0	11.4	11.8				
2				13.4	12.6	13.1	11.7	11.1	11.3				
3				13.6	12.9		11.4	10.9	11.2	9.8	9.2		
5	14.9	13.8	13.1	13.4 13.1	13.0 12.1		10.9	10.4	10.6	9.6	8.8	9.2	
6 7				12.1 11.7	11.7		10.9 11.0	10.5	10.8	9.0	8.5	8.7 8.5	
8				11.5	10.9		10.5	10.0	10.3	9.3	7.8	8.4	
9				11.3	10.6		10.1	9.4	9.8 9.8	9.6	8.1	8.9 9.2	
10				11.2	10.3	10.8							
11				11.0	10.2		10.1 10.2	9.7	9.9	9.2 9.0	8.5 8.3	8.8	
12 13				11.1 11.6	11.0		10.2	9.4	9.8	8.9	8.2	8.6	
14				12.0	11.4	11.7	9.6	9.1	9.3	9.4	8.4	8.9	
15				13.2	12.1	12.6	9.5	8.9	9.3	9.2	8.7	9.0	
16	12.4	11.8	12.1	13.3	12.6		9.9	9.3	9.6	9.5	8.8	9.1	
17 18	11.8	11.2 9.9	11.6	12.7 12.0	11.8		10.5	9.6	9.6	9.6 9.1	8.7	9.1 8.9	
19	9.8	8.3	8.9	11.8	11.4					9.0	8.4	8.7	
20				11.9	11.4	11.8				8.6	8.2	8.3	
21				11.5	10.0	11.0				8.2	7.8	8.0	
22				11.6	10.1		10.0		9.9	8.9	8.1	8.4	
23				12.1 11.9	11.6		10.8	9.2	9.7	8.7 9.5	6.9	8.0	
25	11.9	11.6		11.8	11.6		9.8	8.8	9.2	9.3	7.8	8.5	
26	12.1	11.4	11.7	11.9	11.8	11.8	9.3	8.6	9.0	9.1	7.8	8.5	
27	12.2	11.7	12.0	12.1	11.7	11.9	9.3	8.7	9.0	9.6	7.8	8.9	
28	12.3	11.8	12.0	11.7	11.3		9.6	8.6	9.1	11.0	8.4 7.6	9.6 8.9	
29 30	12.9	11.8	12.4	11.4	11.0					9.8	7.7	8.7	
31				11.5	11.0					8.8	7.6	8.3	
MONTH	14.9	8.3	11.6	13.6	10.0	11.8	12.0	8.6	10.0	11.0	6.9	8.7	
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	
		JUNE				v		AUGUST			SEPTEMB	FR	
				0.00	JULY			AUGUST					
1 2	10.9	7.4	8.9	13.6 11.8	6.6 8.1					11.5	7.3 7.3	9.1 9.1	
3	8.6	6.8	7.5	9.7	5.2					12.1	6.8	9.3	
4	8.1	6.2	7.2	12.4	4.3					11.1	5.9	8.4	
5				11.1	7.1	9.4				8.8	6.4	7.6	
6				10.2	6.0					11.2	5.7	8.0	
7				12.5 9.7	7.2 6.8		10.4	8.9		12.3	7.0 8.1	9.6	
9							9.8	6.5	8.4	10.5	6.3	8.4	
10	10.0	7.2	8.7				11.2	5.3	7.9	11.4	5.4	8.2	
11	10.3	7.6	8.9				10.7	5.3	8.0	8.4	6.1	6.9	
12	11.5	8.0	9.7				7.8	4.7	6.3				
13 14							10.7	5.1	7.7 7.8				
15							8.5	6.1	7.2				
16							8.3	4.2	6.2	7.3	5.7		
17							10.4	4.9	7.2	5.5	3.9	4.4	
18 19							8.4	5.7	7.2 6.7	10.1	3.8	4.3	
20							10.2	6.0	8.1	7.5	6.0	6.7	
21							10.3	7.0	8.5	8.4	4.4	6.2	
22							8.6	6.4	7.5	8.1	5.2	6.4	
23	111 5	10 11					9.3	5.8	7.5 8.4	10.6	5.7	7.5	
24 25	14.5	12.4	12.4				14.5	6.3 7.1	10.0	8.7	4.2	6.3	
26	14.3	9.5	12.2				13.4	10.5	12.0				
27	13.5	8.9	11.6				13.4						
28	13.8	9.7	12.1				10.0						
29 30	13.0	7.8 6.7	11.0				12.0 11.4	6.3 7.0	9.1				
31							9.1	6.7	7.8				
MONTH	14.5	6.2	9.8	13.6	4.3	9.0	14.5	4.2	8.0	13.2	3.8	7.6	
MONTH	14.5	0.2	9.0	13.0	4.3	9.0	14.5	7.2	0.0	13.2	3.0	1.0	

SCHUYLKILL RIVER BASIN

01474500 SCHUYLKILL RIVER AT PHILADELPHIA, PA--Continued

PH (STANDARD UNITS), WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
	OCTOBER		NOVEMBER			-1	DECEMBER			JANUARY		
1 2 3 4 5	7.0 7.0 6.8 6.8 6.9	6.9 6.7 6.7 6.5 6.8	6.9 6.8 6.7 6.7	7.3 7.4 7.3 7.2 7.2	7.2 7.2 7.1 7.0 7.0	7.2 7.3 7.2 7.0 7.1	7.1 7.2 7.2 7.2 7.2	7.1 7.1 7.1 7.1 7.1	7.1 7.1 7.1 7.1 7.2	7.3 7.3 7.3 7.3 7.3	7.2 7.1 7.2 7.2 7.2	7.2 7.2 7.3 7.3 7.3
6 7 8 9	6.8 6.8 7.0 6.9	6.8 6.7 6.6 6.6 6.7	6.8 6.7 6.7	7.1 7.1 7.1 7.1 7.1	7.0 7.0 7.0 7.0 7.1	7.1 7.0 7.1 7.1 7.1	7.2 7.3 7.3 7.2 7.3	7.2 7.2 7.2 7.2 7.1	7.2 7.2 7.2 7.2 7.2	7.3 7.3 7.3 7.2 7.3	7.2 7.2 7.2 7.1 7.1	7.3 7.2 7.2 7.2 7.2
11 12 13 14 15	6.7 6.9 7.1 7.1	6.7 6.7 6.9 7.0	6.7 6.8 7.0 7.1	7.2 7.2 7.1 7.2 7.2	7.1 7.1 7.1 7.1 7.1	7.1 7.1 7.1 7.2 7.2	7.2 7.2 7.2 7.3 7.2	7.1 7.1 7.1 7.1 7.1	7.2 7.2 7.2 7.2 7.2	7.3 7.4 7.1 7.2 7.3	7.2 7.1 7.0 7.0 7.1	7.3 7.3 7.1 7.1 7.2
16 17 18 19 20	7.1 7.1 7.1 7.1 7.1	7.1 7.1 7.1 7.1 7.1	7.1 7.1 7.1 7.1 7.1	7.2 7.3 7.2 7.2 7.2	7.2 7.2 7.1 7.1 7.1	7.2 7.2 7.1 7.1 7.1	7.1 7.3 7.3 7.2 7.3	7.1 7.1 7.1 7.1 7.2	7.1 7.2 7.2 7.2 7.2	7.3 7.3 7.3 7.3 7.2	7.2 7.2 7.2 7.2 7.2	7.2 7.3 7.3 7.3 7.2
21 22 23 24 25	7.1 7.2 7.2 	7.1 7.0 7.1	7.1 7.1 7.1 	7.2 7.2 7.3 7.3 7.3	7.1 7.1 7.1 7.2 7.2	7.1 7.1 7.2 7.2 7.2	7.2 7.2 7.2 7.2 7.3	7.1 7.1 7.1 7.1 7.1	7.2 7.2 7.2 7.2 7.2	7.2 7.3 7.3 7.2 7.2	7.1 7.2 7.1 7.1 7.1	7.2 7.2 7.2 7.1 7.1
26 27 28 29 30 31	7.3 7.4 7.3 7.4 7.3	7.2 7.2 7.2 7.2 7.2 7.2	7.2 7.3 7.3 7.3 7.3	7.3 6.9 7.1 7.1	7.0 6.7 6.9 7.0 7.0	7.2 6.8 7.0 7.1 7.1	7.2 7.2 7.2 7.3 7.3	7.1 7.0 7.1 7.1 7.2 7.2	7.1 7.1 7.1 7.2 7.2 7.2	7.2 7.2 7.1	7.0 7.0 7.0	7.1 7.1 7.1
MONTH	7.4	6.5	7.0	7.4	6.7	7.1	7.3	7.0	7.2	7.4	7.0	7.2
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		FEBRUAR	Y		MARCH			APRIL			MAY	
1 2 3 4 5	7.1 7.0	7.0 6.9	7.0	1 ===	===	==	7.7 7.7 7.7 7.4 7.4	7.6 7.6 7.2 7.3 7.3	7.7 7.7 7.5 7.4 7.3	7.0 7.0 7.0 7.5 7.4	6.2 6.9 6.9 7.0 7.3	6.9 7.0 7.4 7.4
6 7 8 9	===	===	===	7.9 8.0 8.1	7.8 7.8 7.8	7.9 7.9	7.4 7.5 7.5 7.5 7.4	7.3 7.4 7.4 7.4 7.3	7.4 7.5 7.5 7.5 7.3	7.4 7.4 7.5 7.5 7.5	7.3 7.3 7.3 7.2 7.3	7.3 7.4 7.4 7.3 7.4
11 12 13 14 15	===	===	=======================================	7.9 7.8 7.7 7.9 7.7	7.7 7.7 7.6 7.6 7.6	7.8 7.7 7.7 7.7 7.7	7.3 7.4 7.4 7.4 7.4	7.2 7.2 7.2 7.3 7.3	7.3 7.3 7.3 7.3 7.3	7.4 7.4 7.4 7.2 7.3	7.3 7.3 7.2 7.1 7.2	7.4 7.3 7.3 7.1 7.2
16 17 18 19 20	===	===	===	7.8 7.8 7.8 7.6 7.6	7.7 7.7 7.5 7.4 7.5	7.8 7.8 7.7 7.5 7.6	7.3 7.3 7.3 7.3 7.2	7.3 7.2 7.2 7.1 7.1	7.3 7.3 7.3 7.2 7.2	7.3 7.4 7.3 7.4 7.3	7.2 7.2 7.2 7.2 7.2	7.3 7.3 7.3 7.3 7.3
21 22 23 24 25	===	===		7.8 7.5 7.5 7.6 7.6	7.4 7.3 7.4 7.5	7.6 7.4 7.4 7.5 7.6	7.9 7.7 7.5	7.5 7.4 7.3	7.6 7.5 7.4	7.3 7.3 7.3 7.4 7.5	7.2 7.2 7.2 7.1 7.2	7.3 7.3 7.3 7.3 7.4
26 27 28 29 30		===	===	7.5 7.6 7.7 7.9 7.9	7.5 7.4 7.6 7.6 7.8	7.5 7.5 7.6 7.7 7.8	7.4 7.4 7.4 7.3 7.2	7.3 7.3 7.3 7.1 6.9	7.4 7.4 7.4 7.2 7.1	7.5 7.6 8.2 7.7 7.7	7.3 7.4 7.4 7.3 7.3 7.3	7.4 7.5 7.7 7.5 7.5
31 MONTH	7.1	6.9	7.0	7.8 8.1	7.6 7.3	7.8 7.7	7.9	6.9	7.4	7.5 8.2	6.2	7.4

SCHUYLKILL RIVER BASIN

01474500 SCHUYLKILL RIVER AT PHILADELPHIA, PA--Continued

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PH (STANDARD UNITS), WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		JUNE			JULY			AUGUST			SEPTEME	ER
1 2 3 4 5	8.1 7.8 7.8 8.1 8.3	7.2 7.3 7.4 7.4 7.7	7.6 7.6 7.6 7.7 8.0	9.0 8.7 8.3 8.2 8.0	8.3 8.2 7.6 7.3 7.5	8.7 8.5 7.9 7.6 7.7	8.5 8.6 8.8	7.7 8.4 8.0	8.0 8.4	8.5 8.5 8.7	7.8 7.9 7.9 	8.1 8.2 8.3
6 7 8 9	===	===	===	7.6 7.8 8.4 8.6 8.4	7.2 7.3 7.3 7.5 7.5	7.4 7.5 7.9 8.2 8.0	8.2 8.4 8.7 8.7	7.0 7.2 7.5 8.4 8.0	7.3 7.8 8.2 8.6 8.3	===	===	===
11 12 13 14 15	===	===	===	8.4 8.2 9.0 8.9	7.3 7.5 8.7 8.5	7.8 7.9 8.7	8.2 7.9 8.4 8.5 8.2	7.4 7.1 7.5 7.5 7.6	7.8 7.5 7.9 8.0 7.8	===	===	===
16 17 18 19 20	8.9 8.6 9.1 9.1	8.5 8.0 7.6 8.5	8.7 8.4 8.4 8.7	9.0 8.6 8.4	8.5 7.6 7.5	8.8 8.0 7.9	7.8 8.0 7.8 7.8 8.1	7.2 7.2 7.3 7.4 7.4	7.5 7.5 7.6 7.6 7.8	7.8 7.5 7.4 8.3 8.0	7.5 7.4 7.2 7.2 7.6	7.4 7.2 7.7 7.8
21 22 23 24 25	9.5 9.5 9.7 9.5 9.5	8.7 9.0 8.9 9.2 9.0	9.1 9.3 9.3 9.3 9.3	9.0 9.0 8.7 8.5 8.7	8.4 8.6 8.1 7.5 7.5	8.7 8.8 8.4 8.0 8.1	8.2 7.8 7.8 8.1 8.8	7.5 7.5 7.4 7.3 7.4	7.8 7.6 7.6 7.6 8.0	8.0 7.7 8.3 8.0 7.7	7.4 7.4 7.5 7.4 7.4	7.7 7.5 7.8 7.6 7.5
26 27 28 29 30 31	9.4 9.2 9.2 9.0	9.0 8.8 8.8 8.5	9.2 9.0 9.0 8.8	8.8 8.7 9.1 9.0 8.7 8.5	7.6 7.9 7.9 7.6 8.0	8.4 8.5 8.4 8.2 8.3	8.6 8.5 8.9 8.7 8.6 8.1	8.1 8.2 8.3 7.8 7.9 7.6	8.4 8.6 8.3 8.3 7.8	7.5 7.7 7.6 7.7 7.6	7.4 7.5 7.5 7.4 7.3	7.5 7.6 7.5 7.6 7.5
MONTH	9.7	7.2	8.6	9.1	7.2	8.2	8.9	7.0	7.9	8.7	7.2	7.7

01475000 MANTUA CREEK AT PITMAN, NJ

LOCATION.--Lat 39°44'14", long 75°06'53", Gloucester County, Hydrologic Unit 02040202 at bridge on Delsea Drive in Pitman, and 2.0 mi (3.2 km) upstream from Porch Branch.

DRAINAGE AREA. -- 6.05 mi2 (15.67 km2).

WATER-QUALITY RECORDS

PERIOD OF RECORD. -- Water years 1958-59, 1962, 1975 to current year.

COOPERATION.--Analyses of fecal coliform and fecal streptococci by the MPN method, and water-phase nutrients were performed by the New Jersey Department of Health, Division of Laboratories and Epidemiology.

WATER QUALITY DATA, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

DATE	TIME	STREAM- FLOW, INSTAN- TANEOUS (CFS)	SPE- CIFIC CON- DUCT- ANCE (MICRO- MHOS)	PH FIELD (UNITS)	TEMPER- ATURE, WATER (DEG C)	OXYGEN, DIS- SOLVED (MG/L)	OXYGEN DEMAND, BIOCHEM UNINHIB 5 DAY (MG/L)	COLI- FORM, FECAL, EC BROTH (MPN)	STREP- TOCOCCI FECAL (MPN)	HARD- NESS (MG/L AS CACO3)
FEB 06 APR	0930	9.2	113	6.9	4.0	13.5	2.0	7	<2	36
23 JUN	0800		101	7.4	15.0	10.2	1.1	170	2	33
11	0900	9.2	99	7.0	18.5	9.3	1.4	50	240	31
JUL 31	1100 -	13	109	7.2	27.0	7.5	1.7	130	21	36
AUG 26	1010		109	7.3	24.0	8.0	1.1	340	350	35
DATE	CALCIUM DIS- SOLVED (MG/L AS CA)	MAGNE- SIUM, DIS- SOLVED (MG/L AS MG)	SODIUM, DIS- SOLVED (MG/L AS NA)	POTAS- SIUM, DIS- SOLVED (MG/L AS K)	BICAR- BONATE (MG/L AS HCO3)	CAR- BONATE (MG/L AS CO3)	ALKA- LINITY (MG/L AS CACO3)	SULFATE DIS- SOLVED (MG/L AS SO4)	CHLO- RIDE, DIS- SOLVED (MG/L AS CL)	FLUO- RIDE, DIS- SOLVED (MG/L AS F)
FEB 06	8.2	3.7	4.3	2.2	12	0	10	19	9.1	.1
23 JUN	7.6	3.3	3.6	2.1	18	0	15	15	8.1	.1
11	6.8	3.5	4.5	1.6	20	0	16	13	8.1	.1
JUL 31	8.1	3.9	3.8	2.2	24	0	20	12	8.4	.1
AUG 26	7.7	3.9	3.9	2.2	27	0	22	12	8.5	.1
D A "	SILIO DIS- SOL (MG AS TE SIO	VED DEC	DUÉ NIT	N, GE NO3 AMMO AL TOT /L (MG	N, GE ONIA ORGA CAL TOT G/L (MG	NIC ORGA AL TOT /L (MG	AM- A + NIT NIC GE AL TOT	N, OSPH AL TOT /L (MG	US, OPH CARBO ATE ORGA AL TOTA /L (MG	NIĆ AL /L
FEB 06		6.2	69 2	. 4	060	.39	.45 2	.8 <	.01	1.4
APR 23		2.4			120	12.0	. 45		.23	
JUN 11 JUL		4.1	78	.97 .	100	.17	.27 1	.2	.10	1.8
		3.5	61	.57 .	170	.69	.86 1	. 4	.06	4.1
		3.2	70	.65 .	110	.43	.54 1	.2	.06	3.3

01475045 MANTUA CREEK AT MANTUA, NJ

LOCATION.--Lat 39°47'42", long 75°10'21", Gloucester County, Hydrologic Unit 02040202, at bridge on State Route 45 in Mantua, 0.9 mi (1.4 km) downstream from Chestnut Branch, 1.3 mi (2.1 km) east of Gates of Heaven Memorial Park, and 2.4 mi (3.9 km) northwest of Barnsboro.

DRAINAGE AREA. -- 41.5 mi2 (107.5 km2).

WATER-QUALITY RECORDS

PERIOD OF RECORD. -- Water years 1975 to current year.

COOPERATION.--Analyses of fecal coliform and fecal streptococci by the MPN method, and water-phase nutrients were performed by the New Jersey Department of Health, Division of Laboratories and Epidemiology.

WATER QUALITY DATA, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

FEB	DATE	TIME	SPE- CIFIC CON- DUCT- ANCE (MICRO MHOS)	-)- FI	PH A	EMPER- TURE, JATER DEG C)	D SO	GEN, IS- LVED G/L)	DEM BIO UNI 5	GEN AND, CHEM NHIB DAY /L)	FI FI BI	OLI- ORM, ECAL, EC ROTH MPN)	STR TOCO FEC (MP	CAL	NE (M	G/L	(MG	VED
17 1130	06	1300	. 19)1	7.2	1.0		12.8		1.7		130		46		53	1	5
10 1200 166 7.1 17.0 7.3 2.3 5400 2400 43 12 JUL 29 1030 167 6.9 24.0 4.7 5.2 7900 35000 43 12 AUG 26 1130 203 7.5 23.5 8.6 4.8 1700 1700 58 17 MAGNE- SIUM, DIS- DIS- DIS- DIS- DIS- SOLVED SOLVED SOLVED (MG/L MG/L AS MG) AS NA) AS K) HCO3) AS CO3) CACO3) AS SOULD SOLVED (MG/L MG/L MG/L MG/L MG/L MG/L MG/L MG/L	17	1130	17	1	7.3	12.0		11.4				110		130		53	1	5
29 1030 167 6.9 24.0 4.7 5.2 7900 35000 43 12 AUG 26 1130 203 7.5 23.5 8.6 4.8 1700 1700 58 17 MAGNE_SIUM, DIS_DIS_DIS_SOLVED SOLVED SOLVED SOLVED (MG/L MG/L MG/L MG/L MG/L MG/L MG/L MG/L	10	1200	16	6	7.1	17.0		7.3		2.3		5400	2	2400		43	1	2
MAGNE	29	1030	16	57	6.9	24.0	:	4.7		5.2		7900	35	000		43	1	2
SIUM, SODIUM, SIUM, BICAR- DIS- DIS- DIS- DIS- SOLVED SOLVED SOLVED SOLVED SOLVED SOLVED (MG/L MS (MG/L MS MS)) AS CO3) SOLVED (MG/L MS (MG/L MS MS)) AS CO3) SOLVED SOLVED SOLVED (MG/L MS MS) AS CO3) AS CO3) AS CO4) AS CL) AS F) SOLVED (MG/L MS MS) AS CO3) AS CO3) AS CO4) AS CL) AS F) SOLVED (MG/L MS MS) AS CO3) AS CO3) AS CO4) AS CL) AS F) SOLVED (MG/L MS MS) AS CO3) AS CO4) AS CL) AS F) SOLVED (MG/L MS MS) AS CO3) AS CO4) AS CL) AS F) SOLVED (MG/L MS MS) AS CO3) AS CO4) AS CL) AS F) SOLVED (MG/L MS MS) AS CO3) AS CO4) AS CL) AS F) SOLVED (MG/L MS MS MS) AS CO3) AS CO4) AS CL) AS F) SOLVED (MG/L MS MS) AS CO3) AS CO4) AS CL) AS F) SOLVED (MG/L MS MS) AS CO3) AS CO4) AS CL) AS F) SOLVED (MG/L MS MS) AS CO3) AS CO4) AS CL) AS F) SOLVED (MG/L MS MS) AS CO3) AS CO4) AS CL) AS F) SOLVED (MG/L MS MS) AS CO3) AS CO4) AS CL) AS F) SOLVED (MG/L MS MS) AS CO3) AS CO4) AS CL) AS CO4 MS		1130	20	3	7.5	23.5		8.6		4.8		1700	1	700		58	1	7
06 3.8 14 3.0 34 0 28 26 18 .2 APR 17 3.7 2.9 34 0 28 24 13 .2 JUN 10 3.1 12 2.4 43 0 35 20 13 .2 JUL 29 3.2 12 3.5 39 0 32 17 14 .2 AUG 26 3.7 14 3.3 55 0 45 22 15 .3 SILICA, RESIDUE NITRO- NITRO- GEN, GEN, GEN, MONIA + NITRO- ORTHOPH CARBON, OSPHATE ORGANIC (MG/L MG/L MG/L MG/L MG/L MG/L MG/L MG/L	DATE	SI DIS SOL (MG	JM, SC S- D VED SC /L (IS- LVED MG/L	SIUM, DIS- SOLVED (MG/L	BICA BONA (MG	TE /L S	BONA'	TE /L	LINIT (MG/ AS	Y L	DIS- SOLV (MG/	ED L	RIDE DIS- SOLV (MG/	ED L	RID DI: SOL (MG	E, S- VED /L	
17 3.7 2.9 34 0 28 24 13 .2 JUN 10 3.1 12 2.4 43 0 35 20 13 .2 JUL 29 3.2 12 3.5 39 0 32 17 14 .2 AUG 26 3.7 14 3.3 55 0 45 22 15 .3 SOLIDS, SILICA, RESIDUE NITRO- NITRO- GEN, AM- MONTA + NITRO- ORTHOPH CARBON, GEN, GEN, GEN, GEN, GEN, MONTA + NITRO- ORTHOPH CARBON,	06		3.8	14	3.0	1	34		0		28	26		18			.2	
10 3.1 12 2.4 43 0 35 20 13 .2 JUL 29 3.2 12 3.5 39 0 32 17 14 .2 AUG 26 3.7 14 3.3 55 0 45 22 15 .3 SOLIDS, SILICA, RESIDUE NITRO- NITRO- GEN, AM- DIS- AT 180 GEN, GEN, GEN, MONIA + NITRO- ORTHOPH CARBON, SOLVED DEG. C NO2+NO3 AMMONIA ORGANIC ORGANIC (MG/L DIS- TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL AS SOLVED (MG/L) AS N) AS PO4) AS C) FEB 06 9.5 116 1.9 .150 .27 .42 2.3 .02 3.0 APR 17 7.6 96 1.4 .160 .36 .52 1.9 .22 2.9 JUN 10 7.5 108 1.0 .120 .48 .60 1.6 .46 5.4 JUL 29 8.1 112 .38 .120 1.3 1.4 1.8 .92 6.6	17	•	3.7		2.9		34		0		28	24		13			.2	
29 3.2 12 3.5 39 0 32 17 14 .2 AUG 26 3.7 14 3.3 55 0 45 22 15 .3 SOLIDS, SILICA, RESIDUE NITRO- NITRO- GEN, AM- GEN, AT 180 GEN, GEN, GEN, GEN, MONIA + NITRO- ORTHOPH CARBON, OSPHATE ORGANIC (MG/L DIS- TOTAL	10	•	3.1	12	2.4		43		0		35	20		13			.2	
26 3.7 14 3.3 55 0 45 22 15 .3 SOLIDS, SILICA, RESIDUE NITRO- NITRO- NITRO- GEN, AM- DIS- AT 180 GEN, GEN, GEN, GEN, MONIA + NITRO- ORTHOPH CARBON, ORGANIC ORGA	29		3.2	12	3.5		39		0		32	17		14			.2	
SILICA, RESIDUÉ NITRO- NITRO- GEN, AM- GEN, AM- GEN, AM- GEN, AM- GEN, AM- GEN, AM- GEN, GEN, GEN, GEN, GEN, GEN, GEN, GEN,			3.7	14	3.3		55		0		45	22		15			.3	
06 9.5 116 1.9 .150 .27 .42 2.3 .02 3.0 APR 17 7.6 96 1.4 .160 .36 .52 1.9 .22 2.9 JUN 10 7.5 108 1.0 .120 .48 .60 1.6 .46 5.4 JUL 29 8.1 112 .38 .120 1.3 1.4 1.8 .92 6.6 AUG	DATE	DIS- SOL (MG	CA, RE AT VED D /L	SIDUE 180 EG. C DIS- SOLVED	GEN, NO2+NO3 TOTAL (MG/L	GE AMMO TOT (MG	N, NIA AL /L	GE ORGA TOTA (MG	N, NIC AL /L	GEN, A MONIA ORGAN TOTA (MG/	M- IIC L 'L	GEN TOTA (MG/	Ľ L	PHORU ORTHO OSPHA TOTA (MG/	S, PH TE L	ORGA TOTA (MG	NIĆ AL /L	
APR 17 7.6 96 1.4 .160 .36 .52 1.9 .22 2.9 JUN 10 7.5 108 1.0 .120 .48 .60 1.6 .46 5.4 JUL 29 8.1 112 .38 .120 1.3 1.4 1.8 .92 6.6 AUG							450		0.7				•		00		2 0	
JUN 10 7.5 108 1.0 .120 .48 .60 1.6 .46 5.4 JUL 29 8.1 112 .38 .120 1.3 1.4 1.8 .92 6.6 AUG	APR																	
JUL 29 8.1 112 .38 .120 1.3 1.4 1.8 .92 6.6 AUG	JUN																	
AUG	JUL																	
	AUG								3.									

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).

WATER-QUALITY DATA

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

PERIOD DAILY RECORD. --

SPECIFIC CONDUCTANCE: October 1963 to current year.

pH: January 1968 to current year. WATER TEMPERATURES: December 1961 to current year. DISSJLVED OXYGEN: December 1961 to current year.

REMARKS .-- Not operated July 11, 1980, through Sept. 30, 1980. Other interruptions in the record were due to malfunctions of the instrument.

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 and Oct. 16, 1979; minimum 5.5 Dec. 10, 11, 1969. WATER TEMPERATURES: Maximum, 33.0°C July 21, 1977; minimum, freezing point on many days during winter months. DISSOLVED OXYGEN: Maximum, 13.5 mg/L Apr. 20, 1979; minimum, 0.0 mg/L on many days.

TEMPERATURE, WATER (DEG. C), WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
DAI	TIKK			HAA			HAA			HAA		
		OCTOBE	CR .		NOVEMBE	:R		DECEMBE	R .		JANUAR	Y
1	20.5	20.0	20.0	15.0	13.5	14.0	10.5	9.5	10.0			
2	21.0	19.5	20.5	15.5	13.5	14.5	10.5	8.5	10.0			
3	21.0	20.0	20.5	15.0	13.5	14.0	10.0	8.5	9.5			
4	20.5	19.5	20.0	14.5	13.0	13.5	9.5	8.5	9.0			
5				14.0	13.0	13.5	9.5	8.5	9.0			
6				14.0	13.0	13.5	10.0	8.5	9.0			
7				14.0	13.0	13.5	10.0	8.5	9.0			
8				14.0	12.5	13.0	9.5	7.5	8.5			
9	17.0	16.5		14.0	12.5	13.5	8.5	7.0	7.5			
10	16.5	14.5	15.5	14.0	13.0	13.5	8.5	7.0	7.5			
11	15.0	14.0	14.5	13.0	12.5	13.0	9.0	7.5	8.0			
12	15.0	14.0	14.5	13.0	12.0	12.5	9.0	7.5	8.0			
13	14.5	13.5	14.0	13.0	12.0	12.5	8.5	7.5	8.0			
14	13.5	12.5	13.5	12.5	11.5	12.0	8.0	7.0	7.5			
15	14.5	12.5	13.5	12.0	10.5	11.5	7.5	6.5	7.0			
16	14.5	13.0	13.5	11.5	10.5	11.0	7.0	6.5	7.0			
17	14.0	13.5	14.0	11.5	10.0	10.5	6.5	5.0	6.0			
18	15.0	13.5	14.0	11.5	10.0	11.0	5.5	4.5	5.0			
19	15.0	13.5	14.0	11.5	10.5	11.0	5.5	4.0	5.0			
20	15.0	14.0	14.5	11.5	10.5	11.0	5.0	3.5	4.5			
21	15.5	14.0	14.5	11.5	10.5	11.0	5.0	3.5	4.5			
22	16.0	14.5	15.0	12.0	11.0	11.5	5.0	4.0	4.5			
23	16.5	15.0	15.5	12.5	11.0	11.5	5.5	4.5	5.0			
24	15.5	14.5	15.0	13.0	11.0	12.0	6.0	4.5	5.5			
25	15.0	14.0	14.5	13.0	11.5	12.5	7.0	5.5	6.0			
26	14.5	13.5	14.0	14.5	12.5	13.5	6.5	5.5	6.0			
27	14.5	13.5	13.5	14.0	12.0	13.0	6.0	5.0	5.5			
28	14.0	13.0	13.5	13.0	12.0	12.5	6.0	4.5	5.5	5.5	4.5	
29	14.5	13.0	13.5	12.5	11.0	11.5				5.0	4.5	4.5
30	14.0	13.0	13.5	11.0	9.5	10.5				4.5	3.5	4.0
31	14.5	13.0	13.5							4.5	3.0	3.5
MONTH	21.0	12.5	15.0	15.5	9.5	12.5	10.5	3.5	7.0	5.5	3.0	4.0

						DELAWARE I	RIVER BASIN					211
			01	477050	DELAW	ARE RIVER	AT CHESTER,	PACont	inued			
			TEMPERATURE,	WATER	(DEG.	C), WATER	YEAR OCTOBER	1979 TO	SEPTEMBER	1980		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		FEBRUARY	1		MARC	н		APRIL			MAY	
1 2 3 4 5	4.0 3.5 3.5 3.5 3.5	2.5 2.0 2.0 2.0 2.0	3.0 2.5 2.5 2.5 2.5	4.5 4.0 4.0 4.0 4.5	3.0 2.5 2.5 2.5 3.0	3.5 3.0 3.0 3.5 4.0	10.0 10.5 11.0 10.5	8.0 9.0 9.0 9.0	9.0 9.5 9.5 9.5 9.5	15.0 16.0 16.0 16.0 17.0	13.5 14.0 14.5 15.0 15.0	14.0 15.0 15.5 15.5 16.0
6 7 8 9	3.0	2.0	===	6.0 5.5 6.5 7.5 8.0	3.5 3.5 4.5 5.0 5.5	4.5 4.5 5.5 6.0 6.5	11.5 12.0 12.5 12.5 13.5	9.0 9.5 10.5 11.0 11.5	10.0 10.5 11.5 12.0 12.5	17.5 18.0 17.5 17.0 17.5	15.5 16.5 16.5 16.0 16.0	16.5 17.0 16.5 16.5 16.5
11 12 13 14 15	3.5 3.5 4.0 4.5	2.5 2.5 2.5 2.5 3.0	3.0 3.0 3.0 3.5	7.5 7.0 6.5 6.5	6.0 5.5 5.0 4.0 5.0	7.0 6.5 6.0 5.5 6.0	14.0 14.5 14.5 14.0	12.5 12.5 13.0 13.0	13.0 13.5 14.0 13.5 14.0	17.5 18.5 19.5 19.5	16.5 16.5 17.5 18.0 18.0	17.0 17.5 18.5 19.0 19.0
16 17 18 19 20	4.0 4.0 3.5 4.0 4.5	3.0 2.5 2.5 2.5 2.5	3.5 3.0 3.0 3.0 3.5	7.5 8.5 9.0 9.5 9.5	5.5 6.0 7.0 7.0 7.5	6.5 7.0 8.0 8.0 8.5	13.5 13.5 14.0 14.5 15.0	12.0 12.0 12.5 12.5 13.0	13.0 12.5 13.0 13.5 14.0	19.5 20.0 19.5 20.5 20.5	18.0 18.5 18.5 19.0 19.5	19.0 19.5 19.0 19.5 20.0
21 22 23 24 25	5.5 5.0 6.0 6.0	3.0 3.5 4.0 4.5		10.5 10.0 9.5 9.0 8.5	8.0 8.0 8.0 7.5	9.0 8.5 9.0 8.5 8.0	15.5 15.5 15.0 15.5 15.5	13.5 13.5 13.5 14.0 14.5	14.0 14.0 14.0 14.5 15.0	20.0 20.5 21.5 21.5 22.0	19.0 19.0 20.0 20.5 20.5	19.5 20.0 20.5 21.0 21.0
26 27 28 29 30 31	6.0 5.5 5.0 5.0	4.5 4.0 3.5	5.0 5.0 4.5 4.0	8.0 8.0 8.5 9.0 9.5	6.5 7.0 7.0 7.5 8.0 8.0	7.5 7.5 8.0 8.5 9.0 8.5	14.5 14.5 14.5 14.0 14.0	14.0 13.5 13.5 13.5	14.5 14.0 14.0 14.0	21.0	20.5	20.5
MONTH	6.0	2.0	3.5	10.5	2.5	6.5	15.5	8.0	12.5	22.0	13.5	18.0
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
DAI	HAA	JUNE	PLAN	na a	JULY		· · · · ·	AUGUST		320	SEPTEMB	
1 2 3 4 5	===	===	===	26.0 27.0 26.5 27.0 27.5	25.0 25.0 25.5 26.0 26.0	25.5 26.0 26.0 26.5 26.5						
6 7 8 9	===		===	27.0 26.5 26.5 27.0 26.5	26.0 25.5 25.5 25.5 26.0	26.5 26.0 26.0 26.0 26.0						
11 12 13 14 15	22.5 22.5 23.0 23.5 23.5	21.5 21.5 21.5 22.0 22.5	22.0 22.5 22.5 23.0	===	=======================================	==						
16 17 18 19 20	23.0 23.5 23.5 23.5 23.0	22.5 22.0 22.5 22.5 22.5	23.0 23.0 22.5 23.0 22.5	=======================================	=======================================	==						
21 22 23 24 25	23.0 24.0 24.5 25.0 25.5	22.0 22.0 23.0 23.5 24.0	22.5 23.0 23.5 24.0 24.5	===	=======================================	==						

25.5 26.0 26.0 26.5 26.0

26.5

MONTH

24.0 24.5 25.0 25.0 25.0

21.5

25.0 25.5 25.5 25.5 25.5

23.5

27.5

== == == ==

25.0

===

26.0

01477050 DELAWARE RIVER AT CHESTER, PA--Continued

SPECIFIC CONDUCTANCE (MICROMHOS/CM AT 25 DEG. C), WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

	S	PEC IF IC	CONDUCTANCE	(MICROMHO	DS/CM AT	25 DEG. C), WATER Y	EAR OCTO	3EK 1979 1	O SEPTEMBER	1900	
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		остов	ER		NOVEMBE	R		DECEMBE	R		JANUAR	Y
1	316	282	297	311	257	270	247	227	234			
2 3 4	323 330 288	282 277 270	304 294	286 280	258 256	273 268	241 241	226 218	232 228			
5	288	270	277	282 287	256 266	268 275	244 247	208 204	225 219	122		
6				297	271	280	234	204	216 212			
7				290 288	261 260	275 270	237 281	195	218			
10	237 240	229	226	280 284	257 256	268 267	229 230	194 198	202 207			
11	230	206	216	282	250	262	239	199	212			
12 13	235 215	196 187	195	266 270	245 247	255 258	237 233	207 209	216 218			
14 15	198 208	181 180	187 189	264 263	249 245	255 252	236 233	200 212	219 222			
16	221 225	184	196	260	243 240	253 250	237 254	217	228			
17	225 228	190 194	204 208	268 257	240	250 247	254 259	221 228	235 240			
19	227	199	211	255 255	238 235 238	246 245	254 260	210 234	242 246			
		206			241	248		237	252			
21 22	237 243 246	213 217	221 227	262 263	243	251	265 275	247	261			
23 24	246 254	217 221	228 231	261 268	245 248	253 255	286 281	255 258	267 270			111
25	250	222	233	264	251	257	283	262	272			
26	245	225	236	270	195	250 248	284 296	267 272	275 283		===	
27 28	252 265	230 232 246	241	270 288	191 261	274	302	283	290	309	297	
29 30	265 267	246 246	254 256	265 244	211 228	250 236				311 313	298 298	303 302
30 31	267 272	246 252	260			7				315	297	304
MONTH	330	180	233	311	191	259	302	194	237	315	297	303
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		FEBRUA	RY		MARCH	·		APRIL			MAY	
1	316	299	305	579	441 440	504	209 210	174 184	186 197	241 237	212 209	225 219
2 3 4	313 316	300 301	306 308	662 726	460	521 559	213	187	198	229	213	219
5	317 322	303 307	309 313	934 831	482 484	644 615	206 217	184 182	194 193	231 231	210 214	220 221
6	322	309		689	473	573	206	182	192	230	213	221
7 8			222	731 735	471 472	569 584	204 204	181 181	191 191	223 225	209	217 214
9			===	682 685	470	568 573	259 209	188 185	202 196	248 254	206 205	216 220
11	390	331		750	454	549	212	195	203	241	207	215
12 13	386 413	330 333	353 365	559 574	436 428	494 487	212	187 186	197 195	226 240	206 197	214
14	424	342 348	375	730	421	515 450	210 214	181 187	193 195	232 238	204	216 220
15	453		385	516	417			181	191	234	209	
16 17	954 582	358 375	468 447	531 510	400 412	455 459	201 198	172	185	238	216	223
18 19	638 575	379 383	460 461	510 480	383 384	423 418	211 197	173 173	184 183	241 237	212	224
20	666	396	496	449	353	393	217	173	186	234	213	223
21 22	805 831	422 425	566 586	396 315	241	347 278	200 210	179 181	190 191	249 235	216 217	227 226
23	921	432	610	283	214	243	209	182	193	248	224	234
24 25	757 749	444	581 574	230 205	180 166	204 185	206 210	186 189	195 198	239 236	225 221	231 229
26	744	448	560	191	153	171	213	191	199	237	217	225
27 28	942 650	458 452	600 549	189 183	152 150	167 168	215 222	191 194	202 207	1 TI		777
29 30	639	450	527	191 194	155 167	173 180	222 250	193 208	208 229			222
31				202	168	185						
MONTH	954	299	457	934	150	408	259	172	195	254	197	221

01477050 DELAWARE RIVER AT CHESTER, PA--Continued

		SPECIFIC	CONDUCTANCE	(MICROMH	OS/CM AT	25 DEG.	C),	WATER	YEAR O	TOBER	1979 T	O SEPTEMBE	R 1980	
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN		MAX	MIM	ME.	EAN	MAX	MIN	MEAN
		JUNE			JULY				AUGU	JST			SEPTEME	BER
1				477	319	379								
2				444	319	377								
3				434	310	371								
2 3 4				431	324	377								
5				454	331	387								
6 7 8 9				456	334	382								
7				435	327	371								
8				470	321	384								
9				507	332	396								
10				590	355	423								
11	289	256												
12	288	253	270											
13	321	250	267											
14	315	258	274											
15	289	256	274											
16	282	257	268											
17	290	260	275											
18	310	277	291											
19	326	277	302											
20	330	286	306											
21	335	282	304											
22	331	283	308											
23	341	283	313											
24	34.8	297	320											
25	367	299	331											
26	369	306	338											
27	405	303	351											
28	398	315	357											
29	470	317	373											
30	480	318	367											
31														
MONTH	480	250	310	590	310	385								

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		остовь	ER		NOVEMBE	ER		DECEMBE	ER		JANUAR	Y
1	5.2	3.4	4.3	4.4	4.0	4.2	7.4	6.5	7.0			
2	4.9	3.1	3.9	4.7	3.9	4.2	7.7	6.8	7.0			
3	5.0	2.9	4.0	5.3	4.2	4.6	7.6	6.9	7.2			
4	5.1	3.7	4.5	4.6	4.1	4.3	8.0	7.2	7.5			
5				4.4	4.1	4.2	7.8	7.4	7.6			
6				4.4	3.9	4.1	7.6	7.3	7.5			
7				4.4	3.8	4.0	7.9	7.2	7.4			
8				5.1	3.9	4.2	8.5	7.3	7.8			
9	6.0	5.5		4.8	4.3	4.5	8.6	7.9	8.2			
10	6.9	5.9	6.3	5.2	4.4	4.7	8.7	8.1	8.3			
11	6.9	6.1	6.6	5.4	4.5	4.8	8.3	8.0	8.1			
12	6.8	6.2	6.5	5.9	4.7	5.1	8.5	7.8	8.0			
13	6.5	6.0	6.2	5.8	5.1	5.3	8.2	7.7	7.9			
14	6.8	6.0	6.3	5.7	5.2	5.4	8.5	7.8	8.0			
15	6.7	6.1	6.3	6.3	5.5	5.8	8.3	7.8	7.9			
16	6.4	5.9	6.1	6.6	6.0	6.3	8.0	7.7	7.8			
17	6.0	5.6	5.8	6.9	6.1	6.5	9.0	7.7	8.2			
18	5.7	5.3	5.5	6.7	6.2	6.4	9.1	8.0	8.5			
19	5.6	5.0	5.2	6.3	5.9	6.1	9.2	8.2	8.6			
20	5.1	4.7	4.9	6.3	5.6	5.8	9.5	8.5	8.9			
21	5.0	4.3	4.6	6.0	5.3	5.5	9.6	8.9	9.0			
22	4.6	3.8	4.3	5.6	5.2	5.3	9.1	8.7	8.9			
23	4.4	3.8	4.1	5.6	4.9	5.1	9.1	8.4	8.6			
24	4.7	4.1	4.4	5.4	4.7	4.9	8.5	8.2	8.3			
25	4.8	4.4	4.6	5.0	4.6	4.8	8.7	8.2	8.5			
				, , ,			0.1	10.00				

5.6 6.0 5.9 5.9

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8.3 8.2 8.5

6.5

8.4

8.6 9.0

8.1

8.6

9.1

9.6

7.3 6.7 7.2 7.4

7.4

6.1

6.3

6.0

6.3

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4.7 5.6 5.6 5.6 6.0

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2.9

5.1 5.0 5.0 4.7 4.7

4.5

6.9

MONTH

OXYGEN, DISSOLVED (DO), MG/L, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

01477050 DELAWARE RIVER AT CHESTER, PA--Continued OXYGEN, DISSOLVED (DO), MG/L, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

			OXIGEN,	DISSOLVED	(DO), MG/	L, WAIER	TEAR OCTOBER	19/9 1	O SEFIEMBE	n 1900		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		FEBRUAR	Y		MARCH			APRIL			MAY	
				. 7								
1 2	7.8	6.5 7.2	7.1				10.0	8.5	9.4 8.9			_ ====
3	8.5	7.6	8.0				9.0	8.1				
4	8.5	7.9	8.2									
5	8.4	7.9	8.2							0.00		
6	8.2	7.9										
7												
8											777	
10												57-
11	8.5	7.9										
12	8.5	7.7	7.9									
13 14	8.2	7.5	7.8)		
15	7.9	7.2 6.7	7.6				8.5	7.1	===	6.2	5.7	6.1
				-								
16	7.6	6.3	6.9				7.3	6.8	7.1	6.3	5.9	6.1
17 18	7.1	5.5	6.8	===			8.9 8.9	7.2	8.1	6.2	5.4	5.9 5.9
19	7.1	6.4	6.8				9.1	7.7	8.3	6.1	5.3	5.7 5.8
20	6.8	6.0	6.4				8.6	7.4	8.2	6.0	5.7	5.8
21	6.8	5.5	6.1				8.8	7.6	8.1	6.4	5.9	6.0
22	6.6	5.5	6.0							6.6	5.9	6.2
23 24	5.9	5.4	5.8							6.8	6.1 5.7	6.3
25	5.5	4.3	4.9							6.7	5.8	6.1
26	5.4	4.2	5.0							6.6	6.2	6.3
27	6.3	4.8	5.6									
28	6.5	5.6	5.8	.===								
29 30	6.1	5.4	5.7	10.7 10.6	9.0	10.1					===	
31				10.1	8.9	9.5						
MONTH	8.5	4.2	6.7	10.7	8.9	9.8	10.0	6.8	8.3	6.8	5.3	6.0
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		JUNE			JULY			AUGUST	- Trial		SEPTEMB	ER
				2 5		2 5						
1 2				3.7 3.6	3.3	3.5						
3				3.5	3.2	3.3						
5				3.6	3.2 3.3	3.3 3.4						
				3.7	3.3	3.4						
6				3.9	3.3	3.6						
7				4.1	3.7	3.9						
9				3.7	3.3	3.5						
10				3.5	3.4	3.4						
11	4.9	4.0										
12	5.1	4.7	4.9									
13 14	5.1	4.6	4.9									
15	4.9	4.6	4.8									
16	4.8	4.5	4.7	22.22								
17	4.8	4.3	4.6									
18	4.6	4.3	4.5									
19 20	4.6	4.3 4.3 4.3	4.5									
21 22	4.8	4.4	4.6	7.7		TTT						
23	4.8	4.4	4.5									
24	4.5	4.3	4.4									
25	4.4	4.1	4.3									
26	4.3	3.8	4.0									
27 28	4.1 3.9	3.7 3.6	3.9 3.8									
29	3.8	3.5	3.8									
30	3.7	3.4	3.5									
31												
	5.1	3.4	4.4	4.2	3.2	3.5						
MONTH	2.1	5.			3	3.2						

01477050 DELAWARE RIVER AT CHESTER, PA--Continued

PH (STANDARD UNITS), WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

			rn	(SIANDAND	UNIIS),	WAIER IEAR	OCTOBER	919 10 35	FIEMBER	1900		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		OCTOBER	?		NOVEME	ER		DECEMBE	R		JANUA	RY
1	6.8	6.7	6.8	6.6	6.4	6.5	6.9	6.7	6.8	-		
2	6.9	6.8	6.8	6.6	6.5	6.5	6.9	6.8	6.8			
3	6.9	6.5	6.7	6.7	6.5	6.6	6.9	6.7	6.8			===
5		6.6		6.7	6.5	6.5	7.0 6.9		6.9			
6				6.7	6.5	6.6	6.9	6.8	6.8			
7 8				6.6	6.6	0.0	6.9	6.8	6.8			
9	6.8	6.6		6.7	6.6	6.6	6.8	6.7	6.7			
10	6.9	6.7	6.8	6.7	6.7	6.7	6.9	6.7	6.8			
11	6.8	6.7	6.7	6.8	6.6	6.7	6.8	6.7	6.8			
12 13	6.7	6.4	6.6	6.7	6.6	6.7	6.8	6.7	6.8			
14 15	6.7	6.6	6.6	6.7	6.6	6.7	6.9	6.7	6.8			===
16	8.7	6.6	6.8	6.8	6.7	6.7	6.8		6.7			
17	7.4	6.6	6.7	6.8	6.6	6.7	6.9	6.7	6.7			
18	6.6	6.6	6.6	6.8	6.7	6.8	6.8	6.6	6.7			
19 20	6.6	6.5	6.6	6.8	6.7	6.7	6.8	6.7 6.7	6.7			
21	6.5	6.5	6.5	6.7	6.6	6.7	6.9	6.8	6.8			
22	6.5	6.5	6.5	6.7	6.6	6.7	6.9	6.8	6.9			
23 24	6.5	6.5	6.5	6.7	6.6	6.6	6.9	6.8	6.9			
25	6.5	6.4	6.5	6.6	6.6	6.6	6.9	6.8	6.9			
26	6.6	6.4	6.5	6.8	6.6	6.7	6.9	6.8	6.8			
27 28	6.6	6.5	6.5	6.8	6.6	6.7	6.9 7.0	6.7	6.8	6.8	6.7	
29	6.6	6.5	6.5	6.7	6.6	6.7	7.0			7.0	6.7	6.8
30	6.6	6.5	6.5	6.9	6.6	6.8				7.0	6.7	6.8
31	6.6	6.4	6.5							6.9	6.7	6.8
MONTH	8.7	6.4	6.6	6.9	6.4	6.7	7.0	6.4	6.8	7.0	6.7	6.8
DAY	MA X	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		FEBRUARY	1		MARC	Н		APRIL			MAY	
1	6.9	6.8	6.8	6.9	6.8	6.9	6.3	6.1	6.1			
2	7.0	6.8	6.9	6.9	6.8	6.9	6.3	6.1	6.2			
3	7.1	6.8	6.9 7.0	7.1 7.2	6.5	6.9 7.1	6.2	6.1			===	
5	7.2	6.9	7.0	7.2	7.1	7.1						
6	7.0	7.0		7.2	7.1	7.2						
7				7.2	7.0	7.1						
8				7.1 6.9	6.5	6.8 6.7						
10				6.8	6.5	6.7				6.7	6.6	
11	7.1	6.8		6.9	6.6	6.7				6.7	6.6	6.6
12	7.1	6.9	7.0	6.6	6.5	6.6				6.7	6.4	6.6
13 14	7.1 7.1	6.9	7.0	6.8 6.8	6.5	6.6 6.7				6.7	6.4	6.6
15	7.1	6.8	6.9	6.7	6.6	6.7				6.8	6.7	6.7
16	7.1	6.8	6.9	6.7	6.2	6.4				6.8	6.7	6.7
17 18	7.0	6.8	6.9	6.8	6.3	6.6				6.8	6.6	6.7
19	7.1 7.1	6.7	6.9	6.8	6.5	6.6				6.8	6.7	6.8
20	7.0	6.7	6.9	6.7	6.5	6.6				6.8	6.6	6.7
21	7.0	6.8	6.9	6.7	6.5	6.6				6.8	6.7	6.7
22	7.0	6.9	6.9 7.0	6.7	6.5	6.6				6.8	6.4	6.6 6.5
24	6.9	6.8	6.9	6.7	6.4	6.6				6.8	6.4	6.7
25	6.8	6.7	6.8	6.6	6.4	6.5				6.8	6.5	6.7
26 27	6.8	6.7	6.8	6.5	6.4	6.4				6.8	6.7	6.7
28	6.9	6.7	6.8	6.5 6.4	6.3	6.3						
29	6.9	6.7	6.8	6.4	5.9	6.1						
30 31				6.1	5.9	6.0						
					6.0	6.1						
MONTH	7.2	6.7	6.9	7.2	5.9	6.6	6.3	6.1	6.2	6.8	6.4	6.7

DELAWARE RIVER BASIN

01477050 DELAWARE RIVER AT CHESTER, PA--Continued

PH (STANDARD UNITS), WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

				,	,			,		.,,,,		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		JUNE			JULY			AUGUST			SEPTEN	BER
1				6.6	6.5	6.6						
2				6.7	6.6	6.6						
2				6.6	6.6	6.6						
4				6.6	6.5	6.6						
5				6.6	6.5	6.5						
6				6.6	6.5	6.5						
7				8.0	6.4	6.7						
8				6.7	6.4	6.6						
9				6.7	6.6	6.6						
10				6.7	6.6	6.6						
11	7.1	6.7										
12	6.7	6.6	6.7									
13 14	6.7	6.6	6.6									
14	6.7	6.6	6.6									
15	6.6	6.6	6.6									
16	6.6	6.5	6.6									
17	6.7	6.5	6.6									
18	6.6	6.6	6.6									
19	6.6	6.6	6.6									
20	6.6	6.6	6.6									
21 22	6.6	6.5	6.6									
22	6.6	6.5	6.6									
23	6.6	6.5	6.6									
24	6.6	6.5	6.6									
23 24 25	6.6	6.5	6.5									
26 27 28	6.6	6.5	6.5									
27	6.5	6.5	6.5									
28	6.5	6.5	6.5									
29	6.5	6.5	6.5									
30	6.6	6.5	6.5									
29 30 31												
MONTH	7.1	6.5	6.6	8.0	6.4	6.6						

01477100 RACCOON CREEK NEAR MULLICA HILL, NJ

LOCATION.--Lat 39°42'31", long 75°12'05", Gloucester County, Hydrologic Unit 02040202, at bridge on Cedar Grove-Richwood Grove Road, 0.6 mi (1.0 km) upstream from Miery Run, 1.0 mi (1.6 km) downstream from outflow of Ewan Lake, 2.5 mi (4.0 km) southeast of Mullica Hill, and 4.0 mi (6.4 km) southwest of Pitman.

DRAINAGE AREA. -- 10.1 mi2 (26.2 km2).

WATER-QUALITY RECORDS

PERIOD OF RECORD. -- Water years 1953-63, 1975 to current year.

COOPERATION.--Analyses of fecal coliform and fecal streptococci by the MPN method, and water-phase nutrients were performed by the New Jersey Department of Health, Division of Laboratories and Epidemiology.

WATER QUALITY DATA, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

DATE	TIME	SPE- CIFIC CON- DUCT- ANCE (MICRO- MHOS)	FI	PH A	EMPER- TURE, JATER DEG C)	SOI	GEN, IS- LVED G/L)	DEM BIO UNI 5	GEN AND, CHEM NHIB DAY /L)	FO FE BR	LI- RM, CAL, C OTH PN)	STREP- TOCOCCI FECAL (MPN)	N (1	ARD- ESS MG/L AS ACO3)	SC (1	CIUM IS- OLVED MG/L G CA)
FEB 07	1030	147		7.0	3.0		13.6		1.2		14	49		51		14
APR 09	0900	128		6.8	13.5		9.4		1.3		130	110		41		11
JUN 03	0930	137		6.9	23.0		7.4		1.1		33	79		43		11
JUL 31 AUG	1230	145		7.1	26.0		7.1		1.0		40	920		52		14
21	1310	143		7.4	22.5		7.7		1.2		330	230		49		13
DATE	MAGN SIU DIS SOLV (MG/ AS M	M, SOD - DI ED SOL L (M	IUM, S- VED G/L NA)	POTAS- SIUM, DIS- SOLVED (MG/L AS K)	BICA	TE /L S	CAR BONA (MG AS C	TE /L	ALKA LINIT (MG/ AS CACO	Y L	SULFA DIS- SOLVI (MG/I	TE RI DI ED SO L (M	LO- DE, S- LVED G/L CL)	RI D SO (M	UO- DE, IS- LVED G/L F)	
FEB 07	. 4	. 0	3.4	2.7		11		0		9	30		10		.1	
APR 09	. 3	. 4	2.9	2.8		11		0		9	26		8.3		. 1	
JUN 03 JUL	. 3	. 8	3.4	2.7		20		0		16	25		9.2		.1	
31 AUG	. 4	. 2	3.2	3.5		24		0		20	22		10		.1	
21	. 4	. 1	3.3	3.4		51		0		42	22		9.8		.2	
DATE	SILIC DIS- SOLV (MG/ AS SIO2	A, RES AT ED DE L D SO	IDS, IDUE 180 G. C IS- LVED G/L)	NITRO- GEN, NO2+NO3 TOTAL (MG/L AS N)	GE	N, NIA AL /L	NIT GE: ORGA TOTA (MG: AS:	N, NIC AL /L	NITRO GEN, A MONIA ORGAN TOTA (MG/ AS N	M- HIC L L	NITRO GEN TOTAL (MG/I AS N	PHO O- ORT OSP TO	OS- RUS, HOPH HATE TAL G/L PO4)	ORG.	BON, ANIC FAL G/L C)	
FEB 07	. 7	. 2	92	E3.0		040		.23		27		-	<.01		6.9	
APR 09	. 5	. 4	82	2.1		260		. 24		50	2.	5	.16		4.5	
JUN 03	. 5	. 8	106	1.8.		140		.21		35	2.	2	.53	-	4 8	
JUL 31 AUG	. 5	. 0	90	.82		160		. 42		58	1.4	1	.12		3.7	
21	. 5	. 4	90	.88	. (030		.56		59	1.5	5	.09		1.5	

01477120 RACCOON CREEK NEAR SWEDESBORO, NJ

LOCATION.--Lat 39°44'28", long 75°15'33", Gloucester County, Hydrologic Unit 02040202, on right bank 25 ft (8 m) downstream from county bridge No. 5-F-3 on Harrisonville-Gibbstown Road, 1.8 mi (2.9 km) west of Mullica Hill, and 2.8 mi (4.5 km) east of Swedesboro.

DRAINAGE AREA .-- 29.9 mi2 (77.4 km2).

WATER-DISCHARGE RECORDS

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

GAGE.--Water-stage recorder. Datum of gage is National Geodetic Vertical Datum of 1929. Prior to July 28, 1969, at datum 7.96 ft (2.426 m) higher. July 28, 1969 to Sept. 30, 1969, at datum 5.96 ft (1.817 m) higher.

REMARKS.--Water-discharge records fair except those from Oct. 1-30 and those for period of no gage-height record, Oct. 30 to Dec. 6, which are poor.

AVERAGE DISCHARGE.--14 years, 43.4 ft3/s (1.229 m3/s), 19.71 in/yr (501 mm/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 3,530 ft³/s (100 m³/s) Aug. 10, 1967, elevation, 17.44 ft (5.316 m) present datum; minimum daily, 2.9 ft³/s (0.082 m³/s) July 14, Aug. 27, 28, Sept. 10, 1966.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 268 ft 3 /s (7.59 m 3 /s) Oct. 10, elevation, 10.16 ft (3.097 m), no peak above base of 300 ft 3 /s (8.50 m 3 /s); minimum, 11 ft 3 /s (0.31 m 3 /s) Aug. 27-29, Sept. 3-5, 13, 14.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980 MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	
1 2 3 4 5	116 118 89 78 50	32 47 87 66 48	36 34 33 33 35	32 31 30 29	32 31 30 30 30	26 25 26 27 28	176 74 54 94 84	118 66 50 43 35	23 22 23 24 22	23 19 20 23 18	84 39 22 24 19	13 13 12 11 12	
6 7 8 9	60 47 42 40 157	40 40 39 38 43	52 47 39 34 32	28 29 30 32 34	30 30 31 31 31	31 30 32 34 30	54 49 49 88 137	31 29 39 40 36	21 22 31 24 30	17 16 16 17	22 17 16 16 15	12 12 12 12 12	
11 12 13 14	140 71 71 58 48	61 100 70 55 47	31 30 38 50 43	47 133 57 43 39	29 30 29 29 30	33 29 39 119 59	70 56 54 49 59	40 34 35 34 31	26 23 21 21 21	17 16 15 15	17 23 17 16 15	12 12 12 12 13	
16 17 18 19 20	44 42 41 40 39	43 38 40 42 44	35 34 32 34 35	37 36 39 70 45	36 36 31 30 31	40 37 41 36 33	48 42 41 40 39	30 29 41 42 39	36 26 22 21 20	13 15 15 14 13	16 14 14 15	12 13 28 17 15	
21 22 23 24 25	40 39 38 41 39	42 41 41 40 40	34 36 37 36 46	39 40 51 40 37	31 38 50 32 29	100 105 49 42 138	38 36 35 35 36	47 40 33 30 29	19 18 18 17	13 20 52 21 16	14 14 14 13 13	15 13 13 13 12	
26 27 28 29 30 31	38 36 37 38 36 34	56 82 52 45 39	40 35 33 33 32 32	36 35 35 35 33 32	28 28 28 27	66 47 42 74 81 130	35 46 74 110 69	26 25 24 24 23 24	17 17 17 30 67	15 15 14 43 20 16	13 12 12 12 12 12	12 12 11 11 11	
TOTAL MEAN MAX MIN CFSM IN.	1807 58.3 157 34 1.95 2.25	1498 49.9 100 32 1.67 1.86	1131 36.5 52 30 1.22 1.41	1263 40.7 133 28 1.36 1.57	908 31.3 50 27 1.05 1.13	1629 52.5 138 25 1.76 2.03	1871 62.4 176 35 2.09 2.33	1167 37.6 118 23 1.26 1.45	716 23.9 67 17 .80	568 18.3 43 13 .61	577 18.6 84 12 .62 .72	390 13.0 28 11 .44	

CAL YR 1979 TOTAL 22109 MEAN 60.6 MAX 900 MIN 22 CFSM 2.03 IN 27.51 WTR YR 1980 TOTAL 13525 MEAN 37.0 MAX 176 MIN 11 CFSM 1.24 IN 16.83

01477120 RACCOON CREEK NEAR SWEDESBORO, NJ--Continued WATER-QUALITY RECORDS

PERIOD OF RECORD. -- Water years 1965 to current year.

PERIOD OF DAILY RECORD.--WATER TEMPERATURES: May 1966 to September 1973. SUSPENDED-SEDIMENT DISCHARGE: June 1966 to September 1969.

COOPERATION.--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.

WATER QUALITY DATA, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

DATE	TIME	STREAM- FLOW, INSTAN- TANEOUS (CFS)	SPE- CIFIC CON- DUCT- ANCE (MICRO- MHOS)	PH FIELD (UNITS)	TEMPER- ATURE, WATER (DEG C)	OXYGEN, DIS- SOLVED (MG/L)	OXYGEN DEMAND, BIOCHEM UNINHIB 5 DAY (MG/L)	COLI- FORM, FECAL, EC BROTH (MPN)	STREP- TOCOCCI FECAL (MPN)	HARD- NESS (MG/L AS CACO3)
OCT 18	0900	41	158	7.2	12.0	9.8	1.1	50	490	58
FEB 13	1100	30	180	7.1	1.5	13.4	.5	270	2	68
APR 09	1100	80	130	6.9	14.0	9.5	1.8	1600	>2400	44
JUN										
03	1200	22	166	7.3	22.0	7.9	1.0	240	1700	57
16 AUG	1100	14	178	7.2	23.5	8.3	1.0	170	200	63
25	1210	13	193	7.7	21.5	8.9	.7	3500	200	76
DATE	CALCIUM DIS- SOLVED (MG/L AS CA)	MAGNE- SIUM, DIS- SOLVED (MG/L AS MG)	SODIUM, DIS- SOLVED (MG/L AS NA)	POTAS- SIUM, DIS- SOLVED (MG/L AS K)	BICAR- BONATE (MG/L AS HCO3)	CAR- BONATE (MG/L AS CO3)	ALKA- LINITY (MG/L AS CACO3)	SULFIDE TOTAL (MG/L AS S)	SULFATE DIS- SOLVED (MG/L AS SO4)	CHLO- RIDE, DIS- SOLVED (MG/L AS CL)
OCT 18	17	3.7	3.9	3.4	27	0	22		28	11
FEB 13	21	3.7	5.0	3.1	30	0	25		28	12
APR 09	13	2.9	3.8	2.7	21	0	17		25	8.5
JUN 03	17	3.5	5.8	3.0	38	0	31	.0	26	12
JUL									188	
16 AUG	19	3.7	4.2	3.6	39	0	32		22	11
25	23	4.6	3.9	4.0	49	0	40		22	12
DATE	FLUO- RIDE, DIS- SOLVED (MG/L AS F)	SILICA, DIS- SOLVED (MG/L AS SIO2)	SOLIDS, RESIDUE AT 180 DEG. C DIS- SOLVED (MG/L)	NITRO- GEN, NO2+NO3 TOTAL (MG/L AS N)	NITRO- GEN, AMMONIA TOTAL (MG/L AS N)	NITRO- GEN, ORGANIC TOTAL (MG/L AS N)	NITRO- GEN, AM- MONIA + ORGANIC TOTAL (MG/L AS N)	NITRO- GEN, TOTAL (MG/L AS N)	PHOS- PHORUS, ORTHOPH OSPHATE TOTAL (MG/L AS PO4)	CARBON, ORGANIC TOTAL (MG/L AS C)
OCT 18	.2	10	109	1.9	.200	1.1	1.3	3.2	.09	4.8
FEB 13	.2	10	104	2.3	.030	.39	.42	2.7	.32	1.0
APR 09	.2	7.2	93	1.5	.160	.56	.72	2.2	1.4	7.8
JUN 03	.2	10	118	1.6	.260	.03	.29	1.9	.38	4.1
JUL 16	.2	10	121	1.2	.060	.43	.49	1.7	.21	2.8
AUG 25	.3	12	108	1.3	.120	.38	.50	1.8	.40	5.1
						37.0				
	DATE	TIME	ALUM- INUM, DIS- SOL VED (UG/L AS AL)	ARSENIC TOTAL (UG/L AS AS)	BERYL- LIUM, TOTAL RECOV- ERABLE (UG/L AS BE)	BORON, TOTAL RECOV- ERABLE (UG/L AS B)	CADMIUM TOTAL RECOV- ERABLE (UG/L AS CD)	CHRO- MIUM, TOTAL RECOV- ERABLE (UG/L AS CR)	COPPER, TOTAL RECOV- ERABLE (UG/L AS CU)	
	JUN 03	1200	0	2	0	50	0	<10	1	

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DELAWARE RIVER BASIN

01477120 RACCOON CREEK NEAR SWEDESBORO, NJ--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

			MANGA					
	IRON, TOTAL	LEAD, TOTAL	MANGA- NESE, TOTAL	MERCURY TOTAL	NICKEL, TOTAL	SELE-	ZINC, TOTAL	
	RECOV- ERABLE (UG/L	RECOV- ERABLE (UG/L	RECOV- ERABLE (UG/L	RECOV- ERABLE (UG/L	RECOV- ERABLE (UG/L	NIUM, TOTAL (UG/L	RECOV- ERABLE (UG/L	PHENOLS
DATE	AS FE)	AS PB)	AS MN)	AS HG)	AS NI)	AS SE)	AS ZN)	(UG/L)
JUN 03	1700	9 m 3	40	<.1	2	0	10	1

01477510 OLDMANS CREEK AT PORCHES MILL, NJ

LOCATION.--Lat 39°41'57", long 75°20'01", Salem County, Hydrologic Unit 02040206, at bridge on Kings Highway in Porches Mill, 150 ft (46 m) downstream of tributary from outflow of lake at Porches Mill, 1.0 mi (1.6 km) north of Seven Stars, and 2.1 mi (3.3 km) southeast of Auburn.

DRAINAGE AREA. -- 21.0 mi2 (54.4 km2).

WATER-QUALITY RECORDS

PERIOD OF RECORD. -- Water years 1975 to current year.

COOPERATION.--Analyses of fecal coliform and fecal streptococci by the MPN method, and water-phase nutrients were performed by the New Jersey Department of Health, Division of Laboratories and Epidemiology.

WATER QUALITY DATA, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

DATE	TIME	STREAM- FLOW, INSTAN- TANEOUS (CFS)	SPE- CIFIC CON- DUCT- ANCE (MICRO- MHOS)	PH FIELD (UNITS)	TEMPER- ATURE, WATER (DEG C)	OXYGEN, DIS- SOLVED (MG/L)	OXYGEN DEMAND, BIOCHEM UNINHIB 5 DAY (MG/L)	COLI- FORM, FECAL, EC BROTH (MPN)	STREP- TOCOCCI FECAL (MPN)	HARD- NESS (MG/L AS CACO3)
OCT 18	1130	33	187	7.1	13.5	9.8	1.0	33	80	70
FEB 14	1200	10	200	7.1	3.0	12.8	.5	49	79	76
APR 17	0900	34	162	7.2	10.0	11.6		79	33	64
JUN 10	0900	17	166	6.8	16.5	7.6	1.9	350	1600	63
AUG 25	1040	2.5	205	7.6	21.5	8.4	1.4	460	240	68
SEP 24	1220	1.5	215	7.7	21.5	8.5	1.5	540	920	81
DATE	CALCIUM DIS- SOLVED (MG/L AS CA)	MAGNE- SIUM, DIS- SOLVED (MG/L AS MG)	SODIUM, DIS- SOLVED (MG/L AS NA)	POTAS- SIUM, DIS- SOLVED (MG/L AS K)	BICAR- BONATE (MG/L AS HCO3)	CAR- BONATE (MG/L AS CO3)	ALKA- LINITY (MG/L AS CACO3)	SULFIDE TOTAL (MG/L AS S)	SULFATE DIS- SOLVED (MG/L AS SO4)	CHLO- RIDE, DIS- SOLVED (MG/L AS CL)
OCT 18	20	4.8	3.8	3.8	29	0	24	.0	30	16
FEB										
14 APR	22	5.1	4.3	3.1	29	0	24		33	14
17 JUN	18	4.6	3.5	3.0	22	0	18		28	11
10 AUG	18	4.3	3.6	2.9	34	0	28	.5	22	13
25 SEP	21	3.7	5.6	3.8	51	0	42		22	14
24	25	. 4.4	3.9	4.0	54	0	44	.0	25	15
DATE	FLUO- RIDE, DIS- SOLVED (MG/L AS F)	SILICA, DIS- SOLVED (MG/L AS SIO2)	SOLIDS, RESIDUE AT 180 DEG. C DIS- SOLVED (MG/L)	NITRO- GEN, NO2+NO3 TOTAL (MG/L AS N)	NITRO- GEN, AMMONIA TOTAL (MG/L AS N)	NITRO- GEN, ORGANIC TOTAL (MG/L AS N)	NITRO- GEN, AM- MONIA + ORGANIC TOTAL (MG/L AS N)	NITRO- GEN, TOTAL (MG/L AS N)	PHOS- PHORUS, ORTHOPH OSPHATE TOTAL (MG/L AS PO4)	CARBON, ORGANIC TOTAL (MG/L AS C)
OCT 18	.2	12	133	2.7	.200	.40	.60	3.3	.06	4.8
FEB 14	.2	11	123	E3.6	.240	.03	.27		.18	1.6
APR 17	.2	8.6	109	2.5	.120	.31	.43	2.9	.12	2.7
JUN 10	.2	8.4	122	1.8	. 150	.68	.83	2.6	.22	5.5
AUG 25	.3	14	122	1.4	.110	.59	.70	2.1	.28	3.3
SEP 24	.3	15	136	1.3	.110	.55	.66	2.0	.28	3.7

01477510 OLDMANS CREEK AT PORCHES MILL, NJ--Continued WATER QUALITY DATA, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

DATE	TIME	ALUM- INUM, DIS- SOLVED (UG/L AS AL)	ARSENIC TOTAL (UG/L AS AS)	BERYL- LIUM, TOTAL RECOV- ERABLE (UG/L AS BE)	BORON, TOTAL RECOV- ERABLE (UG/L AS B)	CADMIUM TOTAL RECOV- ERABLE (UG/L AS CD)	CHRO- MIUM, TOTAL RECOV- ERABLE (UG/L AS CR)	COPPER, TOTAL RECOV- ERABLE (UG/L AS CU)
OCT								
18 JUN	1130	9.40	1	0	20	0	20	2
10	0900	20	2	0	30	0	<10	2
SEP 24	1220	30	2	0	70	0	10	3
DATE	IRON, TOTAL RECOV- ERABLE (UG/L AS FE)	LEAD, TOTAL RECOV- ERABLE (UG/L AS PB)	MANGA- NESE, TOTAL RECOV- ERABLE (UG/L AS MN)	MERCURY TOTAL RECOV- ERABLE (UG/L AS HG)	NICKEL, TOTAL RECOV- ERABLE (UG/L AS NI)	SELE- NIUM, TOTAL (UG/L AS SE)	ZINC, TOTAL RECOV- ERABLE (UG/L AS ZN)	PHENOLS (UG/L)
OCT 18	950	4	40	.2	3	0	30	2
JUN 10 SEP	2700	3	120	<.1	8	0	30	0
24	1500	9	90	<.1	9	0	20	3

01482100 DELAWARE RIVER AT DELAWARE MEMORIAL BRIDGE, AT WILMINGTON, DE

LOCATION.--Lat 39°41'21", long 75°31'19", New Castle County, Hydrologic Unit 02040205, on pier of right tower of downstream bridge of dual bridges at Wilmington, 2.0 mi (3.2 km) downstream from Christina River and at channel mile 67.70 (107.64 km).

DRAINAGE AREA. -- 11,030 mi2 (28,570 km2).

TIDE ELEVATION DATA

PERIOD OF RECORD. -- July 1967 to current year. Tidal volumes published from July 1967 to September 1973.

GAGE.--Water-stage recorder and water-quality monitor. Datum of gage is -10.00 ft (-3.048 m) National Geodetic Vertical Datum of 1929. Gage-height record converted to elevation above or below (-) National Geodetic Vertical Datum 1929 for publication.

EXTREMES FOR PERIOD OF RECORD. -- Maximum, 7.45 ft (2.271 m) Dec. 2, 1974; minimum, -5.86 ft (-1.786 m) Apr. 4, 1975.

EXTREMES OUTSIDE PERIOD OF RECORD.--Maximum elevation known, 8.4 ft (2.56 m) Nov. 23, 1950, furnished by Corps of Engineers, U.S. Army; minimum, -9.1 ft (-2.77 m) Dec. 31, 1962.

EXTREMES FOR CURRENT YEAR.--Maximum elevation recorded, 5.72 ft (1.743 m) Oct 5; minimum recorded, -4.26 ft (1.298 m) Dec 17.

Summaries of tide elevations during current year are as follows:

TIDE ELEVATIONS, IN FEET, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

		OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL.	AUG	SEP
Maximum	Elevation	5.72	5.51	5.18	44				-4.		4.98	4.80	4.44
high tide	Date	5	26	20							10	22,23	25
Minimum	Elevation	-2.85	-2.87	-4.26							-2.53	-2.58	-3.96
low tide	Date	9	29	17		44					24	28	27
Mean high ti	ide	4.22	3.94	3.46					44				3.03
Mean water 1	evel	1.36	1.17	0.63							100		0.39
Mean low tid	le	-1.60	-1.69	-2.12									-2.38

NOTE. --Missing or doubtful record on Jan. 3 to June 19, July 1-8, July 31 to Aug. 14.

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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, DE, and Deepwater Point, NJ.

DRAINAGE AREA. -- 11,030 mi2 (28,600 km2).

WATER-QUALITY DATA

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 months.
DISSOLVED OXYGEN: Maximum, 13.7 mg/L Feb. 8, 9, 1980; minimum, 0.0 mg/L on many days during summer months.

TEMPERATURE, WATER (DEG. C), WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

4.1										300	Name of the last	
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		остовя	ER		NOVEMBE	:R		DECEMBE	R		JANUAR	Y
1 2 3 4 5	20.5 22.0 23.5 21.0 20.5	20.0 20.0 20.5 20.0 20.0	20.5 20.5 21.5 20.5 20.0	13.5 14.0 14.0 13.5 13.5	13.0 13.0 13.0 13.0	13.0 13.5 13.5 13.5	10.5 10.0 9.5 9.0 8.5	10.0 9.5 8.5 8.0 8.0	10.5 10.0 9.0 8.5 8.5	5.0 5.0 5.0 4.5 4.0	4.5 4.5 4.5 4.0 3.5	5.0 5.0 4.5 4.0 3.5
6 7 8 9	20.0 20.5 18.0 17.5 17.0	19.5 18.0 17.5 17.0 16.0	20.0 19.0 18.0 17.5 16.5	13.5 13.0 13.0 13.0 13.0	12.5 12.5 12.0 12.5 12.5	13.0 13.0 12.5 12.5 13.0	8.5 8.5 8.0 8.0	8.0 8.0 7.5 7.0	8.0 8.5 8.0 7.5 7.5	3.5 3.5 3.5 3.0 3.0	3.0 3.0 3.0 3.0 2.5	3.5 3.0 3.0 3.0
11 12 13 14	16.0 15.5 15.0	15.0 15.0 15.0	15.5 15.5 15.0	13.0 13.0 12.5 12.5	12.5 12.5 12.0 12.0 11.0	13.0 12.5 12.5 12.0 11.5	8.0 8.0 8.0 7.5	7.0 7.0 7.5 7.0 6.5	7.5 7.5 7.5 7.5 7.0	3.5 3.5 3.5 3.5 5.0	2.5 3.0 2.5 2.5 3.0	3.0 3.5 3.0 3.0 4.0
16 17 18 19 20	14.5 15.0 15.5	14.0 14.0 14.0	14.5 14.5 15.0	11.5 11.0 11.0 11.0	11.0 10.5 10.5 10.5	11.5 11.0 11.0 10.5 11.0	7.5 7.5 6.0 6.0 5.0	6.5 5.5 5.0 5.0 4.0	7.0 6.5 6.0 5.5 4.5	5.0 4.5 5.0 5.0	3.5 4.0 4.0 4.5	4.0 4.5 4.5 4.5
21 22 23 24 25	15.5 16.0 16.0 16.0	14.5 15.0 15.0 15.0 14.5	15.0 15.5 15.5 15.5	11.0 11.0 11.5 11.5	10.5 10.5 11.0 11.0	11.0 11.0 11.0 11.5	4.5 5.0 5.0 5.5	4.0 4.5 4.5 5.0	4.5 4.5 5.0 5.0	5.0 5.0 5.0 4.5 4.0	4.0 4.0 4.0 3.5 3.5	4.5 4.5 4.0 4.0
26 27 28 29 30 31	14.5 14.0 14.0 13.5 13.5	14.0 13.5 13.5 13.0 13.0	14.5 14.0 13.5 13.5 13.0 13.0	12.5 12.5 12.5 12.0 11.5	11.5 12.0 12.0 11.0 10.5	12.0 12.5 12.5 11.5 11.0	5.5 5.5 5.5 5.5 5.5	5.0 5.0 5.0 4.5 4.5	5.5 5.0 5.0 5.0	4.0 4.0 4.0 3.5 3.0	3.5 3.0 3.0 2.5 2.0	4.0 3.5 3.5 3.5 3.0 2.5
MONTH	23.5	13.0	16.5	14.0	10.5	12.0	10.5	4.0	6.5	5.0	1.5	4.0

01482100 DELAWARE RIVER AT DELAWARE MEMORIAL BRIDGE, NEAR WILMINGTON, DE--Continued TEMPERATURE, WATER (DEG. C), WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

			TEMPERATUR	te, WAIER	(DEG. C), WAIER	TEAR OCTOBER	1919 1	O SEFTEMBER	1900		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		FEBRUARY			MARCH			APRIL			MAY	
1	2.5	1.5	2.0	2.5	1.5	2.5	10.0	8.5	9.0			
2	2.0 1.5	.5	1.5	2.0	1.0	1.5	10.5	9.5				
5	1.0	.0	.5	2.0	1.5	1.5	10.0 10.5	9.5	10.0			
6	1.0	.0	.5	3.5 3.5	1.5	2.5	11.0 11.5	10.0	10.5			
8	1.0	.0	.5	3.5	2.5		12.0 12.5	11.0	11.5			
9 10	1.0	.0	.5		===							
11	1.0	.0	.5									
12	1.5	.5	1.0							10.0	17 5	18.0
13 14	2.0	1.0	1.0	===						18.0	17.5 17.5	18.0
15	2.0	1.0	1.5							18.5	18.0	18.0
16	2.0	1.5	1.5							18.5	18.0	18.5
17 18	2.0	1.0	1.5					111		19.0	18.5	18.5 18.5
19	2.0	1.0	1.5							19.5 19.5	18.5	19.0
20	2.5	1.5	2.0									
21 22	3.0	1.5	2.5					111		19.5	19.0	19.0
23	3.5	2.5	3.0							20.5	19.5	20.0
24 25	4.0	3.0	3.5 3.5	10.0	9.5 9.5	9.5 9.5	15.5 15.5	15.0 15.0	15.5	21.0	20.0	20.5
26	4.0	3.0	3.5	9.5	8.5	9.0	15.5	15.0	15.0	21.0	20.5	21.0
27	3.5	2.5	3.0	9.5	8.0	9.0	15.0	14.5	15.0	21.0	20.5	20.5
28 29	3.5 3.0	2.5	3.0	9.5	8.0	9.0	15.0	14.0	14.5	21.0	20.5	20.5
30				9.5	8.5	9.0				21.5	20.5	21.0
31				9.0	8.5	9.0						
MONTH	4.0	.0	1.5	10.0	.5	6.0	15.5	8.5	12.0	21.5	17.5	19.5
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		JUNE			JULY			AUGUST			SEPTEMB	ER
1	22.5	JUNE 21.5	22.0	26.0	25.0	25.5		AUGUST	-22	28.5	27.5	28.0
2	23.0	21.5	22.5	26.0	25.0 25.0	25.5		===		28.5	27.5 28.0	28.0 28.0
3	23.0 23.0 23.0	21.5 22.0 22.5 22.5	22.5 23.0 23.0	26.0 26.5 27.0	25.0 25.0 26.0 26.0	25.5 26.0 26.0		===	==	28.5 28.5 28.5	27.5 28.0 28.0 28.0	28.0 28.0 28.5 28.0
2	23.0	21.5 22.0 22.5	22.5	26.0	25.0 25.0 26.0	25.5		===		28.5 28.5	27.5 28.0 28.0 28.0 27.0	28.0 28.0 28.5 28.0 28.0
2 3 4 5	23.0 23.0 23.0 23.0	21.5 22.0 22.5 22.5 22.5 22.5	22.5 23.0 23.0 22.5	26.0 26.5 27.0 27.0	25.0 25.0 26.0 26.0 26.0	25.5 26.0 26.0 26.5		===	===	28.5 28.5 28.5 28.5	27.5 28.0 28.0 28.0 27.0	28.0 28.0 28.5 28.0 28.0
2 3 4 5	23.0 23.0 23.0 23.0	21.5 22.0 22.5 22.5 22.5	22.5 23.0 23.0 22.5	26.0 26.5 27.0 27.0	25.0 25.0 26.0 26.0 26.0	25.5 26.0 26.0 26.5	===	===	=	28.5 28.5 28.5 28.5 28.0 28.0	27.5 28.0 28.0 28.0 27.0 28.0 27.5 27.0	28.0 28.5 28.0 28.0 28.0 28.0 27.5
2 3 4 5 6 7 8 9	23.0 23.0 23.0 23.0 23.0 23.5 23.5 23.5	21.5 22.0 22.5 22.5 22.5 22.5 22.5 22.5 22	22.5 23.0 23.0 22.5 22.5 22.5 23.0 22.5	26.0 26.5 27.0 27.0 27.0 26.5 26.5 26.5	25.0 25.0 26.0 26.0 26.0 26.0 26.0 26.0	25.5 26.0 26.0 26.5 26.5 26.5 26.0 26.0	===		===	28.5 28.5 28.5 28.5 28.0 28.0 27.5	27.5 28.0 28.0 28.0 27.0 28.0 27.5 27.0 27.0	28.0 28.5 28.0 28.0 28.0 28.0 27.5 27.0
2 3 4 5 6 7 8 9	23.0 23.0 23.0 23.0 23.5 23.5 23.5 23.0 22.0	21.5 22.5 22.5 22.5 22.5 22.5 23.0 22.0 21.5	22.5 23.0 23.0 22.5 22.5 22.5 23.0 22.5 22.0	26.0 26.5 27.0 27.0 26.5 26.5 26.5 27.0	25.0 25.0 26.0 26.0 26.0 26.0 26.0 26.0 26.0 26	25.5 26.0 26.0 26.5 26.5 26.5 26.0 26.0	=======================================			28.5 28.5 28.5 28.5 28.0 28.0 27.5 27.0	27.5 28.0 28.0 28.0 27.0 28.0 27.5 27.0 27.0 26.5	28.0 28.5 28.0 28.0 28.0 28.0 27.5 27.0 27.0
2 3 4 5 6 7 8 9 10	23.0 23.0 23.0 23.0 23.5 23.5 23.5 22.0	21.5 22.0 22.5 22.5 22.5 22.5 22.5 23.0 21.5	22.5 23.0 23.0 22.5 22.5 22.5 23.0 22.5 22.0 21.5	26.0 26.5 27.0 27.0 26.5 26.5 26.5 27.0	25.0 25.0 26.0 26.0 26.0 26.0 26.0 26.0 26.0 26	25.5 26.0 26.5 26.5 26.5 26.0 26.5 26.5 26.5	===		===	28.5 28.5 28.5 28.5 28.0 28.0 27.5	27.5 28.0 28.0 28.0 27.0 28.0 27.5 27.0 27.0	28.0 28.5 28.0 28.0 28.0 28.0 27.5 27.0
2 3 4 5 6 7 8 9 10 11 12 13	23.0 23.0 23.0 23.0 23.5 23.5 23.0 22.0 22.0 23.0	21.5 22.0 22.5 22.5 22.5 22.5 22.5 22.0 22.0	22.5 23.0 23.0 22.5 22.5 23.0 22.5 22.0 21.5 22.0	26.0 26.5 27.0 27.0 27.0 26.5 26.5 26.5 27.0 27.5	25.0 25.0 26.0 26.0 26.0 26.0 26.0 26.0 26.0 26	25.5 26.0 26.5 26.5 26.5 26.0 26.5 26.0 26.5 26.0 27.0	 29.5			28.5 28.5 28.5 28.5 28.0 28.0 27.5 27.0 26.5 26.5	27.5 28.0 28.0 28.0 27.0 27.0 27.5 27.0 27.0 26.5	28.0 28.0 28.5 28.0 28.0 28.0 27.5 27.0 27.0 26.5 26.5
2 3 4 5 6 7 8 9 10	23.0 23.0 23.0 23.0 23.5 23.5 23.0 22.0 22.0 23.0 23.0	21.5 22.0 22.5 22.5 22.5 22.5 22.5 22.0 22.0	22.5 23.0 23.0 22.5 22.5 23.0 22.5 23.0 22.5 22.0	26.0 26.5 27.0 27.0 27.0 26.5 26.5 27.0 27.5 27.5	25.0 25.0 26.0 26.0 26.0 26.0 26.0 26.0 26.0 26	25.5 26.0 26.5 26.5 26.5 26.0 26.0 26.5 26.0 26.5	=======================================			28.5 28.5 28.5 28.5 28.0 27.5 27.0 26.5	27.5 28.0 28.0 28.0 27.0 27.5 27.0 26.5	28.0 28.5 28.0 28.0 28.0 28.0 27.5 27.0 27.0 26.5 26.5
2 3 4 5 6 7 8 9 10 11 12 13 14 15	23.0 23.0 23.0 23.0 23.5 23.5 23.5 22.0 22.0 22.0 23.0 23.0	21.5 22.0 22.5 22.5 22.5 22.5 22.5 22.5 22	22.5 23.0 23.0 22.5 22.5 22.5 23.0 22.5 22.0 21.5 22.0 22.5 22.0	26.0 26.5 27.0 27.0 27.0 26.5 26.5 27.0 27.5 27.5 28.0 27.5	25.0 25.0 26.0 26.0 26.0 26.0 26.0 26.0 26.0 26	25.5 26.0 26.5 26.5 26.0 26.5 26.0 26.5 27.0 27.0 27.0	 29.5 29.5 29.5	 29.5 29.0 29.0	29.5	28.5 28.5 28.5 28.0 28.0 27.5 27.5 26.5 26.5 26.5	27.5 28.0 28.0 28.0 27.0 27.5 27.0 27.0 26.5 26.0 26.0 26.0 25.5	28.0 28.0 28.5 28.0 28.0 27.5 27.0 27.0 26.5 26.0 26.0 26.0
2 3 4 5 6 7 8 9 10 11 12 13 14 15	23.0 23.0 23.0 23.0 23.5 23.5 23.5 22.0 22.0 22.0 23.0 23.0 23.0 23.0	21.5 22.0 22.5 22.5 22.5 22.5 23.0 22.0 21.5 21.5 21.5 22.5 22.5 22.5	22.5 23.0 23.0 22.5 22.5 22.5 23.0 22.5 22.0 22.0 22.5 22.5 22.5 22.5	26.0 26.5 27.0 27.0 27.0 26.5 26.5 27.0 27.5 27.5 28.0 28.5	25.0 26.0 26.0 26.0 26.0 26.0 26.0 26.0 26	25.5 26.0 26.5 26.5 26.5 26.0 26.5 27.0 27.0 27.0 27.5	 29.5 29.5 29.5 29.0 28.5	 29.5 29.0 28.5 27.5	29.5 29.5 29.5 29.5 28.5	28.5 28.5 28.5 28.5 28.0 28.0 27.5 26.5 26.5 26.5 26.5 26.5 26.5	27.5 28.0 28.0 27.0 27.5 27.0 27.5 27.0 26.5 26.0 26.0 26.0 25.5	28.0 28.0 28.5 28.0 28.0 27.5 27.0 26.5 26.0 26.0 25.5 25.0
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18	23.0 23.0 23.0 23.0 23.5 23.5 23.5 23.0 22.0 23.0 23.0 23.0 23.0 23.0 23.0	21.5 22.0 22.5 22.5 22.5 22.5 22.5 22.5 22	22.5 23.0 22.5 22.5 22.5 23.0 22.5 22.0 22.5 22.0 22.5 22.5 22.5 22	26.0 27.0 27.0 26.5 26.5 27.0 27.5 27.5 27.5 27.5 28.0 27.5 28.0 27.5	25.0 26.0 26.0 26.0 26.0 26.0 26.0 26.5 26.5 27.0 27.5	25.5 26.0 26.5 26.5 26.0 26.5 26.0 26.5 27.0 27.0 27.5 27.5 28.0	 29.5 29.5 29.5 29.0 28.5 28.0	29.5 29.0 28.5 27.5	29.5 29.5 29.0 28.5 28.0 27.5	28.5 28.5 28.5 28.5 28.0 27.0 26.5 26.5 26.5 26.5 26.5 26.5 26.5 26.5	27.5 28.0 28.0 28.0 27.0 27.5 27.0 27.0 26.5 26.0 26.0 26.0 25.5	28.0 28.0 28.5 28.0 28.0 27.5 27.0 27.0 26.5 26.0 26.0 26.0 26.0 26.0
2 3 4 5 6 7 8 9 10 11 12 13 14 15	23.0 23.0 23.0 23.0 23.5 23.5 23.5 22.0 22.0 22.0 23.0 23.0 23.0 23.0	21.5 22.0 22.5 22.5 22.5 22.5 23.0 22.0 21.5 21.5 21.5 22.5 22.5 22.5	22.5 23.0 23.0 22.5 22.5 22.5 23.0 22.5 22.0 22.0 22.5 22.5 22.5 22.5	26.0 26.5 27.0 27.0 27.0 26.5 26.5 27.0 27.5 27.5 28.0 28.5	25.0 26.0 26.0 26.0 26.0 26.0 26.0 26.0 26	25.5 26.0 26.5 26.5 26.5 26.0 26.5 27.0 27.0 27.0 27.5	 29.5 29.5 29.5 29.0 28.5	 29.5 29.0 28.5 27.5	29.5 29.5 29.5 29.5 28.5	28.5 28.5 28.5 28.5 28.0 28.0 27.5 26.5 26.5 26.5 26.5 26.5 26.5	27.5 28.0 28.0 27.0 27.5 27.0 27.5 27.0 26.5 26.0 26.0 26.0 25.5	28.0 28.0 28.5 28.0 28.0 27.5 27.0 26.5 26.0 26.0 25.5 25.0
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21	23.0 23.0 23.0 23.0 23.5 23.5 23.0 22.0 22.0 23.0 23.0 23.0 23.0 23.0	21.5 22.0 22.5 22.5 22.5 22.5 22.5 23.0 22.0 21.5 21.5 22.5 22.5 22.5 22.5 22.5 22.5	22.5 23.0 22.5 22.5 22.5 22.5 22.0 21.5 22.0 22.5 22.5 22.5 22.5 22.5 22.5 22	26.0 26.5 27.0 27.0 26.5 26.5 27.0 27.5 27.5 28.0 27.5 28.0 28.5 28.5 28.5 29.5	25.0 26.0 26.0 26.0 26.0 26.0 26.0 26.0 26	25.5 26.0 26.5 26.5 26.5 26.5 26.0 27.0 27.0 27.5 28.5 28.5 29.0	29.5 29.5 29.5 29.5 29.5 27.5 27.5	 29.5 29.0 29.0 28.5 27.5 27.5 27.5 26.5	29.5 29.5 29.5 29.0 28.5 27.0 27.0	28.5 28.5 28.5 28.5 28.0 28.0 27.5 26.5 26.5 26.5 26.5 25.5 25.5 25.5 25	27.5 28.0 28.0 27.0 27.0 27.0 27.0 27.0 26.0 26.0 26.0 26.0 25.5 25.0 25.0 25.0 24.5	28.0 28.5 28.0 28.5 28.0 28.0 27.5 27.0 26.5 26.0 26.0 25.5 25.5 25.0 25.0 25.0 25.0 25.0 25
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	23.0 23.0 23.0 23.0 23.5 23.5 23.0 22.0 22.0 23.0 23.0 23.0 23.0 23.0	21.5 22.0 22.5 22.5 22.5 22.5 22.5 22.5 22	22.5 23.0 22.5 22.5 22.5 22.5 22.0 22.0 22.0 22	26.0 26.5 27.0 27.0 26.5 26.5 26.5 27.0 27.5 28.0 27.5 28.5 28.5 29.5	25.0 26.0 26.0 26.0 26.0 26.0 26.0 26.5 26.5 27.5 27.5 27.5 28.5 29.0	25.5 26.0 26.5 26.5 26.5 26.0 26.5 27.0 27.0 27.0 27.5 28.0 28.5 28.5 29.5	29.5 29.5 29.5 29.5 29.0 28.5 28.0 27.5 27.5	29.5 29.0 29.0 28.5 27.5 27.5 26.0 26.0	29.5 29.5 29.5 29.5 27.0 26.5 26.0	28.5 28.5 28.5 28.5 28.0 27.0 26.5 26.5 26.5 26.5 25.5 25.5 25.5	27.5 28.0 28.0 28.0 27.0 27.0 27.0 27.0 26.0 26.0 26.0 25.5 25.0 25.0 25.0 25.0 25.0 25.0 25	28.0 28.5 28.0 28.0 28.0 27.0 27.0 26.5 26.0 26.0 26.0 25.5 25.5 25.5 25.5 25.5
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 20 21 22 23 24	23.0 23.0 23.0 23.0 23.5 23.5 22.0 22.0 22.0 23.0 23.0 23.0 23.0 23.0	21.5 22.0 22.5 22.5 22.5 22.5 22.5 22.5 22	22.5 23.0 22.5 22.5 22.5 22.5 22.0 21.5 22.0 22.5 22.5 22.5 22.5 22.5 22.5 22	26.0 26.5 27.0 27.0 26.5 26.5 27.0 27.5 27.0 27.5 28.0 27.5 28.0 27.5 28.5 28.5 29.5 29.5 29.5	25.0 26.0 26.0 26.0 26.0 26.0 26.0 26.0 26	25.50 26.00 26.5 26.50 26.5 26.50 27.00 27.50 27	29.5 29.5 29.5 29.5 29.5 27.5 27.5 27.5 27.5	 29.5 29.0 29.0 28.5 27.5 27.5 26.5 26.5 26.0 26.0 26.0	29.5 29.5 29.5 29.0 27.0 27.0 26.5 26.0 26.5	28.5 28.5 28.5 28.5 28.0 28.0 27.0 26.5 26.5 26.5 26.5 25.5 25.5 26.0 25.0 26.0 27.0 26.0 27.0 26.0 27.0 26.0 27.0 26.0 27.0 26.0 27.0 26.0 27.0 26.0 27.0 26.0 27.0 26.0 27.0 27.0 27.0 27.0 27.0 27.0 27.0 27	27.5 28.0 28.0 28.0 27.0 27.0 27.0 27.0 27.0 27.0 27.0 27	28.0 0 0 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23	23.0 23.0 23.0 23.0 23.5 23.5 23.0 22.0 23.0 23.0 23.0 23.0 23.0 23.0	21.5 22.0 22.5 22.5 22.5 22.5 22.5 22.5 22	22.5 23.0 22.5 22.5 22.5 22.5 22.0 21.5 22.0 22.5 22.5 22.5 22.5 22.5 22.5 22	26.0 27.0 27.0 26.5 26.5 27.0 27.5 27.5 27.5 28.0 27.5 28.0 27.5 28.5 29.5 29.5	25.0 26.0 26.0 26.0 26.0 26.0 26.0 26.5 26.5 27.0 27.5 27.5 27.5 27.5 27.5 27.5 27.5 28.5 29.0 29.0 29.0 28.5 28.5	25.50 26.00 26.5 26.50 26.50 26.50 26.50 27.00 27.00 27.00 27.00 27.00 27.00 27.00 27.00 27.00 27.00 27.00 27.00 27.00 27.00 27.00 28.55 2	29.5 29.5 29.5 29.5 29.5 27.5 27.0 26.5 27.0 26.5	29.5 29.5 29.0 29.0 28.5 27.0 26.5 26.0 26.0 26.0 26.0	29.5 29.5 29.5 29.0 28.5 27.0 27.0 26.0 26.5 26.5	28.5 28.5 28.5 28.5 28.0 27.0 26.5 26.5 26.5 26.5 25.5 25.0 25.5 26.0 25.5 26.0 25.5 26.0 25.5 26.0 25.5 26.0 26.0 26.0 26.0 26.0 26.0 26.0 26.0	27.5 28.0 28.0 28.0 27.0 27.0 27.0 27.0 26.0 26.0 26.0 25.5 25.0 25.0 25.0 25.0 25.0 25.0 25	28.0 28.5 28.0 28.5 28.0 28.0 27.7 26.5 26.0 26.0 26.0 25.5 25.5 25.5 25.5 25.5 25.5 25.5 25
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26	23.0 23.0 23.0 23.0 23.5 23.5 22.0 22.0 22.0 23.0 23.0 23.0 23.0 23.0	21.50 22.55	22.5 23.0 22.5 22.5 22.5 22.5 22.0 21.5 22.0 22.5 22.5 22.5 22.5 22.5 22.5 22	26.0 26.5 27.0 27.0 26.5 26.5 27.0 27.5 27.5 28.0 27.5 28.0 27.5 28.5 29.5 29.5 29.5 29.5 29.0 29.5	25.00 26.00 26.00 26.00 26.00 26.00 26.00 26.00 26.00 26.00 27.55 27.50 27.50 27.50 28.5 29.00 28.5 28.5 28.5 28.5 28.5 28.5 28.5 28.5	25.50 26.05 26.55 26.50 26.55 26.50 27.00 27.50	29.5 29.5 29.5 29.5 29.5 27.5 27.5 27.5 27.5 27.5 27.5	 29.5 29.0 29.0 28.5 27.5 27.5 26.5 26.0 26.0 26.0 26.0	29.5 29.5 29.5 29.0 27.0 27.0 26.5 26.0 26.5 26.5	28.5 28.5 28.5 28.5 28.0 28.0 27.0 26.5 26.5 26.5 26.5 26.5 25.5 25.5 26.0 25.5 26.0 25.5 26.0 26.0 27.0 26.0 26.0 27.0 26.0 27.0	28.0 28.0 28.0 28.0 27.0 28.5 27.0 26.0 26.0 26.0 26.0 25.0 25.0 25.0 25.0 25.0 25.0 25.0 25	28.00 28.50 28.50 28.00 28.50 28.00 28.77 20.00
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28	23.0 23.0 23.0 23.0 23.5 23.5 23.0 22.0 23.0 23.0 23.0 23.0 23.0 23.0	21.5 22.5 22.5 22.5 22.5 22.5 22.5 22.5	22.5 23.0 22.5 22.5 22.5 22.5 22.0 21.5 22.0 22.5 22.5 22.5 22.5 22.5 22.5 22	26.0 27.0 27.0 26.5 26.5 27.0 27.5 27.5 28.0 27.5 28.0 27.5 28.5 29.5 29.5 29.5 29.0 29.0	25.0 26.0 26.0 26.0 26.0 26.0 26.0 26.5 26.5 27.0 27.5 27.5 27.5 27.5 27.5 27.5 27.5 28.5 29.0 29.0 29.0 28.5 28.5	25.50 26.00 26.5 26.50 26.50 26.50 26.50 27.00 27.00 27.00 27.00 27.00 27.00 27.00 27.00 27.00 27.00 27.00 27.00 27.00 28.55 2	29.5 29.5 29.5 29.5 29.5 27.5 27.5 27.5 27.5 27.5 27.5 27.5	29.5 29.0 29.0 28.5 27.0 26.0 26.0 26.0 26.0 26.0 26.0 26.0	29.5 29.5 29.5 29.0 28.5 27.0 27.0 26.5 26.0 26.5 26.5 27.0 27.0	28.5 28.5 28.5 28.5 28.0 27.0 26.5	27.5 28.0 28.0 28.0 27.0 27.0 27.0 26.0 26.0 26.0 26.5 25.0 26.0 25.5 25.0 25.0 25.0 25.0 25.0 25.0 25	28.0 28.0 28.0 28.0 28.0 28.0 28.0 28.0 28.0 27.0 26.5 26.6 26.0 26.5 26.5 25.5 25.5 25.5 25.5 25.5 25.5 26.5 27.0
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 20 21 22 23 24 25 26 27 28 29	23.0 23.0 23.0 23.0 23.5 23.5 22.0 22.0 23.0 23.0 23.0 23.0 23.0 23.0	21.50 22.55	22.5 23.0 22.5 22.5 22.5 22.5 22.0 21.5 22.0 22.5 22.5 22.5 22.5 22.5 22.5 22	26.0 26.5 27.0 27.0 26.5 26.5 27.0 27.5 27.0 27.5 28.0 27.5 28.0 27.5 28.5 29.5	25.00 26.00 26.00 26.00 26.00 26.00 26.00 26.00 26.00 26.00 27.55 27.50 27.50 27.50 28.55 29.00 28.55 28.55 28.55	25.50 26.00 26.5 26.50 26.5 26.50 27.00 27.50 27	29.5 29.5 29.5 29.5 29.5 27.5 27.5 27.5 27.5 27.5 27.5 27.5	29.0 29.0 29.0 28.5 27.5 27.5 26.0 26.0 26.0 26.0 26.0 26.0 26.0 26.0	29.5 29.5 29.5 29.0 27.0 27.0 26.5 27.0 26.5 27.0 27.0 26.5 27.0 27.0 27.0 27.0 27.0 27.0	28.5 28.5 28.5 28.5 28.0	28.0 28.0 28.0 28.0 28.0 28.0 28.0 28.0	28.05000 28.5000 28.5000 28.5000 28.550
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28	23.0 23.0 23.0 23.0 23.5 23.5 23.0 22.0 23.0 23.0 23.0 23.0 23.0 23.0	21.5 22.5 22.5 22.5 22.5 22.5 22.5 22.5	22.5 23.0 22.5 22.5 22.5 22.5 22.0 21.5 22.0 22.5 22.5 22.5 22.5 22.5 22.5 22	26.0 27.0 27.0 26.5 26.5 27.0 27.5 27.5 27.5 28.0 27.5 28.5 29.5	25.0 26.0 26.0 26.0 26.5 26.0 26.5 26.0 26.5 27.5 27.5 27.5 28.5 29.0 29.0 29.0 29.0 29.0 29.0 29.0 29.0	25.50 26.00 26.5 26.50 26.50 26.50 26.50 27.00 27.00 27.00 27.00 27.00 27.00 27.00 27.00 27.00 27.00 27.00 27.00 27.00 28.55 2	29.5 29.5 29.5 29.5 29.5 27.5 27.5 27.5 27.5 27.5 27.5 27.5	29.5 29.0 29.0 28.5 27.0 26.0 26.0 26.0 26.0 26.0 26.0 26.0	29.5 29.5 29.5 29.0 28.5 27.0 27.0 26.5 26.0 26.5 26.5 27.0 27.0	28.5 28.5 28.5 28.5 28.0 27.0 26.5	27.5 28.0 28.0 28.0 27.0 27.0 27.0 26.0 26.0 26.0 26.5 25.0 26.0 25.5 25.0 25.0 25.0 25.0 25.0 25.0 25	28.0 28.0 28.0 28.0 28.0 28.0 28.0 28.0 28.0 27.0 26.5 26.6 26.0 26.5 26.5 25.5 25.5 25.5 25.5 25.5 25.5 26.5 27.0
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 20 20 20 20 20 20 20 20 20 20 20 20 20	23.0 23.0 23.0 23.0 23.5 23.5 23.0 22.0 23.0 23.0 23.0 23.0 23.0 23.0	21.50 22.55	22.5 23.0 22.5 22.5 22.5 22.0 21.5 22.0 22.0 22.5 22.5 22.5 22.5 22.5 22	26.0 26.5 27.0 27.0 26.5 26.5 27.0 27.5 27.5 28.0 27.5 28.5 29.5	25.00 26.00 26.00 26.00 26.00 26.00 26.55 26.55 27.55 27.55 28.55 29.00 29.05 29.05 29.05 29.05 29.05 29.05 29.05 20.05	25.50 26.00 26.5 26.50 26.5 26.50 27.00 27.00 27.50 27.50 27.50 28.5 29.50 28.5 29.0 29.0 29.0	29.5 29.5 29.5 29.5 29.5 29.5 27.5 27.5 27.5 27.5 27.5 27.5 27.5 28.0 27.5 27.5 28.0	29.5 29.0 29.0 28.5 27.5 27.0 26.0 26.0 26.0 26.0 26.0 26.0 26.0 26	29.5 29.5 29.5 29.5 27.0 26.5 27.0 26.5 27.0 27.5 27.0 27.5 27.0	28.5 28.5 28.5 28.5 28.5 28.5 28.5 28.5 28.5 28.5 28.5 28.5 29.5 20.5	27.5 28.0 28.0 28.0 27.0 27.0 27.0 26.0 26.0 26.0 25.5 25.0 25.5 25.0 25.5 25.0 25.0 25	28.05000 055000 0555554. 283222. 28555554. 285555554. 28555555555555555555555555555555555555
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 20 21 22 23 24 25 26 27 28 29 30 30 31 31 31 31 31 31 31 31 31 31 31 31 31	23.0 23.0 23.0 23.5 23.5 23.5 22.0 22.0 23.0 23.0 23.0 23.0 23.0 23.0	21.50 22.55	22.5 23.0 22.5 22.5 22.5 22.5 22.5 22.5 22.5 22	26.0 26.5 27.0 27.0 26.5 26.5 27.0 27.5 27.5 28.0 27.5 28.5 28.5 29.5 29.5 29.5 29.5 29.5 29.5 29.5 29.5 29.5 29.5 29.5 29.5 29.5	25.00 26.00 26.00 26.00 26.00 26.00 26.00 26.00 26.00 26.00 26.00 26.00 27.55 27.50 27.50 27.50 28.55	25.50 26.00 26.5 26.50 26.50 26.50 27.00 27.50 2	29.5 29.5 29.5 29.5 29.5 27.5 27.5 27.5 27.5 27.5 27.5 27.5 27	29.5 29.0 29.0 28.5 27.5 27.5 26.0 26.0 26.0 26.0 26.0 26.0 26.0 26.0	29.5 29.5 29.5 29.0 28.5 27.0 27.0 27.0 26.5 27.0 26.5 27.0 27.0 27.5 27.5 27.5 27.5	28.5 28.5 28.5 28.5 28.5 28.0 27.0 26.5	27.5 28.0 28.0 28.0 27.0 27.7 26.0 26.0 26.0 26.0 25.0 25.0 25.0 25.0 25.0 25.0 25.0 25	28.0 28.5 28.0 28.5 28.0 28.5 28.0 28.5 20.0 55.5 50.5 20.0 20.5 50.5 20.0 20.0

DELAWARE RIVER BASIN

01482100 DELAWARE RIVER AT DELAWARE MEMORIAL BRIDGE, NEAR WILMINGTON, DE--Continued SPECIFIC CONDUCTANCE (MICROMHOS/CM AT 25 DEG. C), WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		остовь	CR .	With	NOVEMBE	R		DECEMBE	R		JANUAR	Y
1 2 3 4 5	1580 1080 740	390 360 390	755 578 495 	1450 1490 1600 1600 1570	350 350 350 370 390	751 805 733 754 720	370 360 400 430 460	280 260 210 250 210	312 298 295 315 307	1070 1060 1130 1230 1240	300 290 300 320 330	568 562 583 615 630
6 7 8 9	===	=======================================	===	1390 1160 1090 1070 740	370 400 330 290 270	670 632 560 524 467	390 340 330 290 290	240 220 210 240 240	302 265 248 268 266	1300 1300 750 1020 1090	330 290 280 300 320	749 776 470 588 629
11 12 13 14 15	280 270	150 150 	203 190	630 590 660 470 990	270 260 300 320 330	394 401 441 375 447	300 270 280 310 340	220 200 200 190 170	260 233 233 225 227	1250 830 600 830 1130	330 300 210 300 240	774 461 388 510 545
16 17 18 19 20	370 660 650	230 220 210	262 304 325	710 1040 890 1150 1420	290 240 230 240 240	406 460 424 569 610	460 420 740 1050 1250	170 170 180 170 180	245 199 299 420 544	1650 2290 2230 1920 1570	250 270 270 250 250	698 910 986 766 655
21 22 23 24 25	670 760 1320 1010 860	210 210 260 280 310	320 381 547 535 484	1390 1590 1480 1630 1670	240 250 250 260 270	648 746 771 802 877	1140 1480 1500 1530 1520	190 190 210 220 260	579 637 711 791 926	1690 1620 1930 1090 1110	250 260 290 270 300	705 715 886 603 632
26 27 28 29 30 31	800 980 950 1000 1300 1260	310 320 320 330 360 350	487 534 551 566 627 646	2720 1280 710 370 360	240 250 260 270 290	1140 599 391 303 315	1270 990 800 630 790 1050	210 210 270 270 280 290	659 512 408 372 448 534	970 1070 1140 1250 880 1260	310 300 330 320 310 330	581 626 667 633 523 644
MONTH	1580	150	463	2720	230	591	1530	170	398	2290	210	648
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		FEBRUAR	Y		MARCH			APRIL			MAY	
1 2 3 4 5	1040 1240 1400 2520 2550	320 330 330 360 370	564 585 711 1060 1290	4130 4370 4470 6200 6760	1510 1650 1820 2350 2810	2820 3060 3260 4070 4630	230 250 320 270 260	210 210 230 230 240	219 228 248 249 248		==	
6 7 8 9	3230 4380 5030 5860 5950	540 900 1000 1170 1490	1740 2370 2770 3410 3450	6910 6540 7460 	2320 2720 3250	4450 4570 	350 860 300 380 230	240 260 260 180 170	270 310 280 269 184	===	=======================================	===
11 12 13 14 15	6710 6360 6390 6290 6010	1570 1540 1800 1810 1650	4060 3870 3950 3870 3710	===	==	==	180 260 310 580 230	160 170 180 170 170	170 178 197 195 189	410 590 500	190 180 190	246 253 246
16 17 18 19 20	7340 6030 6230	2190 1830 1840 2000	4320 3820 3900 3970	===	===		190 190 210	170 170 160	176 174 179 171	560 600 700 630	190 200 210 210	276 291 350 310
21	6190 6260	2100	4190				190 190	160	. 167	480	210	297
22 23 24 25				300 280		264 253					210 210 210 210 220 220	297 329 305 284 346 374
22 23 24	6260 6710 6770 6350 6220	2100 2530 2610 2830 2520	4190 4710 4530 4480 4270	300	 230	264	190 230 190 190 200	150 160 160 150	167 174 173 173 176	480 600 560 440 620	210 210 210 220	329 305 284 346

01482100 DELAWARE RIVER AT DELAWARE MEMORIAL BRIDGE, NEAR WILMINGTON, DE--Continued SPECIFIC CONDUCTANCE (MICROMHOS/CM AT 25 DEG. C), WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

		or Ectr 10	COMPOCIANCE	CHICKOHI.	105/CH AI	25 DEG.	o), WAIER I	EAR OCIO	DEN 1919	IO SEFTEMBE	N 1900	
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		JUNE			JULY			AUGUST			SEPTEME	BER
1	2220	280	982	4870	1300	2820				8190	4260	6160
2	2380	310	1100	4930	1390	2900				8600	4300	6200
3	2340	350	1250	4700	1370	2830		./0		10100	4140	5950
4	2700	380	1250	4500	1370	2860	10.20			7930	4270	6000
5	2560	400	1340	4860	1530	3070				7330	4430	5850
6	2610	460	1410	4430	1330	2940	14.3.5	12		10000	4360	5840
7	2790	450	1510	4750	1450	2920	7.75	1000		8280	4230	5870
8	2830	540	1580	4840	1500	3030				10300	4450	6310
9	2860	360	1400	5310	1530	2950	100000			10000	4510	6500
10	3180	560	1570	5360	1670	3050				10100	4560	6440
10	3100	500	1570	5300	10/0	3050				10100	4500	0440
11	3080	580	1600	4970	1750	3220				10100	4320	6280
12	2950	590	1650	5730	1770	3340				7730	4290	5960
13	3430	660	1810	5710	1870	3480	5720	2510	4050	8420	4650	6310
14	3340	720	1870	5490	1830	3530	7230	2580	4590	10100	4880	6620
15	3660	740	2090	5890	2120	3670	6280	2600	4360	10000	4770	6610
1,5	3000	140	2090	3090	2120	3010	0200	2000	4300	10000	4110	0010
16	3630	840	2020	5200	1870	3510	6110	2550	4320	10000	5130	6980
17	3340	860	1990	4720	1820	3310	6640	2810	4580	10400	5100	7250
18	3800	1030	2190	4350	1900	3270	6710	3140	4790	T0100	4080	6190
19	3190	970	2120	4450	1980	3340	7230	3080	4860	10000	4050	6000
20	3470	1120	2250	4320	2050	3260	7460	2890	4980	10000	4230	6040
							4.0	385.0				
21	3740	1150	2480	4340	1880	3110	8700	3380	5450	10300	4420	6170
22	4120	1170	2420	4150	1890	3000	8960	3520	5900	10300	4160	6390
23	3960	1210	2410	3940	1760	2920	10100	3360	5890	10400	4540	6950
24	3940	1200	2360	4910	1730	2910	10400	3540	6050	10500	4650	7260
25	3610	1180	2350	5090	1940	3260	9640	3570	6130	10600	5160	7910
26	3930	1260	2390	5030	1980	3370	10200	3670	6540	10600	4550	7470
27	4080	1330	2630	6000	2030	3590	10400	3840	6790	10100	4360	6840
28	4200	1260	2670	6220	2170		10500	4000	7420	10500	4490	7320
29	4650	1400	2800				10400	4240	7000	10500	4390	7130
30	4900	1220	2770				9800	4330	7270	10600	4900	7500
31							10300	4010	6620			
MONTH	4900	280	1940	6220	1300	3170	10500	2510	5660	10600	4050	6540
YEAR	10600	150	2090									

OXYGEN,	DISSOLVED	(DO),	MG/L,	WATER	YEAR	OCTOBER	1979	TO	SEPTEMBER	1980
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								A. V. S. C. S. C.				
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		OCTOBE	R		NOVEMBE	ER		DECEMBE	ER .		JANUAF	RY
1 2 3 4 5	4.3 3.8 4.6 4.4 4.4	2.7 1.8 .5 1.6 2.4	3.6 2.9 2.6 3.2 3.5	7.8 7.7 7.7 8.0 7.8	5.9 5.8 5.5 5.3	6.8 6.8 6.7 6.6 6.5	8.5 8.2 8.9 9.1 9.5	6.6 6.8 7.5 7.9 8.1	7.3 7.4 8.0 8.4 8.5	10.6 10.4 10.2 10.2 11.1	9.0 8.9 8.9 9.0 9.7	9.7 9.5 9.5 9.5 10.2
6 7 8 9	4.9 5.2 5.7 6.4 6.7	3.2 2.9 4.8 5.4 5.8	4.0 4.5 5.3 5.9 6.1	7.2 6.9 7.2 7.1 6.8	5.0 4.8 5.0 5.0	6.1 5.9 6.0 6.0	9.4 9.4 9.6 10.2 10.2	8.2 8.1 8.3 8.6 8.9	8.8 8.9 9.3 9.6	11.0 11.4 10.9 10.9	9.9 10.1 10.1 10.1	10.4 10.7 10.5 10.5
11 12 13 14 15	6.6	5.9 6.2	6.3	6.9 7.4 7.8 7.8 8.5	5.1 5.3 6.1 6.3 6.4	6.0 6.5 7.1 7.2 7.5	10.6 10.3 10.3 10.4 10.4	9.1 8.9 8.7 8.9 9.1	9.7 9.6 9.6 9.7 9.8	11.1 11.0 11.1 11.6 11.9	10.0 10.2 10.2 10.4 10.3	10.6 10.6 10.6 10.9 11.1
16 17 18 19 20	6.5 6.6 6.7	6.2 6.1 5.9	6.4 6.3 6.2	8.5 8.9 8.9 9.1 8.8	7.0 7.3 7.4 7.4 7.1	7.8 8.1 8.1 8.2 8.1	10.3 10.6 11.2 11.2	8.7 8.7 9.0 9.2 10.0	9.7 9.5 10.0 10.3 10.9	12.2 12.1 11.7 11.8 11.4	10.6 10.4 10.0 9.8 9.8	11.4 11.3 11.0 10.6 10.5
21 22 23 24 25	6.4 6.0 6.5 6.8 7.4	5.5 5.2 5.0 5.5 5.7	5.9 5.5 5.5 6.0 6.3	8.6 8.5 8.2 8.4 8.2	6.9 6.6 6.4 6.4	7.9 7.8 7.5 7.5 7.5	11.9 11.6 11.4 11.3 11.1	10.1 9.9 9.6 9.5 9.5	11.2 11.0 10.8 10.5 10.6	11.5 11.4 11.5 11.4 11.5	9.7 9.7 9.7 9.6 9.9	10.5 10.5 10.6 10.6 10.7
26 27 28 29 30 31	7.6 7.9 7.8 7.7 7.7	5.7 5.8 5.8 5.9 5.8 5.9	6.5 6.7 6.9 6.7 6.7	9.3 8.6 8.2 8.0 8.2	6.5 6.6 6.4 6.3 6.4	8.1 7.7 7.4 7.1 7.2	10.8 10.7 10.5 10.5 10.7 10.9	9.1 8.8 8.8 8.9 9.1 9.1	10.1 9.8 9.7 9.7 9.8 9.8	11.3 11.6 11.6 11.6 11.6	9.9 9.8 9.8 9.8 9.8	10.6 10.7 10.7 10.6 10.6 11.2
MONTH	7.9	.5	5.5	9.3	4.8	7.1	11.9	6.6	9.6	12.4	8.9	10.6

DELAWARE RIVER BASIN

01482100 DELAWARE RIVER AT DELAWARE MEMORIAL BRIDGE, NEAR WILMINGTON, DE--Continued OXYGEN, DISSOLVED (DO), MG/L, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		FEBRUAR	Y		MARCH			APRIL			MAY	
1 2 3 4 5	12.4 13.0 13.3 13.6 13.5	10.2 10.9 11.1 11.6 11.6	11.3 11.9 12.3 12.6 12.7	12.5 13.0 13.2 13.5 13.4	10.8 11.2 11.8 12.1 12.1	11.8 12.2 12.6 12.9 12.8	9.6 9.6 9.3 9.1 9.1	9.2 9.2 9.0 8.8 8.8	9.4 9.3 9.1 8.9 8.9		=	===
6 7 8 9	13.4 13.6 13.7 13.7	11.7 12.1 12.3 12.3 12.1	12.7 13.0 13.1 13.1	13.3 13.2 13.3	11.8 11.8 11.8	12.6 12.6	9.1 9.0 8.9 8.9	8.6 8.5 8.3 8.4 8.1	8.8 8.7 8.6 8.6 8.3	=		
11 12 13 14 15	13.6 13.5 13.3 13.2 13.2	12.1 11.8 11.9 11.8 11.5	13.0 12.8 12.7 12.6 12.4	==		==	8.3 7.9 7.6 8.0 8.0	7.6 7.1 7.0 7.0 7.0	8.0 7.6 7.3 7.4 7.4	7.8 7.7 7.5	6.3 5.7 5.7	7.1 6.9 6.9
16 17 18 19 20	13.4 13.1 13.2 13.1	11.7 11.4 11.6 11.6	12.5 12.4 12.5 12.4 12.4	=	==	==	7.7 7.8 7.8 7.5 7.2	7.0 7.0 6.9 6.7 6.5	7.3 7.4 7.2 7.0 6.8	7.8 7.8 7.7 7.6 7.4	5.8 6.1 6.7 6.5 6.3	7.0 7.1 7.3 7.1 7.0
21 22 23 24 25	13.0 12.9 12.8 12.6 12.5	11.4 11.5 11.5 11.2 10.9	12.3 12.3 12.2 11.9 11.8	9.2 9.3	8.6 8.6	8.8 8.9	7.1 7.2 7.3 7.3 7.4	6.7 6.6 6.8 6.8	6.9 6.9 7.1 7.1	7.4 7.6 7.7 7.4 7.2	6.7 6.8 6.7 6.4	7.1 7.1 7.1 7.0 6.7
26 27 28 29 30 31	12.3 12.8 12.5 12.4	10.6 11.1 10.9 10.8	11.7 12.0 11.8 11.7	9.6 9.8 9.7 9.6 9.5	9.0 9.3 9.2 9.3 9.2 9.3	9.3 9.4 9.4 9.3 9.5	7.3 7.3 7.5	6.7 6.6 7.0	7.1 7.0 7.3	6.8 6.6 6.4 6.3 6.2	6.2 6.1 5.8 5.3 5.1 4.7	6.5 6.3 6.1 5.8 5.7 5.4
MONTH	13.7	10.2	12.4	13.5	8.6	10.8	9.6	6.5	7.8	7.8	4.7	6.7
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		JUNE			JULY			AUGUST			SEPTEME	BER
1 2 3 4 5	5.8 5.6 5.7 5.7 5.9	4.3 4.1 3.9 3.7 3.7	5.1 4.9 4.9 4.9 5.0	5.3 5.3 4.9 4.5 4.7	3.2 3.3 2.9 2.5 2.5	4.4 4.4 4.0 3.7 3.7	===	==	==	5.2 5.3 5.5 5.5	4.2 4.2 4.2 4.2 4.3	4.8 4.8 4.7 4.8 4.8
6 7 8 9	5.8 5.7 6.0 6.7 6.7	3.6 3.3 3.6 3.2 4.3	4.9 4.8 4.8 5.2 5.5	4.8 5.0 5.0 5.2 5.1	2.7 3.2 3.4 3.3 3.1	3.8 4.1 4.3 4.2		==		5.3 5.4 5.7 5.6 5.8	4.3 4.2 4.3 4.3	4.8 4.8 5.0 5.1 5.3
11 12 13 14 15	6.4 6.3 6.1 6.1 5.8	4.1 3.9 3.7 3.7 3.7	5.4 5.3 5.1 5.1 4.8	4.9 4.8 4.8 4.9	2.9 2.8 3.0 2.9 3.3	3.8 3.8 3.9 4.0	6.4 5.3 5.1	4.3 4.1 4.0	4.7 4.7 4.6	6.3 6.2 6.2 6.3 6.0	4.6 4.7 4.9 5.1 4.9	5.4 5.5 5.6 5.6
16 17 18 19 20	5.5 5.3 5.6 5.7 6.0	3.5 3.4 3.7 3.5 4.1	4.7 4.6 4.7 4.8 5.1	5.0 4.8 4.8 4.8	3.6 3.5 3.4 3.2 3.2	4.4 4.3 4.2 4.0	5.3 5.8 5.6 5.4 5.6	4.0 4.5 4.6 4.4 4.3	4.7 5.1 5.1 5.0 4.9	6.1 6.4 6.1 6.0 6.1	5.1 5.3 5.1 5.0 4.9	5.7 5.8 5.7 5.5
21 22 23 24	6.4 6.3 6.2 5.9 5.7	3.9 4.1 4.1 4.0 4.0	5.4 5.4 5.2 5.1 5.0	4.6 4.7 4.6 5.2 5.1	3.2 3.3 3.4 3.3 3.8	4.0 4.0 4.1 4.2 4.4	5.7 5.7 5.5 5.5 5.3	4.5 4.6 4.2 4.0 4.0	5.1 5.2 5.0 4.8 4.7	5.9 5.8 5.7 6.0 5.9	4.9- 4.7 4.6 4.6 4.9	5.5 5.3 5.2 5.4 5.5
25 .					3.8	4.4		4.0	4.8	5.8	4.7	
26 27 28 29 30	5.8 5.6 5.4 5.6 5.4	3.8 3.5 3.3 3.4 3.2	4.8 4.6 4.6 4.6 4.4	5.0 5.2 5.2 	3.8 3.9	4.5 	5.5 5.4 5.2 5.2	3.9 3.9 4.0 4.0	4.7 4.7 4.7 4.7	6.1 6.2 6.5 6.4	4.7 5.0 5.2 5.5	5.3 5.5 5.7 5.8 6.0
26 27 28 29	5.6 5.4 5.6	3.5 3.3 3.4	4.6 4.6 4.6	5.2 5.2	3.8 3.9	===	5.4 5.3 5.2 5.2 5.3 6.4	3.9 4.0	4.7	6.2	5.0	5.5 5.7 5.8 6.0

01482100 DELAWARE RIVER AT DELAWARE MEMORIAL BRIDGE, NEAR WILMINGTON, DE--Continued

PH (STANDARD UNITS), WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

			PH (:	STANDARD U	NITS), W	ATER YEAR	OCTOBER 197	79 TO SE	PTEMBER 198	30		
DA Y	MA X	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		OCTOBE	ER		NOVEMBE	R		DECEMBE	CR .		JANUAR	Y
1 2 3 4 5	6.6 6.5 6.4 6.4	6.2 6.1 6.1 6.1	6.4 6.3 6.2 6.2 6.2	6.7 6.6 6.6 6.7 6.6	6.2 6.2 6.2 6.2	6.4 6.4 6.4 6.4	6.5 6.4 6.5 6.5	6.3 6.3 6.4 6.4	6.4 6.3 6.4 6.4	6.9 6.9 6.7 6.8	6.5 6.5 6.4 6.5	6.7 6.7 6.5 6.6
6 7 8 9	6.3 6.4 6.4 6.4	6.2 6.2 6.3 6.3	6.2 6.3 6.3 6.4 6.3	6.6 6.5 6.5 6.5	6.2 6.2 6.2 6.2	6.3 6.3 6.3 6.3	6.6 6.6 6.6 6.6	6.5 6.4 6.3 6.3	6.5 6.5 6.5 6.5	7.1 6.9 7.1 7.0 7.0	6.5 6.6 6.6 6.6	6.8 6.7 6.9 6.8
11 12 13 14 15	6.3 6.5 6.5	6.2 6.3 6.3	6.3 6.4 6.4	6.4 6.5 6.5 6.6	6.2 6.3 6.3 6.3	6.3 6.4 6.4 6.4	6.6 6.6 6.6 6.6	6.4 6.3 6.3 6.3	6.5 6.4 6.5 6.5	7.1 7.1 6.8 7.2 7.0	6.5 6.6 6.5 6.7	6.9 6.8 6.6 6.8
16 17 18 19 20	6.4 6.4 6.5	6.3 6.2 6.2	6.3 6.3 6.3	6.6 6.7 6.7 6.7	6.4 6.4 6.4 6.4	6.5 6.5 6.5 6.5	6.8 6.8 6.8 6.9	6.3 6.2 6.3 6.3	6.6 6.4 6.5 6.6 6.6	7.2 7.1 7.0 7.1 7.1	6.6 6.5 6.5 6.5	6.8 6.8 6.8 6.7
21 22 23 24 25	6.5 6.6 6.5 6.6	6.1 6.1 6.2 6.2	6.3 6.3 6.3 6.3	6.7 6.8 6.7 6.8 6.8	6.3 6.3 6.3 6.3	6.5 6.5 6.5 6.6	6.9 7.3 7.4 7.3 7.3	6.4 6.6 6.5 6.5	6.7 6.8 7.0 7.0 6.9	6.9 6.8 7.0 6.7 6.7	6.3 6.3 6.3 6.3	6.6 6.8 6.5 6.5
26 27 28 29 30 31	6.5 6.6 6.6 6.6 6.6	6.2 6.2 6.2 6.2 6.2	6.3 6.4 6.4 6.4 6.4	7.0 6.8 6.6 6.4 6.4	6.4 6.3 6.3	6.7 6.6 6.5 6.3	7.0 6.9 6.9 7.2 7.1	6.5 6.4 6.5 6.5	6.8 6.7 6.7 6.7 6.9 6.8	6.8 6.8 6.9 6.7 6.8	6.4 6.3 6.4 6.3 6.3	6.6 6.6 6.7 6.6 6.5
MONTH	6.6	6.1	6.3	7.0	6.2	6.4	7.4	6.2	6.6	7.2	6.3	6.7
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		FEBRUAR	Y		MARCH			APRIL			MAY	
1 2 3 4 5	6.8 6.9 7.0 7.2 7.3	6.3 6.4 6.5 6.6	6.5 6.6 6.7 6.8 6.9	7.1 7.1 7.3 7.4 7.4	6.6 6.7 6.8 7.0 7.0	6.9 6.9 7.1 7.3 7.2	6.8 7.0 6.8 6.8	6.2 6.3 6.4 6.4	6.4 6.6 6.6 6.7 6.7	===	===	===
6 7 8 9	7.1 7.2 7.4 7.2 7.3	6.6 6.7 6.8 6.9	6.8 7.0 7.1 7.1 7.1	7.5 7.5 7.5	7.0 7.0 7.1	7.3 7.2 	6.9 6.7 6.8 6.6 6.6	6.6 6.5 6.5 6.4	6.7 6.6 6.6 6.6 6.5	===	===	==
11 12 13 14 15	7.2 7.2 7.3 7.4 7.3	6.8 6.9 6.8 6.8	7.1 7.1 7.1 7.1 7.1	===	===		6.6 6.6 6.5 6.7 6.7	6.4 6.4 6.4 6.4	6.5 6.5 6.4 6.5	6.7 6.7 6.5	6.4 6.2 6.1	6.6 6.4 6.3
16 17 18 19 20	7.4 7.2 7.2 7.3 7.4	6.9 6.8 6.8 6.8	7.1 7.0 7.0 7.1 7.2	===	===		6.5 6.5 6.5 6.5	6.4 6.3 6.3 6.3	6.4 6.4 6.4 6.4	6.6 6.6 6.7 6.7	6.1 6.2 6.2 6.3 6.2	6.4 6.4 6.4 6.4
21 22 23 24 25	7.5 7.2 7.4 7.3 7.2	6.9 6.9 7.0 7.0 6.8	7.2 7.1 7.2 7.2 7.0	6.6	6.5	6.6	6.5 6.4 6.4 6.5	6.3 6.3 6.3 6.3	6.4 6.3 6.4 6.4	6.5 6.8 6.7 6.7	6.3 6.4 6.4 6.4	6.4 6.5 6.5 6.6 6.5
26 27 28 29 30 31	7.1 7.1 7.2 7.1	6.7 6.8 6.7 6.7	6.9 7.0 7.0 6.9	6.5 6.5 6.6 6.7 6.3	6.4 6.3 6.2 6.2 6.3 6.2	6.5 6.4 6.4 6.5 6.2	6.4 6.4 6.4	6.3 6.2 6.3	6.4 6.3 6.3	6.6 6.6 6.7 6.8 6.8	6.3 6.3 6.3 6.3	6.5 6.5 6.5 6.5 6.5
MONTH	7.5	6.3	7.0	7.5	6.2	6.8	7.0	6.2	6.5	6.8	6.1	6.5
						4.5	5.44					

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DELAWARE RIVER BASIN

01482100 DELAWARE RIVER AT DELAWARE MEMORIAL BRIDGE, NEAR WILMINGTON, DE--Continued
PH (STANDARD UNITS), WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		JUNE			JULY			AUGUST	11/2		SEPTEMB	ER
1 2 3 4 5	6.8 6.9 6.8 6.6 6.7	6.4 6.4 6.1 6.1	6.6 6.6 6.5 6.3 6.4	6.8 6.8 6.8 6.8	6.4 6.4 6.4 6.4	6.6 6.6 6.6 6.6	===		==	7.0 7.1 7.0 7.1 7.0	6.8 6.8 6.8 6.8	6.9 6.9 6.9 6.9
6 7 8 9	6.6 6.8 6.7 6.8 6.9	6.2 6.2 6.0 6.2	6.4 6.5 6.5 6.4 6.5	6.7 6.8 6.7 6.8 6.8	6.4 6.4 6.4 6.4	6.6 6.6 6.6 6.6	===	==	=	7.0 7.0 7.0 7.0 6.9	6.8 6.7 6.7 6.7	6.9 6.9 6.8 6.8
11 12 13 14 15	6.8 6.7 6.7 6.8 6.8	6.2 6.3 6.3	6.5 6.5 6.5 6.6	6.7 6.7 6.7 6.7	6.4 6.4 6.4 6.5	6.6 6.6 6.6 6.6	6.6 6.9 6.9	6.5 6.5 6.6	6.6 6.7 6.8	6.9 6.8 6.9 6.9	6.7 6.7 6.7 6.7	6.8 6.7 6.8 6.8
16 17 18 19 20	6.7 6.7 6.7 6.7	6.2 6.3 6.3 6.3	6.5 6.5 6.5 6.5	6.8 6.8 6.8 6.8	6.6 6.6 6.6 6.6	6.7 6.7 6.7 6.7	6.8 7.0 6.9 6.9 7.0	6.6 6.6 6.7 6.7	6.7 6.8 6.8 6.8	7.0 7.2 7.0 7.0 7.1	6.8 6.8 6.8 6.8	6.9 7.0 6.9 6.9
21 22 23 24 25	6.8 6.8 6.8 6.8	6.3 6.4 6.4 6.4	6.6 6.6 6.6 6.6	6.8 6.8 6.7 6.9	6.6 6.5 6.5 6.6	6.7 6.6 6.7 6.7	7.0 7.0 7.0 7.0 7.0	6.7 6.7 6.7 6.7 6.6	6.8 6.9 6.9 6.8 6.8	7.1 7.1 7.0 7.0 7.0	6.8 6.8 6.7 6.7	6.9 6.9 6.9 6.9
26 27 28 29 30 31	6.8 6.8 6.9 6.8	6.4 6.4 6.4 6.4	6.6 6.6 6.7 6.6	6.9 6.9 6.9	6.6 6.6 	6.8	7.0 7.0 6.9 7.0 7.0	6.7 6.7 6.7 6.7 6.7 6.8	6.8 6.8 6.8 6.9	7.0 7.0 7.0 7.0 7.0	6.7 6.6 6.7 6.7 6.8	6.8 6.9 6.9 6.9
MONTH	6.9	6.0	6.5	6.9	6.4	6.7	7.0	6.5	6.8	7.2	6.6	6.9
YEAR	7.5	6.0	6.6									

LOCATION.--Lat 39°38'36", long 75°19'52", Salem County, Hydrologic Unit 02040206, on right end of Memorial Lake Dam at Woodstown, 0.2 mi (0.3 km) upstream from small brook, and 0.3 mi (0.5 km) downstream from Pennsylvania-Reading Seashore Lines bridge.

01482500 SALEM RIVER AT WOODSTOWN, NJ

DRAINAGE AREA .-- 14.6 mi2 (37.8 km2).

WATER-DISCHARGE RECORDS

PERIOD OF RECORD. -- March to September 1940, December 1941 to current year. Prior to October 1952, published as "Salem Creek at Woodstown".

REVISED RECORDS. -- WSP 1432: 1951(M). WSP 1702: 1959.

GAGE.--Water-stage recorder above concrete dam. Datum of gage is 19.49 ft (5.941 m) National Geodetic Vertical Datum of 1929. Prior to Oct. 1, 1977 at datum 10.00 ft (3.048 m) higher.

REMARKS. -- Water-discharge records good except those for period of no gage-height record, June 7 to June 30, which are fair.

AVERAGE DISCHARGE. -- 38 years (water years 1943-80), 19.2 ft3/s (0.544 m3/s), 17.86 in/yr (454 mm/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 22,000 ft³/s (623 m³/s) Sept. 1, 1940, gage height, 17.98 ft (5.480 m) present datum, from floodmark, from rating curve extended above 220 ft³/s (6.23 m²/s) on basis of slope-area measurement of peak flow at site 0.5 mi (0.8 km) downstream; no flow for short periods during many years just after waste gate was closed and water was below spillway.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 216 ft 3 /s (6.12 m 3 /s) Oct. 10, gage height, 11.63 ft (3.545 m), no peaks above base of 350 ft 3 /s (9.91 m 3 /s); minimum daily, 2.0 ft 3 /s (0.057 m 3 /s) Aug. 22-25.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980 MEAN VALUES DAY OCT NOV DEC JA N FEB MAR APR MAY JUN JIII. AUG SEP 84 103 79 15 8.4 5.7 15 15 12 8.0 6.6 4.7 2 70 15 15 12 34 4.7 4.3 5.9 7.2 5.9 7.2 35 6.5 92 41 14 11 7.2 24 22 4.3 5.0 4.5 38 3.6 4 46 15 9.7 8.6 51 16 9.4 4.7 9.5 15 12 7.2 7.8 3.6 5 30 23 13 44 13 7.0 5.0 6 33 7.2 8.2 24 3.7 3.6 18 12 16 6.6 17 31 11 12 18 12 6.4 5.5 3.6 8 22 4.7 15 12 9.3 13 15 13 10 20 16 50 8.0 13 3.6 4.7 3.6 10 120 18 15 9.4 121 13 9.0 5.4 4.7 3.6 13 94 41 12 8.8 3.6 11 27 15 28 8.9 15 11 6.1 15 45 78 115 9.4 24 12 9.0 6.0 11 12 11 52 37 23 8.1 15 14 7.0 3.9 6.5 3.6 13 36 19 33 14 38 30 25 7.6 113 18 11 6.5 3.6 3.7 3.6 15 26 24 20 9.4 42 30 7.9 6.0 4.0 3.6 3.6 4.1 16 22 21 18 17 16 23 20 7.2 6.0 5.8 3.6 17 2.8 19 18 16 15 18 18 15 7.2 4.8 3.6 18 18 18 19 10 5.6 15 13 13 5.5 3.5 19 17 17 1 4 56 9.4 17 12 17 8.0 5.9 5.9 20 18 18 15 28 9.4 14 11 13 6.5 2.4 21 18 17 20 72 73 9.4 16 6.0 5.3 2.8 8.2 7.2 7.2 16 5.5 5.1 22 18 18 20 18 16 2.0 3.6 23 18 30 10 18 18 34 33 2.0 18 21 22 7.4 5.0 2.0 19 18 4.3 25 19 18 31 114 4.8 3.6 2.0 4.4 16 18 7.2 7.2 46 7.2 5.8 26 16 25 15 13 40 4.7 5.6 2.6 5.9 6.1 27 4.7 4.1 43 18 4.6 2.7 15 13 10 20 2.7 28 15 25 9.6 20 25 4.7 5.0 3.4 3.6 15 13 15 19 14 12 9.1 4.7 8.0 23 2.7 3.6 30 15 16 13 10 51 35 4.7 20 15 2.7 3.6 31 14 ---12 9.4 ---82 4.7 ---5.0 4.1 ---TOTAL 1073 741 553 658.1 978.6 889.4 427.2 221.4 199.9 132.0 130.8 332.5 24.7 6.45 MFAN 34.6 17.8 21.2 11.5 31.6 29.6 13.8 7.38 4.26 4.36 120 79 MAX 33 12 115 6.5 114 121 20 11 15 9.4 6.6 4.6 3.4 2.0 2.8 MIN 14 15 7.2 1.45 CFSM 2.37 1.69 1.22 .79 2.16 2.03 . 95 .51 . 44 .29 .30 TN. 1.89 1.41 1.68 . 85 2.49 2.27 1.00 . 56 . 51 . 34 .33

CAL YR 1979 TOTAL 10549.1 MEAN 28.9 MAX 518 MIN 4.5 CFSM 1.98 IN 26.88 MEAN 17.3 MAX 121 WTR YR 1980 TOTAL 6336.9 MIN 2.0 CFSM 1.19 IN 16.14

01482500 SALEM RIVER AT WOODSTOWN, NJ--Continued

WATER-QUALITY RECORDS

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

COOPERATION.--Analyses of fecal coliform and fecal streptococci by the MPN method, and water-phase nutrients were performed by the New Jersey Department of Health, Division of Laboratories and Epidemiology.

WATER QUALITY DATA, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

									4		
DATE	TIME	STREAM- FLOW, INSTAN- TANEOUS (CFS)	SPE- CIFIC CON- DUCT- ANCE (MICRO- MHOS)	PH FIELD (UNITS)	TEMPER- ATURE, WATER (DEG C)	OXYGEN, DIS- SOLVED (MG/L)	OXYGEN DEMAND, BIOCHEM UNINHIB 5 DAY (MG/L)	COLI- FORM, FECAL, EC BROTH (MPN)	STREP- TOCOCCI FECAL (MPN)	HARD- NESS (MG/L AS CACO3)	
FEB 14	0900	7.2	229	7.4	4.0	13.2	1.1	23	11	85	
APR					446	1 18		4 6 145		10 3010	
02 JUN	0900	35	152	7.2	8.0	11.7	3.7	1600	1600	51	
09 JUL	1000	8.0	212	7.2	20.5	7.6	3.9	2400	5400	79	
02 AUG	1000	4.7	209	7.5	26.0	7.8	5.2	80	20	75	
25 SEP	0920	2.0	227	8.0	24.5	8.4	7.2	330	330	80	
24	1045	4.7	235	8.6	23.5	8.4	7.2	310	1700	81	
DATE	CALCIUM DIS- SOLVED (MG/L AS CA)	MAGNE- SIUM, DIS- SOLVED (MG/L AS MG)	SODIUM, DIS- SOLVED (MG/L AS NA)	POTAS- SIUM, DIS- SOLVED (MG/L AS K)	BICAR- BONATE (MG/L AS HCO3)	CAR- BONATE (MG/L AS CO3)	ALKA- LINITY (MG/L AS CACO3)	SULFIDE TOTAL (MG/L AS S)	SULFATE DIS- SOLVED (MG/L AS SO4)	CHLO- RIDE, DIS- SOLVED (MG/L AS CL)	
FEB 14	18	9.7	6.7	3.7	24	0	20		40	18	
APR 02	11	5.8	4.6	1.2					25	9.4	
JUN 09											
JUL	17	8.9	6.2	4.8	40	0	33	.5	32	17	
02 AUG	16	8.5	5.8	5.1	41	0	34		33	1.8	
25 SEP	17	9.2	6.8	5.4	59	0	48	-	26	19	
24	18	8.7	6.8	5.5				.0	29	19	
DATE	FLUO- RIDE, DIS- SOLVED (MG/L AS F)	SILICA, DIS- SOLVED (MG/L AS SIO2)	SOLIDS, RESIDUE AT 180 DEG. C DIS- SOLVED (MG/L)	NITRO- GEN, NO2+NO3 TOTAL (MG/L AS N)	NITRO- GEN, AMMONIA TOTAL (MG/L AS N)	NITRO- GEN, ORGANIC TOTAL (MG/L AS N)	NITRO- GEN, AM- MONIA + ORGANIC TOTAL (MG/L AS N)	NITRO- GEN, TOTAL (MG/L AS N)	PHOS- PHORUS, ORTHOPH OSPHATE TOTAL (MG/L AS PO4)	CARBON, ORGANIC TOTAL (MG/L AS C)	
FEB 14	.1	7.5	135	E5.0	.090	.06	.15	-22	.10	2.2	
APR 02	.2	5.9	115	2.1	.260	1.3	1.6	3.7	1.1	4.7	
JUN 09	.2	6.4	164	2.5	.440	.96	1.4	3.9	.54	8.4	
JUL 02	.2	6.5	155	1.5	.260	1.0	1.3	2.8		4.5	
AUG											
25 SEP	.3	9.9	136	.10	<.030		1.2	1.3	.98	13	
24	.2	1.0	145	<.05	.120	.74	.86	. 5	.64	11	
	DATE	TIME	ALUM- INUM, DIS- SOLVED (UG/L AS AL)	ARSENIC TOTAL (UG/L AS AS)	BERYL- LIUM, TOTAL RECOV- ERABLE (UG/L AS BE)	BORON, TOTAL RECOV- ERABLE (UG/L AS B)	CADMIUM TOTAL RECOV- ERABLE (UG/L AS CD)	CHRO-MIUM, TOTAL RECOV- ERABLE (UG/L AS CR)	COPPER, TOTAL RECOV- ERABLE (UG/L AS CU)		
	JUN 09	1000	20	2	0	40	0	<10	4		
	SEP 24	1045	30	3	0	50	1	10	3		

DELAWARE RIVER BASIN
01482500 SALEM RIVER AT WOODSTOWN, NJ--Continued
WATER QUALITY DATA, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

DATE	IRON, TOTAL RECOV- ERABLE (UG/L AS FE)	LEAD, TOTAL RECOV- ERABLE (UG/L AS PB)	MANGA- NESE, TOTAL RECOV- ERABLE (UG/L AS MN)	MERCURY TOTAL RECOV- ERABLE (UG/L AS HG)	NICKEL, TOTAL RECOV- ERABLE (UG/L AS NI)	SELE- NIUM, TOTAL (UG/L AS SE)	ZINC, TOTAL RECOV- ERABLE (UG/L AS ZN)	PHENOLS (UG/L)
JUN	2600		120		4		10	
09 SEP	2000	6	130	<.1	4	1	10	0
24	1500	6	120	< .1	4	0	20	5

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 Fort Penn.

DRAINAGE AREA. -- 11, 200 mi2 (29, 100 km2), approximately.

WATER-QUALITY RECORDS

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, 35,600 micromhos Nov. 15, 1978; minimum, 100 micromhos on several days in 1969, 1970, 1974, and 1979.
pH: Maximum, 8.9 Mar. 4, 1980; minimum, 5.4 Dec. 31, 1972.
WATER TEMPERATURES: Maximum, 30.5°C on several days during August 1980; minimum, freezing poing on many days

during winter months.
DISSOLVED OXYGEN: Maximum, 17.1 mg/L Dec. 16, 19, 1976; minimum, 0.3 mg/L Sept. 16, 17, 1971.

TEMPERATURE, WATER (DEG. C), WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		OCTOBER			NOVEMBER		1	DECEMBER			JANUARY	t
1 2 3 4 5	21.5 21.5 21.0	21.0 20.5 20.5	21.0 21.0 21.0	14.0 14.5 14.5 14.0 13.5	13.0 13.5 13.5 13.0	13.5 14.0 14.0 13.5 13.0	9.0	8.5	===	5.5 5.0 5.0 4.5 3.5	4.5 4.5 3.5	5.0 4.5 4.5 4.0 3.5
6 7 8 9	20.5 20.0 19.0 18.0 17.0	19.5 18.5 18.0 16.5 15.5	20.0 19.5 18.5 17.5 16.0	13.5 13.5 13.0 13.0	13.0 12.5 12.5 12.5 13.0	13.0 13.0 12.5 13.0 13.0	8.5 8.5 8.0 7.5	8.0 8.0 6.5 6.5	8.5 8.5 7.5 7.0	3.5 3.5 3.5 3.0 3.5	2.5 3.0	3.5 3.0 3.0 3.0
11 12 13 14 15	16.5 16.0 15.5 15.0 15.5	15.5 15.5 15.0 14.0 14.0	16.0 15.5 15.5 14.5 14.5	13.0 13.0 12.5 12.5 12.0	12.5 12.5 12.0 11.0	12.5 12.5 12.0 12.0 11.5	8.0 8.0 8.0 7.5 7.5	6.5 7.0 7.0 7.0 6.5	7.5 7.5 7.5 7.5 7.0	4.0 4.0 3.5 3.5 4.5	2.0 2.0 2.5	3.5 3.0 3.5 4.0
16 17 18 19 20	15.0 15.0 16.0 16.0	13.5 14.0 14.5 14.5 15.0	14.5 14.5 15.0 15.0	12.0 11.5 12.0 12.0 11.5	11.0 10.5 10.5 11.0	11.5 11.0 11.0 11.0	7.5 7.0 6.0 5.5 4.5	6.5 5.0 5.0 4.5 4.0	7.0 6.0 5.5 5.0 4.5	4.5 4.0 4.5 4.5	3.5	4.0 4.0 4.0 4.0
21 22 23 24 25	17.0 17.0 17.0 16.5 15.5	15.5 15.5 16.0 15.5 14.5	16.0 16.0 16.5 16.0	12.0 12.0 12.0 12.0	11.0 11.0 11.0 11.5 12.0	11.5 11.5 11.5 12.0 12.0	4.5 4.5 4.5 5.5	3.5 4.0 4.0 4.5 5.0	4.0 4.5 4.5 5.0	4.5 4.5 3.5 3.5	4.0 3.5 3.0	4.0 4.0 4.0 3.0 3.0
26 27 28 29 30 31	15.0 14.5 14.0 14.0 14.0	14.0 13.5 13.0 13.0 13.0	14.5 14.0 13.5 13.5 13.5	13.0 13.0 13.0	12.0 12.0 12.0	12.5 12.5 12.5	6.0 5.5 5.5 5.6 6.0 5.5	5.0 4.5 4.5 4.5 4.5	5.5 5.0 5.0 5.0 5.0	4.0 3.5 3.5 2.5 2.5	2.5 3.0 2.5 2.0	3.0 3.0 3.0 2.0 2.0
MONTH	21.5	12.5	16.0	14.5	10.5	12.5	9.0	3.5	6.0	5.5	1.0	3.5

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01482800 DELAWARE RIVER AT REEDY ISLAND JETTY, DE --Continued

TEMPERATURE, WATER (DEG. C), WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

			TEMPERATURE,	WATER	(DEG. C	C), WATER	YEAR OCTOBER	1979 10	SEPTEMBER	1980		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		FEBRUARY			MARCH	1		APRIL			MAY	
1	1.5	.5	1.0	1.5	.0	1.0				15.0 15.5	14.0	14.5
3										16.0	14.5	15.5
4 5				2.0	1.0	1.5				17.0	15.5	16.5
6				2.5	1.5	2.0				18.0	16.0	17.0
7 8				3.0	1.5	2.0 3.0				17.5	16.5	17.0
9 10				4.5	3.0	3.5 3.5	13.0	11.5		17.5	16.5	17.0
11				5.0	3.5	4.0	13.5	11.5	12.5	17.5	16.5	17.0
12 13				5.0	3.5	4.0 3.5	13.5 14.0	12.0	12.5 13.0	18.5	17.0 17.5	17.5
14 15				4.0	3.5	3.5	13.5 13.5	12.5	13.0 13.5	19.0	18.0 18.0	18.5 18.5
16				5.0	3.5	4.0	13.0	12.0	12.5	19.5	17.5	18.5
17 18				5.0	4.0		13.0 13.5	11.5	12.5	19.0	18.5 18.0	19.0 18.5
19	2.0	1.5		6.5	5.5	6.0	14.0	12.5	13.0	19.5	18.5	19.0
21	3.0	1.5	2.0	7.0	6.0	6.5	14.5	13.5	14.0	19.0	18.5	19.0
22 23	2.5	1.5	2.0									
24 25	4.0	2.5	3.0	===			17.0	15.0				
26	3.5	2.5	3.0			-	16.0	15.0	15.5			
27 28	3.0	2.0	2.5				15.5 15.0	14.5	15.0 15.0	21.0	20.0 19.5	20.5
29	2.5	1.5	2.0				15.0 14.5	14.5	14.5	21.5	20.0	21.0
30 31							14.5			22.0	20.5	21.0
MONTH	4.0	.5	2.5	7.0	.0	3.5	17.0	11.5	13.5	22.0	14.0	18.0
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
DAY	MAX	MIN JUNE	MEAN	MAX	MIN JULY	MEAN	MAX	MIN AUGUST		MAX	MIN SEPTEMB	
1	22.5	JUNE 21.0	22.0	26.0	JULY 24.5	25.0	29.5	AUGUST	28.5	28.5	SEPTEMB 27.0	ER 27.5
1 2	22.5 23.0 23.5	JUNE 21.0 21.5 22.0	22.0 22.5 22.5	26.0 26.0 25.5	JULY 24.5 24.5 25.0	25.0 25.5 25.5	29.5 29.5 29.5	AUGUST 28.0 28.0 28.0	28.5 28.5 28.5	28.5 29.0 29.0	27.0 27.5 27.5	27.5 28.0 28.0
1	22.5	JUNE 21.0 21.5	22.0 22.5 22.5 22.5	26.0	JULY 24.5 24.5	25.0	29.5	AUGUST 28.0 28.0	28.5	28.5 29.0	SEPTEMB 27.0 27.5	27.5 28.0
1 2 3 4 5	22.5 23.0 23.5 23.5 23.0	JUNE 21.0 21.5 22.0 22.0 22.0	22.0 22.5 22.5 22.5 22.5 22.5	26.0 26.0 25.5 27.0 27.0	JULY 24.5 24.5 25.0 25.0 25.5	25.0 25.5 25.5 26.0 26.0	29.5 29.5 29.5 30.0 30.0	AUGUST 28.0 28.0 28.0 28.5 28.5	28.5 28.5 28.5 29.0 29.0	28.5 29.0 29.0 29.0 28.0	SEPTEMB 27.0 27.5 27.5 27.0 27.0	27.5 28.0 28.0 28.0 27.5
1 2 3 4 5	22.5 23.0 23.5 23.5 23.0	JUNE 21.0 21.5 22.0 22.0 22.0	22.0 22.5 22.5 22.5 22.5 22.5 22.5 23.0	26.0 26.0 25.5 27.0 27.0 27.0 27.0	JULY 24.5 24.5 25.0 25.0 25.5 25.5 25.5 25.5	25.0 25.5 25.5 26.0 26.0 26.5 26.5	29.5 29.5 29.5 30.0 30.0 30.5	AUGUST 28.0 28.0 28.5 28.5 29.0 29.0	28.5 28.5 28.5 29.0 29.0 29.5 29.5	28.5 29.0 29.0 29.0 28.0 28.5 28.0	SEPTEMB 27.0 27.5 27.5 27.0 27.0 27.0 27.0 26.0	27.5 28.0 28.0 28.0 27.5 27.5 27.5 27.5
1 2 3 4 5	22.5 23.0 23.5 23.5 23.0 22.5 24.0	JUNE 21.0 21.5 22.0 22.0 22.0 22.0	22.0 22.5 22.5 22.5 22.5 22.5 22.5 22.5	26.0 26.0 25.5 27.0 27.0 27.0 27.0 26.0 27.0	JULY 24.5 24.5 25.0 25.0 25.5 25.5	25.0 25.5 25.5 26.0 26.0 26.5 26.0	29.5 29.5 29.5 30.0 30.0	AUGUST 28.0 28.0 28.0 28.5 28.5	28.5 28.5 28.5 29.0 29.0	28.5 29.0 29.0 29.0 28.0	SEPTEMB 27.0 27.5 27.5 27.0 27.0 27.0	27.5 28.0 28.0 28.0 27.5 27.5
1 2 3 4 5 6 7 8 9	22.5 23.0 23.5 23.5 23.0 22.5 24.0 23.5 22.5	JUNE 21.0 21.5 22.0 22.0 22.0 22.0 22.0 21.5	22.0 22.5 22.5 22.5 22.5 22.5 22.5 23.0 22.0 21.5	26.0 26.0 25.5 27.0 27.0 27.0 27.0	JULY 24.5 24.5 25.0 25.0 25.5 25.5 25.5 25.5	25.0 25.5 25.5 26.0 26.0 26.5 25.5 26.0	29.5 29.5 29.5 30.0 30.0 30.5 30.5 30.0 30.0	AUGUST 28.0 28.0 28.5 28.5 29.0 29.0 29.0 29.0	28.5 28.5 28.5 29.0 29.0 29.5 29.5 29.5 29.5	28.5 29.0 29.0 29.0 28.0 28.5 28.0 27.0 27.0	27.0 27.5 27.5 27.0 27.0 27.0 27.0 26.0 26.5 26.0	27.5 28.0 28.0 27.5 27.5 27.5 27.5 27.5 26.5 26.5
1 2 3 4 5 6 7 8 9 10	22.5 23.0 23.5 23.5 23.0 24.0 23.5 22.0 22.5 22.5	JUNE 21.0 21.5 22.0 22.0 22.0 22.0 22.0 21.0 21.5 21.0	22.0 22.5 22.5 22.5 22.5 22.5 23.0 22.0 21.5	26.0 26.0 25.5 27.0 27.0 27.0 27.0 27.0 27.0 27.5 27.5	JULY 24.5 24.5 25.0 25.5 25.5 25.0 25.5 26.0	25.0 25.5 26.0 26.0 26.5 26.0 25.0 26.0 26.5 26.5	29.5 29.5 29.5 30.0 30.5 30.5 30.5 30.0 30.0	AUGUST 28.0 28.0 28.0 28.5 28.5 29.0 29.0 29.0 29.0 29.0 29.0	28.5 28.5 29.0 29.0 29.5 29.5 29.5 29.5	28.5 29.0 29.0 29.0 28.0 28.0 28.0 27.0	27.0 27.5 27.5 27.0 27.0 27.0 27.0 26.0 26.5 26.0	27.5 28.0 28.0 27.5 27.5 27.5 27.5 27.6 26.5
1 2 3 4 5 6 7 8 9 10	22.5 23.5 23.5 23.5 23.0 22.5 24.0 22.5 22.5 22.5 22.5 22.5 23.5	JUNE 21.0 21.5 22.0 22.0 22.0 22.0 21.5 21.0 20.5 21.0 21.5	22.0 22.5 22.5 22.5 22.5 22.5 22.5 22.5	26.0 26.0 25.5 27.0 27.0 27.0 27.0 27.5 27.5 27.5 27.5 27.5	JULY 24.5 24.5 25.0 25.5 25.5 25.5 25.6 26.0 26.0 26.0	25.0 25.5 26.0 26.0 26.5 26.0 26.5 26.0 26.5 26.5 26.5 27.0	29.5 29.5 29.5 29.0 30.0 30.5 30.5 30.0 30.0 30.5 29.5 29.0	AUGUST 28.0 28.0 28.5 28.5 29.0 29.0 29.0 29.0 29.0 29.0 29.0 29.0	28.5 28.5 28.5 29.0 29.0 29.5 29.5 29.5 29.5 29.5 29.5	28.5 29.0 29.0 28.0 28.0 28.0 27.0 27.0 26.5 26.5 26.5	27.0 27.5 27.0 27.0 27.0 27.0 27.0 26.0 26.0 25.0 25.0 25.0	27.5 28.0 28.0 27.5 27.5 27.5 27.5 27.5 26.5 26.5 25.5 25.5
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15	22.5 23.0 23.5 23.5 23.0 22.5 24.0 23.5 22.5 22.5 22.5 22.5 23.5 23.5	JUNE 21.0 21.5 22.0 22.0 22.0 22.0 21.5 21.0 20.5 21.0 21.5 21.0	22.0 22.5 22.5 22.5 22.5 22.5 22.5 23.0 22.0 21.5 21.5 21.5 22.0 22.0 22.0	26.0 25.5 27.0 27.0 27.0 27.0 27.0 27.5 27.5 27.5 27.5 27.5 27.5 27.5	JULY 24.5 24.5 25.0 25.5 25.5 25.5 25.5 25.6 26.0 26.0 26.0	25.0 25.5 26.0 26.0 26.5 26.0 26.5 26.5 26.5 27.0 27.0	29.5 29.5 29.5 30.0 30.5 30.5 30.0 30.0 30.0 29.5 29.0 29.0	AUGUST 28.0 28.0 28.5 28.5 29.0 29.0 29.0 29.0 29.0 29.0 29.5 28.5 28.5 28.5	28.5 28.5 28.5 29.0 29.0 29.5 29.5 29.5 29.5 29.5 29.5 29.5 29.5	28.5 29.0 29.0 28.0 28.5 28.0 27.0 27.0 26.5 26.5 26.5	SEPTEMB 27.0 27.5 27.0 27.0 27.0 26.0 26.5 26.0 25.0 25.0 24.5	27.5 28.0 28.0 27.5 27.5 27.5 27.5 26.5 26.5 26.5 25.5 25.5
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15	22.5 23.5 23.5 23.5 23.5 24.0 22.5 22.5 22.5 22.5 23.5 22.5 23.5 23.5	JUNE 21.0 21.0 22.0 22.0 22.0 22.0 21.5 21.0 21.5 21.0 21.5 21.5 21.5	22.0 22.5 22.5 22.5 22.5 22.5 23.0 22.0 21.5 21.5 21.5 22.0 22.0 22.5 22.5	26.0 26.0 25.5 27.0 27.0 27.0 27.0 27.5 27.5 27.5 27.5 27.5	JULY 24.5 24.5 25.0 25.5 25.5 25.5 25.6 26.0 26.0 26.5	25.0 25.5 26.0 26.0 26.0 26.5 26.0 26.5 26.0 26.5 26.5 27.0	29.5 29.5 29.5 30.0 30.5 30.5 30.0 30.5 30.0 29.5 29.0 29.0 29.5	AUGUST 28.0 28.0 28.5 28.5 29.0 29.0 29.0 29.0 29.0 29.0 29.0 29.0	28.5 28.5 29.0 29.0 29.5 29.5 29.5 29.5 29.5 29.5 29.5 29.5	28.5 29.0 29.0 28.0 28.0 27.0 27.0 26.5 26.5 26.5 26.5 26.5	SEPTEMB 27.0 27.5 27.0 27.0 27.0 26.0 26.5 26.0 25.0 25.0 25.0 24.0	27.5 28.0 28.0 28.0 27.5 27.5 27.5 26.5 26.5 25.5 25.5 25.5 24.5
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15	22.5 23.5 23.5 23.5 23.5 24.0 22.5 22.5 22.5 22.5 23.5 23.0 22.5 23.5 23.5 23.5 22.5 22.5 23.5 23.5	JUNE 21.0 21.5 22.0 22.0 22.0 22.0 21.5 21.0 20.5 21.0 21.5 21.5 21.0 21.5 21.5	22.0 22.5 22.5 22.5 22.5 22.5 22.5 22.5	26.0 26.0 25.5 27.0 27.0 27.0 27.0 27.0 27.5 27.5 27.5 27.5 27.5 28.0 27.5	JULY 24.5 24.5 24.5 25.0 25.5 25.5 25.5 25.6 26.0 26.0 26.5	25.0 25.5 26.0 26.0 26.5 26.0 26.5 26.0 26.5 26.5 27.0 27.0	29.5 29.5 29.5 30.0 30.5 30.5 30.0 30.5 30.0 30.5 29.5 29.0 29.5 29.0 28.0 27.5	AUGUST 28.0 28.0 28.5 28.5 29.0 29.0 29.0 29.0 29.0 29.0 29.0 29.0	28.5 28.5 28.5 29.0 29.0 29.5 29.5 29.5 29.5 29.5 29.5 29.5 29.0 28.5 28.0 27.0 26.5 26.0	28.5 29.0 29.0 28.0 28.5 28.0 27.0 27.0 26.5 26.5 26.5 26.5 26.5 25.0 25.5	SEPTEMB 27.0 27.5 27.0 27.0 27.0 27.0 26.0 26.5 26.0 25.0 25.0 24.0 24.0 24.0	27.55 28.00 28.00 27.5 27.5 27.5 26.5 26.5 26.5 25.5 25.5 24.5 24.5 24.5
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20	22.5 23.5 23.5 23.5 23.5 24.5 22.5 22.5 22.5 22.5 22.5 23.5 23.5 23	JUNE 21.0 21.5 22.0 22.0 22.0 22.0 21.5 21.0 20.5 21.5 21.0 21.5 21.5 22.0 21.5 22.0 21.5 22.0	22.0 22.5 22.5 22.5 22.5 22.5 22.5 23.0 22.0 21.5 21.5 22.0 22.0 22.5 22.5 22.5 22.0 22.5	26.0 25.5 27.0 27.0 27.0 27.0 27.0 27.5 27.5 27.5 28.0 27.5 28.0	JULY 24.5 24.5 24.5 25.0 25.5 25.5 25.5 25.6 26.0 26.5 26.0 26.5 26.0	25.0 25.5 26.0 26.0 26.5 26.5 26.5 26.5 27.0 27.0	29.5 29.5 29.5 30.0 30.5 30.5 30.0 30.0 30.0 29.5 29.0 28.5 27.0 26.5 27.0	AUGUST 28.0 28.0 28.5 28.5 29.0 29.0 29.0 29.0 29.0 29.0 29.0 29.0	28.5 28.5 29.0 29.0 29.5 29.5 29.5 29.5 29.5 29.5 29.5 29.0 28.5 28.0 27.0 26.5 26.0	28.5 29.0 29.0 28.0 28.5 28.0 27.0 27.0 26.5 26.5 26.5 26.5 26.5 25.5 25.5 24.5	SEPTEMB 27.0 27.5 27.0 27.0 27.0 26.0 26.5 26.0 25.0 25.0 24.0 24.0 24.0 24.0	27.5 28.0 28.0 27.5 27.5 27.5 26.5 26.5 26.5 25.5 25.5 24.5 24.5 24.5
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	22.5 23.5 23.5 23.5 23.5 22.5 22.5 22.5	JUNE 21.0 21.5 22.0 22.0 22.0 22.0 21.5 21.0 21.5 21.5 21.5 21.0 21.5 21.5 22.0 22.0 22.0 21.5 21.0	22.0 22.5 22.5 22.5 22.5 22.5 22.5 23.0 22.0 21.5 21.5 22.0 22.0 22.5 22.5 22.5 22.5 22.5	26.0 25.5 27.0 27.0 27.0 27.0 27.0 27.5 27.5 27.5 27.5 27.5 27.5 27.5 27.5	JULY 24.5 24.5 25.0 25.5 25.5 25.5 25.5 26.0 25.5 26.0 26.0 26.0 26.0 26.0 26.0	25.0 25.5 26.0 26.0 26.5 26.0 26.5 26.0 27.0 27.0 27.0 27.0	29.5 29.5 29.5 30.0 30.5 30.5 30.0 30.5 30.0 29.5 29.0 28.5 27.0 26.5 27.0	AUGUST 28.0 28.0 28.0 28.5 28.5 29.0 29.0 29.0 29.0 29.0 29.0 29.0 29.0	28.5 28.5 29.0 29.0 29.5 29.5 29.5 29.5 29.5 29.5 29.5 29.0 29.0 29.0 29.0 29.0 29.0	28.5 29.0 29.0 28.0 28.0 27.0 26.5 26.5 26.5 26.5 25.5 25.5 25.5 26.5	SEPTEMB 27.0 27.5 27.0 27.0 27.0 27.0 26.0 25.0 25.0 25.0 25.0 24.0 24.0 24.0 24.0	27.50 28.00 28.00 27.50 27.50 27.50 26.55 26.55 25.55 24.55 24.55 24.55 24.55 24.55
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21	22.5 23.5 23.5 23.5 23.5 22.5 22.5 22.5	JUNE 21.0 21.5 22.0 22.0 22.0 22.0 21.5 21.0 21.5 21.5 21.5 21.5 22.0 22.5 23.0	22.0 22.5 22.5 22.5 22.5 22.5 22.5 23.0 22.0 21.5 22.0 22.5 22.5 22.5 22.5 22.5 22.5 22	26.0 26.0 25.5 27.0 27.0 27.0 26.0 27.5 27.5 27.5 27.5 28.0 27.5 28.0 29.0 30.0 29.0	JULY 24.5 24.50 25.00 25.5 5 25.5 5 25.5 5 26.00 25.5 5 26.00 25.5 26.00 26.5 26.00 26.5 26.00 28.00 28.00 28.00 28.00	25.0 25.5 26.0 26.0 26.0 26.5 26.0 26.5 26.0 27.0 27.0 27.0 27.0 27.0 28.5 28.5	29.5 29.5 30.0 30.5 30.5 30.5 30.0 30.5 30.5 30	AUGUST 28.0 28.0 28.5 28.5 29.0 29.0 29.0 29.0 29.0 29.0 29.0 29.0	28.5 28.5 28.5 29.0 29.0 29.5 29.5 29.5 29.5 29.5 29.5 29.5 29.5	28.5 29.0 29.0 28.0 28.0 28.0 27.0 27.0 26.5 26.5 26.5 26.5 25.5 25.5 26.5 25.5 26.5 25.5 26.5 25.5 26.5 25.5 26.5 25.5 26.5 26	SEPTEMB 27.0 27.5 27.0 27.0 27.0 27.0 26.0 26.5 26.0 25.0 25.0 24.0 24.0 24.0 24.0 24.0 24.0 24.0 24	27.55 28.00 28.00 27.55 27.50 26.55 26.55 26.55 25.55 24.55 24.55 24.55 24.55 24.55 24.55 24.55 24.55
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 3 24 25	22.5 23.5 23.5 23.5 23.5 24.5 22.5 22.5 22.5 22.5 23.5 23.0 23.5 23.0 23.5 23.0 23.5 23.5 23.5 23.5 23.5 23.5 23.5 23.5	JUNE 21.0 21.5 22.0 22.0 22.0 22.0 21.5 21.5 21.0 21.5 21.0 21.5 21.0 21.5 21.0 21.5 21.0 21.5 21.0 21.5 21.0 21.5 21.0 21.5 21.0	22.0 22.5 22.5 22.5 22.5 22.5 22.5 22.0 22.0	26.0 25.5 27.0 27.0 27.0 27.0 27.0 27.5 27.5 27.5 28.0 27.5 28.0 27.5 28.0 27.5 29.0 20.0 20.0 20.0 20.0 20.0 20.0 20.0 20.0 20.0	JULY 24.5 24.5 24.5 25.0 25.5 25.5 25.5 25.6 26.0 26.5 26.0 26.5 28.0 28.0 28.0 27.5	25.55 26.00 26.00 26.55 26.00 26.55 26.55 26.55 27.00	29.5 29.5 29.5 30.0 30.5 30.0 30.5 30.0 30.5 29.0 28.5 29.0 28.5 27.5 26.5 27.0 26.5 27.0	AUGUST 28.0 28.0 28.5 28.5 29.0 29.0 29.0 29.0 29.0 29.0 29.0 29.0	28.5 28.5 28.5 29.0 29.0 29.5 29.5 29.5 29.5 29.5 29.5 29.0 28.5 28.0 27.5 28.0 27.5 28.0 27.5 28.0 28.5 29.5 29.5 29.5 29.5 29.5 29.5 29.5 29	28.5 29.0 29.0 28.0 28.5 28.0 27.0 27.0 26.5 26.5 26.5 26.5 25.5 25.5 25.5 25.5	SEPTEMB 27.0 27.5 27.0 27.0 27.0 26.0 25.0 26.5 26.0 25.0 24.0 24.0 24.0 24.0 24.0 24.0 24.0 24	27.55 28.00 28.00 27.5 27.50 26.55 26.55 26.55 25.55 24.55 24.55 24.55 24.55 24.55 24.55 24.55 24.55 24.55
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26	22.5 23.5 23.5 23.5 23.5 22.5 22.5 22.5	JUNE 21.0 21.0 22.0 22.0 22.0 22.0 21.5 21.0 21.5 21.0 21.5 21.0 21.5 22.0 21.5 22.0 22.0 23.5 23.5	22.0 22.5 22.5 22.5 22.5 22.5 22.5 22.0 22.0	26.0 26.0 25.5 27.0 27.0 27.0 26.0 27.5 27.5 27.5 27.5 28.0 27.5 28.0 29.0 30.0 29.0	JULY 24.5 24.5 25.0 25.5 25.5 25.5 25.5 25.5 26.0 25.5 26.0 26.5 26.0 26.5 26.0 26.5 26.0 26.5 26.0 26.5 26.0 27.5 28.5 28.0 28.5 27.5	25.0 25.5 26.0 26.0 26.0 26.5 26.0 26.5 26.0 27.0 27.0 27.0 27.0 27.0 28.5 28.5	29.5 29.5 30.0 30.5 30.5 30.5 30.0 30.5 30.5 30	AUGUST 28.0 28.0 28.5 28.5 29.0 29.0 29.0 29.0 29.0 29.0 29.0 29.0	28.5 28.5 28.5 29.0 29.5 29.5 29.5 29.5 29.5 29.5 29.5 29.5 29.5 29.5 29.5 29.5 29.5 29.5 29.5 29.6	28.5 29.0 29.0 28.0 28.0 28.0 27.0 27.0 26.5 26.5 26.5 26.5 25.5 25.5 26.5 25.5 26.5 25.5 26.5 25.5 26.5 25.5 26.5 25.5 26.5 26	SEPTEMB 27.05 27.55 27.00 27.	27.50.55 28.00 28.00 28.05 27.55 27.55 26.55 26.55 25.55 24.55 25.55 26.
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 3 24 25 26 27 28	22.5 0 23.5 5 24.0 5 22.5 5 22.2 23.5 0 22.5 5 22.2 23.5 0 22.5 5	JUNE 21.0 21.5 22.0 22.0 22.0 22.0 21.5 21.0 21.5 21.5 21.0 21.5 21.5 22.0 22.0 22.0 21.5 21.5 22.0 22.0 22.0 22.0 22.0 22.0 22.0 22	22.0 22.5 22.5 22.5 22.5 22.5 22.5 22.5	26.0 25.5 27.0 27.0 27.0 27.0 27.5	JULY 24.5 24.5 24.5 25.0 25.5 25.5 25.5 26.0 26.5 26.0 26.5 28.5 28.0 28.0 27.5 27.5 27.5	25.5.5 26.0 26.5 26.5 26.0 26.5 26.5 26.0 27.0 27.0 27.0 27.0 27.0 27.0 27.0 27	29.55 29.55 30.00 30.55 30.00 30.55 30.00 30.55 30.00 30.55 30.00 30.55 30.00 20.55 20.00 20.55 20.00	AUGUST 28.0 28.0 28.5 28.5 29.0 29.0 29.0 29.0 29.0 29.0 29.0 29.5 28.5 28.5 28.5 26.0 26.5 25.5 25.5 26.5	28.5 28.5 28.5 29.0 29.5	28.5 29.0 29.0 28.0 28.5 28.0 27.0 26.5 26.5 26.5 26.5 25.5 25.5 25.5 25.5	SEPTEMB 27.05 27.55 27.00 27.00 27.00 27.00 27.00 27.00 27.00 24.00 25.00 26.	27.50.55 28.00 28.00 27.55 27.55 26.55 26.55 26.55 27.
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30	22.50.55.55 22.55.55.55 22.55.55.55 22.55.55.55	JUNE 21.0 21.0 22.0 22.0 22.0 22.0 21.5 21.0 21.5 21.0 21.5 21.0 21.5 21.0 21.5 21.0 21.5 21.0 21.5 21.0 21.5 21.0 21.5 21.0 21.5 21.0 21.5 21.0 21.5 21.0 21.5 21.0 21.5 21.0 21.5 21.0 21.5 21.5 22.0 22.0 22.5 23.5 24.5	22.0 22.5 22.5 22.5 22.5 22.5 22.5 22.5	26.0 25.5 27.0 27.0 27.0 227.0 227.5 27.5 227.5	JULY 24.5 24.5 25.0 25.5 25.5 25.5 26.0 26.0 26.5 26.0 26.5 28.0 28.0 28.7 28.0 27.5 28.0 27.5 28.0	25.55 25.55 26.00 26.55 26.00 26.55 26.00 27.00 27.00 27.00 27.00 27.00 28.55 28.55 28.55 28.55 28.55 28.55 28.55 28.55	29.5 29.5 30.0 30.5 30.0 30.5 30.0 30.5 30.0 30.5 29.0 29.0 28.5 27.5 26.5 27.5 26.5 27.5 27.5	AUGUST 28.0 28.0 28.0 28.0 29.0 29.0 29.0 29.0 29.0 29.0 29.0 29	28.5 28.5 29.0 29.5 29.5 29.5 29.5 29.5 29.5 29.5 29.5 29.5 29.5 29.5 29.5 29.5 29.5 29.5 29.5 29.6	28.5 29.0 29.0 28.0 28.0 28.0 27.0 26.5 26.5 26.5 26.5 25.5 25.5 25.5 24.0 25.5 25.5 24.0 25.5 26.5 26.5 27.0 28.0 29.0 29.0 29.0 29.0 29.0 29.0 29.0 29	SEPTEMB 27.05 27.50 27.00 27.00 27.00 27.00 26.50 25.00 25.00 25.00 24.00 24.00 24.40 24.40 24.40 24.40 24.50 25.00 25.00 25.10 26.10 26.10 27.	27.50055 28.00 28.05 27.55 27.55 26.55 26.55 26.55 25.55 24.55 25.55 24.55 25.55 24.55 24.55 25.55 26.
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 9 30 31	22.50 23.55 23.55 22.55 22.55 22.55 22.55 22.55 22.55 22.55 23.55 22.55	JUNE 21.0 21.0 22.0 22.0 22.0 22.0 21.5 21.0 21.5 21.0 21.5 21.0 21.5 22.0 22.0 21.5 22.0 22.0 22.0 22.0 22.0 22.0 22.0 22	22.0 22.5 22.5 22.5 22.5 22.5 22.5 22.5	26.0 26.0 27.0	JULY 24.5 24.5 25.0 25.5 25.5 25.5 25.5 25.5 25.5 26.0 26.5 26.0 26.5 26.0 26.5 26.0 26.5 26.0 27.5 28.0 27.5 28.0 27.5 28.0 27.5 28.0 28.0 28.0 27.5 28.0 28.0 27.5 28.0 28.0 28.0 27.5 28.0 28.0 28.0 28.0 27.5 28.0 28.0 28.0 28.0 27.5 28.0 28.0 28.0 28.0 27.5 28.0 28.0 28.0 28.0 28.0 28.0 28.0 28.0	25.55.50.00 26.55.50.00 26.55.50.00 26.55.50.00 26.55.50.00 26.55.50.00 27.00 27.00 29.85.55 28.85.50.00 28.85.50.	29.55.00 30.	AUGUST 28.0 28.0 28.0 28.5 29.0 29.0 29.0 29.0 29.0 29.0 29.0 29.5 28.5 28.5 28.5 26.0 25.5 26.0 25.5 26.0 25.5 26.0 27.0 27.0	28.5 28.5 29.0 29.0 29.5 29.5 29.5 29.5 29.5 29.5 29.5 29.5	28.5 29.0 29.0 28.0 28.0 27.0 26.5 26.0 26.0 25.0 25.0 25.0 25.0 25.0 25.0 25.0 25	SEPTEMB 27.05 27.55 27.00 27.00 27.00 266.50 255.00 255.00 24.00 24.50 24.40 24.50 24.40 24.50 25.10 24.50 25.10 26.10 26.10 27.00	27.50 28.00 28.00 27.50 27.50 27.50 26.55 26.55 26.55 25.55 24.55 25.55
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30	22.50.55.55 22.55.55.55 22.55.55.55 22.55.55.55	JUNE 21.0 21.0 22.0 22.0 22.0 22.0 21.5 21.0 21.5 21.0 21.5 21.0 21.5 21.0 21.5 21.0 21.5 21.0 21.5 21.0 21.5 21.0 21.5 21.0 21.5 21.0 21.5 21.0 21.5 21.0 21.5 21.0 21.5 21.0 21.5 21.0 21.5 21.5 22.0 22.0 22.5 23.5 24.5	22.0 22.5 22.5 22.5 22.5 22.5 22.5 22.5	26.0 25.5 27.0 27.0 27.0 227.0 227.5 27.5 227.5	JULY 24.5 24.5 25.0 25.5 25.5 25.5 26.0 26.0 26.5 26.0 26.5 28.0 28.0 28.7 28.0 27.5 28.0 27.5 28.0	25.55 26.00 26.55 26.00 26.55 26.00 26.55 27.00 27.00 27.00 27.00 27.00 28.55 28.55 28.55 28.55 28.55 28.55 28.55 28.55	29.5 29.5 30.0 30.5 30.0 30.5 30.0 30.5 30.0 30.5 29.0 29.0 28.5 27.5 26.5 27.5 26.5 27.5 27.5	AUGUST 28.0 28.0 28.0 28.0 29.0 29.0 29.0 29.0 29.0 29.0 29.0 29	28.5 28.5 29.0 29.5 29.5 29.5 29.5 29.5 29.5 29.5 29.5 29.5 29.5 29.5 29.5 29.5 29.5 29.5 29.5 29.6	28.5 29.0 29.0 28.0 28.0 28.0 27.0 26.5 26.5 26.5 26.5 25.5 25.5 25.5 24.0 25.5 25.5 24.0 25.5 26.5 26.5 27.0 28.0 29.0 29.0 29.0 29.0 29.0 29.0 29.0 29	SEPTEMB 27.05 27.50 27.00 27.00 27.00 27.00 26.50 25.00 25.00 25.00 24.00 24.00 24.40 24.40 24.40 24.40 24.50 25.00 25.00 25.10 26.10 26.10 27.	27.50055 28.00 28.00 27.555 27.555 27.555 26.555 26.555 25.555 24.555 24.55 24.55 25.555 24.55 24.55 25.55 24.55 24.55 25.55 24.55 25.55 24.55 25.55 24.55 25.55 24.55 25.55 24.55 25.55 24.55 25.55 25.55 26.55 2

01482800 DELAWARE RIVER AT REEDY ISLAND JETTY, DEL--Continued

SPECIFIC CONDUCTANCE (MICROMHOS/CM AT 25 DEG. C), WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

			COMPOSITING	L (IIIOIIOII	nob, on A	L LJ DLU.	o, waren	ILAN OUTC	DEN 1919	TO SEFTEMBE	1 1900	
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		остов	ER		NOVEMB	ER		DECEMBE	ER .		JANUA	RY
1				10400	3400	5000				0560	0200	11000
				9800	3400	5880 5450			===	8560 8360	2320 2560	4220 4290
2 3 4	9600	2760	5400	8360	2720	4600				7960	2400	4250
	7920	2160	4220	8720	2720	4680				7000	2600	3870
5	8400	2040	4000	8320	2720	4320	10400	1800	3920	9240	3200	5100
6	6320	1560	2860	7120	2320	4070	8040	1600	3470	10000	3760	6620
7	4200	1200	2180	5560	2160	3280	8400	1960	3460	9640	3600	6700
8	2160	800	1510	7560	2200	3700	6560	600	2180	5600	2720	3680
9	1560	800	1110	5960	2200	3420	7520	800	2050	5960	2760	4040
10	2600	760	1140	5920	1920	3090	7000	800	2210	6400	2760	4290
11	3520	560	1440	5400	1800	3090	9640	1000	4050	7400	2960	5140
12	2200	400	971	7000	2600	4620	10000	800	2990	6160	1760	3480
13	2000 4720	400 400	713 1480	10600 11200	2600	6160	5400	800	2440	4560	1400	2740
13 14 15	8040	400	4040	11200	3200 2840	6570 7450	7640 8440	1160 2040	4180 5160	8000 8720	2200 3000	4790 5660
						1.130	0110	2010	3100	0120	3000	3000
16	9560	840	4070	10400	2800	6030	9560	2600	5190	10200	3200	6230
17	10000	1600	5280	10400	2160	5540	6600	1920	3510	7400	3640	5130
18 19	10000 9160	2440	5570 5200	8800 9920	2200 2800	4510 5480	8840 10200	2000	4360 5150	5520 4840	4200 4000	4700 4470
20	9520	2960	5440	9960	3200	5460	11100	3960	6460	4840	4000	4320
				,,,,,	3400	3.00		3,00	0100	1010	1000	1320
21	8800	2800	4960	10200	3200	5690	10600	3760	6670	9360	3800	5100
22	7560	2760	4450	10000	3600	5600	9360	3960	6180	9120	3800	5270
23	8440 8800	2720 2800	4960 4990	9120 7760	3640 3400	5370	9360 9160	4000 4000	5950	10200	3800	5970
25	7800	2360	4080	7920	3200	4930 4750	8440	4560	5960 6140	6600 7200	3520 2960	4430 4100
							0110		0110			1100
26	7640	2000	3880	8800	3520	5650	7120	4000	5150	6400	2840	3980
27	11200 10200	2040 2800	5310	4840 4400	2040	3420	7520	3000	4240	8440	2400	4270
29	10000	2800	6070 5410	4400	800	2580	5920 5160	2720 2000	3500 3060	10300 10600	2840 2960	5310 5100
30	10400	2840	5640				6800	2040	3310	8720	2560	4250
31	12000	3240	5970				8440	2200	3930	10800	2720	5620
MONTH	12000	400	2070	11000	000	11.011.0	44400					
MONIA	12000	400	3870	11200	800	4840	11100	600	4250	10800	1400	4750
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		FEBRUA	RY		MARCH	ł		APRIL			MAY	
	10700	2600	6050	16000	10000	44000				h ha h a		
1 2	10700	3600	6050	16000 14700	10200 11400	11800				4440 6000	960 760	2170
3				14700						6320	800	2400 2520
4				18600	10400					5520	800	1840
5				20600	11600	17000				5000	800	2110
6				19200	9240	13500				6160	840	2560
7				20000	8840	14800				6000	1000	2740
8				19600	9520	13900				5640	1160	2870
10				17600	10000	12300				6360	1240	3010
10				18800	10400	13900	840	360		8160	1360	3600
11				20600	9960	14300	840	320	476	7160	1600	3360
12				14800	7760	10500	440	320	377	7240	1520	2890
13				17400	7800	11600	440	320	378	6040	1400	2990
14 15				18600 12000	9600 8040	13600 9780	800 1120	320 200	415 443	6960 5760	1360 1240	2910
15				12000	0040	9700	1120	200	443	5700	1240	2680
16				11600	7200	8730	440	320	408	6040	1360	2780
1.7				12000	6840		720	200	777	6800	1400	2740
18 19				9200	5600		440	200	344	5960	1640	2920
20				12000	4800	6720	360 560	200 160	284 292	4840 5400	1600 1560	2570 2530
						0,20	300	,,,,	- /-	3.00	1,500	- 230
21				11200	5600	7750	320	200	301	5120	1800	3140
22												
23												
25							5200	840		222		===
	16000	111100										
26 27	16000 20400	11400 11100	15200				6200 5760	960 1360	2750	11600	2900	7200
28	17800	11200	13500				6840	1400	3130 3780	11600 11800	3800 3800	7200 6900
29	16600	10400	12700				6840	1400	3840	12700	4400	7160
30							5560	1400	2870	13000	4720	7730
31										12600	5120	7680
MONTH	20400	3600	11900	20600	4800	12000	6840	160	1340	13000	760	3620

01482800 DELAWARE RIVER AT REEDY ISLAND JETTY, DEI--Continued

SPECIFIC CONDUCTANCE (MICROMHOS/CM AT 25 DEG. C), WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

		SPECIFIC	CONDUCTANCE	(MICROME	IOS/CM AT	25 DEG.	C), WATER	TEAR OCT	DBER 1979	10 SEPTEMBE	K 1980	
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		JUNE			JULY			AUGUS	r		SEPTEM	BER
1	12600	4960	7710	15100	7600	10100	15200	8160	10700	16800	10400	12700
	12800	5120	7730	15400	7640	10500	14000	7960	10200	15800	9120	11900
3	12000	5360	7800	14000	7400	9650	13100	7800	9700	16000	9200	11400
	12400	4800	7460	14000	7360	9800	16300	7760	10600	17000	9240	12100
5	12400	5000	8220	14400	7640	10500	16000	8720	11100	16800	10000	12600
6	13600	5600	8880	13500	7600	9790	15400	8400	10700	17000	10200	12500
7	13000	5760	8870	14700	7400	10000	16000	8000	10200	16200	10000	12400
8	14400	5800	8780	13000	8000	10100	15800	8000	10700	17000	10600	13100
9	13400	5120	8320	15200	7160	9610	16000	7600	10300	17200	10800	13200
10	13100	5520	8120	15200	7200	9970	16200	7760	10500	16800	9600	12400
11	12800	5600	7850	15500	7760	10400	16400	8160	11200	16000	9640	12400
12	12800	5520	7870	15900	8200	10600	16000	8320	10800	16200	9920	12300
13	13200	5600	7920	15100	8320	10700	15600	8200	11000	16200	10200	12800
14	13600	5800	8310	15600	8320	11000	16000	8760	11600	16400	10800	13200
15	13900	6160	9190	15800	8800	11200	15600	8400	11100	15100	11100	12700
16	13400	6160	8310	14300	7800	10200	15200	8040	10500	21000	11800	15700
17	12800	6000	8450				15800	8160	12000	19900	14400	17000
18	14300	6600	9520				17600	9560	13000	18800	12300	14800
19	13200	6800	9550				17200	9360	12700	18800	11900	14600
20	14000	7200	9820		777		17800	9200	12800	19900	11800	15000
21	13200	6160	9050	13600	6720		18600	10600	13900	19000	12000	14500
22	13600	6160	9430	14200	6840	9800	19600	11500	15200	19400	11200	14000
23	15200	6400	9780	15000	6600	9810	19400	11400	14700	19200	11400	14300
24	14400	6560	9590	15800	6800	9540	18400	11400	13900	20400	11800	15000
25	14000	6000	9000	17000	7160	10500	18700	11200	13800	21200	13100	16400
26	14700	6000	9000	16200	7600	10500	18800	11200	13900	19600	12400	15900
27	15200	6560	9950	16000	7800	10400	18800	11200	14100	17800	11900	14100
28	14400	6800	9560	15200	7800	10500	18600	11200	14000	19200	12000	14300
29	16400	7240	10400	16000	8000	10800	18200	11600	14200	20400	12000	15000
30	15000	7560	10200	15600	7920	10900	17800	11600	14300	20000	13600	16300
31				14800	7960	10500	17000	11800	14100			
MONTH	16400	4800	8820	17000	6600	10300	19600	7600	12200	21200	9120	13800
YEAR	21200	160	7450									

		12 2 2 2					2-2-2			012 412
OXYGEN,	DISSOLVED	(DO),	MG/L,	WATER	YEAR	OCTOBER	1979	TO	SEPTEMBER	1980

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		OCTOBE	CR CR		NOVEMBE	R		DECEMBE	R		JANUAF	Y
1 2 3 4 5	6.8 6.5 6.7	5.9 5.6 5.6	6.4 6.1 6.3	8.8 8.8 9.0 9.0	7.8 8.0 8.2 8.1 8.0	8.4 8.5 8.5 8.6 8.5	9.8	9.4	==	11.6 11.5 11.6 11.6 11.9	10.8 10.8 10.8 11.0 11.4	11.2 11.1 11.2 11.3 11.7
6 7 8 9	6.7 6.9 7.4 7.8 7.8	5.8 6.0 6.4 6.5 7.0	6.4 6.6 6.9 7.2 7.6	8.8 8.6 8.7 8.8 8.6	7.7 7.7 7.6 7.7 7.6	8.3 8.1 8.3 8.2 8.1	9.7 9.7 11.0 10.7 10.8	9.3 9.3 9.5 9.8 10.0	9.5 9.5 10.1 10.3 10.3	12.1 12.0 11.9 11.9	11.5 11.6 11.6 11.6 11.5	11.8 11.9 11.7 11.7
11 12 13 14 15	7.7 7.6 7.4 7.6 7.9	7.0 6.8 6.8 6.6 7.2	7.4 7.3 7.2 7.3 7.6	8.8 9.2 9.2 9.2 9.2	7.8 8.3 8.4 8.4	8.3 8.7 8.9 8.8 9.0	10.6 10.9 11.0 11.2	10.2 10.2 10.6 10.7 10.8	10.3 10.5 10.8 10.9	12.1 12.4 12.4 12.2 12.2	11.6 11.6 11.5 11.7 11.8	11.9 11.9 11.9 12.0 12.0
16 17 18 19 20	8.0 7.8 7.6 7.5 7.5	7.4 7.3 7.0 6.8 6.8	7.7 7.6 7.3 7.2 7.2	9.3 9.4 9.4 9.3 9.3	8.8 8.9 8.8 8.8	9.0 9.1 9.1 9.1	11.2 13.6 11.6 11.7 12.0	10.5 10.7 11.0 11.2 11.6	10.9 11.3 11.4 11.5 11.8	12.2 12.2 12.1 11.9 11.9	11.6 11.6 11.5 11.4 11.4	12.0 11.9 11.8 11.7 11.6
21 22 23 24 25	7.4 7.2 7.4 7.6 7.8	6.6 6.4 6.6 6.8 7.2	7.0 6.8 6.9 7.3 7.6	9.2 9.2 9.0 8.9 9.0	8.5 8.4 8.4 8.4	8.9 8.8 8.7 8.7	12.1 12.1 12.0 11.9	11.8 11.6 11.4 11.3 11.4	12.0 11.9 11.8 11.7	11.9 11.7 11.7 11.7 11.8	11.3 11.3 11.3 11.2 11.4	11.6 11.5 11.5 11.5
26 27 28 29 30 31	8.0 8.4 8.5 8.4 8.6 8.6	7.5 7.8 7.8 7.8 7.8 7.8	7.8 8.1 8.2 8.1 8.1 8.2	9.2 9.0 9.4 	8.6 8.6 8.5	9.0 8.8 8.8 	11.8 11.8 11.9 12.2 11.8 11.6	11.4 11.4 11.3 11.4 11.2	11.6 11.5 11.6 11.7 11.4 11.3	11.6 11.8 11.8 11.9 12.1 12.3	11.4 11.4 11.4 11.4 11.6 11.8	11.5 11.6 11.6 11.7 11.9
MONTH	8.6	5.6	7.3	9.4	7.6	8.7	13.6	9.3	11.1	12.4	10.8	11.7

01482800 DELAWARE RIVER AT REEDY ISLAND JETTY, DE --Continued OXYGEN, DISSOLVED (DO), MG/L, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		FEBRUAR	Y		MARCH			APRIL			MAY	
1	12.7	12.1	12.4							7.2	6.7	6.9
2										7.2	6.8	6.9 7.0
3										7.1 7.2	6.7	6.9
5										7.0	6.5	6.8
6										8.0	6.9	7.4
7 8										7.6	7.0 6.6	7.3
9										7.3 7.5	6.4	7.0
10				13.3	12.4		9.8	9.4		7.8	6.8	7.3
11				13.2	11.8	12.4	9.4	9.0	9.2	7.9	7.3	7.5
12 13				12.2 12.3	11.6	11.9	9.2 8.9	8.8	8.9	8.8	7.3	7.8 8.1
14				12.3	11.6	12.0	8.8	8.5	8.7	8.3	7.8	8.0
15				12.6	10.6	11.7	8.9	8.5	8.7	8.6	7.8	8.1
16				12.7	11.4	11.7	9.2	8.6	8.9	8.5	7.8	8.1
17				12.0	11.4		9.1	8.0		8.4	7.7	8.1
18				12.0	11.3		8.9	8.5	8.7	8.4	7.9 7.8	8.2
20				12.1	11.1	11.5	8.2	7.5	7.9	8.2	7.6	7.8
21				11.9	10.9	11.3	7.8	7.6	7.7	7.9	7.6	7.7
22												
23 24				222								
25							7.8	7.4				
26							7.7	7.2	7.4			
27							7.9	7.1	7.4	7.8	7.2	7.6
28 29							8.1 8.0	7.5 6.8	7.8	8.0 8.0	7.2	7.5
30							6.9	6.5	6.7	8.2	7.2	7.6
31										7.9	7.1	7.5
MONTH	12.7	12.1	12.4	13.3	10.6	11.8	9.8	6.5	8.2	8.8	6.4	7.5
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
DA Y	MAX	M IN JUNE	MEAN	MAX	M IN JULY	MEAN	MAX	MIN AUGUST	MEAN	MAX	M IN SEPTEM	
		JUNE			JULY			AUGUST			SEPTEM	BER
1	7.7	JUNE 6.9	7.3	7.1	JULY 6.2	6.5	6.0	AUGUST	5.7	6.1	SEPTEM 5.4	BER 5.7
1 2	7.7 7.6 7.4	JUNE 6.9 6.8 6.7	7.3 7.2 7.0	7.1 6.8 6.4	JULY 6.2 6.2 5.8	6.5 6.4 6.2	6.0 6.2 6.0	5.4 5.4 5.5	5.7 5.7 5.8	6.1 6.2 6.0	5.4 5.4 5.3	5.7 5.7 5.7
1 2 3 4	7.7 7.6 7.4 7.2	JUNE 6.9 6.8 6.7 6.5	7.3 7.2 7.0 6.8	7.1 6.8 6.4 6.3	JULY 6.2 6.2 5.8 5.7	6.5 6.4 6.2 6.0	6.0 6.2 6.0 6.3	5.4 5.4 5.5 5.5	5.7 5.7 5.8 5.9	6.1 6.2 6.0 6.6	5.4 5.4 5.3 5.3	5.7 5.7 5.7 5.8
1 2 3 4 5	7.7 7.6 7.4 7.2 6.8	JUNE 6.9 6.8 6.7 6.5 6.2	7.3 7.2 7.0 6.8 6.5	7.1 6.8 6.4 6.3 6.2	JULY 6.2 6.2 5.8 5.7 5.6	6.5 6.4 6.2 6.0 5.9	6.0 6.2 6.0 6.3 6.4	5.4 5.4 5.5 5.5 5.6	5.7 5.7 5.8 5.9 5.9	6.1 6.2 6.0 6.6 6.3	5.4 5.4 5.3 5.3	5.7 5.7 5.7 5.8 5.9
1 2 3 4 5	7.7 7.6 7.4 7.2 6.8	JUNE 6.9 6.8 6.7 6.5 6.2	7.3 7.2 7.0 6.8 6.5	7.1 6.8 6.4 6.3 6.2	JULY 6.2 6.2 5.8 5.7 5.6	6.5 6.4 6.2 6.0 5.9	6.0 6.2 6.0 6.3 6.4	AUGUST 5.4 5.5 5.5 5.6	5.7 5.7 5.8 5.9 5.9	6.1 6.2 6.0 6.6 6.3	5.4 5.4 5.3 5.3 5.5	5.7 5.7 5.7 5.8 5.9 6.0
1 2 3 4 5	7.7 7.6 7.4 7.2 6.8 6.5 6.3	JUNE 6.9 6.8 6.7 6.5 6.2 5.9 5.7	7.3 7.2 7.0 6.8 6.5 6.2 6.1	7.1 6.8 6.4 6.3 6.2 6.4	JULY 6.2 6.2 5.8 5.7 5.6 5.6	6.5 6.4 6.2 6.0 5.9 6.0	6.0 6.2 6.0 6.3 6.4 6.4	AUGUST 5.4 5.5 5.5 5.6	5.7 5.7 5.8 5.9 5.9	6.1 6.2 6.0 6.6 6.3 6.8	5.4 5.4 5.3 5.3 5.5	5.7 5.7 5.7 5.8 5.9 6.0 6.1
1 2 3 4 5 6 7 8	7.7 7.6 7.4 7.2 6.8	JUNE 6.9 6.8 6.7 6.5 6.2	7.3 7.2 7.0 6.8 6.5	7.1 6.8 6.3 6.2 6.4 6.4	JULY 6.2 6.2 5.8 5.7 5.6 5.8 5.7	6.5 6.4 6.2 6.0 5.9	6.0 6.2 6.0 6.3 6.4	AUGUST 5.4 5.5 5.6 5.5 5.6 5.5 5.4	5.7 5.7 5.9 5.9 5.9 5.9 5.9 5.9	6.1 6.2 6.0 6.6 6.3 6.8 6.5 7.2	SEPTEM 5.4 5.3 5.3 5.5 5.7 5.8	5.7 5.7 5.7 5.8 5.9 6.0 6.1 6.2
1 2 3 4 5	7.7 7.6 7.4 7.2 6.8 6.5 6.3 6.1	JUNE 6.9 6.8 6.7 6.5 6.2 5.9 5.7	7.3 7.2 7.0 6.8 6.5 6.2 6.1 5.7	7.1 6.8 6.4 6.3 6.2 6.4 6.4	JULY 6.2 6.2 5.8 5.7 5.6 5.6 5.7	6.5 6.4 6.2 6.0 5.9 6.0 6.0	6.0 6.2 6.0 6.3 6.4 6.4 6.2	AUGUST 5.4 5.5 5.6 5.5 5.6	5.7 5.7 5.8 5.9 5.9 5.9	6.1 6.2 6.0 6.6 6.3 6.8 6.5 7.2	SEPTEM 5.4 5.3 5.3 5.5 5.7 5.8	5.7 5.7 5.7 5.8 5.9 6.0
1 2 3 4 5 6 7 8 9 10	7.7 7.4 7.2 6.8 6.5 6.3 6.6 7.6	JUNE 6.9 6.8 6.7 6.2 5.7 5.2 6.6 6.9	7.3 7.2 7.0 6.8 6.5 6.2 6.1 5.7 6.1 7.1	7.1 6.8 6.3 6.2 6.4 6.4 6.4 6.4	JULY 6.2 5.8 5.7 5.6 5.8 5.7 5.6 5.8	6.5 6.4 6.2 6.0 5.9 6.0 6.0 6.0 6.1	6.0 6.2 6.3 6.4 6.4 6.2 6.2 6.8	AUGUST 5.4 5.5 5.6 5.5 5.6 5.5 5.4 5.4	5.7 5.8 5.9 5.9 5.9 5.9 5.9 5.9	6.1 6.2 6.0 6.6 6.3 6.8 6.5 7.2 6.9 6.6	SEPTEMI 5.4 5.3 5.5 5.5 5.7 5.8 5.7	5.7 5.7 5.7 5.8 6.0 6.1 6.2 6.2 6.1
1 2 3 4 5 6 7 8 9 10	7.7 7.6 7.4 7.2 6.8 6.5 6.3 6.1 6.6 7.6 8.0 7.9	JUNE 6.9 6.8 6.7 6.5 6.2 5.9 5.7 5.0 6.6 6.9 7.1	7.3 7.2 7.0 6.8 6.5 6.2 6.1 5.7 6.1 7.1	7.1 6.8 6.4 6.3 6.2 6.4 6.4 6.4 6.4	JULY 6.2 6.2 5.8 5.7 5.6 5.8 5.6 5.8 5.7 5.6 5.7	6.5 6.4 6.2 6.0 5.9 6.0 6.0 6.0 6.1	6.0 6.2 6.3 6.4 6.4 6.2 6.8 6.6	AUGUST 5.4 5.5 5.6 5.5 5.5 5.5 5.4 4 5.4 5.5 5.6 5.6 5.6 5.6 5.6 5.6 5.6 5.6 5.6	77899 99989 98 55555 55555 55555 555	6.1 6.2 6.0 6.6 6.3 6.8 6.5 7.2 6.6 6.6	SEPTEMI 5.4 5.33 5.5 5.7 5.88 5.7 5.88	5.7 5.7 5.7 5.8 5.9 6.0 6.1 6.2 6.1 6.1
1 2 3 4 5 6 7 8 9 10	7.7 7.4 7.2 6.8 6.5 6.1 6.6 7.6 8.0 7.8	JUNE 6.9 6.7 6.5 6.2 5.9 7 5.2 6.6 6.9 7.0	7.3 7.0 6.8 6.5 6.2 6.1 5.7 6.1 7.4 7.4	7.1 6.4 6.3 6.2 6.4 6.4 6.4 6.4 6.3	JULY 6.22 6.85 5.7 6.6 5.68 5.7 6.8 6.7 6.8	6.5 6.4 6.2 6.0 5.9 6.0 6.0 6.0 6.1	6.20 6.34 6.44 6.28 6.68 6.63 6.63	AUGUST 5.4 5.5 5.5 5.5 5.4 5.4 5.4 5.4 5.5 5.6 5.6 5.7 5.4 5.4 5.4	778899 999989 9889 5.55.55 5.55.55 5.55.55	6.1 6.2 6.0 6.6 6.3 6.8 6.5 7.2 6.9 6.6 6.6	SE PT EMI 5.44335 5.5785.87 5.885.7	5.7 5.7 5.7 5.8 5.9 6.0 6.1 6.2 6.1 6.1 6.1
1 2 3 4 5 6 7 8 9 10	7.7 7.6 7.4 7.2 6.8 6.5 6.3 6.1 6.6 7.6 8.0 7.9	JUNE 6.9 6.8 6.7 6.5 6.2 5.9 5.7 5.0 6.6 6.9 7.1	7.3 7.2 7.0 6.8 6.5 6.2 6.1 5.7 6.1 7.1	7.1 6.8 6.4 6.3 6.2 6.4 6.4 6.4 6.4	JULY 6.2 6.2 5.8 5.7 5.6 5.8 5.6 5.8 5.7 5.6 5.7	6.5 6.4 6.2 6.0 5.9 6.0 6.0 6.0 6.1	6.0 6.2 6.3 6.4 6.4 6.2 6.8 6.6	AUGUST 5.4 5.5 5.6 5.5 5.5 5.5 5.4 4 5.4 5.5 5.6 5.6 5.6 5.6 5.6 5.6 5.6 5.6 5.6	77899 99989 98 55555 55555 55555 555	6.1 6.2 6.0 6.6 6.3 6.8 6.5 7.2 6.6 6.6	SEPTEMI 5.4 5.33 5.5 5.7 5.88 5.7 5.88	5.7 5.7 5.7 5.8 5.9 6.0 6.1 6.2 6.1 6.1 6.1
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15	7.7 7.4 7.2 6.8 6.5 6.1 6.6 7.6 8.0 7.8 8.0 7.4	JUNE 6.9 6.7 6.5 6.2 5.9 7.0 6.8	7.3 7.2 7.0 6.8 6.5 6.1 7.1 7.4 7.4 7.3 7.2	7.1 6.4 6.3 6.2 6.4 6.4 6.4 6.4 6.6 6.6	JULY 6.22 6.85 5.6 5.68 5.75 5.68 5.78 5.88 5.9	6.5 6.4 6.2 6.0 5.9 6.0 6.0 6.0 6.1 5.9 6.1 6.1 6.1	6.0 6.2 6.3 6.4 6.4 6.2 6.2 6.3 6.3 6.4 6.2 6.2	AUGUST 5.4 5.5 5.5 5.5 5.5 5.4 5.4 5.	5.5.5.5.5.5.5.5.5.5.5.6.6.	6.1 6.2 6.0 6.6 6.3 6.8 6.5 7.2 6.9 6.6 6.6 6.5 6.3	SE PT EMI 5.44555.5 5.57885 5.6855.7 5.8855.8	5.77 5.77 5.78 5.9 6.0 6.1 6.2 6.1 6.1 6.1 6.1 6.1 6.1
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15	7.7 7.4 7.2 6.8 6.5 6.3 6.6 7.6 8.0 7.9 8.0	JUNE 6.9 6.7 6.5 6.2 5.9 5.7 5.2 6.6 6.9 7.1 7.0	7.3 7.2 7.0 6.8 6.5 6.2 6.1 7.1 7.4 7.4 7.4	7.1 6.8 6.3 6.2 6.4 6.4 6.4 6.4 6.4 6.6	JULY 6.22 5.8 5.7 5.6 5.87 5.8 5.7 5.8 5.7 5.8	6.5 6.4 6.2 6.0 5.9 6.0 6.0 6.1 5.9 6.0 6.1	6.0 6.2 6.3 6.4 6.4 6.2 6.8 6.6 6.6 7.7 6.6 6.9	AUGUST 5.455.6 5.55.4 4 4 4 4 5 5 5 5 5 5 5 5 5 5 5 5	77899 99989 98920 02 55555 55555 55566 66	6.1 6.2 6.0 6.6 6.3 6.8 6.5 6.9 6.6 6.6 6.5 6.5 6.7	SE PT EMI 5.443355 5.78887 888998 5.555.55 5.555.87 5.655 5.66	5.77 5.77 5.78 5.9 6.0 6.1 6.2 6.1 6.1 6.1 6.1 6.1 6.1
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15	7.7 7.4 7.2 6.8 6.5 6.1 6.6 7.6 8.0 7.8 8.0 7.4	JUNE 6.9 6.7 6.5 6.2 5.9 7.0 6.8 7.0 6.8	7.3 7.2 7.0 6.8 6.5 6.2 6.1 7.1 7.4 7.4 7.4 7.3 7.2	7.1 6.8 6.3 6.2 6.4 6.4 6.4 6.4 6.6 6.6 6.6	JULY 6.2265.8755.6 5.68755.8 5.78855.9 6.0	6.5 6.4 6.2 6.0 5.9 6.0 6.0 6.0 6.1 5.9 6.1 6.1 6.1 6.2	6.0 6.2 6.3 6.4 6.2 6.2 6.3 6.3 6.7 6.7 6.9	AUGUST 5.455.56 5.554.4 4 4 4 5 5 5 5 5 5 5 5 5 5 5 5 5	77899 99989 98920 020 55555 55555 55566 6666	6.1 6.2 6.0 6.6 6.3 6.8 6.5 7.2 6.9 6.6 6.6 6.5 6.3	SE PT EMI 5.4.43355 5.78887 5.55.55 5.55.55 5.55.68 5.55.56 5.55.68 5.55.68 5.66.2	5.77 5.77 5.78 5.9 6.0 6.1 6.2 6.1 6.1 6.1 6.1 6.1 6.1
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15	7.7 7.6 7.4 7.2 6.8 6.5 6.3 6.6 7.6 8.0 7.9 8.0 7.4	JUNE 6.9 6.8 6.7 6.5 6.2 5.9 5.7 5.2 6.6 6.9 7.1 7.0 6.8 7.0	7.3 7.2 7.0 6.8 6.5 6.1 7.1 7.4 7.4 7.3 7.2	7.1 6.8 6.3 6.2 6.4 6.4 6.4 6.4 6.6 6.8	JULY 6.22 5.87 5.6 5.87 5.6 5.78 5.78 5.78 6.0	6.5 6.4 6.2 6.0 5.9 6.0 6.0 6.1 5.9 6.0 6.1 6.1 6.2	6.0 6.2 6.3 6.4 6.4 6.2 6.8 6.6 6.6 7.7 6.6 6.9	AUGUST 5.4 5.5 5.5 5.5 5.4 4 4 5.5 5.6 5.8 5.7 5.8 5.8 5.8 5.8 7	77899 99989 98920 0209 55555 55555 55566 6665	6.1 6.2 6.0 6.6 6.3 6.8 6.5 7.2 6.9 6.6 6.8 6.5 6.3	SE PT EMI 5.443335 5.78887 888998 91122 5.55.55 5.55 5.66.22	5.77 5.77 5.78 5.9 6.0 6.1 6.2 6.1 6.1 6.1 6.1 6.1 6.1
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20	7.7 7.6 7.4 7.2 6.8 6.5 6.1 6.6 7.8 8.0 7.8 8.0 7.4	JUNE 6.9 6.7 6.5 6.2 5.9 7.0 7.0 6.8 7.0	7.3 7.2 7.0 6.8 6.5 6.2 6.1 7.1 7.4 7.4 7.4 7.3 7.2	7.1 6.4 6.3 6.2 6.4 6.4 6.4 6.4 6.6 6.6 6.6	JULY 6.22 6.85 5.76 5.68 5.75 5.68 5.75 5.88 5.9 6.0	6.5 6.4 6.2 6.0 5.9 6.0 6.0 6.0 6.1 5.9 6.1 6.1 6.2	6.02 6.34 6.44 6.28 6.63 6.63 6.76.7 6.69 6.24	AUGUST 5.4 55.5 6.5 5.4 5.4 5.5 6.5 5.6 5.7 6.5 5.8 8 7 6.6 6.7 6.7 6.7 6.7 6.7 6.7 6.7 6.7 6	778999 99989 98990 020990 555555 55555 55566 66656	6.1 6.2 6.0 6.6 6.3 6.8 6.5 7.2 6.9 6.6 6.6 6.5 6.3 6.7 6.9 7.0 6.9	SE PT EMI 5.443355 5.78887 5.88998 9.1222 5.5555 5.666.2	5.77 5.78 5.9 6.0 6.12 6.1 6.1 6.1 6.5 6.5 6.5
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21	7.7 7.6 7.4 7.2 6.8 6.5 6.3 6.6 7.6 8.0 7.9 8.0 7.4 7.2	JUNE 6.9 6.7 6.5 6.2 5.9 7.0 7.0 6.8 7.0	7.3 7.2 7.0 6.8 6.5 6.2 6.1 7.1 7.4 7.4 7.3 7.2	7.1 6.8 6.3 6.2 6.4 6.4 6.4 6.4 6.6 6.6 6.6	JULY 6.22 5.87 5.6 5.87 5.68 5.78 5.78 5.88 5.9 6.0 5.4	6.5 6.4 6.2 6.0 5.9 6.0 6.0 6.1 5.9 6.0 6.1 6.1 6.2	6.02 6.34 6.42 6.62 6.63 6.63 6.76 6.94 6.64 6.64 6.64 6.64	AUGUST 5.455.56 5.555.44 4.455.76 5.588.76 7.555.55 5.555.555.55 5.555.555.55 5.555.555.55 5.555.555.55 5.555.5	777899 999989 98920 02099 1 555555 55555 666656 66656 6.090 1	6.1 6.2 6.0 6.6 6.3 6.8 6.5 7.2 6.9 6.6 6.8 6.5 6.3 6.7 6.9 7 6.9	SE PT EMI 5.443355 5.78887 888998 9112222 3	5.775.89 6.016.21 6.116.216.10 6.556.55
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23	7.7 7.6 7.4 7.2 6.8 6.5 6.1 6.6 7.8 8.0 7.8 8.0 7.4	JUNE 6.9 6.7 6.5 6.2 5.9 7.0 7.0 6.8 7.0 7.0	7.3 7.2 7.0 6.8 6.5 6.2 6.1 7.1 7.4 7.4 7.4 7.3 7.2	7.1 6.4 6.3 6.2 6.4 6.4 6.4 6.4 6.6 6.6 6.6 6.6 6.5 6.3	JUL 2 6 5 5 7 6 6 8 7 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5	6.5 6.4 6.2 6.0 5.9 6.0 6.0 6.0 6.1 5.9 6.1 6.1 6.2	6.020 6.34 6.4228 6.66.27 6.66.4 6.66.4 6.76 6.66.4 6.76	AUGUST 5.5.5.6 5.5.4.4.4 4.4.5.7.6 5.8.8.7.6 5.5.5.5.5.5.5.5.5.5.5.5.5.5.5.5.5.5.5	778999 99989 98990 02090 122 55555 55555 55566 66656 66656	6.1 6.2 6.6 6.6 6.3 6.8 6.5 7.2 6.9 6.6 6.5 6.5 6.5 6.9 6.9 6.6 6.6 6.9	SE PT EMI 5.4.43355 5.78887 888998 911222 312	5.77 5.78 5.9 6.0 6.12 6.1 6.12 6.10 6.55 6.55 6.54
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24	7.7 7.6 7.4 7.2 6.8 6.5 6.6 7.6 8.0 7.8 8.0 7.4 7.2	JUNE 6.9 6.7 6.5 6.2 5.7 5.0 5.6 6.9 7.0 7.0 6.8 7.0 7.0 6.8	7.3 7.2 7.0 6.8 6.5 6.2 6.1 7.1 7.4 7.4 7.3 7.2	7.1 6.8 6.3 6.2 6.4 6.4 6.4 6.6 6.6 6.6 6.5 6.3	JUL Y 6.225.76 6.875.68 5.765.88 5.765.88 5.765.88 5.765.88 5.765.88 5.765.88 5.765.88	6.5 6.4 6.2 6.0 5.9 6.0 6.0 6.1 5.9 6.1 6.1 6.2 6.2 6.2	6.02 6.34 6.42 6.62 6.63 6.63 6.76 6.64 6.76 6.8	AUGUST 5.4.4.5.5.6 5.5.4.4.4 4.4.5.7.6 5.8.8.7.6 7.8.8.9	777899 999989 989920 020990 1222 5.55555 5.55566 6.6556 6.6656 6.6656	6.1 6.2 6.0 6.6 6.3 6.8 6.5 7.2 6.9 6.6 6.8 6.5 6.3 6.7 6.9 6.9 6.9 6.6 6.6 6.6 6.6 6.6 6.6 6.6	SE PT EMI 5.44335 5.7887 888998 91222 3122 5.5555 5.5555 56666 66666 66666 66666 66666 66666 66666	5.77 5.78 5.9 6.0 6.12 6.1 6.12 6.10 6.55 6.55 6.54
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25	7.7 7.6 7.4 7.2 6.8 6.5 6.6 7.6 8.0 7.8 8.0 7.4 7.2 	JUNE 6.9 6.7 6.52 5.9 7.0 6.8 7.0 6.8 7.0 6.8 7.0 6.9 6.7	7.3 7.2 7.0 6.8 6.5 6.2 6.1 7.1 7.4 7.4 7.4 7.3 7.2	7.1 6.4 6.3 6.2 6.4 6.4 6.4 6.4 6.6 6.6 6.6 6.6 6.6 6.6	JUL 2285.76 6.876.8 6.7889 6.0 4.166.6 5.6 5.6 5.6 5.6 5.6 5.6 5.6 5.6 5.6	6.5 6.4 6.2 6.0 5.9 6.0 6.0 6.1 5.9 6.1 6.1 6.2 6.2 6.2 6.2	6.020 6.34 6.4228 6.66.27 6.69424 6.768.7	AUGUST 5.4.4 5.5.5	777899 99989 98990 02090 12221 55555 55555 66. 66.66.	6.1 6.2 6.6 6.6 6.3 6.8 6.5 7.2 6.9 6.6 6.5 6.3 6.7 6.9 7.0 6.9 6.6 6.6 6.6 6.6 6.6 6.7	SE PT EMI 5.4.43355 5.78887 888998 911222 311222 5.5555 5.5555 5.666.2 311222	5.77 5.78 5.9 6.0 6.12 6.1 6.12 6.10 6.5 6.5 6.5 6.5 6.5
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26	7.7 7.6 7.4 7.2 6.8 6.5 6.6 7.6 8.0 7.8 8.0 7.4 7.2 	JUNE 6.9 6.7 6.5 6.2 5.9 7.0 7.0 6.8 7.0 7.0 6.8 7.0 6.7 6.5	7.3 7.2 7.0 6.8 6.5 6.2 6.1 7.1 7.4 7.4 7.3 7.2	7.1 6.8 6.3 6.2 6.4 6.4 6.4 6.4 6.6 6.6 6.6 6.6 6.6 6.6	JUL Y 6.22876 688768 678889 6.0 416666 5.1	6.5 6.4 6.2 6.0 5.9 6.0 6.0 6.1 5.9 6.1 6.2 6.2 6.2 6.2	6.020 6.34 6.4228 6.3627 6.636.27 6.6424 6.766.86 6.766.86 6.766.86	AUG 5.4.4.5.5.6 5.5.4.4.4 4.4.5.7.6 5.8.8.7.6 7.8.8.9.9 8.7.6 7.8.8.9 9.7.8 8.7.6 7.8.8.9 9.7.8 8.7.6 9.7.8 8.7.6 9.7.8 8.7.6 9.7.8	555555 55555 55566 66656 66666 6666 66	6.1 6.2 6.6 6.6 6.3 6.8 6.5 7.2 6.9 6.6 6.8 6.5 6.3 6.7 6.9 6.9 6.6 6.6 6.6 6.6 6.6 6.6 7.2	SE PT EMI 5.44335 5.7887 888998 91222 31222 3 5.5555 5.5555 5.666.6666666666666666666	5.77 5.78 5.9 6.0 6.12 6.1 6.12 6.10 6.5 6.5 6.5 6.5 6.5
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 32 24 25 26 27 28	7.76.4 7.26.8 6.53.16.66 7.88.0 7.98.0 7.2 7.2 7.2 7.42 7.2 7.68.0	JUNE 6.98 6.75 6.2 5.97 5.26 6.91 7.00 6.8 7.0 7.09 6.7 6.52 6.2	7.3 7.20 6.8 6.5 6.2 6.1 7.1 7.4 7.4 7.3 7.2 7.2 6.9 6.7 6.5	7.18.44.66.32 6.44.4 3.46.66.6 6.66.6 6.66.6 6.66.6 6.66.6 6.66.6	JUL 22876 68768 67889 0 41666 140	6.5 6.2 6.0 5.9 6.0 6.0 6.1 5.9 6.1 6.1 6.2 6.2 6.2 6.0 5.9 6.0 6.0 6.0 6.0 6.0 6.0 6.0 6.0 6.0 6.0	02034 44228 63627 69424 67687 929 66.66 66	AUG 5.5.5.6 5.5.4.4.4 4.4.5.7.6 5.8.8.7.6 7.8.8.9.9 8.7.6 5.5.5.5.5 5.5.5 5.5.5 5.5.5 5.5.5 5.5.5 5.5.5.5 5.5.5	778999 99989 989900 02090 12221 150 55555 55556 66656 6555	6.1 6.2 6.6 6.6 6.6 6.5 7.6 6.9 6.6 6.6 6.5 6.7 7.0 6.9 6.6 6.6 6.6 6.7 7.0 7.0 7.1 7.1	E HM 443355 578887 888998 91222 31222 346666 6666 6666 6666 6666 6666 6666	5.775.89 6.1226.10 6.126.10 6.155.66.5 6.555.66.5 6.66.5 6.66.5 6.66.5 6.66.5
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29	7.76.4 7.728 6.8 6.366.1 6.66 8.998.4 7.8 8.4 7.2 7.942 7.6 8.666.6	JUNE 6.9 6.7 6.52 5.9 7.10 7.0 6.8 7.0 7.0 6.7 6.5 6.7 6.6 6.7 6.6 6.7 6.6 6.7	7.3 7.20 6.8 6.5 6.1 7.1 7.4 7.3 7.2 6.9 6.7 6.5 6.5	7.186.8466.666.666.6666.6666.6666.666666666	Y 6.22876 68768 67889 0 416666 1406	6.5 6.4 6.2 6.0 5.9 6.0 6.0 6.1 5.9 6.1 6.2 6.2 6.2 6.2 6.0 5.9 6.0 6.1 6.1 6.2 6.0 6.1 6.0 6.1 6.0 6.0 6.1 6.0 6.0 6.1 6.0 6.0 6.0 6.0 6.0 6.0 6.0 6.0 6.0 6.0	02034 44228 63627 69424 67687 9294 6.6666 6666 66666 66666 66656	AUG 55555 55555 55555 55555 55555 55555 5555	77899 99989 98920 02090 12221 1509 55555 55555 55566 66656 6555	6.1 6.2 6.6 6.6 6.3 6.8 6.5 7.2 6.9 6.6 6.8 6.5 6.3 6.7 6.9 6.9 6.6 6.6 6.6 6.6 6.6 7.2	E FT 44335 57887 88998 91222 31222 3462 SE 55555 55555 56666 66666 6666 6666	5.7775.89 6.1221 6.1221 6.10 6.555 6.4355 6.886 6.886 6.888
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 29 20 20 20 20 20 20 20 20 20 20 20 20 20	7.7 7.4 7.2 6.8 6.3 6.6 7.8 8.0 7.8 8.0 7.8 7.9 7.2 7.9 7.2 7.2 7.9 7.2 7.6 8.7 7.2 7.2 7.2 7.2 7.2 7.2 7.2 7.2 7.2 7	JUNE 6.98 6.75 6.52 5.70 6.8 7.0 7.08 7.0 6.7 6.8 6.2 6.2 6.2 6.2 6.2	7.3 7.20 6.8 6.5 6.2 6.1 7.1 7.4 7.4 7.3 7.2 7.2 6.5 6.5 6.7 6.5 6.5	7.186.4466.44 3.466.86 6.666.66 6.66666.66 6.6666.66666.66 6.66666.66 6.66666.66 6.66666.66 6.66666.66 6.66666 6.666	Y 665.76 68768 67889 0 41666 14067	6.5 6.2 6.0 6.0 6.0 6.0 6.1 5.9 6.1 6.2 7.7 7.8 6.0 7.9 6.0 7.9 7.8 7.8 7.8 7.8 7.8 7.8 7.8 7.8 7.8 7.8	02034 44228 63627 69424 67687 92942 6.66.6 6.66.6 6.66.6 6.76 6.9424 67687 92942	AUG 55555 55555 55555 55555 55555 55555 5555	77899 99989 98920 02090 12221 15098 55555 55555 666656 66666 65555	6.1 6.2 6.0 6.6 6.3 6.8 6.5 6.9 6.6 6.6 6.6 6.5 6.9 6.9 7.0 6.9 6.6 6.6 6.6 6.6 6.9 7.0 7.0 7.1 7.2 7.0	E 44335 57887 88998 91222 31222 34624 55555 55555 55555 56666 66666 66666 66666 66666 66666 66666	5.775.89 6.1221 11210 255.55 6.66.6 6.66.5 5.8877 6.77
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29	7.76.4 7.728 6.8 6.366.1 6.66 8.998.4 7.8 8.4 7.2 7.942 7.6 8.666.6	JUNE 6.9 6.7 6.52 5.9 7.10 7.0 6.8 7.0 7.0 6.7 6.5 6.7 6.6 6.7 6.6 6.7 6.6 6.7	7.3 7.20 6.8 6.5 6.1 7.1 7.4 7.3 7.2 6.9 6.7 6.5 6.5	7.186.8466.666.666.6666.6666.6666.666666666	Y 6.22876 68768 67889 0 416666 1406	6.5 6.4 6.2 6.0 5.9 6.0 6.0 6.1 5.9 6.1 6.2 6.2 6.2 6.2 6.0 5.9 6.0 6.1 6.1 6.2 6.0 6.1 6.0 6.1 6.0 6.0 6.1 6.0 6.0 6.1 6.0 6.0 6.0 6.0 6.0 6.0 6.0 6.0 6.0 6.0	02034 44228 63627 69424 67687 9294 6.6666 6666 66666 66666 66656	AUG 55555 55555 55555 55555 55555 55555 5555	77899 99989 98920 02090 12221 1509 55555 55555 55566 66656 6555	6.1 6.2 6.6 6.6 6.3 6.8 6.5 7.2 6.9 6.6 6.8 6.5 6.3 6.7 6.9 6.9 6.6 6.6 6.6 6.6 6.6 7.2	E FT 44335 57887 88998 91222 31222 3462 SE 55555 55555 56666 66666 6666 6666	5.7775.89 6.1221 6.1221 6.10 6.555 6.4355 6.886 6.886 6.888

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01482800 DELAWARE RIVER AT REEDY ISLAND JETTY, DE --Continued PH (STANDARD UNITS), WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

			РН (STANDARD U	NITS), W	ATER YEAR	OCTOBER 197	9 TO SE	PTEMBER 19	80		
DA Y	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		OCTOBE	:R	NOVEMBER			DECEMBER			JANUARY		
1 2 3 4 5	7.2 7.2 7.2 7.2	6.7 6.7 6.7	6.9 6.9 6.9	7.3 7.4 7.3 7.4 7.3	6.8 6.9 6.8 6.8	7.1 7.1 7.0 7.1 7.0	7.2	6.7	===	7.4 7.4 7.4 7.3 7.4	6.9 6.9 6.9 7.0	7.1 7.1 7.1 7.0 7.2
6 7 8 9	7.1 7.0 6.9 6.9 7.0	6.7 6.6 6.6 6.7	6.9 6.8 6.8 6.8	7.3 7.1 7.3 7.2 7.1	6.7 6.7 6.6 6.7 6.6	7.0 6.9 6.9 6.9	7.0 7.1 6.9 7.1 7.1	6.6 6.6 6.6 6.7	6.8 6.8 6.8 6.8	7.5 7.5 7.2 7.3 7.3	7.1 7.1 7.0 7.0 7.0	7.3 7.3 7.1 7.1 7.1
11 12 13 14 15	7.0 6.9 6.8 7.1 7.2	6.6 6.5 6.5 6.6	6.8 6.7 6.6 6.7 6.9	7.1 7.3 7.3 7.4 7.4	6.7 6.8 6.9 6.9	6.9 7.0 7.1 7.1 7.2	7.2 7.1 7.2 7.3 7.3	6.7 6.7 6.7 6.9	6.9 6.9 6.9 7.1 7.1	7.4 7.3 7.2 7.5 7.5	7.0 7.0 6.9 7.0 7.1	7.2 7.1 7.1 7.2 7.3
16 17 18 19 20	7.2 7.2 7.2 7.1 7.1	6.6 6.7 6.7 6.7	6.9 7.0 7.0 6.9	7.3 7.4 7.3 7.4 7.4	6.9 6.9 6.9 6.9	7.1 7.1 7.1 7.1 7.1	7.4 7.3 7.4 7.5 7.5	6.9 6.9 7.0 7.1	7.1 7.0 7.1 7.2 7.3	7.6 7.5 7.5 7.3 7.3	7.1 7.1 7.1 7.0 7.0	7.3 7.3 7.3 7.2 7.1
21 22 23 24 25	7.1 7.0 7.1 7.1 7.1	6.7 6.7 6.7 6.7	6.9 6.8 6.9 6.9	7.3 7.3 7.3 7.2 7.2	6.9 6.9 6.9 6.9	7.1 7.1 7.0 7.0 7.0	7.5 7.5 7.5 7.4 7.4	7.1 7.1 7.1 7.1 7.1	7.3 7.3 7.3 7.2 7.3	7.3 7.2 7.3 7.2 7.3	6.9 6.9 6.9 7.0	7.1 7.0 7.1 7.1 7.1
26 27 28 29 30 31	7.2 7.3 7.3 7.2 7.3 7.3	6.8 6.8 6.8 6.8	6.9 7.0 7.0 7.0 7.0	7.3 7.1 7.1 	7.0 6.9 6.7	7.1 7.0 6.9	7.3 7.4 7.3 7.2 7.4 7.4	7.1 7.0 7.0 6.9 6.9	7.2 7.1 7.1 7.1 7.1 7.1	7.2 7.3 7.4 7.4 7.3 7.4	7.0 6.9 7.0 7.0 6.9 7.0	7.1 7.1 7.1 7.1 7.1 7.1
MONTH	7.3	6.5	6.9	7.4	6.6	7.0	7.5	6.6	7.1	7.6	6.9	7.2
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
DAI	MAA	FEBRUAR		MAX	MARCH		MAX	APRIL		MAX	MAY	MEAN
1	7.5	7.1	7.3	8.2	7.8	8.0				7.0	6.6	6.8
2 3 4 5	===			8.1 8.9 8.5	7.9 8.1 8.1	8.3	===	===	===	7.1 7.1 7.0 7.0	6.5 6.5 6.5	6.8 6.8 6.7 6.7
6 7 8 9		===	===	8.5 8.6 8.5 8.6	8.1 8.1 8.1 8.1	8.3 8.3 8.3 8.3	6.6	6.4	===	7.1 7.1 7.1 7.2 7.3	6.6 6.6 6.6 6.7	6.8 6.8 6.9 6.9
11 12 13 14 15	===	===		8.4 8.2 8.4 8.4 8.2	7.9 7.8 7.8 7.9 7.8	8.1 8.0 8.0 8.2 8.0	6.5 6.5 6.5 6.6	6.3 6.3 6.3 6.4	6.4 6.4 6.4 6.5	7.3 7.3 7.2 7.3 7.2	6.8 6.8 6.8 6.8	7.0 6.9 7.0 7.0
16 17 18 19 20	7.6 8.0	7.4 7.4	 7.7	8.2 8.3 7.9 8.1	7.8 7.8 7.5 7.5	7.9 7.7	6.5 6.5 6.5 6.5	6.4 6.3 6.4 6.4	6.5 6.4 6.4 6.4	7.3 7.3 7.3 7.2 7.2	6.9 6.9 7.0 6.9 6.9	7.1 7.1 7.1 7.1 7.0
21 22 23 24 25	8.0 8.0 8.0 8.0	7.7 7.7 7.7 7.7 7.6	7.8 7.8 7.8 7.8 7.8	8.1	7.6 	7.8 	6.4 7.0	6.4	6.4	7.2	7.0 	7.1
26 27 28 29 30 31	8.1 8.3 8.3 8.2	7.7 7.8 7.9 7.8	7.9 8.1 8.0 8.0	===	===	===	7.1 7.1 7.2 7.1 7.0	6.6 6.6 6.7 6.7	6.8 6.9 6.9	7.6 7.6 7.6 7.6	7.2 7.1 7.1 7.1	7.4 7.3 7.3 7.4 7.4
MONTH	8.3	7.1	7.8	8.9	7.5	8.1	7.2	6.3	6.6	7.6 7.6	7.2 6.5	7.0
11011111	0.5	1.1	1.0	0.9	1.5	0.1	1.5	0.5	0.0	1.0	0.5	1.0

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DELAWARE RIVER BASIN

01482800 DELAWARE RIVER AT REEDY ISLAND JETTY, DE --Continued
PH (STANDARD UNITS), WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN		
		JUNE			JULY			AUGUST			SEPTEMBER			
1 2 3 4 5	7.6 7.6 7.5 7.6 7.6	7.1 7.1 7.1 7.2 7.2	7.3 7.3 7.3 7.3 7.4	7.5 7.5 7.5 7.4 7.5	7.3 7.3 7.2 7.2 7.2	7.4 7.4 7.3 7.3 7.3	7.5 7.6 7.6 7.6 7.6	7.4 7.4 7.5 7.5	7.5 7.5 7.5 7.5 7.5	7.6 7.6 7.6 7.7 7.7	7.5 7.5 7.5 7.5 7.5	7.5 7.5 7.5 7.6 7.6		
6 7 8 9	7.6 7.6 7.7 7.7	7.2 7.3 7.2 7.2 7.2	7.4 7.4 7.4 7.5 7.4	7.5 7.5 7.5 7.6 7.5	7.2 7.3 7.3 7.3 7.3	7.3 7.4 7.4 7.4 7.4	7.6 7.6 7.7 7.7 7.7	7.5 7.4 7.4 7.4 7.5	7.5 7.5 7.5 7.5 7.6	7.8 7.7 7.9 7.8 7.7	7.5 7.5 7.6 7.6 7.5	7.6 7.6 7.7 7.7 7.6		
11 12 13 14 15	7.6 7.6 7.6 7.6 7.6	7.2 7.2 7.2 7.2 7.2	7.4 7.4 7.4 7.4 7.4	7.5 7.5 7.5 7.5 7.5	7.3 7.3 7.3 7.3 7.3	7 · 4 7 · 4 7 · 4 7 · 4 7 · 4	7.7 7.7 7.7 7.8 7.8	7.5 7.5 7.5 7.5 7.5	7.6 7.5 7.6 7.6 7.6	7.7 7.8 7.7 7.7 7.6	7.5 7.5 7.6 7.6 7.6	7.6 7.6 7.6 7.6 7.6		
16 17 18 19 20	7.5 7.5 7.5 7.5 7.5	7.2 7.2 7.3 7.3 7.4	7.3 7.3 7.4 7.4 7.4	7.5 	7.4	7·4 	7.7 7.8 7.8 7.7 7.8	7.5 7.5 7.5 7.5 7.5	7.6 7.7 7.6 7.6 7.6	7.6 7.5 7.5 7.5 7.5	7.4 7.4 7.4 7.4 7.4	7.5 7.5 7.4 7.4		
21 22 23 24 25	7.6 7.7 7.7 7.6 7.5	7.4 7.3 7.3 7.3 7.3	7.5 7.5 7.5 7.4 7.4	7.5 7.5 7.6 7.6 7.6	7.2 7.2 7.4 7.4 7.4	7.4 7.4 7.5 7.5	7.8 7.7 7.7 7.7 7.7	7.5 7.6 7.5 7.5	7.6 7.6 7.6 7.6 7.6	7.4 7.5 7.4 7.5 7.4	7.4 7.3 7.3 7.3 7.4	7.4 7.4 7.4 7.4 7.4		
26 27 28 29 30 31	7.6 7.5 7.5 7.5 7.5	7.3 7.3 7.2 7.3 7.3	7.4 7.4 7.4 7.4 7.4	7.6 7.6 7.6 7.6 7.6 7.5	7.4 7.4 7.5 7.5 7.4 7.4	7.5 7.5 7.5 7.5 7.5 7.5	7.7 7.6 7.6 7.6 7.6 7.6	7.5 7.5 7.5 7.4 7.5 7.5	7.6 7.5 7.5 7.5 7.5 7.5	7.4 7.4 7.5 7.5	7.3 7.3 7.3 7.4	7.4 7.4 7.4 7.4 7.5		
MONTH	7.7	7.1	7.4	7.6	7.2	7.4	7.8	7.4	7.6	7.9	7.3	7.5		
YEAR	8.9	6.3	7.3											

RESERVOIRS IN DELAWARE RIVER BASIN

01416900 PEPACTON RESERVOIR.--Lat 42°04'38", long 74°58'04", Delaware County, NY, Hydrologic Unit 02040102, near release chamber at Downsville Dam on East Branch Delaware River, and 1.6 mi (2.6 km) east of Downsville, NY. DRAINAGE AREA, 371 mi² (961 km²). PERIOD OF RECORD, September 1954 to current year. GAGE, water-stage recorder. Datum of gage is National Geodetic Vertical Datum of 1929 (levels by Board of Water Supply, City of New York).

New York).

Reservoir is formed by an earthfill rockfaced dam; storage began Sept. 15, 1954. Usable capacity
140,190 mil gal (530.6 hm³) between minimum operating level, elevation, 1,152.0 ft (351.13 m) and crest of
spillway, elevation, 1,280.0 ft (390.14 m). Capacity: at crest of spillway 149,700 mil gal (566.6 hm³); at
minimum operating level, 9,609 mil gal (36.37 hm³); at still of diversion tunnel, elevation, 1,143.0 ft
(348.39 m), 6,098 mil gal (23.08 hm³); in dead storage below release outlet, elevation, 1,126.50 ft (343.357 m),
1,898 mil gal (7.184 hm³). Figures given herein represent total contents. Reservoir impounds water for diversion through East Delaware Tunnel to Rondout Reservoir on Rondout Creek, in Hudson River basin (see Delaware River Basin, diversions), for water supply to City of New York; for release during periods of low flow in the lower Delaware River basin, as directed by the Delaware River Master; and for conservation release. No diversion prior to Jan. 6, 1955. Records furnished by Bureau of Water Resources Development and Department of in the lower Delaware River basin, as directed by the Delaware River Master; and for conservation release diversion prior to Jan. 6, 1955. Records furnished by Bureau of Water Resources Development and Departme Environmental Protection, City of New York.

EXTREMES FOR PERIOD OF RECORD: Maximum contents observed, 154,027 mil gal (583.0 hm³) Apr. 5, 1960, elevation, 1,282.27 ft (390.836 m); minimum observed (after first filling), 9,575 mil gal (36.24 hm³)

Dec. 26, 1964, elevation, 1,151.92 ft (351.105 m).

EXTREMES FOR CURRENT YEAR: Maximum contents observed, 151,374 mil gal (573.0 hm³) Apr. 13, elevation, 1,280.85 ft (390.403 m); minimum observed, 96,318 mil gal (364.6 hm³) Sept. 30, elevation, 1,247.35 ft (380.192 m).

01424997 CANNONSVILLE RESERVOIR.--Lat 42°03'46", long 75°22'29", Delaware County, NY, Hydrologic Unit 02040101, in emergency gate tower at Cannonsville Dam on West Branch Delaware River, and 1.8 mi (2.9 km) southeast of Stilesville, NY. DRAINAGE AREA, 454 mi² (1,176 km²). PERIOD OF RECORD, October 1963 to current year. REVISED RECORDS, WRD-NY 1972: 1966. GACE, water-stage recorder. Datum of gage is National Geodetic Vertical Datum of

RECORDS, WRD-NY 1972: 1966. GAGE, water-stage recorder. Datum of gage is National Geodetic Vertical Datum of 1929 (levels by Board of Water Supply, City of New York).

Reservoir is formed by an earthfill rockfaced dam; storage began Sept. 30, 1963, usable capacity 95,706 mil gal (362.2 hm³) between minimum operating level, elevation, 1,040.0 ft (316.99 m) and crest of spillway, elevation, 1,150.0 ft (350.52 m). Capacity, at crest of spillway, 98,618 mil gal (373.3 hm³); at minimum operating level, 2,912 mil gal (11.02 hm³); at mouth of inlet channel to diversion tunnel, elevation, 1,035.0 ft (315.47 m), 1,892 mil gal (7.161 hm³); in dead storage below release outlet elevation, 1,020.5 ft (311.05 m), 328 mil gal (1.241 hm³). Figures given herein represent total contents. Impounded water is diverted for New York City water supply via West Delaware Tunnel to Rondout Reservoir in Hudson River basin (see Delaware River Basin, diversion); is released in Delaware River for downstream low flow augmentation as directed by Delaware River Master: and is released for conservation flow in the Delaware River. No diversion prior to by Delaware River Master; and is released for conservation flow in the Delaware River. No diversion pri Jan. 29. 1964. Records furnished by Bureau of Water Resources Development, City of New York. EXTREMES FOR PERIOD OF RECORD: Maximum contents observed, 108,116 mil gal (409.2 hm³) Mar. 15, 1977, elevation, 1,155.85 ft (352.303 m); minimum observed (after first filling), 11,901 mil gal (45.05 hm³) No diversion prior to

Nov. 7, 1968, elevation, 1,066.24 ft (324.990 m).

EXTREMES FOR CURRENT YEAR: Maximum contents, 102,368 mil gal (387.5 hm³) Apr. 1, elevation, 1,152.33 ft (351.230 m); minimum, 41,356 mil gal (156.5 hm³) Sept. 30, elevation, 1,105.21 ft (336.868 m).

01428900 PROMPTON RESERVOIR.--Lat 41°35'18", long 75°19'39", Wayne County, PA, 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 Auken Creek. DRAINAGE AREA, 59.6 mi² (154 km²). PERIOD OF RECORD, December 1960 to current year. GAGE, water-stage recorder. Datum of gage is National Geodetic Vertical Datum of 1929 (levels by Corps of Engineers).

Reservoir formed by an earth and rockfill dam with ungaged bedrock spillway at elevation 1,205.00 ft (367.284 m); storage began July 1960. Capacity at elevation 1,205.00 ft (367.284 m) is 51,700 acre-ft (63.7 hm³). Ordinary minimum (conservation) pool elevation, 1,125.00 ft (342.900 m) capacity, 3,420 acre-ft (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 (346.984 m); minimum (after first filling), 2,920 acre-ft (3.60 hm³) Sept. 27, 1964, elevation,

1,138.40 It (342.351 m).
1,123.20 ft (342.351 m).
EXTREMES FOR CURRENT YEAR: Maximum contents, 4,770 acre-ft (5.88 hm³) Mar. 22, elevation, 1,129.48 ft (344.265 m); minimum, 3,450 acre-ft (4.25 hm³) Sept. 15, elevation, 1,125.10 ft (342.930 m).

01429400 GENERAL EDGAR JADWIN RESERVOIR .-- Lat 41°36'44", long 75°15,55", Wayne County, PA, 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 National Geodetic Vertical Datum of 1929 (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 (310.104 m); no storage many times.

EXTREMES FOR CURRENT YEAR: Maximum contents, 4,300 acre-ft (5.30 hm³) Mar. 23, elevation, 988.00 ft

(301.142 m); no storage many times.

01431700 LAKE WALLENPAUPACK.--Lat 41°27'35", long 75°11'10", Wayne County, PA, 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 National Geodetic Vertical Datum of 1929 (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 (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 (353.568 m), minimum pool. Reservoir is used for generation of hydrolelectric 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 (363.764 m); minimum (after first filling), 12,280 acre-ft (15.1 hm³) Mar. 28, 1958, elevation, 1,162.60 ft (354.360 m).

EXTREMES FOR CURRENT YEAR: Maximum contents, 137,080 acre-ft (169.0 hm³) Jun. 8, elevation, 1,186.40 ft (361.615 m); minimum, 69,600 acre-ft (85.8 hm³) Sept. 30, elevation, 1,174.00 ft (357.875 m).

RESERVOIR IN DELAWARE RIVER BASIN -- Continued

01433000 SWINGING BRIDGE RESERVOIR.--Lat 41°34'25", long 74°47'00", Sullivan County, NY, Hydrologic Unit 02040104, at dam on Mongaup River, and 1.8 mi (2.9 km) northwest of Fowlersville, NY. DRAINAGE AREA, 118 mi² (306 km²) excluding Cliff Lake, Lebanon Lake, and Toronto Reservoir. PERIOD OF RECORD, January 1930 to current year. REVISED RECORDS, WSP 1552: 1951-54. GAGE, water-stage recorder. Datum of gage is National Geodetic Vertical Datum of 1929 (levels by Orange and Rockland Utilities, Inc.). All capacity figures given herein are based on zero storage at minimum operating pool level, 1,010 ft (308 m).

Reservoir is formed by an earthfill dam; storage began Jan. 19, 1930. Usable capacity, 1,436.6 mil ft³ (40.7 hm³) between elevations 1,010.0 ft (307.85 m), minimum operating pool, and 1,071.2 ft (326.50 m), top of flashboards. Capacity below elevation 1,010.0 ft (307.85 m), minimum operating pool, about 212.7 mil ft³ (6.02 hm³). Reservoir is used for storage of water for power. Figures given herein represent contents above 1.010.0 ft (307.85 m), Water is received from Cliff Lake, Lebanon Lake, and Toronto Reservoir. Records

1,010.0 ft (307.85 m). Water is received from Cliff Lake, Lebanon Lake, and Toronto Reservoir. Records furnished by Orange and Rockland Utilities, Inc.

EXTREMES FOR PERIOD OF RECORD: Maximum contents, 1,461.6 mil ft³ (41.4 hm³) Mar. 14, 1977, elevation, 1,071.8 ft (326.68 m); minimum (after first filling), 141.4 mil ft³ (4.00 hm³) Dec. 2, 1938, elevation, 987.5 ft

EXTREMES FOR CURRENT YEAR: Maximum contents, 1,387 mil ft³ (39.3 hm³) Oct. 10, elevation, 1,070.0 ft (326.14 m); minimum, 1,014 mil ft³ (28.7 hm³) Sept. 30, elevation, 1,060.1 ft (323.12 m).

01433100 TORONTO RESERVOIR.--Lat 41°37'15", long 74°49'55", Sullivan County, NY, Hydrologic Unit 02040104, at don Black Lake Creek, and 2.5 mi (4.0 km) southeast of village of Black Lake, NY. DRAINAGE AREA, 23.2 mi² (60.1 km²). PERIOD OF RECORD, January 1926 to current year. REVISED RECORDS, WSP 1552: 1951-54. WSP 1702: 1959(M). Nonrecording gage. Datum of gage is National Geodetic Vertical Datum of 1929 (levels by Orange and Rockland Utilities, Inc.). All capacity figures given herein are based on zero storage at minimum operating pool level, 1,165.0 ft (355.09 m).

Reservoir is formed by an earthfill dam completed July 24, 1926; storage began Jan. 13, 1926. Usable capacity, 1,098.2 mil ft³ (31.1 hm³) between elevations 1,165.0 ft (355.09 m), minimum operating pool, and operating pool, about 26.8 mil ft³ (0.759 hm³). Reservoir is used for storage of water for power. Figures given herein represent contents above 1,165.0 ft (355.09 m). Records furnished by Orange and Rockland Utilities. Inc.

Utilities. Inc.

Utilities, Inc.

EXTREMES FOR PERIOD OF RECORD: Maximum contents observed, 1,171.2 mil ft³ (33.2 hm³) July 20, 1945, elevation, 1,222.0 ft (372.47 m). minimum observed (after first filling), -26.8 mil ft³ (0.759 hm³) Nov. 15, 1928, elevation, 1,144.5 ft (348.84 m).

EXTREMES FOR CURRENT YEAR: Maximum contents observed, 753 mil ft³ (21.3 hm³) June 9, elevation, 1,209.0 ft (368.50 m); minimum observed, 49.2 mil ft³ (1.39 hm³) Aug. 29, elevation, 1,173.1 ft (357.56 m).

01433200 CLIFF LAKE.--Lat 41°35'00", long 74°47'40", Sullivan County, NY, Hydrologic Unit 02040104, at dam on Black Lake Creek, and 2.5 mi (4.0 km) northwest of Fowlersville, NY. DRAINAGE AREA, 6.46 mi² (16.7 km²) excluding area above Toronto Reservoir. PERIOD OF RECORD, January 1939 to current year. REVISED RECORDS, WSP 1552: 1951-54. WRD-NY 1975: 1974(m). Nonrecording gage. Datum of gage is National Geodetic Vertical Datum of 1929 (levels by Orange and Rockland Utilities, Inc.). All capacity figures given herein are based on zero storage at minimum operating pool level, 1,043.3 ft (318.0 m).

Reservoir is formed by a concrete gravity-type dam; storage began Jan. 6, 1939. Usable capacity, 136.06 mil ft³ (3.85 hm³) between elevations 1,043.3 ft (318.00 m), minimum operating pool, and 1,072.0 ft (326.75 m), top of permanent flashboards. Capacity below elevation 1,043.3 ft (318.00 m), minimum operating pool, about 6.54 mil ft³ (0.185 hm³). Reservoir is used for storage of water for power. Water is received from Toronto and Lebanon Lake reservoirs and is discharged through a tunnel into Swinging Bridge Reservoir. Figures given herein represent contents above 1,043.3 ft (318.00 m). Records furnished by Orange and Rockland Utilities. Inc.

Utilities, Inc.
EXTREMES FOR PERIOD OF RECORD: Maximum contents observed, 145.44 mil ft³ (4.12 hm³) July 30, 31, 1945, elevation, 1,073.1 ft (327.08 m); minimum observed (after first filling), about 6.54 mil ft³ (0.185 hm³) Mar. 16, 1963, elevation, 1,038.0 ft (316.38 m).
EXTREMES FOR CURRENT YEAR: Maximum contents observed, 131.1 mil ft³ (3.71 hm³) Oct. 15, elevation, 1,071.4 ft (326.56 m); minimum observed, 54.0 mil ft³ (1.53 hm³) Sept. 26, elevation, 1,060.0 ft (323.09 m).

01435900 NEVERSINK RESERVOIR.--Lat 41°49'40", long 74°38'21", Sullivan County, NY, Hydrologic Unit 02040104, at a gate-house at Neversink Dam on Neversink River, and 2 mi (3 km) southwest of Neversink, NY. DRAINAGE AREA, 91.8 mi² (238 km²). PERIOD OF RECORD, June 1953 to current year. GAGE, nonrecording gage read daily at 0900. Datum of gage is National Geodetic Vertical Datum of 1929 (levels by Board of Water Supply, City of New York). Reservoir is formed by an earthfill rockfaced dam; storage began June 2, 1953. Usable capacity 34,941 mil gal (132.25 hm³) between minimum operating level, elevation, 1,319.0 ft (402 m) and crest of spillway, elevation, 1,440.0 ft (438.9 m). Capacity at crest of spillway, 37,146 mil gal (140.6 hm³); at minimum operating level, 2,205 mil gal (8.35 hm³); dead storage below diversion sill and outlet sill at elevation 1,314.0 ft (400.5 m), 1,680 mil gal (6.36 hm³). Figures given herein represent total contents. Reservoir impounds water for diversion through Neversink-Grahamsville Tunnel to Rondout Reservoir on Rondout Creek, in Hudson River basin, for water supply of City of New York (see Delaware River Basin, diversions); for release during periods of low flow in the lower Delaware River basin, as directed by the Delaware River Master; and for Hudson River basin, for water supply of City of New York (see Delaware River Basin, diversions); for release during periods of low flow in the lower Delaware River basin, as directed by the Delaware River Master; and for conservation release. No diversion prior to Dec. 3, 1953. Records furnished by Bureau of Water Resources Development and Department of Environmental Protection, City of New York.

EXTREMES FOR PERIOD OF RECORD: Maximum contents observed, 37,978 mil gal (143.7 hm³) Apr. 25, 1961, elevation, 1,441.67 ft (439.421 m); minimum observed (after first filling), 1,985 mil gal (7.513 hm³) Nov. 25, 1964, elevation, 1,316.98 ft (401.415 m).

EXTREMES FOR CURRENT YEAR: Maximum contents observed, 37,295 mil gal (141.2 hm³) Apr. 16, elevation, 1,440.30 ft (439.003 m); minimum observed, 15,411 mil gal (58.3 hm³) Sept. 30, elevation, 1,384.78 ft (420.081 m).

(422.081 m).

01447780 FRANCIS E. WALTER RESERVOIR (formerly published as Bear Creek Reservoir).--Lat 41°06'45", long 75°43'15", Luzerne County, PA, 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 National Geodetic Vertical Datum of 1929 (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 bergin represent total contents. Flow requisted by three gates and law flow hyperses system. Records furnished herein represent total contents. Flow regulated by three gates and low flow by-pass system. Records furnished by Corps of Engineers.

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 (426.171 m); minimum (after establishment of conservation pool), 1,220 acre-ft (1.50 hm³)

Sept. 17, 1980, elevation, 1,291.33 ft (393.597 m).

EXTREMES FOR CURRENT YEAR: Maximum contents, 18,940 acre-ft (23.4 hm³) Mar. 23, elevation, 1,365.58 ft (416.229 m); minimum, 1,220 acre-ft (1.50 hm³) Sept. 17, elevation, 1,291.33 ft (393.597 m).

RESERVOIRS IN DELAWARE RIVER BASIN -- Continued

01449400 PENN FOREST RESERVOIR.--Lat 40°55'45", long 75°33'45", Carbon County, PA, 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 National Geodetic Vertical Datum of 1929 (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.

EXTREMES FOR PERIOD OF RECORD: Maximum contents, 20,520 acre-ft (25.3 hm³) Mar. 28, 1978, elevation, 1,000.92 ft (305.080 m); minimum, 176 acre-ft (0.217 hm³) Oct. 6, 1965, elevation, 902.40 ft (275.052 m).

EXTREMES FOR CURRENT YEAR: Maximum contents, 20,420 acre-ft (25.2 hm³) Apr. 29, elevation, 1,000.49 ft (304.949 m); minimum, 10,910 acre-ft (13.4 hm³) Sept. 30, elevation, 976.15 ft (297.713 m).

01449700 WILD CREEK RESERVOIR.--Lat 40°53'50", long 75°33'50", Carbon County, PA, 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 National Geodetic Vertical Datum of 1929 (levels by city of

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. EXTREMES FOR PERIOD OF RECORD: Maximum contents, 12,880 acre-ft (15.9 hm³) May 23, 1942, elevation, 822.93 ft (250.829 m); minimum (after first filling), 2,680 acre-ft (3.30 hm³) Nov. 15, 1966, elevation, 774.10 ft (235.946 m).

EXTREMES FOR CURRENT YEAR: Maximum contents, 12,130 acre-ft (15.0 hm³) Apr. 29, elevation, 820.44 ft (250.070 m); minimum, 8,610 acre-ft (10.6 hm³) Jun. 26, elevation, 806.92 ft (245.949 m).

01449790 BELTZVILLE LAKE.--Lat 40°50'56", long 75°38'19", Carbon County, PA, 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 National Geodetic Vertical RECORD, February 1971 to current year. GAGE, Datum of 1929 (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 (191.414 m), capacity, 41,250 acre-ft (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 (193.944 m); minimum, 28,800 acre-ft (35.5 hm³) Sept. 30, 1980, elevation, 612.86 ft (186.800 m). EXTREMES FOR CURRENT YEAR: Maximum contents 45,640 acre-ft (56.3 hm³) Mar. 24, elevation, 632.44 ft (192.768 m); minimum, 28,800 acre-ft (35.5 hm³) Sept. 30, elevation, 612.86 ft (186.800 m).

01455400 LAKE HOPATCONG.--Lat 40°55'00", long 74°39'50", Morris County, Hydrologic Unit 02040105, in gatehouse of Lake Hopatcong Dam on Musconetcong River at Landing. DRAINAGE AREA, 25.6 mi² (66.3 km²). PERIOD OF RECORD, February 1887 to current year. Monthend contents only prior to October 1950, published in WSP 1302. GAGE,

February 1887 to current year. Monthend contents only prior to October 1950, published in WSP 1302. GAGE, water-stage recorder. Prior to June 24, 1928, daily readings obtained by measuring from high-water mark to water surface converted to gage height, present datum. Datum of gage is 914.57 ft (278.761 m).

Lake is formed by concrete spillway and earthfill dam completed about 1828. Crest of spillway was lowered 0.11 ft (0.034 m) in 1925. Usable capacity, 7,459,000,000 gal (28.23 hm³) between (gage height -2.6 ft or -0.792 m, sills of gates and 9.00 ft or 2.743 m, crest of spillway). Flow regulated by four gates (3 by 5 ft or 0.914 by 1.524 m), also by one 24-inch (0.610 m) pipe with gate valve to recreation fountain 250 ft (76.2 m) downstream from dam. Dead storage, about 8,117,000,000 gal (30.72 hm³). Figures given herein represent usable capacity. Lake used for recreation.

EXTREMES FOR PERIOD OF RECORD: Maximum contents, 8,532,000,000 gal (32.29 hm³) June 24, 1972, gage height, 10.27 ft (3.130 m); minimum, 1,525,000,000 gal (5.77 hm³) Dec. 29, 1960, gage height, 0.65 ft (0.198 m).

EXTREMES FOR CURRENT YEAR: Maximum contents, 8,194,000,000 gal (31.01 hm³) Apr. 10, gage height, 9.87 ft (3.008 m); minimum contents, 5,381,000,000 gal (20.37 hm³) Feb. 12, 15, 16, gage height, 6.42 ft (1.957 m).

01469200 STILL CREEK RESERVOIR.--Lat 40°51'25", long 75°59'30". Schuylkill County, PA, Hydrologic Unit 02040106, 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 National Geodetic Vertical Datum of 1929 (levels by Panther Valley Water Co.).

Reservoir formed by earth fill 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 (360.554 m). but may have been greater during 1950 and 1951 water years: minimum (after initial)

1,182.92 ft (360.554 m), but may have been greater during 1950 and 1951 water years; minimum (after initial filling), 588 acre-ft (0.725 hm³) Dec. 8, 1944, elevation, 1,136.70 ft (346.466 m).

EXTREMES FOR CURRENT YEAR: Maximum contents, 8,408.80 acre-ft (10.4 hm³) Oct. 7, 8, elevation, 1,182.40 ft (360.396 m); minimum, 7,095.6 acre-ft (8.75 hm²) Sept. 30, elevation, 1,177.80 ft (358.993 m).

01470870 BLUE MARSH LAKE.--Lat 40°22'45", long 76°01'59", Berks County, Hydrologic Unit 02040203, at dam on 470870 BLUE MARSH LAKE.--Lat 40°22'45", long 76°01'59", Berks County, Hydrologic Unit 02040203, at dam on Tulpehocken Creek, 0.8 mi (1.3 km) upstream from gaging station on Tulpehocken Creek, 1.0 mi (1.6 km) northeast of Blue Marsh, 1.9 mi (3.1 km) upstream from Reber's Bridge, and 5.1 mi (8.2 km) southeast of Bernville. DRAINAGE AREA, 175 mi² (453 km²). PERIOD OF RECORD, April 1979 to current year. GAGE, water-stage recorder. Datum of gage is National Geodetic Vertical Datum of 1929 (levels by Corps of Engineers). Reservior formed by earthfill dam, with concrete ungated spiilway at elevation 307.00 ft (93.574 m). Storage began April 23, 1979. Capacity at elevation, 307.00 ft (93.574 m) is 50,000 acre-ft (61.6 hm²). Dead storage is 3,000 acre-ft (3.70 hm³). Reservoir is used for flood control, water supply, and recreation. Figures herein represent total contents. Records furnished by Corps of Engineers.

EXTREMES FOR CURRENT YEAR: Maximum contents, 26,250 acre-ft (32.4 hm³) Oct. 4, elevation, 292.78 ft (89.239 m); minimum, 16,760 acre-ft (20.7 m³) Nov. 1, elevation, 284.09 ft (86.591 m).

RESERVOIRS IN DELAWARE RIVER BASIN -- Continued

01472200 GREEN LANE RESERVOIR.--Lat 40°20'30", long 75°28'45", Montgomery County, PA, 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 National Geodetic Vertical Datum of 1929 (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 (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 (88.407 m); minimum (after first filling), 1,270 acre-ft (1.57 hm³) Aug. 25, 1957, elevation,

EXTREMES FOR CURRENT YEAR: Maximum contents, 14,380 acre-ft (17.7 hm³) Sept. 5, elevation, 287.07 ft (87.499 m); minimum, 6,840 acre-ft (8.43 hm³) Sept. 30, elevation, 275.38 ft (83.936 m).

MONTHEND ELEVATION AND CONTENTS, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

Date	Elevation (feet)	Contents (million gallons)	(equivalent	Elevation (feet)		(equivalent	Elevation (feet)		Change in contents (equivalent in ft3/s)
	01416900 Pt	EPACTON RES	SERVOIR ‡	01424997 CANI	NONSVILLE	RESERVIOR ‡	01428900 PI	ROMPTON RES	SERVOIR +
Sept. 30 Oct. 31 Nov. 30 Dec. 31	1,255.70 1,257.40 1,264.40 1,262.10	108,714 111,351 122,584 118,827	+132 +579 -188	1,128.62 1,136.00 1,151.04 1,149.61	68,498 78,260 100,291 98,025	+487 +1,140 -113	1,125.57 1,125.43 1,126.83 1,125.75	3,580 3,540 3,930 6,630	-0.7 +6.6 -4.9
CAL YR 197	9 -	-	+98.0	-	-	+201	100-201	-	-1,1
Jan. 31 Feb. 29 Mar. 31 Apr. 30 May 31 June 30 July 31 Aug. 31 Sept. 30	1,263.58 1,261.30 1,275.08 1,280.49 1,277.24 1,271.63 1,265.40 1,257.57 1,246.95	121,237 117,536 140,882 150,706 144,758 134,819 124,237 111,616 95,746	+120 -197 +1,170 +507 -297 -513 -528 -630 -819	1,145.03 1,132.84 1,152.33 1,151.57 1,146.90 1,136.42 1,129.03 1,117.31 1,104.32	91,058 74,018 102,368 101,145 93,902 78,841 69,096 54,645 40,461	-348 -909 +1,420 -63.1 -362 -777 -486 -721 -732	1,125.42 1,125.34 1,128.25 1,127.11 1,125.58 1,125.45 1,125.32 1,125.30 1,125.12	3,540 3,510 4,380 4,010 3,580 3,550 3,510 3,500 3,450	-1.5 5 +14.1 -6.2 -7.0 5 6 2 8
WTR YR 198	30 -	-	-54.8	-	-	-119	-	-	2
Date	Elevation (feet)	Contents (acre- feet)	Change in contents (equivalent in ft3/s)	Elevation (feet)	Contents (acre- feet)	Change in contents (equivalent in ft ³ /s)	Elevation (feet)	Contents (million cu ft)	Change in contents (equivalent in ft3/s)
01429400	GENERAL EDG	AR JADWIN I	RESERVOIR †	01431700 L	AKE WALLEN	PAUPACK +	01433000 SWING	GING BRDIGE	RESERVOIR +
Sept. 30 Oct. 31 Nov. 30 Dec. 31	974.98 975.92 980.60 976.55	0 0 68 0	0 +1.1 -1.1	1,178.90 1,177.90 1,182.90 1,181.80	95,660 90,260 117,450 111,400	-87.8 +457.0 +98.4	1,065.0 1,066.3 1,068.7 1,066.0	1,191 1,241 1,335 1,229	+18.5 +36.3 -39.5
CAL YR 197	9 -	-	0	-	-	. +27.0	2.1	-	-3.6
Jan. 31 Feb. 29 Mar. 31 Apr. 30 May 31 June 30 July 31 Aug. 31 Sept. 30	975.20 975.10 980.85 979.94 975.10 975.90 974.44 974.37 974.24	0 0 76 48 0 0 0	0 0 +1.2 5 8 0	1,179.10 1,177.50 1,184.30 1,185.40 1,186.10 1,184.90 1,182.00 1,178.80 1,174.00	96,740 88,100 125,280 131,440 135,370 128,640 112,500 95,120 69,600	-238.4 -150.2 +604.6 +103.5 +63.9 -113.0 -262.5 -282.6 -428.9	1,064.6 1,065.3 1,066.9 1,067.6 1,066.1 1,065.1 1,063.0 1,067.1 1,060.1	1,176 1,203 1,264 1,291 1,233 1,195 1,117 1,272 1,014	-19.8 +10.5 +22.9 +10.6 -21.7 -14.7 -29.1 +57.8 -99.5
WTR YR 198		-	0	_	_	-35.9	-	-	-5.6

MONTHEND ELEVATION AND CONTENTS, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

Date	Elevation (feet)	Contents (million cu ft)	Change in contents (equivalent in ft3/s)	Elevation (feet)	Contents (million cu ft)	Change in contents (equivalent in ft3/s)	Elevation (feet)	Contents (million cu ft)	Change in contents (equivalent in ft3/s)
		TORONTO RES			7.0	RESERVOIR +	01435900	NEVERSINK	
Sept. 30 Oct. 31 Nov. 30 Dec. 31	1,178.7 1,179.2 1,184.4 1,186.2	115 122 202 231	+2.6 +30.8 +11.1	1,065.0 1,070.4 1,069.7 1,065.8	83.7 123 118 110	+14.6 -1.9 -2.9	1,408.12 1,415.59 1,422.36 1,420.15	23,306 26,228 29,039 28,105	+146 +145 -46.6
CAL YR 197	9 -	4	-1.7	-	-	+.3	-	-	+43.2
Jan. 31 Feb. 29 Mar. 31 Apr. 30 May 31 June 30 July 31 Aug. 31 Sept. 30	1,181.1 1,188.9 1,198.0 1,206.2 1,208.7 1,202.5 1,192.0 1,173.1 1,173.2	150 278 468 676 945 579 337 49	-30.6 +51.4 +70.8 +80.4 +100 -141 -90.5 -108	1,064.6 1,065.2 1,067.6 1,067.4 1,066.1 1,066.0 1,067.2 1,060.1	81.9 85.0 102 100 91.0 100 90.3 98.6 54.0	-3.6 +3.1	1,414.00 1,407.65 1,432.94 1,437.23 1,434.02 1,426.26 1,414.43 1,397.27 1,384.38	25,590 23,128 33,755 35,791 34,261 30,726 25,762 19,397 15,292	-126 -131 +530 +105 -76.4 -182 -248 -318 -212
WTR YR 198	0 -	_	-2.0	-	-	9	-	-	-33.9
Date	Elevation (feet)	Contents (acre- feet)	Change in contents (equivalent in ft3/s)	Elevation (feet)	Contents (acre- feet)		Elevation (feet)	Contents (acre- feet)	Change in contents (equivalent in ft3/s)
0	1447780 FR	ANCIS E. WAI	LTER LAKE ‡	01449400	PENN FOREST	RESERVOIR †	01449700	WILD CREEK	RESERVOIR +
Sept. 30 Oct. 31 Nov. 30 Dec. 31	1,304.96 1,299.70 1,298.82 1,302.11	2,510 1,970 1,870 2,210	-8.8 -1.7 +5.5	983.09 982.53 988.17 990.15	13,050 12,850 14,940 15,700	-32.5 +35.1 +12.4	819.50 820.29 818.71 819.12	11,900 12,090 11,720 11,820	+3.1 -6.2 +1.6
CAL YR 197	9 -	-	+.3	-:	-	+.8	-	-	+.3
Jan. 31 Feb. 29 Mar. 31 Apr. 30 May 31 June 30 July 31 Aug. 31 Sept. 30	1,300.00 1,300.60 1,304.80 1,300.20 1,299.73 1,301.47 1,298.74 1,296.41 1,292.83	2,000 2,060 2,490 2,020 1,970 2,150 1,860 1,630 1,320	-3.4 +1.0 +7.0 -7.9 8 +3.0 -4.7 -3.7 -5.2	990.46 987.52 992.59 1,000.41 1,000.15 99.02 990.59 983.05 976.75	15,830 14,690 16,720 20,220 20,070 19,540 15,890 13,030 10,910	+2.1 -19.8 +33.0 +58.8 -2.4 -8.9 -59.4 -46.5 -35.6	818.05 818.72 819.84 820.40 815.57 807.77 815.32 817.96 817.86	11,540 11,730 11,760 12,120 10,860 8,800 10,790 11,520 11,490	-4.6 +3.3 +6.1 -20.5 -34.6 +32.4 +11.9
WTR YR 198	0 -	-	-1.6	-	-	-3.0	-	-	6
Date	Elevation (feet)	Contents (acre- feet)	Change in contents (equivalent in ft ³ /s)	Gage Height (feet)	Contents (million gallons)	Change in contents (equivalent in ft ³ /s)	Elevation (feet)	Contents (acre- feet)	Change in contents (equivalent in ft3/s)
	01449790 B	ELTZVILLE L	KE +	01455400	LAKE HOPATO	CONG +	01469200	STILL CREEK	RESERVOIR +
Sept. 30 Oct. 31 Nov. 30 Dec. 31	628.12 627.80 628.67 628.35	41,360 41,060 41,890 41,580	-4.9 +13.9 -5.0	9.31 9.17 7.24 6.54	7,719 7,602 6,025 5,474	-5.8 -81.3 -27.5	1,181.40 1,182.02 1,182.10 1,182.07	8,110 8,290 8,320 8,310	+2.9 +.5 2
CAL YR 197	9 -	-	+3.3	-	-	+.1	-	-	+1.9
Jan. 31 Feb. 29 Mar. 31 Apr. 30 May 31 June 30 July 31 Aug. 31 Sept. 30	627.49 627.33 628.30 628.68 627.95 627.46 626.90 622.90 612.86	40,770 40,610 41,540 41,900 41,200 40,740 40,200 36,610 28,800	-13.2 -2.8 +15.1 +6.1 -11.4 -7.7 -8.8 -58.4 -131	6.50 6.53 9.51 9.76 9.17 8.95 8.64 8.17	5,443 5,466 7,888 8,100 7,602 7,418 7,161 6,775 6,369	-1.5 +1.2 +12.1 +10.9 -24.9 -9.5 -12.8 -19.3 -20.9	1,181.90 1,181.70 1,182.15 1,182.55 1,182.00 1,181.50 1,180.20 1,178.90 1,177.80	8,260 8,200 8,330 8,330 8,290 8,140 7,760 7,400 7,100	8 -1.0 +2.1 0 7 -2.5 -6.2 -5.9
WTR YR 198	0 -	-	-17.3	12	19-1	-5.7	-	-	-1.4

RESERVOIRS IN DELAWARE RIVER BASIN--Continued

MONTHEND ELEVATION AND CONTENTS, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

O1470870 BLUE MARSH LAKE † 01470870 BLUE MARSH LAKE † 01472200 GREEN LANE RESERVOIR FOR PERIOD APRIL TO SEPTEMBER 1979 Sept. 30 Oct. 31 Nov. 30 Dec. 31 CAL YR 1978 1979 1979 285.00 285.37 17,990 +19.8 286.00 13,430 -1.0 285.37 17,990 +19.8 286.07 13,490 +1.0 285.44 18,060 +1.1 286.00 13,430 -1.0 CAL YR 1978 1979 - +24.9 2 Jan. 31 Feb. 29 Abr. 30 285.57 18,180 49.6 286.37 13,760 47.0 Abr. 30 242.00 73 +1.2 290.26 289.81 285.57 18,180 49.6 286.37 13,760 47.0 Abr. 30 285.57 18,180 49.6 286.00 13,430 -1.0 -1	Date	Elevation (feet)	Contents (acre- feet)	Change in contents (equivalent in ft ³ /s)		Contents (acre- feet)	Change in contents (equivalent in ft ³ /s)	Elevation (feet)	Contents (area- feet)	Change in contents (equivalent in ft ³ /s)
Sept. 30 289.81 22,680 - 286.00 13,430 - Oct. 31 284.14 16,810 -95.5 286.00 13,430 - Nov. 30 285.37 17,990 +19.8 286.07 13,430 +1.0 Dec. 31 285.44 18,060 +1.1 286.00 13,430 -1.0 CAL YR 1978 1979 - - +24.9 - - -2 Jan. 31 285.00 17,620 -7.2 285.88 13,330 -1.6 Feb. 29 284.97 17,590 5 285.88 13,330 0 Mar. 31 285.57 18,180 +9.6 286.37 13,760 +7.0 Apr. 30 242.00 73 +1.2 290.26 23,200 +84.4 286.21 13,620 -2.4 May 31 273.62 8,802 +142 289.87 22,750 -7.3 286.00 13,430 -3.1 Juley 30 283.22 15,966 +120 289.99 22,890 +2.4 285.40 12,900 -8.	F(O BLUE MA	RSH LAKE †	01472200	GREEN LANE	RESERVOIR 1
Jan. 31 283.58 16,294 +5.3 289.60 22,450 -7.2 285.88 13,330 -1.6 284.72 17,358 +17.3 288.63 21,360 -7.2 285.88 13,330 -1.6 284.97 17,620 -5.5 285.88 13,330 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	Sept. 30 Oct. 31 Nov. 30				289.81 284.14 285.37	17,990	+19.8	286.00 286.07	13,430	+1.0
Feb. 29	CAL YR 1978	3		1	979 -		+24.9	4_1		2
	Feb. 29 Mar. 31 Apr. 30 May 31 June 30 July 31 Aug. 31	273.62 283.22 283.58 284.72	8,802 15,966 16,294 17,358	+142 +120 +5.3 +17.3	284.97 285.57 290.26 289.87 289.99 289.60 288.63	17,590 18,180 23,200 22,750 22,890 22,450 21,360	5 +9.6 +84.4 -7.3 +2.4 -7.2 -17.7	285.88 286.37 286.21 286.00 285.40 283.90 279.50	13,330 13,760 13,620 13,430 12,900 11,680 8,900	0 +7.0 -2.4 -3.1 -8.9 -19.8 -45.2

Elevation at 0900 hours on first day of following month.
 Elevation or gage height at 2400 hours.
 Observed.
 Estimated.
 Elevation at 0900 hours.

DIVERSIONS AND WITHDRAWALS

WITHDRAWALS FROM THE DELAWARE RIVER BASIN

- 01415200 Diversion from Pepacton Reservoir, NY, on East Branch Delaware River to Rondout Reservoir on Rondout Creek, in Hudson River basin, for municipal supply of city of New York. No diversion prior to Jan. 6, 1955. Records furnished by Board of Water Supply and Department of Water Resources, city of New York. REVISIONS (Water Years).--WRD-NY 1972: 1970.
- 01423900 Diversion from Cannonsville Reservoir, NY, on West Branch Delaware River to Rondout Reservoir on Rondout Creek, in Hudson River basin, for municipal supply of city of New York. No diversion prior to Jan. 29, 1964. Records furnished by Board of Water Supply, city of New York.
- 01435800 Diversion from Neversink Reservoir, NY, on Neversink River to Rondout Reservoir on Rondout Creek, in Hudson River basin, for municipal supply of city of New York. No diversion prior to Dec. 3, 1953. Records furnished by Board of Water Supply and Department of Water Resources, city of New York.
- 01436520 Village of Woodridge, NY, diverts water from East Pond Reservoir, tributary to Neversink River, for municipal supply outside of basin. Records furnished by village of Woodridge.
- 01437360 Diversion from Bear Swamp Reservoir, NY, tributary to Neversink River, by the New York State Training School, Otisville, NY, for water supply outside of basin. Records furnished by Delaware River Basin Commission.
- 01447750 Diversion from Bear Creek, PA, tributary to Lehigh River, by Bear Creek Gas and Water Company for water supply outside of basin. Records furnished by Delaware River Basin Commission.
- 0144830 Diversion from Hazle Creek Watershed by Hazelton Joint Sewerage Authority for municipal water supply. Waste effluent from the municipal water system is released to the Susquehanna River. Records furnished by Delaware River Basin Commission.
- 01460500 Diversion by Delaware and Raritan Canal from Delaware River at Raven Rock, for municipal and industrial use. Water is discharged into the Raritan River at New Brunswick. Records of discharge are collected on the Delaware and Raritan Canal at Kingston, (see station 01460500).

WITHDRAWALS BY CITY OF NEW YORK DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

Month	PEPACTON RESERVOIR 01415200	CANNONSVILLE RESERVOIR 01423900	NEVERSINK RESERVOIR 01435800
October	703	377	232
November	697 699	183 347	220 214
CAL YR 1979	650	201	262
January	140	596	207
February	269	580	147
March	621	295	73.0
April	339	0	436
May	690	40.3	207
June	697	293	230
July	697	128	272
August	697	0.45	307
September	699	93.4	185
WTR YR 1980	580	244	228

MISCELLANEOUS WITHDRAWALS FROM BASIN

	EAST POND RESERVOIR 01436520	BEAR SWAMP RESERVOIR *01437360	BEAR CREEK 01447750	HAZLE CREEK 01448830	DELAWARE & RARITAN CANAL 01460500
October	.5 .5		0	3.0	91.9
November	.5		0	3.9	99.3
December	.5		0	3.6	108
CAL YR 1979	.5		2.5	3.9	94.7
January	.5		0	3.9	117
February	.5		0	3.9	109
March	.5		3.8	3.9	124
April	.5 .5		8.8	3.4	122
May	.5		0	3.9	113
June	.5		0	4.0	80.9
July	.5		0	3.9	67.2
August	.5		0	3.9	68.7
September	.5		0	3.1	71.6
WTR YR 1980	.5		1.0	3.7	97.8

^{*} Data not available this year but, from past records, withdrawal is approximately 0.5 ft^3/s (0.014 m^3/s).

DIVERSIONS AND WITHDRAWALS--Continued

DIVERSIONS WITHIN THE DELAWARE RIVER BASIN

- 01463480 Diversion from the Delaware River at the Morrisville Filtration Plant for municipal supply, by the Borough of Morrisville, PA. The water withdrawn at this site is returned to the basin after treatment, only slightly diminished by consumptive uses and losses in transmission. Records furnished by the Borough of Morrisville, PA.
- 01463490 Diversion from the Delaware River just above the Trenton gaging station for municipal supply by the city of Trenton, NJ. The water being withdrawn is returned to the basin after treatment only slightly diminished by consumptive uses and losses in transmission. Records furnished by the City of Trenton.

 CORRECTION.--The station number for the diversion by the City of Trenton has been changed to 01463490 to prevent confusion with the gaging station.
- 01467030 Diversion from the Delaware River at the Torresdale Intake for municipal supply, by the City of Philadelphia, PA. The water being withdrawn at this intake is returned to the basin after treatment only slightly diminished by consumptive uses and losses in transmission. Records furnished by the Delaware River Basin Commission.
- 01474500 Diversion from the Schuylkill River at the Belmont and Queen Lanes Intakes for municipal supply, by the City of Philadelphia, PA. The water being withdrawn at these intakes is returned after treatment within the Delaware River basin only slightly diminished by consumptive uses and losses in transmission. Records furnished by the Delaware River Basin Commission.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

	WITHDRAWAL BOROUGH OF MORRISVILLE 01463480	WITHDRAWAL CITY OF TRENTON 01463490	WIT CI PHIL		
Month			DELAWARE RIVER TORRESDALE 01467030	BELMONT	CILL RIVER QUEEN LANE 74500
October	6.74 6.98 5.89	46.3 44.4 46.0	319 321 316	98.9 97.8 99.3	152 139 151
CAL YR 1979	6.60	48.9	340	104	155
January. February. March. April. May. June. July. August. September.	5.55 5.99 6.32 6.19 6.77 6.67 6.85 6.82 6.92	45.5 47.9 48.6 48.6 54.3 57.5 56.1 53.6	325 251 329 319 331 376 401 404 366	98.7 87.7 90.5 99.0 99.5 108 119 117	152 163 157 149 150 164 186 177
WTR YR 1980	6.47	49.6	338	102	158

DIVERSIONS IMPORTED INTO BASIN

- 01367630 Water diverted from Morris Lake, tributary to the Wallkill River (Hudson River basin), by the Newton Water and Sewer Authority for municipal use. After use the water is released into the Paulins Kill (Delaware River basin). Records furnished by the Delaware River Basin Commission.
- 01578420 Water diverted from West Branch Octoraro Creek (Susquehanna River basin) at the McCray Plant of the Octoraro Water Co., for municipal use. After use the water is released into the Delaware River basin. Records furnished by the Delaware River Basin Commission.
- 01578450 Water diverted from Octoraro Lake (Susquehanna River basin) by Chester Water Authority for municipal use. After use the water is released into the Delaware River basin. Records furnished by the Delaware River Basin Commission.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

Month	MORRIS LAKE 01367630	ост	OCTORARO CREEK			
	F. 1	OCTORARO WATER CO. 01578420	CHEST	ER WATER AU 01578450	UTHORITY	
October	1.4 1.4 1.5	2.1 2.6 2.7	46.1 42.9 43.3		a45.7 a45.8 a45.0	
CAL YR 1979	1.4	2.3	44.6	1978	a45.4	
January. February. March April May. June July. August September	1.4 1.4 1.4 1.4 1.5 1.5	2.8 2.3 2.2 2.3 2.0 2.4 2.4 2.4	43.7 47.3 46.7 41.4 43.0 47.2 48.0 52.3		a44.7 a45.8 a45.0 a43.8 a44.0 a45.0 a45.0	
WTR YR 1980	1.4	2.4	45.5	1979	a44.9	

a Corrected figures of diversion by Chester Water Authority superseding those published in WDR NJ-79-2.

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 New Jersey made a low-flow partial-record stations are given in the following table. Most of these measurements were made during periods of base flow when streamflow is primarily from ground-water storage. These measurements, when correlated with the simultaneous discharge of a nearby stream where continuous records are available, will give a picture of the low-flow potentiality of a stream. The column headed "Period of record" shows the water years in which measurements were made at the same, or practically the same, site.

Discharge measurements made at low-flow partial-record stations during water year 1980

06-61	06-616-		Drainage	Period	Measur	
Station number	Station name	Location	area (mi²)	of record	Date	Discharge (ft³/s)
		Maurice River basin				
01411450	Still Run at Aura, NJ	Lat 39°40'23", long 75°07'50", Gloucester County, at bridge on Aura-Glassboro Road, 0.4 mi (0.6 km) east of Aura, 1.0 mi (1.6 km) upstream of Silver Lake, and 2.6 mi (4.2 km) southeast of Glassboro.	3.21 (8.31 km ²)	1966, 1976-80	7-09-80 9-04-80	1.6 .69
01411456	Little Ease Run near Clayton, NJ	Lat 39°39'32", long 75°04'04", Gloucester County, at bridge on Academy Road, 0.9 mi (1.4 km) west of Fries Mill, 1.3 mi (2.1 km east of Clayton, and 1.4 mi (2.3 km) downstream from Beaverdam Branch.	9.77 (25.30 km²) m) cm)	1965, 1976-80	7-03-80 9-04-80	3.8 .78
01411462	Scotland Run at Franklinville, NJ	Lat 39°37'05", long 75°03'35", Gloucester County, at bridge on State Route 538, 0.9 mi (1.4 km) east of Franklinville, 2.7 mi (4.3 km) upstream of Malaga Lake, and 2.8 mi (4.5 km) southeast of Clayton.	14.8 (38.3 km ²)	1975-80	7-03-80 9-04-80	15 4.4
01411700	Muddy Run at Centerton, NJ	Lat 39°31'28", long 75°10'09", Salem County, 130 ft (55 m) downstream of unnamed right bank tributary, 200 ft (60 m) downstream of bridge on New Jersey Routes 540 and 553 in Centerton, and 4.7 mi (7.6 km) south of Elmer.	37.7 (97.6 km ²)	1975-80	7-09-30 9-02-80	25 14
01411950	Buckshutem Creek near Laurel Lake, NJ	Lat 39°20'51", long 75°03'47", Cumberland County, at bridge on State Route 555 (Dividing Creek Road), 1.3 mi (2.1 km) upstream of Gravelly Run, 1.8 mi (2.9 km) west of Laurel Lake, and 3.6 mi (5.2 km) southwest of Millville.	16.1 (41.7 km ²)	1975-77, 1980	7-10-80 9-03-80	.4.5 .48
01412120	Muskee Creek near Port Elizabeth, NJ	Lat 39°18'56", long 74°57'31", Cumberland County, at bridge on State Route 543, 1.3 mi (2.1 km) east of Port Elizabeth, 1.9 mi (3.1 km) upstream from mouth, and 2.8 mi (4.5 km) northeast of Mauricetown.	13.1 (33.9 km ²)	1959, 1975-80	7-22-80 9-03-80	9.2 4.3
		Cohansey River basin	1			
01412405	Cohansey River near Beals Mill, NJ	Lat 39°31'29", long 75°15'59", Cumberland County, at bridge on Beals Mill Road, 1,300 ft (4,000 m) downstream of Beals Mill and Bostwick Lake, and 1.6 mi (3.0 km) west of Deerfield Street.	9.44 (24.45 km²)	1975-80	7-09-80 9-03-80	6.6

Discharge measurements made at low-flow partial-record stations during water year 1980--Continued

Station number	Station name	Location	Drainage area (mi²)	Period of record	Measure Date	Discharge (ft ³ /s)
		Cohansey River basinCo	ntinued			
01413010	Barrett Run near Bridgeton, NJ	Lat 39°26'58", long 75°15'42", Cumberland County, at bridge on Mary Elmer Drive, 1,800 ft (550 m) upstream from Mary Elmer Lake, and 2.1 mi (3.4 km) north- west of the intersection of State Routes 49 and 77 in Bridge	7.02 (18.18 km ²)	1966, 1976-80	7-10-80 9-02-80	4.8 3.5
01413020	Indian Fields Branch at Bridgeton, NJ	Lat 39°26'04", long 75°13'08", Cumberland County, at bridge on Manheim Avenue in Bridgeton, 1,300 ft (4,000 m) upstream of East Lake.	4.64 (12.02 km²)	1976-80	7-22-80 9-02-80	6.3
		Stow Creek basin				
01413080	Raccoon Ditch at Davis Mill, NJ	Lat 39°25'26", long 75°22'01", Cumberland County, at bridge on County Highway 90 at Davis Mill, 2.8 mi (4.5 km) upstream from mouth, and 4.3 mi (6.9 km) southwest of Shiloh.	3.19 (8.26 km ²)	1976 - 78, 1980	9-12-79 7-22-80 9-02-80	a3.8 3.6 3.2
		Delaware River bas	in			
01443475	Trout Brook near Middleville, NJ	Lat 41°03'03", long 74°51'23", Sussex County, at bridge on County Highway 612, 0.4 mi (0.6 km) upstream from mouth, 0.5 mi (0.8 km) southeast of Middleville, and 5.1 mi (8.2 km) west of Newton.	24.0 (62.2 km ²)	1979-80	7-08-80 9-02-80	29 1.9
01455100	Lopatcong Creek at Phillipsburg, NJ	Lat 40°40'38", long 75°10'13", Warren County, at bridge on alternate U.S. Route 22 in Phillipsburg, 100 ft (30 m) upstream from tracks of Central Railroad of New Jersey, and 3,000 ft (910 m) above mouth.	14.2 (36.8 km ²)	1958-64, 1979-80	11-21-79 2-13-80 5-01-80	9.4 7.7 18
01455300	Pohatcong Creek at Carpenter- sville, NJ	Lat 40°37'30", long 75°11'10", Warren County, at bridge on Carpentersville-Riegelsville Road, 2,000 ft (610 m) above mouth, and 0.7 mi (1.1 km) south of Carpentersville.	57.1 (147.9 km ²)	1932, 1958-64, 1979-80	2-13-80 5-01-80	33 103
01455370	Weldon Brook at Hurdtown, NJ	Lat 40°58'10", long 74°35'56", Morris County, at bridge on Union Turnpike at Hurdtown, 500 ft (150 m) downstream from Lake Shawnee Dam.	8.10 (20.98 km ²)	1973-80	7-08-80	.90
01458100	Hakihokake Creek at Milford, NJ	Lat 40°34'06", long 75°05'44", Hunterdon County, at highway bridge in Milford, 4,000 ft (1,200 m) upstream from mouth.	17.2 (44.5 km ²)	1944, 1958-64, 1979-80	10-31-79 5-05-80	19 29
01458400	Harihokake Creek near Frenchtown, NJ	Lat 40°32'53", long 75°04'09", Hunterdon County, at bridge on Frenchtown-Milford Road, 1,600 ft (490 m) upstream from mouth, and 1.5 mi (2.4 km) north of Frenchtown.	9.75 (25.3 km ²)	1944, 1958-65, 1979-80	3-12-80	8.4
01461300	Wickecheoke Creek at Stockton, NJ	Lat 40°24'41", long 74°59'13", Hunterdon County, at bridge on State Route 29 at Stockton, and 900 ft (270 m) above mouth.	26.6 (68.9 km ²)	1944, 1958-64, 1979-80	10-30-79 5-05-80	14 21
01461900	Alexauken Creek near Lambert- ville, NJ	Lat 40°22'51", long 74°56'54", Hunterdon County, at bridge on State Route 29, 0.4 mi (0.6 km) upstream from mouth, and 1.1 mi (1.8 km) north of Lambertville.	14.9 (38.6 km ²)	1944, 1958-64, 1979-80	10-30-79 5-05-80	8.5 16

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DISCHARGE AT PARTIAL-RECORD STATIONS AND MISCELLANEOUS SITES

Discharge measurements made at low-flow partial-record stations during water year 1980--Continued

Station number	Station name	Location	Drainage area (mi²)	Period of record	Measur Date	Discharge (ft ³ /s)
		Delaware River basinCont	inued			
01483010	Deep Run near Alloway, NJ	Lat 39°32'34", long 75°21'18", Salem County, at bridge on Telegraph Road, 0.8 mi (1.3 km) upstream from Elkinton Mill Pond, 1.3 mi (2.1 km) south of Alloway, and 2.5 mi (4.0 km) northwest of Pecks Corner.	5.30 (13.73 km ²)	1979-80	7-09-80 9-03-80	5.4 3.1

a Not previously published.

* Also a crest-stage partial-record station.

† Operated as a continuous-record gaging station.

CREST-STAGE PARTIAL RECORD STATIONS

The following table contains annual maximum discharges for crest-stage stations. A crest-stage gage is a device which will register the peak stage occurring between inspections of the gage. A stage-discharge relation for each gage is developed from discharge measurements made by indirect measurements of peak flow or by current meter. The date of the maximum discharge is not always certain but is usually determined by comparison with nearby continuous-record stations, weather records, or local inquiry. Only the maximum discharge for each water year is given. Information on some lower floods may have been obtained, and discharge measurements may have been made for purposes of establishing the stage-discharge relation, but these are not published herein. The years given in the period of record represent water years for which the annual maximum has been determined. The gage heights are heights on the upstream side of the bridge, above the dam or at the discontinued continuous-record gaging station unless otherwise noted.

ANNUAL MAXIMUM DISCHARGE AT CREST-STAGE PARTIAL-RECORD STATIONS

Station	Station name	Location	Desinara	Period	Annu	al maximu	n
No.	Scatton name	Location	Drainage area (mi²)	of record	Date	Gage height (feet)	Discharge (ft³/s)
		Cohansey Rive	r basin				
01412500	West Branch Cohansey River at Seeley, NJ	Lat 39°29'06", long 75°15'33" Cumberland County, on right bank 15 ft (4.6 m) upstream from county bridge, Highway 31, at Seeley, 450 ft (137 upstream from mouth and 4.1 (6.6 km) northwest of Bridg Datum of gage is 42.23 ft (National Geodetic Vertical 1929.	(6.60 km ²) m) mi eton. 12.872 m)	1952-67‡, 1968-80	6-30-80		
		Delaware Rive	er basin				
01445000	Pequest River at Huntsville, NJ	Lat 40°58'49", long 74°46'38" Sussex County, on right bank, 20 ft (6.1 km) upstre from highway bridge in Hunt ville, and 0.4 mi (0.6 km) downstream from East Branch Datum of gage is 553.81 ft (168.801 m) National Geodet Vertical Datum of 1929.	(81.3 km ²)	1940-62, 1963-80	3-21-80	3.70	260
*01446000	Beaver Brook near Belvidere, NJ	Lat 40°50'40", long 75°02'48, Warren County, on right bank, 2,000 ft (610 m) upstream from mouth, and 2 mi (3 km) east of Belvidere. Datum of gage is 303.36 ft (92.464 m) National Geodeti Vertical Datum of 1929.	(93.8 km ²)	1922-61‡, 1963-80	3-21-80	3.20	285
01455200	Pohatcong Creek at New Village, NJ	Lat 40°42'57", long 75°04'20" Warren County, at bridge on Edison Road, 0.4 mi (0.6 km) southeast of New Village, and 4.3 mi (6.9 km upstream from Merrill Creek Datum of gage is 308.32 ft (93.976 m) National Geodeti Vertical Datum of 1929.	(86.5 km²)	1960-69‡, 1970-80	3-21-80	4.11	663
01455500	Musconetcong River at outlet of Lake Hopatcong, NJ	Lat 40°55'00", long 74°39'55" Morris County, on left bank just upstream of highway bridge 300 ft (91 m) down- stream from Lake Hopatcong Dam in Landing. Datum of gage is 904.99 ft (275.841 National Geodetic Vertical Datum of 1929.	(66.3 km ²)	1929-75‡, 1976-80	5-02-80	e3.04	e165
01456000	Musconetcong River at Hackettstown, NJ	Lat 40°53'10", long 74°48'00" Warren County, on right (bank 75 ft (23 m) upstream from Saxton Falls Dam, 0.5 mi (0.8 km) upstream from Erie-Lackawanna Railwa bridge, and 3.0 mi (4.8 km) northeast of Hackettstown. Datum of gage is 630.93 ft (192.307 m) National Geodet Vertical Datum of 1929.	181.3 km ²)	1921-73‡, 1974-80	3-21-80	2.61	848

CREST-STAGE PARTIAL-RECORD STATIONS

ANNUAL MAXIMUM DISCHARGE AT CREST-STAGE PARTIAL-RECORD STATIONS--CONTINUED

04-44	04-44	1000000	D	David and	Annu	al maximu	m
Station no.	Station name	Location	Drainage area (mi²)	Period of record	Date	gage height (feet)	Discharge (ft³/s)
		Delaware River basi	nContinued				
01457500	Delaware River at Riegelsville, NJ	Lat 40°35'36", long 75°11'17' Warren County, at suspension bridge at Riegels- ville, 600 ft (183 m) up- stream from Musconetcong River (flow of which is included in the records for this station since Oct. 1, 1931). Datum of gage is 125.12 ft (38.137 m National Geodetic Vertical Datum of 1929.	(16,390 km ²)	1906-71‡, 1972-80	3-22-80	19.89	97,000
01463610	Assunpink Creek at Edinburg, NJ	Lat 40°15'28", long 74°37'05' Mercer County, on left bank downstream side of Old Trenton Road Bridge (Route 535), 0. 1 mi (1.6 km) west of Edinburg, 0.5 mi (0.8 km) upstream from Bridegroom Run and 3.0 mi (4.8 km) north of Robbinsville. Datum of gage is 63.46 ft (19.343 m) Nationa Geodetic Vertical Datum of 1929.	s, (64.7 km ²)	1979-80	3-22-80		100
01464400	Crosswicks Creek at New Egypt, NJ	Lat 40°04'03", long 74°31'57" Ocean County, at upstream side of bridge on State Route 528 in New Egypt, and 300 ft (91 m) downstream from Cakford Lake Dam. Dat of gage is 43.46 ft (13.247 National Geodetic Vertical Datum of 1929.	(97.1 km²)	1968-80	4-10-80	-	-
01464515	Doctors Creek at Allentown, NJ	Lat 40°10'37", long 74°35'57" Monmouth County, at bridge on Breza Road in Allentown, and 0.8 mi (1.3 km) downstr from Conines Millpond dam. Datum of gage is National Geodetic Vertical Datum of 1929.	(44.6 km ²)	1968-80	4-10-80	b56.33	+
01464530	Blacks Creek at Mansfield Square, NJ	Lat 40°07'02", long 74°41'58" Burlington County, at bridg on Mansfield Square-Crosswi Road, 0.4 mi (0.6 km) east Mansfield Square, and 3.4 m (5.5 km) upstream from mout Datum of gage is 12.44 ft (3.792 m) National Geodetic Vertical Datum of 1929.	e (51.0 km²) cks of ni h.	1978-80	4-10-80	b8.56	900
01464538	Crafts Creek at Columbus, NJ	Lat 40°04'44", long 74°43'07" Burlington County, at bridg on Columbus-Mansfield road, 0.4 mi (0.6 km) north of Columbus, and 6.0 mi (9.6 k northeast of Mount Holly. Datum of gage is 33.71 ft (10.275 m) National Geodeti Vertical Datum of 1929.	e (13.93 km²m)	1978-80	4-10-80	b7.35	245
01464582	Assiscunk Creek near Columbus, NJ	Lat 40°03'13", long 74°44'34" Burlington County, at bridg on Petticoat Bridge Road, 1 (2.7 km) southwest of Colum 4.0 mi (6.4 km) northeast o Mount Holly, and 0.1 mi (0. downstream from Assiscunk B	e (28.2 km ²) .7 mi bus, f 2 km)	1978-80	4-10-80	b6.49	177

CREST-STAGE PARTIAL-RECORD STATIONS

ANNUAL MAXIMUM DISCHARGE AT CREST-STAGE PARTIAL-RECORD STATIONS--Continued

Station	Station name	Location	Drainage	Period	Anno	al maximum	
No .			area (mi²)	of record	Date	Gage height (feet)	Discharge (ft ³ /s)
		Delaware River	pasinContinued				
01465850	South Branch Rancocas Creek at Vincentown, NJ	Lat 39°56'22", long 74°45 Burlington County, on 16 bank 150 ft (46 m) down- stream from highway brid on Lumberton-Vincentown road, 0.8 mi (1.3 km) we of Vincentown, 2.9 mi (4 southeast of Lumberton, 3.1 mi (5.0 km) upstream Southwest Branch. Datum gage is 13.17 ft (4.014 National Geodetic Vertic Datum of 1929.	eft (138.0 km²) dige est 4.7 km) and n from n of m)	1962-75‡, 1976-80	4-10-80	6.75	805
01465882	Southwest Branch Rancocas Creek at Medford, NJ	Lat 39°54'16", long 74°48 Burlington County, at bridge on State Route 7(0.6 mi (1.0 km) northeas of Medford and 4.2 mi (upstrem from mouth. Dat gage is 20.72 ft (6.315 National Geodetic Vertic Datum of 1929.	(124.1 km²), Revised) st 5.8 km) cum of m)	1975-80	4-10-80	ъ4.04	680
01467057	Pompeston Creek at Cinnaminson, NJ	Lat 40°00'11", long 74°59 Burlington County, at U. Route 130 bridge, 0.7 m. (1.1 km) northwest of C. minson, 1.7 mi (2.7 km) stream from mouth, and (3.4 km) east of Palymri Datum of gage is 11.36 i (3.463 m) National Geod	S. (14.89 km²) inna- up- 2.1 mi a.	1975-80	4-10-80	b5.44	†
01467069	North Branch Pennsauken Creek near Moorestown, NJ	Lat 39°57'10", long 74°58 Burlington County, at by on Route 41 (Kings High) 1.7 mi (2.8 km) southwe: Moorestown. Datum of g; is 5.9 ft (1.80 m) Natic Geodetic Vertical Datum 1929.	ridge (33.2 km²) way) st of age onal	1975-80	8-05-80	4.17	328
*01467130	Cooper River at Kirkwood, NJ	Lat 39°50'11", long 75°00 Camden County, 5 ft (1.9 upstream from dam at Kii wood Lake in Kirkwood, 1.0 mi (1.6 km) north of Laurel Springs. Datum of gage is 57.82 ft (17.62) National Geodetic Vertic Datum of 1929.	5 m) (13.3 km²) k- and f of 4 m)	1964-80	1-12-80	1.05	64
*01467160	North Branch Cooper River near Marlton, NJ	Lat 39°53'20", long 74°58 Camden County, at bridge on blacktop road to Spridale, 2.5 mi (4.0 km) we of Marlton. Datum of g. 36.36 ft (11.083 m) Nat. Geodetic Vertical Datum 1929.	e (13.80 km²) ing- est age is ional	1964-80	4-10-80	b2.36	130
*01467305	Newton Creek at Collingswood, NJ	Lat 39°54'30", long 75°03 Camden County, at bridg Park Avenue in Collings 0.3 mi (0.5 km) east of Cuthbert Avenue. Datum gage is 18.74 ft (5.712 National Geodetic Vertic Datum of 1929.	e on (3.42 km²) wood, of m)	1964-80	8-05-80	3.09	144
01467317	South Branch Newton Creek at Haddon Heights, NJ	Lat 39°52'45", long 75°04 Camden County, at bridge Haddon Heights Park in Heights, and 2.6 mi (4. south of Collingswood. of gage is 23.34 ft (7. National Geodetic Vertice Datum of 1929.	e on (1.63 km²) Haddon 2 km) Datum 114 m)	1964-80	8-05-80	3.64	77

CREST-STAGE PARTIAL-RECORD STATIONS

ANNUAL MAXIMUM DISCHARGE AT CREST-STAGE PARTIAL-RECORD STATIONS--Continued

*01467351	South Branch Big Timber Creek at Blackwood, NJ North Branch Big Timber Creek at Laurel Road at Laurel Springs, NJ	Delaware River basin- Lat 39°48'17", long 75°03'13", Camden County, at bridge on Lower Landing Roaod in Black- wood, and 3.0 mi (4.8 km) upstream from mouth. Datum of gage is 8.41 ft (2.563 m) National Geodetic Vertical Datum of 1929. Lat 39°49'07", long 75°00'56", Camden County, at bridge on Laurel Road in Laurel Springs.	19.1 (49.5 km²)	Period of record	Date 3-21-80	Gage height (feet)	Discharge (ft ³ /s)
A	Big Timber Creek at Blackwood, NJ North Branch Big Timber Creek at Laurel Road at Laurel Springs,	Lat 39°48'17", long 75°03'13", Camden County, at bridge on Lower Landing Roaod in Black-wood, and 3.0 mi (4.8 km) upstream from mouth. Datum of gage is 8.41 ft (2.563 m) National Geodetic Vertical Datum of 1929. Lat 39°49'07", long 75°00'56", Camden County, at bridge on	19.1 (49.5 km²)	1964-80	3-21-80	b3.26	176
	Big Timber Creek at Blackwood, NJ North Branch Big Timber Creek at Laurel Road at Laurel Springs,	Camden County, at bridge on Lower Landing Roaod in Black-wood, and 3.0 mi (4.8 km) upstream from mouth. Datum of gage is 8.41 ft (2.563 m) National Geodetic Vertical Datum of 1929. Lat 39°49'07", long 75°00'56", Camden County, at bridge on	(49.5 km ²)	1964-80	3-21-80	b3.26	176
01467351	Timber Creek at Laurel Road at Laurel Springs,	Camden County, at bridge on	7.16				
		and 2.5 mi (4.0 km) upstream from confluence with the South Branch. Datum of gage is 26.89 ft (8.196 m) National Geodetic Vertical Datum of 1929.	(18.54 km ²)	1976-80	1-21-79 4-10-80	1.93 1.37	e380 130
01475000	Mantua Creek at Pitman, NJ	Lat 39°44'14", long 75°06'53", Gloucester County, on left (17 abutment of Wadsworth Dam, 0.9 mi (1.4 km) east of Pitman, and 2.0 mi (3.2 km) upstream from Porch Branch. Datum of gage is 68.51 ft (20.882 m) National Geodetic Vertical Datum of 1929.	6.75 7.48 km²)	1940-76‡, 1977-80	6-30-80	1.54	79
01475019	Mantua Creek at Salina, NJ	Lat 39°46'13", long 75°05'59", Gloucester County, at bridge (on Salina-Sewell Road, 0.2 mi (0.3 km) downstream of Bees Branch, and 0.5 mi (0.8 km) west of Salina. Datum of gage is 11.67 ft (3.557 m) National Geodetic Vertical Datum of 1929.		1975-80	1-21-79 1-12-80	a6.3 2.28	d550 141
01477110	Raccoon Creek at Mullica Hill, NJ	Lat 39°44'10", long 75°13'30", Gloucester County, at bridge State Routes 45 and 77 in Mullica Hill, 1,200 ft (370 m) downstream of Mullica Hill Pond and 5.5 mi (8.8 km) west of Pitman. Datum of gage is 21.91 ft (6.678 m) National Geodetic Vertical Datum of 192	(40.4 km ²)	1978-80	1-22-79 4-01-80	b3.43 ab1.7	c780 210
01477480	Oldmans Creek near Harrisonville, NJ	Lat 39°41'40", long 75°18'38", Salem County, at bridge on (Harrisonville Station Road, 2.4 mi (3.8 km) west of Harrisonville, and 2.8 mi (4.5 km) north of Woodstown. Datum of gage is 16.58 ft (5.054 m) National Geodetic Vertical Datum of 1929.		1975-80	3-25-80, 4-10-80	3.67	135

^{*} Also a low-flow partial-record station.
† Discharge not determined.
† Operated as a continuous-record gaging station.
a Estimated.
b Downstream side of bridge.
c Not previously published.
d Revised.
e Peak may have been higher on Mar. 21, 1980.

DISCHARGE MEASUREMENT AT MISCELLANEOUS SITES

Measurements of streamflow at points other than gaging stations are given in the following table. Those that are measurements of base flow are designated by an asterisk (*); measurements of peak flow by a dagger (\dagger) .

DISCHARGE MEASUREMENTS MADE AT MISCELLANEOUS SITES DURING WATER YEAR 1980

				Measured		Measurements		
Stream	Tributary to	Location	Drainage area (mi²)	previously (water years)	Date	Discharge (ft³/s)		
		Delaware River basi	n					
01443440 Paulins Kill	Delaware River	Lat 41°06'20", long 74°45'19", Sussex County, at bridge in Balesville, 2.3 mi (3.7 km) upstream from Paulins Kill Lake, and 3.0 mi (4.8 km) north of Newton.	67.1 (173.8 km ²)	1979	1-30-80 3-22-80 5-01-80	*75 707 428		
01444100 Paulins Kill	Delaware River	Lat 40°55'14", long 75°05'18", Warren County, at bridge on U.S. Route 46 at Columbia, 2.3 mi (3.7 km) southwest of Polkville, and 3.2 mi (5.2 km) southeast of Knowlton.	177 (458 km ²)	1978-79	3-04-80 4-30-80	*140 1320		
01446400 Pequest River	Delaware River	Lat 40°49'45", long 75°04'44", Warren County, at bridge on State Route 519, in Belvidere, 1,400 ft (430 m) upstream of mouth.	158 (409 km ²)	1950,53, 1955,74, 1977-79	3-10-80 5-02-80 6-04-80	138 585 221		
01455801 Musconetcong River	Delaware River	Lat 40°55'10", long 74°44'07", Sussex County, at bridge at Lockwood 0.2 mi (0.3 km) downstream from Lubbers Run, and 1.5 mi (2.4 km) northwest of Stanhope.	60.5 (156.7 km ²)	1979	3-12-80 3-21-80 5-14-80	*54 200 184		
01456200 Musconetcong River	Delaware River	Lat 40°48'48", long 74°50'32", Warren County, at bridge in Beatyestown, 2.1 mi (3.4 km) northeast of Stephensburg, and 3.0 mi (4.8 km) south of Hacketts town.	90.7 (234.9 km²)	1979	3-12-80 5-14-80	*97 306		
01457400 Musconetcong River	Delaware River	Lat 40°35'32", long 75°11'20", Warren County, at bridge on State Highway 13 at Riegels- ville, 0.2 mi (0.4 km) north of Mount Joy, and 0.2 mi (0.3 km) upstream from mouth.	156 (404 km ²)	1940-55, 1973, 1977-79	2-13-80 5-01-80	*148 757		
01460880 Lockatong Creek	Delaware River	Lat 40°24'58", long 75°01'05", Hunterdon County, at bridge on Raven Rock-Rosemont Road, and 0.7 mi (1.1 km) upstream from mouth.	22.9 (59.3 km ²)	1978-79	10-30-79	*10		
01462005 Swan Creek	Delaware River	Lat 40°21'51", long 74°56'41", Hunterdon County, at bridge in Lambertville, 250 ft (76 m) upstream from Delaware and Raritan Canal feeder, 350 ft (107 m) downstream from State Route 29, and 500 ft (150 m) upstream from mouth.	3.28 (8.50 km²)	1979	10-30-79 4-09-80 4-28-80 4-30-80	*0.95 120 40 5.8		
01463568 Assunpink Creek	Delaware River	Lat 40°13'05", long 74°33'08", Monmouth County, at bridge at Carsons Mills, 0.1 mi (0.2 km) upstream from New Sharon Branch, and 1.3 mi (2.1 km) northeast of Pages Corner.	12.5 (32.4 km ²)	1979	5-07-80	*22		
01463625 Assunpink Creek	Delaware River	Lat 40°16'06", long 74°42'07", Mercer County, at bridge on Basin Road, midway between U.S. Route 1 and Penn Central railroad tracks, 0.5 mi (0.8 km) southeast of Bakersville, and 1.4 mi (2.3 km) southeast of Franklin Corner.	38.6 (100.0 km²)	1977-79	5-07-80	*70		
01465835 South Branch Rancocas Creek	Rancocas Creek	Lat 39°55'23", long 74°43'05", Burlington County, at bridge on light-duty Road, downstream from Friendship Creek, 0.5 mi (0.8 km) northwest of Retreat, and 2.0 mi (3.2 km) southwest of Vincentown.	44.4 (115.0 km²)	1979	4-28-80	81		

DISCHARGE MEASUREMENTS AT MISCELLANEOUS SITES

DISCHARGE MEASUREMENTS MADE AT MISCELLANEOUS SITES DURING WATER YEAR 1980--Continued

			Drainage	Measured previously	Measurements	
Stream	Tributary to	Location	area (mi²)	(water years)	Date	Discharge (ft³/s)
		Delaware River basinCon	tinued			
01465970 North Branch Rancocas Creek	Rancocas Creek	Lat 39°58'04", long 74°34'48", Burlington County, at bridge on Lakehurst Road in Browns Mills, at outflow of Mirror Lake, 5.0 mi (8.0 km) east of Pemberton.	19.5 (50.5 km ²)	1979	4-28-80	86
01467120 Cooper River	Delaware River	Lat 39°49'43", long 74°58'55", Camden County, at bridge on Norcross Road in Lindenwold 50 ft (15 m) downstream from outflow of Linden Lake, 1.1 mi (1.8 km) southwest of Gibbsboro, and 3.7 mi (6.0 km) northeast of Berlin.	1.13 (2.93 km ²)	1979	4-29-80	3.0
01467329 South Branch Big Timber Creek	Delaware River	Lat 39°48'05", long 75°04'27", Gloucester County, at bridge on Blackwood-Clementon Road in Blackwood, at Blackwood Lake 3.5 mi (5.6 km) west of Linden- wold.	19.1 (49.5 km ²)	1979	4-29-80	52
01477510 Oldmans Creek	Delaware River	Lat 39°41'57", long 75°20'01", Salem County, at bridge on Kings Highway in Porches Mill, 1.0 mi (1.6 km) north of Seven Stars, and 3.1 mi (4.8 km) north of Woodstown.	21.0 (54.4 km ²)	1979	3-22-80 4-10-80 4-30-80	83 151 49

^{*} Base flow.

The following table contains annual maximum stages for tidal crest-stage stations. The information is obtained from a crest-stage gage or a water-stage recorder located at each site. A crest-stage gage is a device which will register the peak stage occurring between inspections of the gage. All stages are elevations above National Geodetic Vertical Datum of 1929 unless otherwise noted. Only the maximum stage is given. Information on some other high stages 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 STAGES AT TIDAL CREST-STAGE PARTIAL-RECORD STATIONS

Station No.	Station name	Location	Period of record	Annual Date	maximum Elevation NGVD* (feet)
01411395	Cape May Canal at North Cape May, NJ	Lat 38°58'02", long 74°57'25", Cape May County, on Cape May Canal on slip of Cape May, New Jersey to Lewes, Delaware, ferry, 0.5 mi (0.8 km) east of west end of Cape May Canal, and 0.8 mi (1.3 km) south of North Cape May.	1965-80	1-17-80	c5.44
01411409	Delaware Bay at Reeds Beach, NJ	Lat 39°06'32", long 074°53'39", Cape May County, at boat ramp in Cooks Beach, 0.2 mi (0.3 km) south of Reeds Beach, 4.8 mi (7.7 km) northwest of Cape May Court House, and 5.8 mi (9.3 km) north of Villas.	1979-80	1-17-80	5.89
01412150	Maurice River at Bivalve, NJ	Lat 39°13'42", long 75°02'12", Cumberland County, on right bank on bulkhead piling on the south side of Bivalve, and 1.3 mi (2.1 km) south of Port Norris.	1965-80	1–17–80	6.11
01413038	Cohansey River at Greenwich, NJ	Lat 39°23"02", long 075°20'58" Cumberland County, at Greenwich Pier, 0.7 mi (1.1 km) southwest of Greenwich, and 5.8 mi (9.3 km) southwest of Shiloh.	1979-80	1-17-80	4.84
01464040	Delaware River at Marine Terminal, Trenton, NJ	Mercer County, on left bank 1	921-46‡, 951-54‡, 957-80‡	1-25-79 4-15-80	cd9.74 c7.86
01477050	Delaware River at Chester, PA	Lat 39°50'12", *long 75°22'00", Delaware County, at end of Reynolds Aluminum Company pier 0.5 mi (0.8 km) downstream from Chester Creek, and at channel mile 82.30 (132.42 km).	1972-77‡, 1979-80	4-15-80	5.95
01483050	Alloway Creek at Hancocks Bridge, NJ	Lat 39°30'31" long 75°27'39", Salem County, on left bank at downstream side of Mill Street bridge in Hancocks Bridge, 0.4 mi (0.6 km) downstream from Lower Alloway Creek and 4.0 mi (6.4 km) south of Salem.	1980	1-17-80	4.62

National Geodetic Vertical Datum of 1929 (NGVD). Operated as a continuous-record gaging station. Revised.

Gage datum; not National Geodetic Vertical Datum of 1929 datum.

Furnished by National Ocean Survey. Not previously published.

ANALYSES OF SAMPLES COLLECTED AT SEDIMENT PARTIAL-RECORD STATIONS
SUSPENDED SEDIMENT DATA, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

				SEDI-
				MENT
		STREAM-	SEDI-	DIS-
		FLOW,	MENT,	CHARGE,
		INSTAN-	SUS-	SUS-
	TIME	TANEOUS	PENDED	PENDED
DATE		(CFS)	(MG/L)	(T/DAY)

01412000 - MENANTICO C NR MILLVILLE NJ (LAT 39 25 12 LONG 074 58 00)

DEC , 1979 . 04... 1100 34 23 2.1

01413015 - COHANSEY R AT BRIDGETON NJ (LAT 39 25 54 LONG 075 14 11)

OCT , 1979 03... 1230 -- 29 --JAN , 1980 30... 1330 -- 7 --

01438500 - DELAWARE R AT MONTAGUE NJ (LAT 41 18 30 LONG 074 47 50)

OCT , 1979 15... 1400 4260 1 12

01439830 - BIG FLAT BK AT TUTTLES CORNER NJ (LAT 41 12 00 LONG 074 48 56)

OCT , 1979 15... MAR , 1980 12... 2 0945 41 22... 1300 342 MAY 06... 1.8 1000 75 9 JUL 10 1115 2 21... . 05 AUG 14... 0945 E7.4

01440000 - FLAT BK NR FLATBROOKVILLE NJ (LAT 41 06 24 LONG 074 57 09)

NOV, 1979 14... 1630 138 1 .37 JAN, 1980 22... 1445 66 2 .36 MAR 05... 0900 35 0 .00

01440200 - DELAWARE R NR DELAWARE WATER GAP, PA. (LAT 41 00 42 LONG 075 05 09)

NOV, 1979 15... 1300 4210 1 11 MAR, 1980 19... 1630 17350 74 3470

01442750 - DELAWARE R AT DUNNFIELD NJ (LAT 40 58 40 LONG 075 08 10)

AUG , 1980 26... 1025 1630 2 8.8

01443000 - DELAWARE R AT PORTLAND PA (LAT 40 55 30 LONG 075 05 55)

OCT , 1979
16... 0930 -- 4 -MAR , 1980
25... 0945 -- 13 -JUN
02... 1000 -- 2 -JUL
14... 1000 E2520 1 -AUG
18... 0930 E2090 2 --

	TIME	STREAM- FLOW, INSTAN- TANEOUS	SEDI- MENT, SUS- PENDED	SEDI- MENT DIS- CHARGE, SUS- PENDED
DATE		(CFS)	(MG/L)	(T/DAY)

01443440 - PAULINS KILL AT BALESVILLE NJ (LAT 41 06 20 LONG 074 45 19)

OCT , 19	79			
15	1200	149	14	5.6
FEB , 19	80			
28	1030	60	11	1.8
MAR				
22	1455	E709	44	
APR				
21	1200	140	188	71
JUN				
02	1015	92	6	1.5
JUL				
14	1000	30	6	. 49
AUG				
14	0945	E23	7	

01443500 - PAULINS KILL AT BLAIRSTOWN NJ (LAT 40 58 44 LONG 074 57 15)

000 40				
OCT , 19				7 15 16
11	1000	431	7	8.1
NOV				
20	1250	185	2	1.0
JAN , 19			* 7	1,7970
23	1045	157	2	. 85
MAR	1045	101	-	.05
04	1520	67	1	10
	1530			. 18
20	1115	366	15	15
JUN				
02	1145	E 170	3	
JUL				
14	1115	56	12	1.8
	1115	50	12	1.0
AUG				
14	1130	40	2	. 22

01443900 - YARDS C NR BLAIRSTOWN NJ (LAT 40 58 51 LONG 075 02 25)

DEC , 1979 05... 1250 11 4 .12

01444100 - PAULINS KILL AT MOUTH AT COLUMBIA NJ (LAT 40 55 14 LONG 075 05 18)

OCT , 19	179			
11	1200	530	8	11
MAR , 19	80			
04	1315		1	
05	1100		2	
APR				
22	1100	530	15	21
JUN				
02	1300		3	
JUL				
14	1315		4	
AUG				
14	1230		4	

01444800 - DELAWARE R NR RICHMOND PA (BELVIDERE NJ) (LAT 40 49 44 LONG 075 05 06)

OCT , 19	70			
16 MAR , 19	1130	E8160	4	
25 JUN		E25200	24	
02 JUL	1215	E2860	4	
14 AUG	1145	E2500	5	
18	1130	E2100	2	

ANALYSES OF SAMPLES COLLECTED AT SEDIMENT PARTIAL-RECORD STATIONS--Continued SUSPENDED SEDIMENT DATA, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

				SEDI- MENT
		STREAM-	SEDI-	DIS-
		FLOW,	MENT,	CHARGE,
		INSTAN-	SUS-	SUS-
	TIME	TANEOUS	PENDED	PENDED
DATE		(CFS)	(MG/L)	(T/DAY)

01445430 - PEQUEST RIVER AT TOWNSBURY, NJ (LAT 40 51 06 LONG 074 56 02)

NOV , 19	79			
07	1240	159	10	4.3
JAN , 19	80			
24	1400	96	5	1.3
MAR				
05	1330	54	3	. 44

01445500 - PEQUEST R AT PEQUEST NJ (LAT 40 49 43 LONG 074 58 45)

NOV , 19	79			
08	1200	184	6	3.0
JAN , 19	80			
24	1200	124	4	1.3
MAR				
05	1545	74	2	. 40

01446000 - BEAVER BK NR BELVIDERE NJ (LAT 40 50 40 LONG 075 02 48)

OCT , 19	179			
03	1130	76	14	2.9
	80			
05	0945		5	
APR				1
22	0945	71	6	1.2
JUN				
05	1230	27	11	. 80
JUL				
14	1040	7.9	5	. 11
AUG				
18	1020	2.9	2	.02

01446400 - PEQUEST R'AT BELVIDERE NJ (LAT 40 49 45 LONG 075 04 44)

OCT 10	70			
OCT , 19		319	35	30
MAR , 19	180			
10	1530	135	7	2.6
12	0940	148	8	3.2
APR				
22	1230	338	28	26
JUN				
05	1130	184	13	6.5
JUL				
14	1130	76	6	1.2
AUG				
18	1100	59	4	. 64

01446500 - DELAWARE R AT BELVIDERE NJ (LAT 40 49 36 LONG 075 05 02)

MAR , 1980 10... 1250 4550 3 37

01447000 - DELAWARE R AT NORTHAMPTON ST AT EASTON PA (LAT 40 41 30 LONG 075 12 15)

OCT , 19	979			
17	0945		4	
MAR , 19	080			
26	0945		21	
JUN				
03	0945		3	
JUL				
15	0945		4	
AUG		1		
19	0930		4	

					SEDI-
					MENT
			STREAM-	SEDI-	DIS-
			FLOW,	MENT,	CHARGE,
			INSTAN-	SUS-	SUS-
		TIME	TANEOUS	PENDED	PENDED
D	ATE		(CFS)	(MG/L)	(T/DAY)

01455100 - LOPATCONG C AT PHILLIPSBURG NJ (LAT 40 40 38 LONG 075 10 13)

MAR . 19	80			
05	0930	8.0	7	. 15
MAY				
07	1115	14	9	. 35
JUN				
03	1045	13	14	. 47
JUL				
15	1030	9.2	11	. 27
AUG				
19	1130	5.1	10	. 14

01455160 - BRASS CASTLE C NR WASHINGTON NJ (LAT 40 45 55 LONG 075 01 07)

NOV , 1979 08... 1530 3.9 3 .03

01455300 - POHATCONG C AT CARPENTERSVILLE NJ (LAT 40 37 30 LONG 075 11 10)

OCT , 19	79			
02	1030	123	59	20
MAR , 19	80			
05	1100		6	
APR				
28	1215	149	109	44
JUN		194		
03	1230	64	6	1.0
JUL				
15	1130		25	
AUG				
19	1230	4.5	11	. 13

01455500 - MUSCONETCONG R AT OUT OF LAKE HOPATCONG NJ (LAT 40 55 00 LONG 074 39 55)

OCT , 19	79			
09	1040	110	2	.59
	80	14		Den
27	0930	13	1	.03
APR	4045	0.5	-	
21 JUN	1015	95	3	.77
04	1140	40	2	.22
JUL	1140	40	-	
15	1115	80	2 .	. 43
AUG				
13	0930	9.6	3	.08

01455801 - MUSCONETCONG R AT LOCKWOOD NJ (LAT 40 55 10 LONG 074 44 07)

79 1245	216		5	2.9
80				
0900	-	-	7	
1045	54		3	. 44
1300	222		23	14
1040	96		12	3.1
1100	22		4	. 24
1045	22		3	. 18
	1245 0900 1045 1300 1040	1245 216 80 0900 - 1045 54 1300 222 1040 96 1100 22	1245 216 80 0900 1045 54 1300 222 1040 96 1100 22	1245 216 5 0900 7 1045 54 3 1300 222 23 1040 96 12 1100 22 4

		CEDEAN	CEDI	SEDI- MENT
		STREAM- FLOW.	SEDI- MENT.	DIS- CHARGE.
		INSTAN-	SUS-	SUS-
	TIME	TANEOUS	PENDED	PENDED
DATE		(CFS)	(MG/L)	(T/DAY)

01456200 - MUSCONECTONG R AT BEATTYSTOWN NJ (LAT 40 48 48 LONG 074 50 32)

OCT . 19	79			
11	1030	380	8	8.2
MAR , 19	80	7.77		
06	1000	91	4	. 98
12	1330	120	3	.97
MAY				
08	1145	285	16	12
JUN				
04	0930	200	16	8.6
JUL				
15	0940	53	4	. 57
AUG				
13	1215		4	

01457000 - MUSCONETCONG R NR BLOOMSBURY NJ (LAT 40 40 20 LONG 075 03 40)

OCT , 19	79			
31	1240	181	3	1.5
MAR , 19				2.3
11	1230	201	47	26

01457400 - MUSCONETCONG R AT RIEGELSVILLE NJ (LAT 40 35 32 LONG 075 11 20)

OCT , 19	79		
02	1220	 24	
MAR , 19			
06	1145	 6	
APR			
02	1200	 22	
JUN			
03	1315	 18	
JUL			
15	1300	 17	
AUG			
19	1215	 11	

01458100 - HAKIHOKAKE C AT MILFORD NJ (LAT 40 34 06 LONG 075 05 44)

OCT , 19	79			
02	1345		6	
FEB , 19	80			
13	0915		2	
APR				
28	1030	71	60	12
JUN				
04	0930	20	12	. 65
JUL				
21	1000		7	
AUG				
20	0920	80	50	11

01458400 - HARIHOKAKE C NR FRENCHTOWN NJ (LAT 40 32 53 LONG 075 04 09)

OCT . 19	79			
11	1330		5	
FEB , 19				
13	1100		2	
	1530	8.0	4	. 09
28	0915	19	35	1.8
JUN				
	1100	5.4	12	. 17
	1050	2.0	5	.03
20	1000	2.0	42	. 23
MAR 12 APR 28 JUN 04 JUL 21 AUG	1530 0915 1100 1050	8.0 19 5.4 2.0 2.0	4 35 12 5	1.8

	EDIMENT DATA	A, WATER	YEAR OCTO	BER 1979	TO SEPTEMBE	R 1980
					SEDI-	
			OMBRAN	CERT	MENT	
			STREAM- FLOW,	SEDI- MENT,	DIS- CHARGE,	
			INSTAN-	SUS-	SUS-	
	DAME	TIME	TANEOUS	PENDED	PENDED	
	DATE		(CFS)	(MG/L)	(T/DAY)	
01458500 - DE	ELAWARE R A	T FRENCH	TOWN NJ (L	AT 40 31	34 LONG 075	03 55)
	OCT , 19	79				
	17	1230		6		
	MAR , 19	80		20		
	26 JUN	1215		28		
	04	0945		89		
	JUL	00115		7		
	16 AUG	0945		7		
	20	0930		5		
460500 - DELAWARE	E AND RARIT	AN CA AT	KINGSTON I	NJ (LAT 4	0 22 24 LON	IG 074 37 08)
The point of least	DEC , 19	70				
4	10	1445	102	4	1.1	
	MAR , 19	80	441			
	04	1430	114	2	.62	
01460880 - LOC	CKATONG C A	T RAVEN	ROCK NJ (L	AT 40 24	58 LONG 075	01 05)
	FEB , 19	80				
	06	0845		2	100	
	APR	0030	1.11.2	22	8.4	
	29 JUN	0930	142	22	0.4	
	05	1010	5.3	3	.04	
	JUL 21	1150	1.2	2	.01	
	AUG 20	1100	1.2	3	.01	
01461300 - WIC						E0 13)
01401300 - #10	VKEONEOKE O	AI DIOO	KION NO (L	11 40 24	41 Bond of	75 137
	FEB , 19	80				
	06	1100	*	1.	THE RESERVE OF	
	A PR 29	1020	0.2		2.0	
	JUN	1030	83	13	2.9	
	04	1245	9.2	13	. 32	
	JUL 16	1200		5		
	16 AUG	1300		,		
	20	1300		2		
	- ALEXAUKE	N C NR L	AMBERTVILL	E NJ (LAT	40 22 51 I	ONG 074 56 5
01461900	MAR , 19	80	,			
01461900	12	1300	25	12	.81	
01461900				100	16	
01461900	APR	1115	50		10	
01461900		1145	59	100		
01461900	A PR 29 JUN 04	1145 1230	59 6.8	36	. 66	
01461900	A PR 29 JUN 04 JUL	1230	6.8	36		
01461900	A PR 29 JUN 04 JUL 17 AUG	1230 0915		36 37	• 39	
01461900	A PR 29 JUN 04 JUL 17	1230	6.8	36		
01461900 01462000 - DEI	A PR 29 JUN 04 JUL 17 AUG 21	1230 0915 0845	6.8 3.9	36 37 2	• 39 	4 56 57)
	APR 29 JUN 04 JUL 17 AUG 21	1230 0915 0845 LAMBERT	6.8 3.9	36 37 2	• 39 	4 56 57)
	A PR 29 JUN 04 JUL 17 AUG 21	1230 0915 0845 LAMBERT	6.8 3.9	36 37 2	• 39 	4 56 57)
	APR	1230 0915 0845 LAMBERT 79 1130	6.8 3.9	36 37 2 LAT 40 21	• 39 	4 56 57)
	A PR	1230 0915 0845 LAMBERT	6.8 3.9	36 37 2 LAT 40 21	• 39 	(4 56 57)
	APR	1230 0915 0845 LAMBERT 79 1130	6.8 3.9	36 37 2 LAT 40 21	• 39 	(4 56 57)
	A PR	1230 0915 0845 LAMBERT 79 1130 80 0915	6.8 3.9	36 37 2 LAT 40 21 7 31	• 39 	4 56 57)

SUSPENDED SE	DIMENT DAT	A, WATER	YEAR OCTO	DBER 1979 T	O SEPTEMBE	R 1980
					SEDI- MENT	
			STREAM-	SEDI-	DIS-	
			FLOW,		HARGE,	
		22.5	INSTAN-		SUS-	
	DAME	TIME	TANEOUS			
	DATE		(CFS)	(MG/L)	T/DAY)	
01462005 - SW	AN CK AT L	AMBERTVI	LLE NJ (LA	T 40 21 51	LONG 074	56 41)
	OCT , 19	70				
	11	1430	26	5	. 35	
	FEB , 19		20	,		
	06	1245		2		
	APR					
	29	1230	25	8	. 54	
	JUN 05	0900	10	13	• 35	
	JUL	0,000	10	13	• 33	
	17	1015	9.6	8	.21	
	AUG					
	21	0915	7.7	1	.02	
1462500 - DELAWAR	E R AT WAS	HINGTON	CROSSING N	J (LAT 40	17 20 LONG	074 52 08
	OCT , 19	70				
	16	1430		7		
	MAR , 19					
	27	1230		35		
	JUN					
	05	1045		33		
	JUL 17	1045	-	8		
	AUG	1049	7.5	0		
	21	1100		4		

JAN, 1980 28... 1100 13 30 1.1

01463620 - ASSUNPINK C NR CLARKSVILLE NJ (LAT 40 16 11 LONG 074 40 20)

JAN , 1980 10... 1315 31... 1345 11 3 .23 21... 1415 29

01464000 - ASSUNPINK C AT TRENTON NJ (LAT 40 13 27 LONG 074 44 58)

JAN , 1980 08... 1645 FEB 25... 1425 92 11 2.7 116 12

01464500 - CROSSWICKS C AT EXTONVILLE (LAT 40 08 15 LONG 074 36 02)

JAN , 1980 29... 1030 FEB 25... 1105 5 1.3 97 1105 119 7 2.2

01464505 - CROSSWICKS C AT GROVEVILLE NJ (LAT 40 10 26 LONG 074 40 48)

OCT , 1979 10... 1300 JAN , 1980 22... 1145 45 16

01464515 - DOCTORS C AT ALLENTOWN NJ (LAT 40 10 37 LONG 074 35 57)

JAN , 1980 28... 1400

01466500 - MCDONALDS

MAY 28... JUL 22...

1330

1130 1.4

.01

1 .00

ANALISES OF SAMPLE	S COLLECTED AT	SEDIMENT PAR	TIAL-RECOR.	D STATIONS	continued
SUSPENDED SEI	DIMENT DATA, WAT	TER YEAR OCTO	DBER 1979 T	O SEPTEMBER	1980
				SEDI-	
				MENT	
		STREAM-		DIS-	
		FLOW, INSTAN-		HARGE, SUS-	
	TIMI	E TANEOUS	PENDED	PENDED	
	DATE	(CFS)	(MG/L) (T/DAY)	
01464522 - DOCTORS	S C AT RT 130 A	YARDVILLE	J (LAT 40	10 31 LONG 0	74 40 33)
	JAN , 1980				
	22 1430	0	10		
01464531 - BL	ACKS CK AT BORDE	ENTOWN NJ (LA	AT 40 08 14	LONG 074 42	42)
	OCT , 1979				
	01 1100		12		
	JAN , 1980 29 1300)	12		. 4
01464540 - 0	CRAFTS C AT HEDI	DING NJ (LAT	40 06 01 L	ONG 074 45 23	3)
	OCT 1070				
	OCT , 1979 02 1415	5	29		
	JAN , 1980 30 1030)	8		
	30				
01464580 - ASS	SISCUNK C AT COL	LUMBUS NJ (LA	T 40 03 25	LONG 074 43	27)
	OCT , 1979				
	02 1215	5	28	-2	
	FEB , 1980 06 1300)	11		
01464590 - ASSI	SCUNK C NR BURL	INGTON NJ (I	AT 40 04 1	9 LONG 074 47	7 57)
	OCT 1070				
	OCT , 1979 09 1100)	10		
	JAN , 1980		11		
	30 1300		4		
01465835 - SE	RANCOCAS C AT	RETREAT (LAT	39 55 23	LONG 074 43 0	05)
	OCT , 1979				
	02 0930	105	17	4.8	
	FEB , 1980 07 1030	41	8	.89	
A COLUMN TO THE REAL PROPERTY.					
01465850 - SB RA	ANCOCAS C AT VIN	NCENTOWN NJ	LAT 39 56	22 LONG 074 1	15 50)
	FEB , 1980				
	07 1330	53	5	.72	
01465970 - NB RAM	NCOCAS C AT BROW	NS MILLS NJ	(LAT 39 58	04 LONG 074	34 48)
	OCT , 1979				
	03 1000	57	3	. 46	
	FEB , 1980 06 1030	33	2	. 18	
466500 - MCDONALDS	B B IN LEBANON S	STATE FOREST	NJ (LAT 39	53 05 LONG 0	074 30 20)
	NOV , 1979 28 1400	2.6	1	.01	
	JAN , 1980				
	24 1300 MAR		1	.01	
	28 1145 MAY	3.3	1	.01	

SUSPENDED SEDIMENT DATA, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

				SEDI- MENT
		STREAM-	SEDI-	DIS-
		FLOW,	MENT,	CHARGE,
		INSTAN-	SUS-	SUS-
	TIME	TANEOUS	PENDED	PENDED
DATE		(CFS)	(MG/L)	(T/DAY)

01467000 - NB RANCOCAS C AT PEMBERTON NJ (LAT 39 58 10 LONG 074 41 05)

OCT , 19	79			
03	1345	185	6	3.0
JAN , 19	80			
08	1400	131	6	2.1
31	1100	140	2	.76
FEB				
19	1050	139	2	. 75

01467069 - NB PENNSAUKEN C NR MOORESTOWN NJ (LAT 39 57 07 LONG 074 58 10)

OCT , 1979 10... 1000 155 30 13 FEB , 1980 05... 1130 6.6 8 .14

01467081 - SB PENNSAUKEN C AT CHERRY HILL NJ (LAT 39 56 30 LONG 075 00 05)

OCT , 1979 04... 1030 19 29 1.5 JAN , 1980 22... 1100 12 14 .45 FEB 11... 1315 8.6 18 .42

01467120 - COOPER R AT NORCROSS RD AT LINDENWOLD NJ (LAT 39 49 43 LONG 074 58 55)

FEB , 1980 04... 1100 .91 2 .00

01467130 - COOPER R AT KIRKWOOD NJ (LAT 39 50 11 LONG 075 00 06)

JAN , 1980 29... 1330 -- 7 --

01467140 - COOPER R AT LAWNSIDE NJ (LAT 39 52 14 LONG 075 00 59)

OCT , 1979 03... 1300 160 93 40 JAN , 1980 29... 1100 4.0 22 .24

01467150 - COOPER R AT HADDONFIELD NJ (LAT 39 54 11 LONG 075 01 19)

DEC , 1979 07... 1045 43 34 3.9

01467190 - COOPER R AT CAMDEN NJ (LAT 39 55 35 LONG 075 05 03)

OCT , 1979 17... 1100 -- 22 ---FEB , 1980 04... 1400 -- 13 --

01467329 - SB BIG TIMBER C AT BLACKWOOD TERRACE NJ (LAT 39 48 05 LONG 075 04 27)

OCT , 1979 18... 1130 124 18 6.0 JAN , 1980 30... 1100 35 4 .38

ANALYSES OF SAMPLES COLLECTED AT SEDIMENT PARTIAL-RECORD STATIONS--Continued SUSPENDED SEDIMENT DATA, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

				SEDI-
				MENT
		STREAM-	SEDI-	DIS-
		FLOW,	MENT,	CHARGE,
		INSTAN-	SUS-	SUS-
	TIME	TANEOUS	PENDED	PENDED
DATE		(CFS)	(MG/L)	(T/DAY)

01467359 - NB BIG TIMBER C AT GLENDORA NJ (LAT 39 50 04 LONG 075 04 02)

OCT , 1979 18... 1400 -- 14 --JAN , 1980 31... 1000 -- 15 --

01475000 - MANTUA C AT PITMAN NJ (LAT 39 44 14 LONG 075 06 53)

FEB , 1980 06... 0930 9.2 2 .05

01475045 - MANTUA C AT MANTUA NJ (LAT 39 47 42 LONG 075 10 21)

FEB , 1980 06... 1300 -- 8 --

01477100 - RACCOON C NR MULLICA HILL NJ (LAT 39 42 31 LONG 075 12 05)

FEB , 1980 07... 1030 -- 2 --

01477510 - OLDMANS C AT PORCHES MILL NJ (LAT 39 41 57 LONG 075 20 01)

OCT , 1979 18... 1130 33 13 1.2 FEB , 1980 14... 1200 10 34 .92

01482500 - SALEM R AT WOODSTOWN NJ (LAT 39 38 36 LONG 075 19 52)

FEB , 1980 14... 0900 7.2 5 .10 19... 1230 9.4 5 .13

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BURLINGTON COUNTY

395150074284201. Local I.D., Lebanon State Forest 23-D Obs. Unique Well Number, 05-0689. LOCATION.--Lat 39°51'52", long 74°28'48", Hydrologic Unit 02040202, in Lebanon State Forest, in Woodland Township. AQUIFER.--Pleistocene-Cohansey Sand undifferentiated. WELL CHARACTERISTICS.--Drilled water-table observation well, diameter 8 in (203 mm), depth 33 ft (10.06 m), with no

screen.

Soreen.

INSTRUMENTATION.--Water-level recorder.

DATUM.--Land-surface datum is 152.00 ft (46.330 m) National Geodetic Vertical Datum of 1929.

Measuring point: Top of 8 inch casing, 0.7 ft (0.21 m) above land-surface datum.

PERIOD OF RECORD.--September 1955 to April 1975, January 1979 to current year. Records for 1955 to 1975 are unpublished and are available in files of New Jersey District Office.

EXTREMES FOR PERIOD OF RECORD.--Highest water level, 15.09 ft (4.599 m) below land-surface datum, Sept. 11, 1958; lowest water level, 26.52 ft (8.083 m) below land-surface datum, Feb. 19-20, 1966.

EXTREMES FOR CURRENT YEAR.--Highest water level, 17.79 ft (5.422 m) below land-surface datum, Oct. 1; lowest water level, 21.32 ft (6.498 m) below land-surface datum, Sept. 30.

WATER LEVEL, IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980 MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	17.89	18.64	19.15	19.59	19.90	20.11	19.84		18.42	18.90	19.70	20.60
10	18.05	18.69	19.25	19.73	19.87	20.17	19.49		18.46	19.01	19.84	20.74
15	18.20	18.78	19.35	19.76	19.92	20.28	19.13		18.51	19.15	19.98	20.88
20	18.34	18.89	19.42			20.34		18.33	18.61	19.27	20.12	21.03
25	18.42	18.98	19.41	19.84	20.00	20.36		18.29	18.72	19.40	20.28	21.17
EOM	18.56	19.07	19.55	19.85		20.16		18.37	18.79	19.56	20.45	21.31
MEAN	18.20	18.80	19.33	19.75	19.94	20.24	19.64	18.35	18.56	19.17	20.01	20.90
WTR YR	1980	MEAN	19.44	HIGH	17.79 OCT	1	LOW	21.31 SEF	30			

BURLINGTON COUNTY

395525074502501. Local I.D., Medford 5 Obs. Unique Well Number, 05-0261. LOCATION.--Lat 39°55'25", long 74°50'25", Hydrologic Unit 02040202, at Medford Public Shooting Grounds, Medford Township.

Township.
Owner: U.S. Geological Survey.

AQUIFER.--Potomac-Raritan-Magothy aquifer system of Cretaceous age.

WELL CHARACTERISTICS.--Drilled artesian observation well, diameter 6 in (152 mm), depth 750 ft (229 m), screened 740 to 750 ft (226 to 229 m).

INSTRUMENTATION.--Water-level recorder.

DATUM.--Land-surface datum is 72.60 ft (22.128 m) National Geodetic Vertical Datum of 1929.

Measuring point: Top edge of recorder shelf, 3.6 ft (1.10 m) above land-surface datum.

PERIOD OF RECORD.--January 1968 to March 1975, March 1977 to current year. Records for 1968 to 1977 are unpublished and are available in files of New Jersey District Office.

FXTREMES FOR PERIOD OF RECORD.--Highest water level. 94.46 ft (28.791 m) below land-surface datum. Mar. 1. 1968:

EXTREMES FOR PERIOD OF RECORD. -- Highest water level, 94.46 ft (28.791 m) below land-surface datum, Mar. 1, 1968;

lowest water level, 126.41 ft (38.530 m) below land-surface datum, Sept. 19, 1980.

EXTREMES FOR CURRENT YEAR.--Highest water level, 117.77 ft (35.896 m) below land-surface datum, Mar. 21; lowest water level, 126.41 ft (38.530 m) below land-surface datum, Sept. 19.

WATER LEVEL, IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	121.09	120.64	119.44	119.01	118.59	118.19	117.99	117.92	119.54	122.65	124.63	125.57
10	121.10	120.20	119.52	119.21	118.38	118.20	117.93	118.17	119.85	122.87	124.55	125.87
15	121.00	120.05	119.58	118.86	118.41	118.30	117.84	118.27	120.14	123.28	124.56	126.13
20	120.92	119.97	119.54	118.80	118.32	118.25	118.02		120.59	123.85	124.55	126.35
25	120.74	119.84	119.01	118.54	118.27	118.02	117.99	118.29	121.25	124.28	124.63	126.26
EOM	120.89	119.66	119.13	118.57	118.37	118.01	117.99	118.92	122.05	124.57	125.09	126.10
MEAN	120.95	120.10	119.40	118.87	118.41	118.21	118.03	118.27	120.38	123.46	124.64	125.99
WTR YR	1980	MEAN 1	20.56	HIGH 11	7.83 APR	23	LOW	126.37 SEP	19			

BURLINGTON COUNTY

395524074502501. Local I.D., Medford 1 Obs. Unique Well Number, 05-0258. LOCATION.--Lat 39°55'24", long 74°50'25", Hydrologic Unit 02040202, at Medford Public Shooting Grounds, Medford Township.

Township.
Owner: U.S. Geological Survey.

AQUIFER.--Potomac-Raritan-Magothy aquifer system of Cretaceous age.

AQUIFER.--Potomac-Raritan-Magothy aquifer system of Cretaceous age.

WELL CHARACTERISTICS.--Drilled artesian observation well, diameter 6 in (152 mm), depth 410 ft (125.0 m), screened
400 to 410 ft (121.9 to 125.0 m).

October 1963 to August 1975. water-level recorder.

400 to 410 ft (121.9 to 125.0 m).

INSTRUMENTATION.--Water-level extremes recorder. October 1963 to August 1975, water-level recorder.

DATUM.--Land-surface datum is 70.77 ft (21.571 m) National Geodetic Vertical Datum of 1929.

Measuring point: Front edge of cutout in recorder housing 2.87 ft (0.875 m) above land-surface datum.

PERIOD OF RECORD.--October 1963 to August 1975, February 1977 to current year. Records for 1963 to 1975 are unpublished and are available in files of New Jersey District Office.

EXTREMES FOR PERIOD OF RECORD.--Highest water level, 85.22 ft (25.975 m) below land-surface datum, Feb. 16, 19, 1964; lowest water level, 132.78 ft (40.471 m) below land-surface datum, between June 5 and Sept. 18, 1980.

EXTREMES FOR CURRENT YEAR.--Highest water level, 121.31 ft (36.975 m) below land-surface datum, between Mar. 4 and June 5; lowest water level, 132.78 ft (40.471 m) below land-surface datum, between June 5 and Sept. 18.

WATER LEVEL, IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

	WATER		WATER		WATER		WATER
DATE	LEVEL	DATE	LEVEL	DATE	LEVEL	DATE	LEVEL
DEC 7	122.78	MAR 4	121.80	JUN 5	123.98	SEP 18	132.02

BURLINGTON COUNTY

395524074502502. Local I.D., Medford 2 Obs. Unique Well Number, 05-0259. LOCATION.--Lat 39°55'24", long 74°50'25", Hydrologic Unit 02040202, at Medford Public Shooting Grounds, Medford

Owner: U.S. Geological Survey.

AQUIFER.--Englishtown Sand of Cretaceous age.

WELL CHARACTERISTICS.--Drilled artesian observation well, diameter 6 in (152 mm), depth 263 ft (80.2 m), screened 253 to 263 ft (77.1 to 80.2 m).

253 to 263 ft (77.1 to 80.2 m).

INSTRUMENTATION.--Water-level extremes recorder. October 1963 to August 1975, water-level recorder.

DATUM.--Land-surface datum is 72.92 ft (22.226 m) National Geodetic Vertical Datum of 1929.

Measuring point: Front edge of cutout in recorder housing 3.40 ft (1.036 m) above land-surface datum.

PERIOD OF RECORD.--October 1963 to August 1975, February 1977 to current year. Records for 1963 to 1975 are unpublished and are available in files of New Jersey District Office.

EXTREMES FOR PERIOD OF RECORD.--Highest water level, 45.42 ft (13.844 m) below land-surface datum, April 27, 1973; lowest water level, 111.96 ft (34.125 m) below land-surface datum, July 9, 1964.

EXTREMES FOR CURRENT YEAR.--Highest water level, 46.44 ft (14.155 m) below land-surface datum, between Dec. 7 and Mar. 4; lowest water level, 68.10 ft (20.757 m) below land-surface datum, between June 5 and Sept. 18.

WATER LEVEL, IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

	WATER		WATER		WATER		WATER
DATE	LEVEL	DATE	LEVEL	DATE	LEVEL	DATE	LEVEL
DEC 7	47.65	MAR 4	47.47	JUN 5	46.92	SEP 18	55.46

BURLINGTON COUNTY

395525074502601. Local I.D., Medford 4 Obs. Unique Well Number, 05-0262. LOCATION.--Lat 39°55'24", long 74°50'25", Hydrologic Unit 02040202, at Medford Public Shooting Grounds, Medford Township.

U.S. Geological Survey.

AQUIFER.--Potomac-Raritan-Magothy aquifer system of Cretaceous age.
WELL CHARACTERISTICS.--Drilled artesian observation well, diameter 6 in (152 mm), depth 1,145 ft (349.0 m), screened
1,125 to 1,145 ft (342.9 to 349.0 m).

1,125 to 1,145 ft (342.9 to 349.0 m).

INSTRUMENTATION.--Water-level extremes recorder. January 1968 to July 1975, water-level recorder.

DATUM.--Land-surface datum is 72.32 ft (22.043 m) National Geodetic Vertical Datum of 1929.

Measuring point: Front edge of cutout in recorder housing 2.56 ft (0.780 m) above land-surface datum.

PERIOD OF RECORD.--January 1968 to July 1975, February 1977 to current year. Records for 1968 to 1975 are unpublished and are available in files of New Jersey District Office.

EXTREMES FOR PERIOD OF RECORD.--Highest water level, 94.24 ft (28.724 m) below land-surface datum, Mar. 13, 1968; lowest water level, 125.51 ft (38.255 m) below land-surface datum, between June 5 and Sept. 18, 1980.

EXTREMES FOR CURRENT YEAR.--Highest water level, 117.26 ft (35.741 m) below land-surface datum, between Mar. 4 and June 5; lowest water level, 125.51 ft (38.255 m) below land-surface datum, between June 5 and Sept. 18.

WATER LEVEL, IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
DEC 7	118.78	MAR 4	117.74	JUN 5	118.74	SEP 18	125.43

BURLINGTON COUNTY

400242074422301. Local I.D., Rhodia Corp. 1 Obs. Unique Well Number, 05-0440. LOCATION.--Lat 40°02'42", long 74°42'23", Hydrologic Unit 02040201, on the lands of Rhodia Corporation near Jobstown. Owner: Rhodia Corporation.

AQUIFER.--Potomac-Raritan-Magothy aquifer system of Cretaceous age.
WELL CHARACTERISTICS.--Drilled artestian observation well, diameter 8 in (203 mm), depth 613 ft (186.8 m), screened 603 to 613 ft (183.8 to 186.8 m).

INSTRUMENTATION. --Water-level extremes recorder. December 1968 to March 1975, water-level recorder.

DATUM.--Land-surface datum is 71.65 ft (21.839 m) National Geodetic Vertical Datum of 1929.

Measuring point: Front edge of cutout in recorder housing 2.22 ft (0.677 m) above land-surface datum.

PERIOD OF RECORD. --December 1968 to March 1975, April 1977 to current year. Records for 1968 to 1975 are unpublished and are available in files of New Jersey District Office.

EXTREMES FOR PERIOD OF RECORD.--Highest water level, 86.55 ft (26.380 m) below land-surface datum, Dec. 31, 1969; lowest water level, 104.13 ft (31.739 m) below land-surface datum, between Apr. 28 and Aug. 8, 1977. EXTREMES FOR CURRENT YEAR.--Highest water level, 96.25 ft (29.337 m) below land-surface datum, between Mar. 4 and May 23; lowest water level, 101.61 ft (30.971 m) below land-surface datum, between Aug. 15, 1979 and Jan. 24, 1980.

WATER LEVEL, IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

	WATER		WATER		WATER		WATER		WATER
DATE	LEVEL	DATE	LEVEL	DATE	LEVEL	DATE	LEVEL	DATE	LEVEL
JAN 24	97.06	MAR 4	97.13	MAY 23	96.46	JUN 20	97.68	AUG 25	100.29

BURLINGTON COUNTY

400213074510801. Local I.D., Willingboro 1 Obs. Unique Well Number, 05-0063. LOCATION.--Lat 40°02'13", long 74°51'08", Hydrologic Unit 02040202, located along the west side of Rancocas Road about 2 mi (3.2 km) north of Rancocas.

Owner: Willingboro Municipal Utilities Authority. AQUIFER.--Potomac-Raritan-Magothy aquifer system of Cretaceous age.

AQUIFER.--Potomac-Raritan-Magothy aquifer system of Cretaceous age.

WELL CHARACTERISTICS.--Drilled artesian observation well, diameter 6 in (152 mm), depth 294 ft (89.6 m), screened 284 to 294 ft (86.6 to 89.6 m).

INSTRUMENTATION.--Water-level extremes recorder. March 1966 to September 1975, water-level recorder.

DATUM.--Land-surface datum is 45.45 ft (13.853 m) National Geodetic Vertical Datum of 1929.

Measuring point: Front edge of cutout in recorder housing, 0.76 ft (0.232 m) above land-surface datum.

PERIOD OF RECORD.--March 1966 to September 1975, February 1977 to current year. Records for 1966 to 1975 are unpublished and are available in files of New Jersey District Office.

EXTREMES FOR PERIOD OF RECORD.--Highest water level, 46.25 ft (14.097 m) below land-surface datum, Mar. 19, 1966; lowest water level, 68.47 ft (20.870 m) below land-surface datum, between July 12 and Sept. 22, 1977.

EXTREMES FOR CURRENT YEAR.--Highest water level, 60.02 ft (18.294 m) below land-surface datum, between Apr. 22 and July 25; lowest water level, 66.48 ft (20.263 m) below land-surface datum, between Apr. 22 and July 25.

WATER LEVEL, IN FEET BELOW LAND SURFACE DATUM. WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

	WATER		WATER		WATER		WATER
DATE	LEVEL	DATE	LEVEL	DATE	LEVEL	DATE	LEVEL
JAN 17	60.75	MAR 4	61.28	APR 22	60.70	JUL 25	65.98

BURLINGTON COUNTY

400010074521601. Local I.D., Willingboro 2 Obs. Unique Well Number, 05-0645.

LOCATION.--Lat 40°00'10", long 74°52'16", Hydrologic Unit 02040202, at Bridge Street and Tiffany Lane, Willingboro. Owner: Willingboro Municipal Utilities Authority.

AQUIFER.--Potomac-Raritan-Magothy aquifer system of Cretaceous age.

WELL CHARACTERISTICS.--Drilled artesian observation well, diameter 6 in (152 mm), depth 441 ft (134.4 m), screened 431 to 441 ft (131.4 to 134.4 m).

INSTRUMENTATION.--Water-level recorder.

DATUM.--Land-surface datum is 40.30 ft (12.283 m) National Geodetic Vertical Datum of 1929.

Measuring point: Top edge of recorder shelf, 2.0 ft (0.61 m) below land-surface datum.

PERIOD OF RECORD.--March 1966 to March 1975, March 1977 to current year. Records for 1966 to 1975 are unpublished and are available in files of New Jersey District Office.

EXTREMES FOR PERIOD OF RECORD.--Highest water level, 49.79 ft (15.176 m) below land-surface datum, June 21, 1967; lowest water level, 79.00 ft (24.079 m) below land-surface datum, July 29, 1977.

EXTREMES FOR CURRENT YEAR.--Highest water level, 68.73 ft (20.949 m) below land-surface datum, Apr. 29; lowest water level, 78.25 ft (23.851 m) below land-surface datum, July 22.

WATER LEVEL, IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980 MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5		71.31	70.05	70.37	70.35	70.14		69.09	71.81	76.13	76.06	76.79
10		71.06	69.83	70.72	70.21	70.11		69.60	72.29	76.20	75.88	76.35
15		71.13	70.08	70.47	70.28	70.17		69.13	72.69	77.52	75.55	76.73
		70.76		70.39	70.28			69.12	73.26	77.43	75.24	76.15
20 25		70.48		70.09	70.32		69.29	69.25	75.61	77.23	75.51	76.36
EOM		70.30		70.24	70.32		68.98	70.91	76.47	76.32	76.47	76.20
MEAN		70.91	70.10	70.38	70.28	70.14		69.44	73.32	76.88	75.72	76.47
WTR YR 19	980	MEAN	72.38	HIGH 68	.90 APR	29	LOW	78.11 JUL	. 22			

CAMDEN COUNTY

394922074563301. Local I.D., New Jersey Water Company, Elm Tree Farm 2 Obs. Unique Well Number, 07-0412. LOCATION.--Lat 39°49'22", long 74°56'30", Hydrologic Unit 02040202, about 200 ft (61.0 m) northeast of Thomas Road and about 2 mi (3.2 km) northwest of Berlin.

Owner: New Jersey Water Company.

AQUIFER.--Potomac-Raritan-Magothy aquifer system of Cretaceous age.

WELL CHARACTERISTICS.--Drilled artesian observation well, diameter 6 in (152 mm), depth 1,092 ft (332.8 m), screened

WELL CHARACTERISTICS.—Drilled artesian observation well, diameter 6 in (152 mm), depth 1,092 ft (332.8 m), screened 1,082 to 1,092 ft (329.8 to 332.8 m).

INSTRUMENTATION.—Water-level extremes recorder. January 1963 to June 1975, water-level recorder.

DATUM.—Land-surface datum is 148.68 ft (45.318 m) National Geodetic Vertical Datum of 1929.

Measuring point: Front edge of cutout in recorder housing 1.76 ft (0.536 m) above land-surface datum.

REMARKS.—Well was originally screened 1,217 to 1,227 ft (370.9 to 374.0 m). Rehabilitated August 1969.

PERIOD OF RECORD.—January 1963 to June 1975, February 1977 to current year. Records for 1963 to 1975 are unpublished and are available in files of New Jersey District Office.

EXTREMES FOR PERIOD OF RECORD.—Highest water level, 166.06 ft (50.615 m) below land-surface datum, July 21, 1965; lowest water level, 223.32 ft (68.068 m) below land-surface datum, between July 15 and Sept. 24, 1980.

EXTREMES FOR CURRENT YEAR.—Highest water level, 207.08 ft (63.118 m) below land-surface datum, between Oct. 10 and Dec. 15; lowest water level, 223.32 ft (68.068 m) below land-surface datum, between July 15 and Sept. 24.

WATER LEVEL, IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

-	WATER	200	WATER	Succession	WATER		WATER		WATER	400	WATER
DATE	LEVEL	DATE	LEVEL	DATE	LEVEL	DATE	LEVEL	DATE	LEVEL	DATE	LEVEL
OCT 10	209.14	DEC 15	210.46	FEB 26	211.41	APR 29	211.70	JUL 15	219.59	SEP 24	222.90

CAMDEN COUNTY

394922074563302. Local I.D., NJ WC Elm Tree Farm 3 Obs. Unique Well Number, 07-0413. LOCATION.--Lat 39°49'22", long 74°56'30", Hydrologic Unit 02040202, about 200 ft (60 m) northeast of Thomas Road and about 2 mi (3 km) northwest of Berlin.

Owner: New Jersey Water Company.

AQUIFER.--Potomac-Raritan-Magothy aquifer system of Cretaceous age.

WELL CHARACTERISTICS.--Drilled artesian observation well, diameter 6 in (152 mm), depth 717 ft (218.5 m), screened

TO6 to 717 ft (215.2 to 218.5 m).

INSTRUMENTATION.—Water-level recorder.

DATUM.—Land-surface datum is 148.70 ft (45.324 m) National Geodetic Vertical Datum of 1929.

Measuring point: Top edge of recorder shelf, 0.6 ft (0.18 m) above land-surface datum.

PERIOD OF RECORD.—December 1963 to April 1975, March 1977 to current year. Records for 1963 to 1977 are unpublished

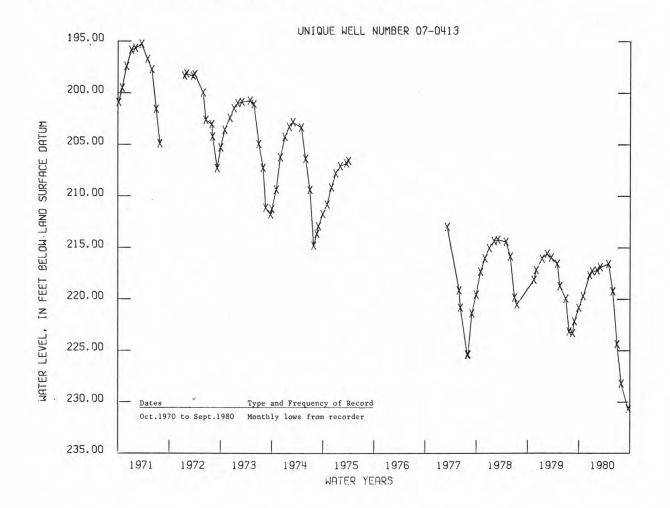
and are available in files of New Jersey District Office.

EXTREMES FOR PERIOD OF RECORD.—Highest water level, 174.21 ft (53.099 m) below land-surface datum, Feb. 6, 1964; lowest water level, 230.66 ft (70.305 m) below land-surface datum, Sept. 19-20, 1980.

EXTREMES FOR CURRENT YEAR.—Highest water level, 215.61 ft (65.718 m) below land-surface datum, Apr. 4; lowest water level, 230.66 ft (70.305 m) below land-surface datum, Sept. 19-20.

WATER LEVEL, IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980 MEAN VALUES

DAY	ост	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	220.56	219.47		217.25	217.12	216.77		216.68	220.04	225.63	228.06	228.93
10	220.28	219.20		217.26	217.17	216.62		217.22	220.52	225.75	227.59	229.73
15	220.08	218.96	217.66	217.08	217.17	216.49		217.67	220.80	226.03	227.36	230.27
20	220.03	218.84	217.52	217.09	217.00	216.51		218.04	221.34	227.10	227.17	230.65
25	219.73		217.23	216.87	216.88	216.11		218.30	222.17	227.90	227.09	230.14
EOM	219.71		217.27	217.07	216.82	215.90	216.54	219.14	224.12	228.18	227.80	229.55
MEAN	220.12	219.15	217.41	217.11	217.03	216.46		217.69	221.16	226.57	227.52	229.78
WTR YR	1980	MEAN 2	21.01	HIGH 21	5.69 APR	4	LOW	230.65 SE	P 20			



CAMDEN COUNTY

395229074571201. Local I.D., Hutton Hill 1 Obs. Unique Well Number, 07-0117.
LOCATION.--Lat 39°52'29", long 74°57'12", Hydrologic Unit 02040202, about 800 ft (243.8 m) northeast of the intersection Kresson and Cropwell Roads, Cherry Hill Township. Owner: New Jersey Water Company. AQUIFER.--Potomac-Raritan-Magothy aquifer system of Cretaceous age.
WELL CHARACTERISTICS.--Drilled artesian observation well, diameter 6 in (152 mm), depth 562 ft (171.3 m), screened 552 to 562 ft (168.2 to 171.3 m). S52 to 562 ft (168.2 to 171.3 m).

INSTRUMENTATION.--Water-level extremes recorder. August 1967 to April 1975, water-level recorder.

DATUM.--Land-surface datum is 157.61 ft (48.040 m) National Geodetic Vertical Datum of 1929.

Measuring point: Front edge of cutout in recorder housing 1.89 ft (0.576 m) above land-surface datum.

PERIOD OF RECORD.--August 1967 to April 1975, February 1977 to current year. Records for 1967 to 1975 are unpublished and are available in files of New Jersey District Office.

EXTREMES FOR PERIOD OF RECORD.--Highest water level, 200.77 ft (61.195 m) below land-surface datum, Mar. 23, 1968; lowest water level, 250.65 ft (76.398 m) below land-surface datum, between July 15 and Sept. 24, 1980.

EXTREMES FOR CURRENT YEAR.--Highest water level, 229.21 ft (69.863 m) below land-surface datum, between Feb. 26 and Apr. 29; lowest water level, 250.65 ft (76.398 m) below land-surface datum, between July 15 and Sept. 24.

WATER LEVEL, IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

DATE	WATER LEVEL								
DEC 15	231.94	FEB 26	230.91	APR 29	231.89	JUL 15	247.13	SEP 24	247.68

CUMBERLAND COUNTY

391828075120902. Local I.D., Jones Island 2 Obs. Unique Well Number, 11-0096. LOCATION.--Lat 39°18'29", long 75°12'08", Hydrologic Unit 02040206, about 1.7 mi (2.7 km) south of Cedarville at Jones Island, Lawrence Township. Cumberland County.

AQUIFER.--Piney Point Formation of Eocene age.
WELL CHARACTERISTICS.--Drilled artesian observation well, diameter 4 in (102 mm), depth 375 ft (114 m), screened 365 to 375 ft (111 to 114 m).
INSTRUMENTATION.--Water-level recorder.

DATUM.--Land-surface datum is 10.10 ft (3.078 m) National Geodetic Vertical Datum of 1929.

Measuring point: Top edge of recorder shelf, 1.9 ft (0.579 m) above land-surface datum.

PERIOD OF RECORD.--March 1977 to current year.

EXTREMES FOR PERIOD OF RECORD.—Highest water level, 19.99 ft (6.093 m) below land-surface datum, Mar. 22, 1977; lowest water level, 27.93 ft (8.513 m) below land-surface datum, Sept. 29, 1980.

EXTREMES FOR CURRENT YEAR.—Highest water level, 26.12 ft (7.961 m) below land-surface datum, Oct. 5; lowest water level, 27.93 ft (8.513 m) below land-surface datum, Sept. 29.

WATER LEVEL, IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980 MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5 10	26.23 26.41	26.65 26.47	26.75		26.82 26.67	26.71 26.74	26.63 26.61	26.62 26.79	27.01 26.95	27.06 27.13	27.39 27.42	27.72 27.70
15 20 25	26.57 26.55 26.52	26.57 26.61 26.61	26.74 26.68 26.36	26.64	26.77 26.71 26.69	26.91 26.86 26.63	26.49 26.77 26.68	26.84 26.82 26.71	26.94 27.00 27.15	27.27 27.38 27.34	27.42 27.47 27.55	27.71 27.81 27.72
EOM	26.68	26.62			26.83	26.55	26.60	26.93	26.97	27.30	27.60	27.78
MEAN	26.47	26.56	26.64	26.63	26.74	26.77	26.69	26.78	27.02	27.23	27.46	27.74
WTR YR	1980	MEAN	26.89	HIGH 2	6.23 OCT	5	LOW	27.85 SEF	27 AND	OTHERS		

GLOUCESTER COUNTY

394942075131701. Local I.D., Shell Chemical 5 Obs. Unique Well Number, 15-0296.
LOCATION.--Lat 39°49'42", long 75°13'17", Hydrologic Unit 02040202, near the intersection of Mantua Grove Road and Route 295, West Deptford Township.

Route 295, West Deptford Township.

Owner: Shell Chemical Company.

AQUIFER: --Potomac-Raritan-Magothy aquifer system of Cretaceous age.

WELL CHARACTERISTICS.--Drilled artesian observation well, diameter 6 in (152 mm), depth 327 ft (99.7 m), screened 322 to 327 ft (98.1 to 99.7 m).

INSTRUMENTATION.--Water-level recorder.

DATUM.--Land-surface datum is 20.76 ft (6.328 m) National Geodetic Vertical Datum of 1929.

Measuring point: Top edge of recorder shelf, 2.9 ft (0.88 m) above land-surface datum.

REMARKS.--Water levels in this well are affected by nearby pumping.

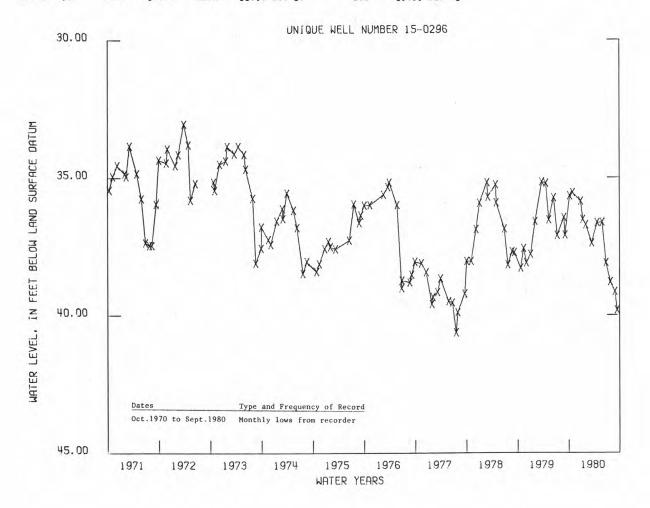
PERIOD OF RECORD.--June 1962 to current year. Records for 1962 to 1977 are unpublished and are available in files of New Jersey District Office.

EXTREMES FOR PERIOD OF RECORD.--Highest water level, 27.75 ft (8.458 m) below land-surface datum, Dec. 6, 1962; lowest water level, 40.63 ft (12.384 m) below land-surface datum, July 21, 1977.

EXTREMES FOR CURRENT YEAR.--Highest water level, 33.66 ft (10.260 m) below land-surface datum, Dec. 1; lowest water level, 39.82 ft (12.137 m) below land-surface datum, Sept. 12-13.

WATER LEVEL, IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980 MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	34.87	35.03	34.72	35.57	35.98	36.55	35.78	35.46	36.33	37.12	38.07	38.86
10	35.29	34.42	35.10	35.73	36.04	36.60	35.74	35.61	36.33	37.48	38.18	39.30
15	35.05	34.97	35.26		36.26	36.90	35.66	35.68	36.40	38.36	38.30	39.34
20	35.03	34.98	35.41	35.69	36.19	36.65	36.16	35.42	36.42	38.00	38.17	39.10
25	35.37	35.03			36.19	36.55	36.41	35.48	37.46	38.04	38.41	39.04
EOM	35.25	33.96	35.64		36.45	36.14	35.82	36.32	37.37	37.99	38.70	38.58
MEAN	35.15	34.76	35.18	35.68	36.13	36.60	36.00	35.64	36.68	37.86	38.25	39.08
WTR YR	1980	MEAN	36.42	HIGH 33	.96 NOV 3	10	LOW	39.59 SEF	13			



HUNTERDON COUNTY

402644074563601. Local I.D., Bird Obs. Unique Well Number, 19-0002. LOCATION.--Lat 40°26'44", long 74°56'36", Hydrologic Unit 02040105, at U.S. Post Office, Sergeantsville.

Owner: Phillip Fleming.

AQUIFER.--Stockton Formation of Triassic age.

WELL CHARACTERISTICS.--Dug water-table observation well, diameter 36 in (914 mm), depth 21 ft (6.4 m), lined with

stone.

INSTRUMENTATION.--Water-level recorder.

DATUM.--Land-surface datum is 342.00 ft (104.242 m) National Geodetic Vertical Datum of 1929.

Measuring point: Top edge of recorder shelf, 1.5 ft (0.46 m) above land-surface datum.

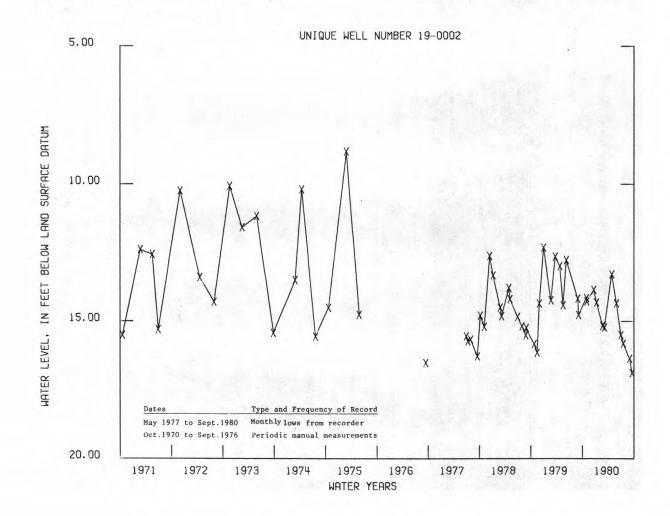
PERIOD OF RECORD.--June 1965 to July 1970, May 1977 to current year. Periodic manual measurements, September 1970 to September 1976. Records for 1965 to 1970 are unpublished and are available in files of New Jersey District Office.

EXTREMES FOR PERIOD OF RECORD. --Highest water level, 6.91 ft (2.106 m) below land-surface datum, Mar. 28-29, 1978 and Apr. 2, 1980; lowest water level, 16.88 ft (5.145 m) below land-surface datum, Sept. 18-20, 1980.

EXTREMES FOR CURRENT YEAR. --Highest water level, 6.91 ft (2.106 m) below land-surface datum, Apr. 2; lowest water level, 16.88 ft (5.145 m) below land-surface datum, Sept. 18-20.

WATER LEVEL, IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

						LIN WILL	_					
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	10.53	11.77	13.28			15.14	7.41	12.02	14.13	15.60	15.45	16.46
10	11.29	12.40				14.95	8.68	12.80	14.46	15.68	15.48	16.64
15	10.58	11.94			15.00	13.77	9.73	12.37	14.77	15.77	15.82	16.80
20	12.09	12.72	13.52		15.07	10.67	11.56	13.14	15.14	15.62	16.02	16.87
25	13.31	13.61			14.77	7.82	12.89	13.43	15.35	15.53	16.18	16.78
EOM	14.11	12.56	12.80	13.79	14.84	8.17	11.49	14.31	15.49	15.62	16.35	16.75
MEAN	11.80	12.68	13.32	13.39	14.73	12.10	10.10	12.90	14.83	15.64	15.85	16.69
WTR YR	1980	MEAN	13.68	HTGH	6. 95 A PR	2	LOW .	16. 88 SEI	P 19			



SALEM COUNTY

394037075191501. Local I.D., Point Airy Obs. Unique Well Number, 33-0187.
LOCATION.--Lat 39°40'37", long 75°19'14", Hydrologic Unit 02040206, at intersection of Point Airy and Woodstown-Swedesboro Roads, 1 mi (1.61 km) north of Woodstown Borough boundary.
Owner: U.S. Geological Survey.

AQUIFER.--Potomac-Raritan-Magothy aquifer system of Cretaceous age.

WELL CHARACTERISTICS.--Drilled artesian observtion well, diameter 6 in (152 mm), depth 672 ft (204.8 m), screened 664 to 672 ft (202.4 to 204.8 m).

INSTRUMENTATION.--Water-level recorder.

DATUM.--Land-surface datum is 73.00 ft (22.250 m) National Geodetic Vertical Datum of 1929.

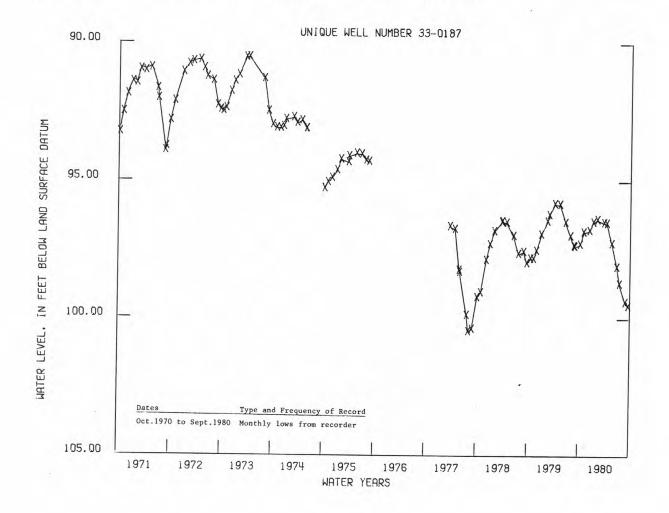
Measuring point: Top of 6 inch casing, 1.8 ft (0.55 m) above land-surface datum.

PERIOD OF RECORD.--February 1959 to August 1975, March 1977 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level, 78.55 ft (23.942 m) below land-surface datum, Mar. 6, 1959; lowest water level, 100.52 ft (30.638 m) below land-surface datum, Aug. 6-7, 1977.

EXTREMES FOR CURRENT YEAR.--Highest water level, 95.86 ft (29.218 m) below land-surface datum, Mar. 25; lowest water level, 99.58 ft (30.352 m) below land-surface datum, Sept. 19.

	W	ATER LEVI	EL, IN FEE	T BELOW LAN		DATUM, N VALUE		R OCTOBER	1979 TO	SEPTEMBER	1980	
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5 10 15 20 25 EOM	96.87 97.14 97.08 97.10 96.95 96.85	96.79 96.59 96.53 96.58 96.57 96.67	96.52	96.29 96.43 96.13 96.15 96.11 96.21	96.19 96.11 96.23 96.02 96.05 96.34	96.21 96.13 96.37 96.36 96.03	96.06 96.20 96.03 96.32 96.30 96.21	96.45 96.60 96.74 96.60 97.07 97.00	97.21 96.92 96.97 97.18 97.50 97.87	97.82 97.88 98.32 98.55 98.43 98.50	98.40 98.54 98.67 98.67 98.89 99.10	99.36 99.25 99.17 99.31 99.32 99.11
MEAN	97.00	96.62	96.49	96.21	96.17	96.24	96.25	96.68	97.23	98.20	98.73	99.22
WTR YR	1980	MEAN	97.09	HIGH 95.	94 JAN 22		LOW	99.49 SEP	19			



WARREN COUNTY

405050075033201. Local I.D., Hoffmann LaRoche 4 Obs. Unique Well Number, 41-0013.

LOCATION.--Lat 40°50'50", long 75°03'32", Hydrologic Unit 02040105, 1 mi (1.6 km) northeast of Belvidere on Route 46.

Owner: Hoffmann LaRoche, Inc.

AQUIFER.--Glacial till of Pleistocene age.

WELL CHARACTERISTICS.--Drilled semi-artesian observation well, diameter 8 in (203 mm), depth 128 ft (39.0 m).

INSTRUMENTATION.--Water-level recorder.

DATUM.--Land-surface datum is 290.30 ft (88.483 m) National Geodetic Vertical Datum of 1929.

Measuring point: Top edge of recorder shelf, 2.2 ft (0.67 m) above land-surface datum.

PERIOD OF RECORD.--September 1960 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level, 30.10 ft (9.174 m) below land-surface datum, July 5, 1972; lowest water level, 46.59 ft (14.201 m) below land-surface datum, Sept. 18, 1977.

EXTREMES FOR CURRENT YEAR.--Highest water level, 34.53 ft (10.525 m) below land-surface datum, Apr. 22-23; lowest water level, 45.17 ft (13.768 m) below land-surface datum, Oct. 1.

WATER LEVEL, IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980 MEAN VALUES

	DAY	OCT	NO	V DE	C JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
	5	44.71	43.46	42.49	41.83	43.27	44.38	37.55	35.36	38.76	40.61	41.83	42.66
	10	43.93	43.23	42.50	42.19	43.63	44.39	36.36	35.77	39.18	40.75	41.95	42.77
	15	43.36	43.30	42.80	42.58	43.90	43.86	35.36	36.33	39.53	41.08	42.13	42.89
	20	43.16	43.43		42.93	44.15	43.25	34.67	36.95	39.87	41.28	42.29	42.96
	25	43.23	43.20		43.21	44.26	41.66	34.60	37.50	40.18	41.39	42.42	43.04
	EOM	43.48	42.82	42.20	43.29	44.35	39.06	35.21	38.25	40.44	41.63	42.55	43.13
1	MEAN	43.73	43.31	42.69	42.62	43.83	43.03	35.86	36.54	39.52	41.05	42.15	42.87
,	WTR YR	1980	MEAN	41.43	HIGH 3	4.54 APR 2	3	LOW	45.13 OCT	1			

WATER QUALITY DATA, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

CAMDEN COUNTY

WELL NUMBER	LOCAL IDENT- I- FIER	LAT- I- TUDE	LONG- I- TUDE	SEQ.	GEO- LOGIC UNIT	DATE OF SAMPLE	TEMPER- ATURE, WATER (DEG C)	SPE- CIFIC CON- DUCT- ANCE (MICRO- MHOS)	PH FIELD (UNITS)	CHLO- RIDE, DIS- SOLVED (MG/L AS CL)
8	BELLMAWR BORO WD 4 BELLMAWR BORO WD 3 BELLMAWR BORO WD 1 BROOKLAWN BORO WD 4-67 NJ ZINC CO 4-DEEP	39 51 46	075 05 42	01	21 1MGRR	80-07-02	14.0	189	7.3	2.7
12		39 52 19	075 06 38	01	21 1MGRR	80-07-02	14.5	208	7.2	5.9
13		39 52 20	075 06 36	01	21 1MGRR	80-07-02	13.5	243	7.2	3.8
517		39 52 43	075 07 24	01	21 1MGRR	80-08-27	15.0	662	6.8	26
194		39 53 08	075 07 44	01	21 1MGRR	80-07-03	14.5	480	6.4	24
195	NJ ZINC CO 5-DEEP	39 53 08	075 07 49	01	211MGRR	80-07-03	14.0	605	6.5	30
210	GLOUCESTER CITY WD 42	39 53 43	075 06 52	01	211MGRR	80-07-07	15.0	250	6.2	21
221	GLOU CITY CG BASE-USGS 1	39 53 55	075 07 38	01	211MGRR	80-07-23	15.5	403	6.8	16
553	GLOU CITY CG BASE-USGS 2	39 53 55	075 07 38	02	211MGRR	80-07-23	14.5	228	6.6	17
46	CAMDEN CITY WD-CITY 11	39 55 12	075 06 40	01	211MGRR	80-07-30	16.0	478	6.0	31
61 64 68 78 94	CAMDEN CITY WD-CITY 4 CAMDEN CITY WD-CITY 17 CAMDEN CITY WD-CITY 13 CAMDEN CITY WD-CITY 5N CAMDEN CITY WD-CITY 16	39 55 41 39 55 46 39 55 57 39 56 15 39 57 06	075 06 22 075 05 33 075 05 35 075 06 33 075 05 53	01 01 01 01	21 1MGRR 21 1MGRR 21 1MGRR 21 1MGRR 21 1MGRR	80-07-30 80-07-30 80-07-30 80-07-31 80-07-31	16.0 14.5 14.5 16.0 16.0	845 271 557 394 1150	6.2 5.7 5.8 5.9 6.7	71 22 50 34 91
98	NEW JERSEY WC-CAMDEN 52	39 57 15	075 05 19	01	211MGRR	80-08-21	14.5	432	5.7	39
110	NEW JERSEY WC-CAMDEN 49	39 57 25	075 05 21	01	211MGRR	80-08-21	15.0	624	6.7	15
367	CAMDEN CITY WD-PUCHACK 3	39 58 40	075 03 01	01	211MGRR	80-07-21	16.0	240	6.3	23
368	CAMDEN CITY WD-DELAIR 1	39 58 48	075 03 47	01	211MGRR	80-07-22	15.5	278	6.2	21
535	CAMDEN CITY WD TW1 79	39 58 57	075 03 44	01	211MGRR	80-07-28	17.0	212	6.7	16
373	CAMDEN CITY WD-MORRIS 6	39 59 02	075 03 18	01	21 1MGRR	80-07-22	14.5	268	5.9	23
379	CAMDEN CITY WD MORRIS 10	39 59 20	075 03 03	01	21 1MGRR	80-07-21	14.5	456	6.6	51
386	CAMDEN CITY WD MORRIS 3A	39 59 34	075 02 29	01	21 1MGRR	80-07-22	15.5	744	6.1	43

LOCAL IDENT- I- FIER	DATE OF SAMPLE	ELEV. OF LAND SURFACE DATUM (FT. NGVD)	DEPTH OF WELL, TOTAL (FEET)
BELLMAWR BORO WD 4	80-07-02	82.00	557
BELLMAWR BORO WD 3	80-07-02	31.00	356
BELLMAWR BORO WD 1	80-07-02	31.00	160
BROOKLAWN BORO WD 4-67	80-08-27	13.00	321
NJ ZINC CO 4-DEEP	80-07-03	5.00	279
NJ ZINC CO 5-DEEP	80-07-03	5.00	175
GLOUCESTER CITY WD 42	80-07-07	15.00	306
GLOU CITY CG BASE-USGS 1	80-07-23	20.00	170
GLOU CITY CG BASE-USGS 2	80-07-23	20.00	89
CAMDEN CITY WD-CITY 11	80-07-30	13.00	159
CAMDEN CITY WD-CITY 4 CAMDEN CITY WD-CITY 17 CAMDEN CITY WD-CITY 13 CAMDEN CITY WD-CITY 5N CAMDEN CITY WD-CITY 16	80-07-30	41.00	162
	80-07-30	34.00	270
	80-07-30	30.00	225
	80-07-31	22.00	171
	80-07-31	23.00	179
NEW JERSEY WC-CAMDEN 52 NEW JERSEY WC-CAMDEN 49 CAMDEN CITY WD-PUCHACK 3 CAMDEN CITY WD-DELAIR 1 CAMDEN CITY WD TW1 79	80-08-21 80-08-21 80-07-21 80-07-22 80-07-28	18.00 9.00 10.00 10.00	200 169 175 138 132
CAMDEN CITY WD-MORRIS 6	80-07-22	8.00	138
CAMDEN CITY WD MORRIS 10	80-07-21	16.00	115
CAMDEN CITY WD MORRIS 3A	80-07-22	17.00	107

Geologic unit (aquifer): 211MGRR - Potomac-Raritan-Magothy aquifer system

WATER QUALITY DATA, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

CAPE MAY COUNTY

WELL NUMBER	LOCAL IDENT- I- FIER		LAT- I- TUDE	LONG- I- TUDE	SEQ.	GEO- LOGIC UNIT	DATE OF SAMPLE	TEMPER- ATURE, WATER (DEG C)	SPE- CIFIC CON- DUCT- ANCE (MICRO- MHOS)	PH FIELD (UNITS)	CHLO- RIDE, DIS- SOLVED (MG/L AS CL)
28 36 43 52 57	HARBESON-WALKER R CAPE MAY CITY WD CAPE MAY CITY WD LOWER TWP MUA 1 LOWER TWP MUA 3	3	38 56 43 38 57 01 38 57 24 38 58 53 38 59 19	074 57 55 074 55 28 074 55 21 074 57 12 074 55 18	01 01 01	121CNSY 121CNSY 121CNSY	80-08-27 80-08-27 80-08-27 80-08-27 80-08-27	15.5 15.0 15.0 15.0	950 416 295 245 175	7.4 7.4 7.4 7.7	200 54 17 13 7.3
67 70 72 74	WILDWOOD WD RIO G WILDWOOD WD RIO G WILDWOOD WD RIO G WILDWOOD WD RIO G WILDWOOD WD RIO G	RAND 36 RAND 31 RAND 29	39 01 35 39 01 37 39 01 38 39 01 39 39 01 59	074 53 52 074 53 52 074 53 50 074 53 49 074 53 37	01	112CPMY 112ESRNS 121CNSY	80-08-22 80-08-22 80-08-22 80-08-22 80-08-22	16.5 13.5 13.5 14.0 14.0	510 200 183 154 145	7.8 6.3 7.5 7.5 7.5	75 22 12 11 10
	LOCAL IDENT- I- FIER	DATE OF SAMPLE	ELEV. OF LAND SURFACE DATUM (FT. NGVD)	DEPTH OF HOLE, TOTAL (FEET)	DEPTH OF WELL, TOTAL (FEET)	DEPTH TO TOP OF WATER- BEARING ZONE (FT)	TOM OF WATER-	DEPTH TO TOP OF SAMPLE INTER- VAL (FT)	DEPTH TO BOT- TOM OF SAMPLE INTER- VAL (FT)	PUMP OR FLOW PERIOD PRIOR TO SAM- PLING (MIN)	FLOW RATE, INSTAN- TANEOUS (GPM)
CAPE CAPE LOWER	SON-WALKER REF CO 2 MAY CITY WD 2 MAY CITY WD 3 TWP MUA 1 TWP MUA 3	80-08-27 80-08-27 80-08-27 80-08-27 80-08-27	10.00 12.00 15.00 18.00 20.00	270 322 285	268 282 276 262 307	200		235 174 241 262	265 282 276 262 302	180 180 180 10 120	650 800 800 800 850
WILDW WILDW WILDW	OOD WD RIO GRAND 38 OOD WD RIO GRAND 36 OOD WD RIO GRAND 31 OOD WD RIO GRAND 29 OOD WD RIO GRAND 42	80-08-22 80-08-22 80-08-22 80-08-22 80-08-22	10.00 9.00 10.00 8.00 10.00	592 63 141 258	592 63 135 244 250	92	139	461 48 108 191	590 63 135 231	300 300 300 300 300	900 300 290 800 950

122KRKD - Kirkwood Formation

Geologic unit (aquifer):
112CPMY - Cape May Formation, Undifferentiated
112ESRNS - Cape May Formation, Estuarine Sand Facies
121CNSY - Cohansey Sand

WATER QUALITY DATA, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

CUMBERLAND COUNTY

WELL NUMBER	LOCAL IDENT- I- FIER	LAT- I- TUDE	LONG- I- TUDE	SEQ.	GEO- LOGIC UNIT	DATE OF SAMPLE	TEMPER- ATURE, WATER (DEG C)	SPE- CIFIC CON- DUCT- ANCE (MICRO- MHOS)	PH FIELD (UNITS)	CHLO- RIDE, DIS- SOLVED (MG/L AS CL)
52 54 256 56 100	FORTESCUE REALTY 4 M GANDYS BEACH H MYERS MONEY ISL MARINA 1 CED.BK.FARMS-HOWELL 1-60	39 14 20 39 16 18 39 16 19 39 17 04 39 18 43	075 10 23 075 13 54 075 13 57 075 14 15 075 13 37	02 01 01 01 01	122KRKD 124PNPN 124PNPN 124PNPN 121CKKD	80-09-04 80-09-04 80-09-04 80-09-04 80-09-04	15.5	220 3220 600 675 720	8.0 7.3 5.1	5.4 930 91 74 40
2	BRIDGETON CITY WD 2R	39 24 30	075 13 13	01	121CKKD	80-09-05	14.0	126	5.3	8.1
	LOCAL IDENT- I- FIER	DATE OF SAMPLE	ELEV. OF LAND SURFACE DATUM (FT. NGVD)	DEPTH OF HOLE, TOTAL (FEET)	DEPTH OF WELL, TOTAL (FEET)	DEPTH TO TOP OF SAMPLE INTER- VAL (FT)	DEPTH TO BOT- TOM OF SAMPLE INTER- VAL (FT)	PUMP OR FLOW PERIOD PRIOR TO SAM- PLING (MIN)	FLOW RATE, INSTAN- TANEOUS (GPM)	
	FORTESCUE REALTY 4 M GANDYS BEACH H MYERS MONEY ISL MARINA 1 CED.BK.FARMS-HOWELL 1-60	80-09-04 80-09-04 80-09-04 80-09-04 80-09-04	8.00 5.00 5.00 4.00 10.00	=	402 400 370	283 378 350 48	303 402 370 73	10 10 	200 50 	

20.00 107

101

76

101

700

Geologic unit (aquifer):
121CKKD - Cohansey Sand - Kirkwood Formation, undifferentiated
122KRKD - Kirkwood Formation
124PNPN - Piney Point Formation

BRIDGETON CITY WD 2R 80-09-05

WATER QUALITY DATA, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

GLOUCESTER COUNTY

WELL NUMBER	LOCAL IDENT- I- FIER	LAT- I- TUDE	LONG- I- TUDE	SEQ.	GEO- LOGIC UNIT	DATE OF SAMPLE	TEM PER- ATURE, WATER (DEG C)	SPE- CIFIC CON- DUCT- ANCE (MICRO- MHOS)	PH FIELD (UNITS)	CHLO- RIDE, DIS- SOLVED (MG/L AS CL)	
1 3 361 63 248	CLAYTON BORO WD 3 CLAYTON BORO WD 4 GLASSBORO BORO WD 5 GLASSBORO BORO WD 4 WASHINGTON TWP MUA 5-73	39 39 12 39 40 13 39 41 41 39 43 08 39 43 39	075 05 22 075 05 58 075 07 10 075 07 02 075 04 33	01 01 01 01	21 1MGRR 21 1MGRR 21 1MGRR 21 1MGRR 21 1MGRR	80-09-17 80-09-17 80-09-17 80-09-17 80-09-17	21.0 20.0 19.0 18.5 19.5	910 850 627 494 382	=======================================	110 98 58 29 9.0	
130 226 253 236	PITMAN BORO WD P4 SO JERSEY WS CO 3 PITMAN BORO WD P2 WASHINGTON TWP MUA 6-64 SWEDESBORO BORO WD 3	39 43 45 39 44 08 39 44 11 39 44 37 39 44 34	075 08 04 075 13 30 075 07 45 075 02 50 075 18 43	01 02 01 01 01	21 1M GR R 21 1M GR R 21 1M GR R 21 1M GR R 21 1M GR R	80-09-17 80-09-17 80-09-17 80-09-17 80-09-10	17.5 17.0 17.0 20.0	560 1010 429 294 384	 7.2	43 160 27 3.3 43	
137 350 189 139 144	PURELAND WC 2 (3-1973) PURELAND WC LANDTECT 1 SEWELL WC 1 PURELAND WC TEST WELL3 PURELAND WC 1-1973	39 45 35 39 45 50 39 46 02 39 46 08 39 46 13	075 20 54 075 23 13 075 08 23 075 21 35 075 21 29	01 01 01 01	21 1MGRR 21 1MGRR 21 1MGRR 21 1MGRR 21 1MGRR	80-09-26 80-09-30 80-08-04 80-09-26 80-09-26	14.0 14.5 18.0 14.0 13.0	206 1500 403 2930 158	6.2 7.3 7.9 7.4 5.8	17 370 26 810 34	
8 191 193 194 159	WOODBURY CTY WD-SEWEL 2A SEWELL WC 2 MANTUA WC 2 MANTUA WC 3 MONSANTO CHEM EAST 1	39 46 28 39 46 29 39 47 12 39 47 32 39 47 36	075 08 13 075 08 59 075 10 08 075 10 36 075 23 44	03 01 01 01 01	21 1M GR R 21 1M GR R 21 1M GR R 21 1M GR R 21 1M GR R	80-08-27 80-08-04 80-08-04 80-08-04 80-09-23	15.0 15.0 15.0 15.5 14.0	384 403 403 432 1320	8.1 7.9 7.8 7.8 6.5	25 26 31 40 360	
274 166 167 355 399	WENONAH BORO WD 1 PENNS GROVE WC-BRIDGPT 2 MONSANTO CHEM 3 E GREENWICH TWP WD 3 ALLIED ENERGY 1 1977	39 47 43 39 47 55 39 47 27 39 48 22 39 49 00	075 09 02 075 21 08 075 23 19 075 12 47 075 19 13	01 02 01 01	21 1MGRR 21 1MGRR 21 1MGRR 21 1MGRR 21 1MGRR	80-08-04 80-09-16 80-09-23 80-09-05 80-09-15	15.0 14.5 14.0 15.5 14.5	336 186 678 499 118	7.8 5.1 6.3 7.9 5.1	22 13 180 57 29	
283 284 69 348 210	SHELL CHEM CO 3 SHELL CHEM CO 4 GREENWICH TWP WD 3 GREENWICH TWP WD 6 PAULSBORO WD 6-73	39 49 19 39 49 19 39 49 19 39 49 10 39 49 21	075 12 56 075 12 56 075 16 02 075 15 41 075 14 17	01 02 01 01 01	21 1M GR R 21 1M GR R 21 1M GR R 21 1M GR R 21 1M GR R	80-09-24 80-09-24 80-09-18 80-09-18 80-09-11	15.0 14.0 13.5 14.0 15.0	690 384 121 128 261	7.8 7.4 5.2 4.4 6.0	140 26 13 7.0 34	
212 72 76 79 81	PAULSBORO WD 4-51 EI DUPONT REPAUNO 3 HERCULES CHEM 4-1970 EI DUPONT REPAUNO 6 EI DUPONT REPAUNO 5	39 49 29 39 49 36 39 49 39 39 49 44 39 49 45	075 14 47 075 17 47 075 17 04 075 17 34 075 17 17	01 01 01 01 01	21 1MGRR 21 1MGRR 21 1MGRR 21 1MGRR 21 1MGRR	80-09-11 80-09-12 80-09-15 80-09-12 80-09-12	15.0 13.5 15.0 14.0 20.0	146 221 393 480 365	4.8 5.2 6.6 5.6 5.7	13 32 16 97 72	
331 213 94 98 332	WOODBURY WD RAILROAD 5 PAULSBORO WD 5-57 MOBIL OIL-GREENWICH 44 MOBIL OIL-GREENWICH 45 WOODBURY WD-PARK LOT 3	39 49 55 39 49 47 39 49 58 39 50 05 39 50 17	075 09 08 075 14 16 075 15 12 075 15 23 075 09 28	01 01 01 01 01	21 1MGRR 21 1MGRR 21 1MGRR 21 1MGRR 21 1MGRR	80-08-27 80-09-11 80-09-17 80-09-17 80-08-27	15.0 16.0 16.0 14.0 14.5	360 235 653 2420 336	7.9 4.5 5.5 5.1 7.8	45 19 45 110 12	
118 207 317 326 320	MOBIL OIL-GREENWICH 47 NATIONAL PARK BORO WD 2 TEXACO EAGLE PT 7 WESTVILLE BORO WD 5 TEXACO EAGLE PT 1	39 50 36 39 51 56 39 52 00 39 52 16 39 52 16	075 15 01 075 10 53 075 09 47 075 07 39 075 09 15	01 01 01 01	21 1MGRR 21 1MGRR 21 1MGRR 21 1MGRR 21 1MGRR	80-09-17 80-09-09 80-09-09 80-09-02 80-09-09	15.0 14.0 15.0 14.5 15.0	490 321 238 510 344	6.1 7.1 6.2 7.1 7.2	110 28 20 13 25	
327 321 410	WESTVILLE BORO WD 4 TEXACO EAGLE PT 5 TEXACO EAGLE PT 4A	39 52 21 39 52 21 39 52 13	075 07 37 075 08 56 075 09 36	01 01 02	211MGRR 211MGRR 211MGRR	80-09-02 80-09-09 80-09-09	15.5 15.0 14.5	284 365 480	7.4 7.1 6.8	9.5 15 29	

Geologic unit (aquifer): 211MGRR - Potomac-Raritan-Magothy aquifer system

WATER QUALITY DATA, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

GLOUCESTER COUNTY -- Continued

LOCAL IDENT- I- FIER	DATE OF SAMPLE	ELEV. OF LAND SURFACE DATUM (FT. NGVD)	DE PTH OF HOLE, TOTAL (FEET)	DE PTH OF WELL, TOTAL (FEET)	DE PTH TO TOP OF WATER- BEARING ZONE (FT)	DE PTH TO BOT- TOM OF WATER- BEARING ZONE (FT)	DE PTH TO TOP OF SAMPLE INTER- VAL (FT)	DE PTH TO BOT- TOM OF SAMPLE INTER- VAL (FT)	PUMP OR FLOW PERIOD PRIOR TO SAM- PLING (MIN)	FLOW RATE, INSTAN- TANEOUS (GPM)
CLAYTON BORO WD 3 CLAYTON BORO WD 4 GLASSBORO BORO WD 5 GLASSBORO BORO WD 4 WASHINGTON TWP MUA 5-73	80-09-17 80-09-17 80-09-17 80-09-17 80-09-17	133.00 140.00 138.00 146.00 125.00	1010 943 	800 741 660 599 618	740 657 	802 778 	746 670 600 549 559	800 740 657 599 618	10 10 120 10 180	700 1200 1000 450 1000
PITMAN BORO WD P4 SO JERSEY WS CO 3 PITMAN BORO WD P2 WASHINGTON TWP MUA 6-64 SWEDESBORO BORO WD 3	80-09-17 80-09-17 80-09-17 80-09-17 80-09-10	125.00 35.00 130.00 152.00 70.00	270 526	520 268 515 652 315	225 462 	266 515 	234 475 584	265 515 652	10 180 10	250 220 500
PURELAND WC 2 (3-1973) PURELAND WC LANDTECT 1 SEWELL WC 1 PURELAND WC TEST WELL3 PURELAND WC 1-1973	80-09-26 80-09-30 80-08-04 80-09-26 80-09-26	29.00 20.40 80.00 8.00 7.60	=======================================	208 284 377 345 138	=======================================	=======================================	=======================================	=======================================	=======================================	=
WOODBURY CTY WD-SEWEL 2A SEWELL WC 2 MANTUA WC 2 MANTUA WC 3 MONSANTO CHEM EAST 1	80-08-27 80-08-04 80-08-04 80-08-04 80-09-23	21.00 60.00 65.00 10.00 11.00	=======================================	303 368 317 268 81	=======================================		=======================================	=======================================	=======================================	=
WENONAH BORO WD 1 PENNS GROVE WC-BRIDGPT 2 MONSANTO CHEM 3 E GREENWICH TWP WD 3 ALLIED ENERGY 1 1977	80-08-04 80-09-16 80-09-23 80-09-05 80-09-15	80.00 20.00 10.00 42.00 25.00	=======================================	320 88 94 246 101	=======================================	=======================================	=======================================	=======================================	=======================================	==
SHELL CHEM CO 3 SHELL CHEM CO 4 GREENWICH TWP WD 3 GREENWICH TWP WD 6 PAULSBORO WD 6-73	80-09-24 80-09-24 80-09-18 80-09-18 80-09-11	30.00 30.00 10.00 20.00 15.00	=======================================	384 159 168 138 230	=======================================		=======================================	=======================================	=======================================	=======================================
PAULSBORO WD 4-51 EI DUPONT REPAUNO 3 HERCULES CHEM 4-1970 EI DUPONT REPAUNO 6 EI DUPONT REPAUNO 5	80-09-11 80-09-12 80-09-15 80-09-12 80-09-12	15.00 10.00 15.00 10.00 10.00	=======================================	226 101 120 109 99	=======================================	=======================================	=======================================	=======================================	=======================================	==
WOODBURY WD RAILROAD 5 PAULSBORO WD 5-57 MOBIL OIL-GREENWICH 44 MOBIL OIL-GREENWICH 45 WOODBURY WD-PARK LOT 3	80-08-27 80-09-11 80-09-17 80-09-17 80-08-27	35.00 10.00 20.00 3.00 60.00	=======================================	457 196 139 118 188	=======================================	=======================================	=======================================	=======================================	=======================================	=======================================
MOBIL OIL-GREENWICH 47 NATIONAL PARK BORO WD 2 TEXACO EAGLE PT 7 WESTVILLE BORO WD 5 TEXACO EAGLE PT 1	80-09-17 80-09-09 80-09-09 80-09-02 80-09-09	20.00 30.00 10.00 12.00 32.00	=======================================	245 282 306 277 288	=======================================	=======================================	=======================================	=======================================	=======================================	=======================================
WESTVILLE BORO WD 4 TEXACO EAGLE PT 5 TEXACO EAGLE PT 4A	80-09-02 80-09-09 80-09-09	16.00 13.00 5.00	=======================================	319 277 296	==	==	==	=	==	==

WATER QUALITY DATA, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

SALEM COUNTY

WELL NUMBER	LOCAL IDENT- I- FIER	LAT- I- TUDE	LONG- I- TUDE	SEQ.	GEO- LOGIC UNIT	DATE OF SAMPLE	TEMPER- ATURE, WATER (DEG C)	SPE- CIFIC CON- DUCT- ANCE (MICRO- MHOS)	PH FIELD (UNITS)	CHLO- RIDE, DIS- SOLVED (MG/L AS CL)
_	PUBLIC SERVICE TEST 1-80	39 27 51	075 32 07	01	21 1MGRR	80-09-09	22.5	1140	7.8	300
163	RICHMAN ICE CREAM 1	39 39 28	075 21 47	01	211MGRR	80-09-16	16.0	391	8.0	21
122	ATL CITY EL-DEEPWATER 3R	39 40 46	075 30 22	02	211MGRR	80-09-22	14.0	403	6.9	57
127	ATL CITY EL-DEEPWATER 6	39 41 00	075 30 30	01	211MGRR	80-09-22	16.0	696	6.7	140
361	PENNS GROVE WC LAYTN1-79	39 42 04	075 26 59	01	21 1MGRR	80-09-23	15.0	214	5.9	19
345	PENNS GROVE WC 2B	39 42 47	075 27 14	01	211MGRR	80-09-23	13.0	178	5.1	13
346	PENNS GROVE WC-LAYNE 1	39 42 56	075 27 18	01	211MGRR	80-09-23	14.5	886	7.5	210
103	PENNS GROVE SEW AUTH 1	39 43 46	075 28 28	01	211MGRR	80-09-22	14.5	128	6.6	8.8

LOCAL IDENT- I- FIER	DATE OF SAMPLE	ELEV. OF LAND SURFACE DATUM (FT. NGVD)	DEPTH OF WELL, TOTAL (FEET)	
PUBLIC SERVICE TEST 1-80	80-09-09	20.00	1240	
RICHMAN ICE CREAM 1	80-09-16	25.00	475	
ATL CITY EL-DEEPWATER 3R	80-09-22	10.00	236	
ATL CITY EL-DEEPWATER 6	80-09-22	15.00	188	
PENNS GROVE WC LAYTN1-79	80-09-23	10.00	68	
PENNS GROVE WC 2B	80-09-23	19.00	60	
PENNS GROVE WC-LAYNE 1	80-09-23	19.00	357	
PENNS GROVE SEW AUTH 1	80-09-22	2.00	60	

Geologic unit (aquifer): 211MGRR - Potomac-Raritan-Magothy aquifer system

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FACTORS FOR CONVERTING INCH-POUND UNITS TO INTERNATIONAL SYSTEM UNITS (SI)

The following factors may be used to convert the inch-pound units published herein to the International System of Units (SI). This report contains both the inch-pound and SI unit equivalents in the station manuscript descriptions.

Multiply inch-pound units	Ву	To obtain SI units
	Length	
inches (in)	2.54x10 ¹	millimeters (mm)
feet (ft)	2.54x10 ⁻² 3.048x10 ⁻¹	meters (m) meters (m)
miles (mi)	1.609x10°	kilometers (km)
	Area	
acres	4.047x10 ³	square meters (m ²)
	4.047x10 ⁻¹ 4.047x10 ⁻³	square hectometers (hm²)
square miles (mi ²)	2.590x10°	square kilometers (km ²) square kilometers (km ²)
	Volume	
gallons (gal)	3.785x10° 3.785x10°	liters (L) cubic decimeters (dm³)
	3.785×10^{-3}	cubic meters (m ³)
million gallons	3.785×10^3	cubic meters (m ³)
auhia faat (ft3)	3.785×10^{-3}	cubic hectometers (hm³)
cubic feet (ft³)	2.832x10 ¹ 2.832x10 ⁻²	cubic decimeters (dm³) cubic meters (m³)
cfs-days	2.447×10^3	cubic meters (m ³)
	2.447x10 ⁻³	cubic hectometers (hm³)
acre-feet (acre-ft)	1.233x10 ³	cubic meters (m³)
	1.233x10 ⁻³ 1.233x10 ⁻⁶	cubic hectometers (hm³) cubic kilometers (km³)
		cuote knometers (km)
	Flow	
cubic feet per second (ft ³ /s)	2.832x10 ¹	liters per second (L/s)
	2.832x10 ¹	cubic decimeters per second (dm³/s)
college man minute (col/min)	2.832x10 ⁻²	cubic meters per second (m³/s)
gallons per minute (gal/min)	6.309x10 ⁻² 6.309x10 ⁻²	liters per second (L/s) cubic decimeters per second (dm³/s)
	6.309x10 ⁻⁵	cubic meters per second (diff /s)
million gallons per day	4.381x10 ¹	cubic decimeters per second (dm ³ /s)
	4.381x10 ⁻²	cubic meters per second (m³/s)
	Mass	
tons (short)	9.072x10 ⁻¹	megagrams (Mg) or metric tons



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