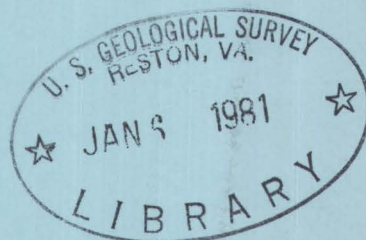


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New Jersey  
1974  
pt. 2

# Water Resources Data for New Jersey

## Part 2. Water Quality Records



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

Prepared in cooperation with the State of New Jersey  
and with other agencies

# CALENDAR FOR WATER YEAR 1974

1973

## OCTOBER

S	M	T	W	T	F	S
	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	31			

## NOVEMBER

S	M	T	W	T	F	S
				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	

## DECEMBER

S	M	T	W	T	F	S
						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	31					

1974

## JANUARY

S	M	T	W	T	F	S
		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	31		

## FEBRUARY

S	M	T	W	T	F	S
					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		

## MARCH

S	M	T	W	T	F	S
					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
31						

## APRIL

S	M	T	W	T	F	S
	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				

## MAY

S	M	T	W	T	F	S
			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	31	

## JUNE

S	M	T	W	T	F	S
						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						

## JULY

S	M	T	W	T	F	S
	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	31			

## AUGUST

S	M	T	W	T	F	S
				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	31

## SEPTEMBER

S	M	T	W	T	F	S
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					





# United States Department of the Interior

## GEOLOGICAL SURVEY

Water Resources Division  
420 Federal Building  
P.O. Box 1238  
Trenton, N.J. 08607

I am pleased to announce the release of our annual reports, "Water Resources Data for New Jersey, 1974, Part 1. Surface Water Records" and "Water Resources Data for New Jersey, 1974, Part 2. Water Quality Records." Both reports were prepared by the U.S. Geological Survey in cooperation with the State of New Jersey and several local and federal government agencies.

Part 1 contains records of stream discharge, contents and elevations of lakes and reservoirs, major water-supply diversions, tidal elevations, and other related data for gaging stations maintained in New Jersey. Attention is directed to other data available (p. 13), hydrologic conditions during the water year (p. 16), low-flow and crest-stage data and discharge measurements at sites other than gaging stations (pp. 135-153), and a summary of tidal elevations at special study areas in the New Jersey estuaries and intercoastal waterways (pp. 154-168).

Part 2 contains records of water-quality measurements at regular network surveillance stations collected as part of our cooperative program with the New Jersey Department of Environmental Protection, stations operated as part of the National Stream Quality Accounting Network (NASQAN), one Benchmark station, two paired network stations for the U.S. Environmental Protection Agency, as well as special project stations. Records of sediment concentrations and particle sizes are collected for the New Jersey Department of Agriculture and the Corps of Engineers. Continuous recording automatic water-quality monitors are operated at selected sites throughout the State for the Delaware River Basin Commission and the New Jersey Division of Fish, Game, and Shellfisheries.

Extra copies of the full reports or individual station data pages are available in a limited quantity and will be furnished as requested.

If your address or title are listed incorrectly or if you no longer wish to receive these annual reports, please notify me at the above address or telephone 609-599-3511, ext. 212.

Sincerely yours,

Harold Meisler  
District Chief





1974

**Water Resources Data  
for  
New Jersey**

Part 2. Water Quality Records



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

**Prepared in cooperation with the State of New Jersey  
and with other agencies**





Prepared in cooperation with  
New Jersey Department of Environmental Protection  
New Jersey Department of Agriculture  
Delaware River Basin Commission  
Corps of Engineers, U.S. Army  
U.S. Environmental Protection Agency

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

1. Water Resources Data for New Jersey  
Part 1. Surface Water Records
2. Water Resources Data for New Jersey  
Part 2. Water Quality Records

Copies of this report may be obtained from  
District Chief, Water Resources Division  
U.S. Geological Survey  
P.O. Box 1238  
Room 420, Federal Building  
Trenton, New Jersey 08607





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IV WATER-QUALITY STATIONS, IN DOWNSTREAM ORDER,  
FOR WHICH RECORDS ARE PUBLISHED

*[Letters after station name designate type of data:  
(c) chemical, (t) water temperature, (s) sediment]*

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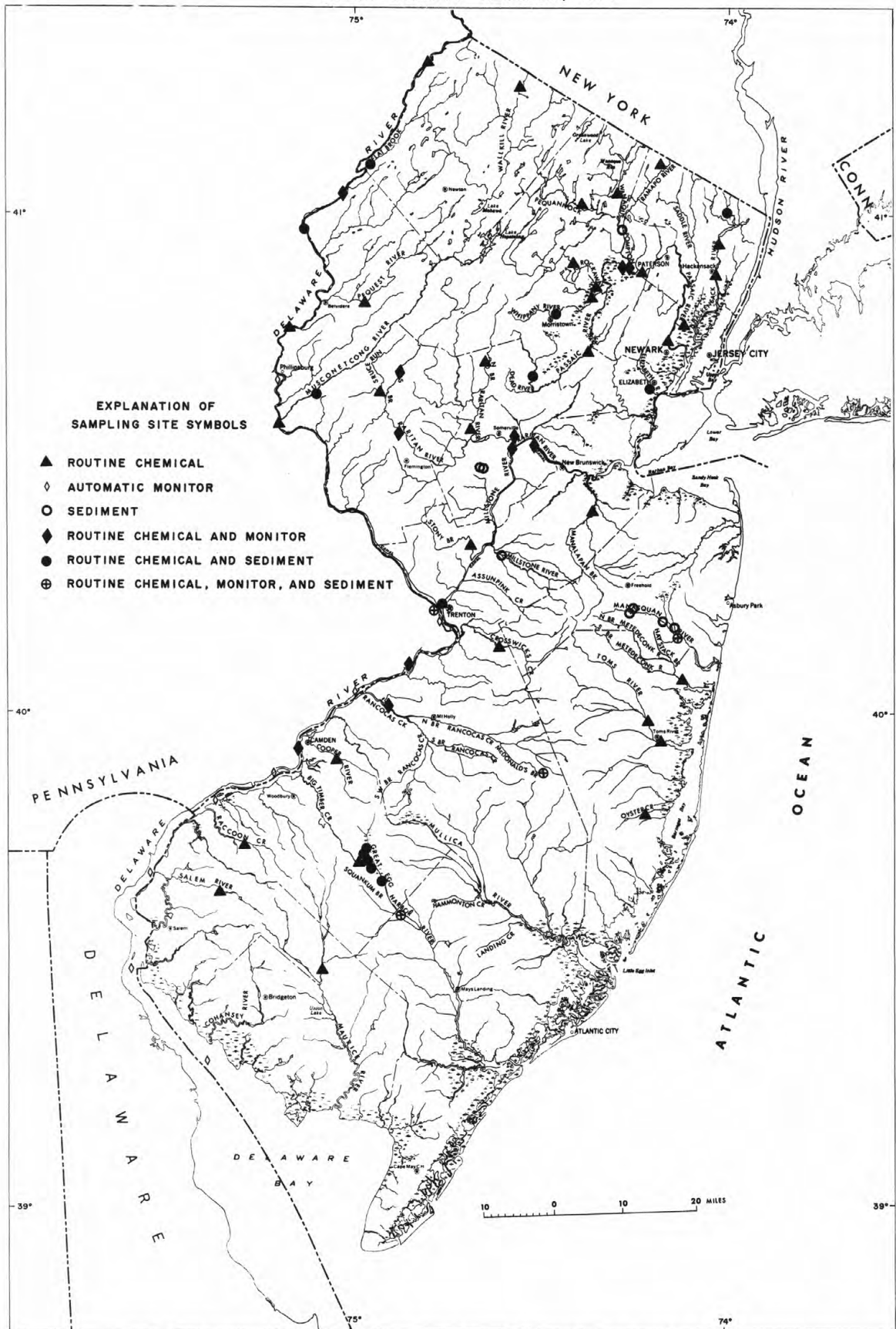
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#### North Branch Rancocas Creek:

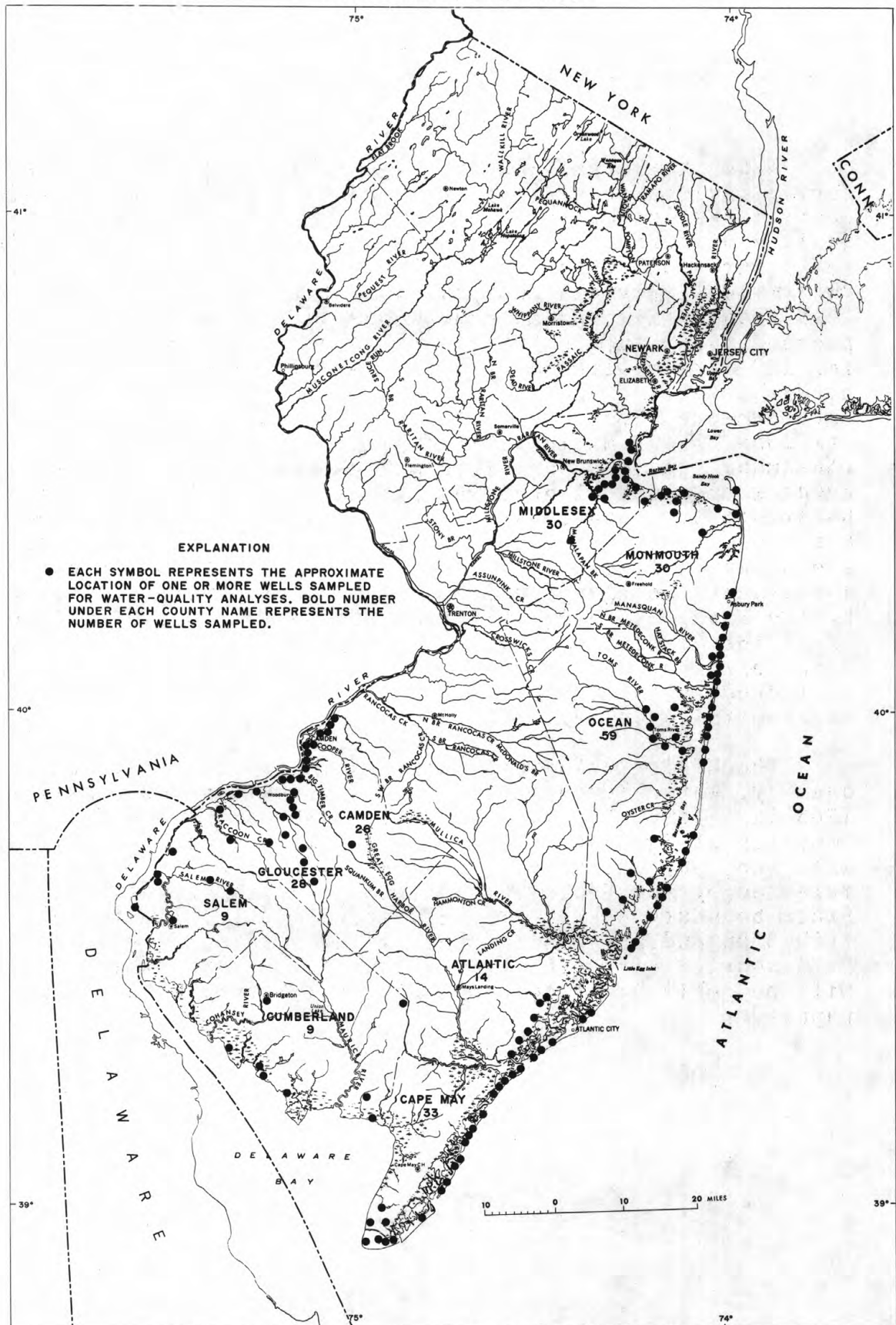
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MAP OF NEW JERSEY SHOWING NUMBER AND DISTRIBUTION  
OF SURFACE-WATER QUALITY STATIONS  
FIGURE I





## WATER RESOURCES DATA FOR NEW JERSEY, 1974

### Part 2. Water Quality Records

#### INTRODUCTION

Water resources data for the 1974 water year for New Jersey include records of data for the chemical and physical characteristics of surface and ground water. Data on the quality of surface water (chemical, temperature, and sediment) were collected from designated sampling sites at predetermined intervals such as once daily, weekly, monthly or less frequently, and at some sites data were recorded on punched paper tape at 60 minute intervals. Records are given for 100 stream sites of which 38 are regular surveillance network stations, 50 are special project stations, 8 are Environmental Protection Agency (EPA) surveillance network stations, 3 are National stream-quality accounting network (Nasquan) stations, and 1 is a Hydrologic bench-mark station. Records of chemical analyses are also given for 236 ground-water sites. Locations of surface water-quality stations are shown in figure 1 and locations of ground-water sites are shown in figure 2. A few pertinent stations in bordering States are also included. The records were collected by the Water Resources Division of the U.S. Geological Survey under the direction of J. E. McCall, district chief. These data represent that part of the National Water Data System collected by the U.S. Geological Survey and cooperating State and Federal agencies in New Jersey.

The Geological Survey has published records of chemical quality, water temperatures, and sediment in New Jersey since 1945 in an annual series of water-supply papers entitled, "Quality of Surface Waters of the United States." Beginning with the 1964 water year, water-quality records have been released by the Geological Survey in annual reports on a State-boundary basis. These reports are for limited distribution and are designed primarily for rapid release of data shortly after the end of the water year. These records will be published later in Geological Survey water-supply papers.

## COOPERATION

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

New Jersey Department of Environmental Protection,  
David J. Bardin, commissioner.  
Division of Water Resources, Rocco Ricci,  
acting director.  
Division of Fish, Game and Shell Fisheries,  
Russell A. Cookingham, director.  
New Jersey Department of Agriculture, Philip Alampi,  
secretary.  
Division of Rural Resources, Richard D. Chumney,  
director.  
Delaware River Basin Commission, James F. Wright,  
executive director.

Assistance in the form of funds was given by the Corps of Engineers, U.S. Army for the collection of sediment records at two stream-sampling stations and by the U.S. Environmental Protection Agency for the collection of chemical analyses at eight stream-sampling stations in this report. In addition, several stations were operated fully or partially from funds appropriated directly to the Geological Survey. The assistance of the Passaic Valley Water Commission and the North Jersey District Water Supply Commission in providing basic records is gratefully acknowledged in the station headings.

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, Carmen Guarino,  
commissioner.  
Pennsylvania Department of Environmental Resources,  
Maurice K. Goddard, secretary.  
Delaware Geological Survey, R. R. Jordan, State geologist.  
Delaware River Master, Joseph V. B. Wells.

## DEFINITION OF TERMS

Terms related to water-quality and hydrologic data, as used in this report are defined below. See also table for converting English units to International System of units (SI) on page 24.

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

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.

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

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

Fecal coliform bacteria are bacteria that are present in the intestine 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  $\pm$  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 warmblooded 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  $35^{\circ}\text{C} \pm 1.0^{\circ}\text{C}$  on M-enterococcus medium (nutrient medium for bacterial growth). Their concentrations are expressed as number of colonies per 100 ml of sample.

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

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

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

Ash weight is the weight or amount of residue present after the residue from the dry weight determination has been ashed in a muffle furnace at a temperature of  $500^{\circ}\text{C}$  for 1 hour. The ash weight values of zooplankton and phytoplankton are expressed in  $\text{g}/\text{m}^3$  (grams per cubic metre), and periphyton and benthic organisms in  $\text{g}/\text{m}^2$  (grams per square metre).

Dry weight refers to the weight of residue present after drying in an oven at  $60^{\circ}\text{C}$  for zooplankton and  $105^{\circ}\text{C}$  for periphyton, until the weight remains unchanged. This weight represents the total organic matter, ash and sediment, in the sample. Dry weight values are expressed in the same units as ash weight.

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

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

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



646,000 gallons, or 2,447 cubic metres. It represents a run-off of approximately 0.0372 inches from 1 square mile or 0.3468 millimetre from 1 square kilometre.

Chemical oxygen demand (COD) indicates the quantity of oxidizable compounds in water and varies with water composition(s), temperature, period of contact, and other factors.

Cubic foot per second (CFS, cfs) is the rate of discharge representing a volume of 1 cubic foot passing a given point during 1 second and is equivalent to approximately 7.48 gallons per second or 448.8 gallons per minute or 0.02832 cubic metres per second.

Discharge is the volume of water (or more broadly, total fluids), that passes a given point within a given period of time.

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

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

Drainage area of a stream at a specified location is that area, measured in 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.

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

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

Hardness of water is a physical-chemical characteristic 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 ( $\text{CaCO}_3$ ).

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

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

Milligrams per litre (MG/L,  $\text{mg/l}$ ) is a unit for expressing the concentration of chemical constituents in solution. Milligrams per litre represents the weight of solute per unit volume of water. Milligrams or micrograms per litre may be converted to milliequivalents (one thousandth of a gram-equivalent weight of a constituent) per litre by multiplying by the factors in table 1, p. 7. Concentration of suspended sediment also is expressed in  $\text{mg/l}$ , and is based on the weight of sediment per litre of water-sediment mixture. Sediment concentrations may be converted to parts per million by using the factors in table 2, p. 7.

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

Particle size is the diameter, in millimetres (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 native water (the river water at the time and point of sampling).

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

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



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

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

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

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

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

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

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.

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

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

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

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

Diatoms are the unicellular or colonial algae having a siliceous shell. Their concentrations are expressed as number of cells per millilitre 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 millilitre 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.

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 atomic weight about 35.453. Many of the elements similarly exist as mixtures of isotopes, and a great many new isotopes have been produced in the operation of nuclear devices such as the cyclotron (Rose, 1966). There are 275 isotopes of the 81 stable elements in addition to over 800 radioactive isotopes.

Radioisotopes that are determined in this report are natural uranium in  $\mu\text{g/l}$  (micrograms per litre), radium as radium-226 in PC/L, (pCi/l, picocuries per litre), gross beta radiation as equivalent strontium/yttrium-90 or cesium-137 in PC/L, and gross alpha radiation as micrograms of uranium equivalent per litre ( $\mu\text{g/l}$ ). Gross alpha and beta radioactivity associated with the fine grained (silt and clay sized) sediments in the samples are also determined.

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

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

Suspended-sediment discharge (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.

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

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 litre of water-sediment mixture (mg/l).

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

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

Specific conductance is a measure of the ability of a water to conduct an electrical current and is expressed in micromhos per centimetre 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 in the water. Commonly, the amount



of dissolved solids (in milligrams per litre) 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.

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.

Thermograph is a thermometer that continuously and automatically records, on a chart, the water temperature 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.

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

#### 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.

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

National stream-quality accounting network is an accounting 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 in the network design. Areal configuration of the network is based on river-basin accounting units 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 water-quality conditions nationwide on a year-to-year basis and (2) to detect and assess long-term changes in stream quality.

Pesticide program is a network of regularly sampled water-quality stations where additional monthly samples are collected to determine the concentration and distribution of pesticides in streams whose waters are used for irrigation or in streams in areas where potential contamination could result from the application of the commonly used insecticides and herbicides.

Radiochemical program is a network of regularly sampled water-quality stations where additional samples are collected monthly or twice a year (at high and low flow) to be analyzed for radioisotopes. The streams that are sampled represent major drainage basins in the conterminous United States.

#### DOWNSTREAM ORDER AND STATION NUMBER

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

As an added means of identification, each water-quality station, gaging station, and partial-record station has been assigned a station number. These are in the same downstream order used in this report. In assigning station numbers, no distinction is made between partial-record and continuous-record stations; therefore, the station number for a partial-record station indicates downstream order position in a list



made up of both types of stations. Water-quality stations located at or near gaging stations or partial-record stations have the same number as the gaging or partial-record station. Gaps are left in the numbers to allow for new stations that may be established; hence the numbers are not consecutive. The complete 8-digit number for each station, such as 01463500 which appears just to left of the station name includes the 2-digit part number "01" plus the 6-digit downstream order number "063500." In this report, the records are listed in downstream order by parts. The part number refers to an area whose boundaries coincide with certain natural drainage lines. Records in this report are in Part 1 (North Atlantic slope basins). All records for a drainage basin encompassing more than one State could be arranged in downstream order by assembling pages from the various State reports by station number to include all records in the basin.

#### NUMBERING SYSTEM FOR WELLS AND MISCELLANEOUS SITES

Miscellaneous 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, assign sequential number "01," "02," etc. as one would for wells. See figure 3 below.

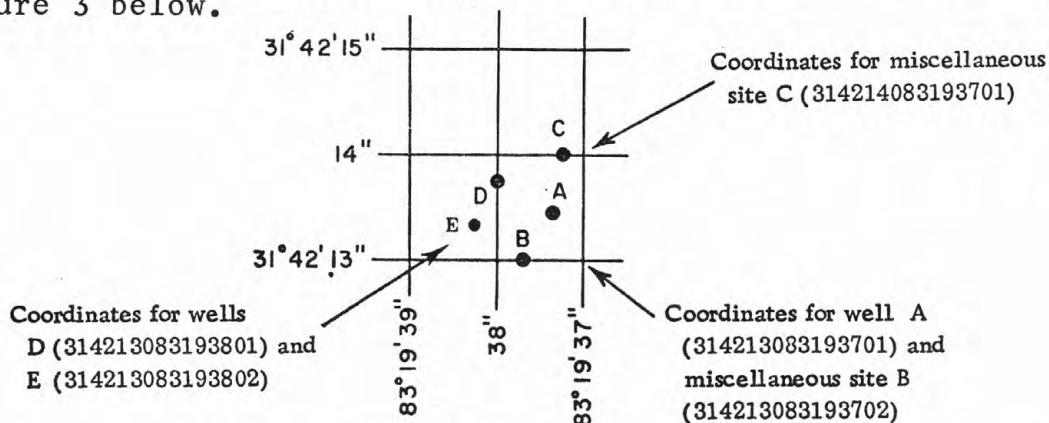


Figure 3. System for numbering wells and miscellaneous sites (latitude and longitude)

## EXPLANATION OF WATER QUALITY DATA

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. Discharge records for streams in New Jersey have been released in the report, "Water Resources Data for New Jersey, 1974, Part 1. Surface Water Records."

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 various water-quality data, extremes of the pertinent data, and general remarks, in a format similar to that used for streamflow gaging stations. For ground-water sampling stations, no descriptive statements are given. However, the well number, depth of well, date of sampling, and/or other pertinent data are given in the table containing the chemical analyses of ground water.

Water-quality information is presented for chemical, biological, and microbiological quality, water temperature, and fluvial sediment. Chemical quality includes concentrations of individual dissolved constituents and certain properties or characteristics such as hardness, sodium-adsorption-ratio, 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 identification of certain bacteriological indicator organisms. Water-temperature data represent once-daily observations except for stations where a continuous temperature recorder (thermograph) furnishes information from which daily minimums and maximums are obtained. Fluvial-sediment information is given for suspended-sediment discharges and concentrations and for particle-size distribution of suspended sediment and bed material.

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 litre (mg/l) and water temperatures in degrees Celsius (°C). In waters with a density of 1.000 g/ml (grams per millilitre), parts per million and milligrams per litre 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 litre. Temperatures reported in degrees Celsius may be converted to degrees Fahrenheit by using the table below.

In October 1968, the Geological Survey began reporting many of the chemical constituents as well as the minor elements in micrograms per litre instead of milligrams per litre. (See "Definitions of Terms," p. 7 and table for converting English Units to SI Units, p. 24.)

Table 3.--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
.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

$$^{\circ}\text{C} = 5/9 (^{\circ}\text{F} - 32) \text{ or } ^{\circ}\text{F} = 9/5 (^{\circ}\text{C}) + 32.$$

### Solutes

Most methods for collecting and analyzing water samples to determine the kinds and concentrations of solutes are described by Brown, Skougstad, and Fishman. The method for determining elemental constituents by emission spectrographic techniques is described by Barnett and Mallory. Analysis of pesticides, herbicides, and organic substances in water are described by Goerlitz and Lamar, Lamar, Goerlitz, and Law, and Goerlitz and Brown. The collection and analysis of aquatic, biological and microbiological samples are described by Slack 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 several vertical sections to obtain a representative sample needed for an accurate mean concentration and for use in calculating load.

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

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

For chemical-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 at the address given on the back of the title page of this report.

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 analyzed individually.

### 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 when sample is collected. 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.

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

### Sediment

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

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

water discharge, sediment concentrations observed immediately before and after the periods, and suspended-sediment loads for other periods of similar discharge.

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

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

#### WATER QUALITY CONDITIONS

Water-quality conditions, as reflected by dissolved-solids and dissolved-oxygen content, at four stream sampling sites are illustrated graphically on pages 19 and 20. These water-quality stations were selected for illustration because the sampling points are (1) near, but above the influence of tide, and (2) the available records are long term, systematic, and accurate. The variations in dissolved solids and dissolved oxygen from month to month during the 1974 water year (solid line) may be compared with the average (dashed line) for a base period (1964-1973) and with the maximum and minimum monthly values for a particular month recorded during the base period. Whenever the solid-line graph coincides with the maximum or minimum graphs (edge of stippling), it denotes the mean value for that month of the current water year was record-high or record-low. Records were collected at varying frequencies, ranging from hourly to monthly sampling.

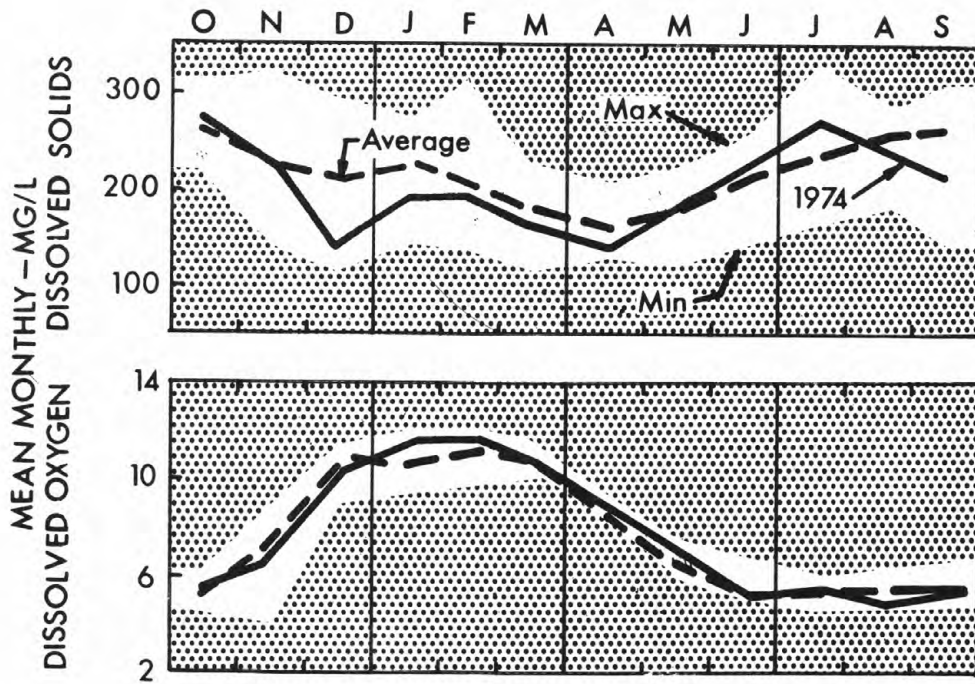
The accompanying graphs were prepared largely from data provided by the Passaic Valley Water Commission (Passaic), the Elizabethtown Water Company (Raritan), and the Toms River Chemical Corporation (Toms) to whom the compilers of this report are indebted.



# WATER QUALITY RECORDS, 1974

19

01389500 PASSAIC RIVER AT LITTLE FALLS



01400500 RARITAN RIVER AT MANVILLE

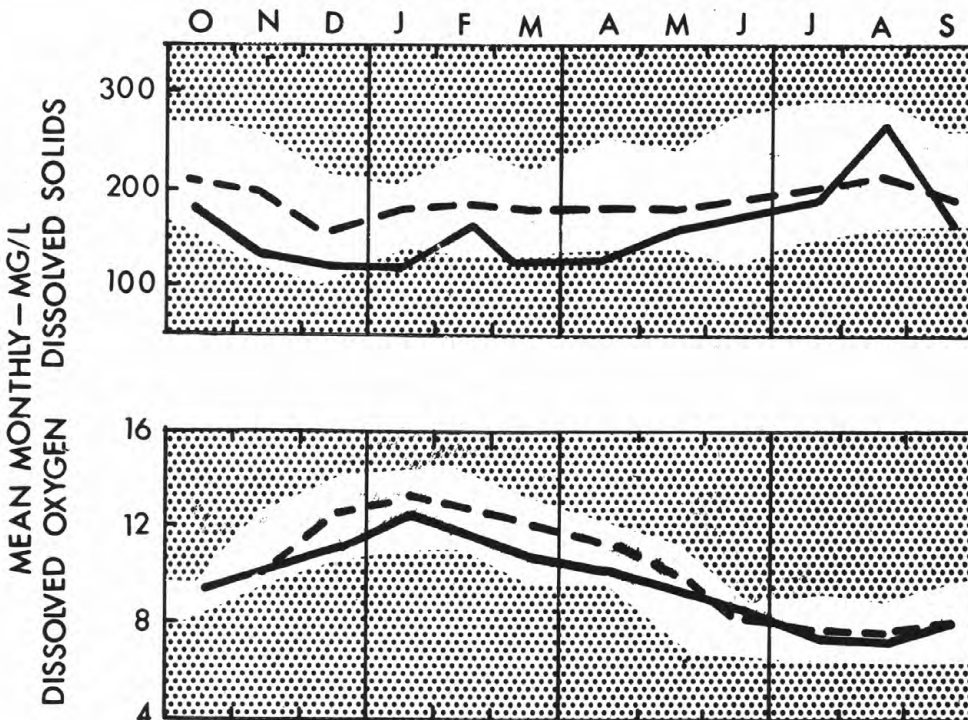
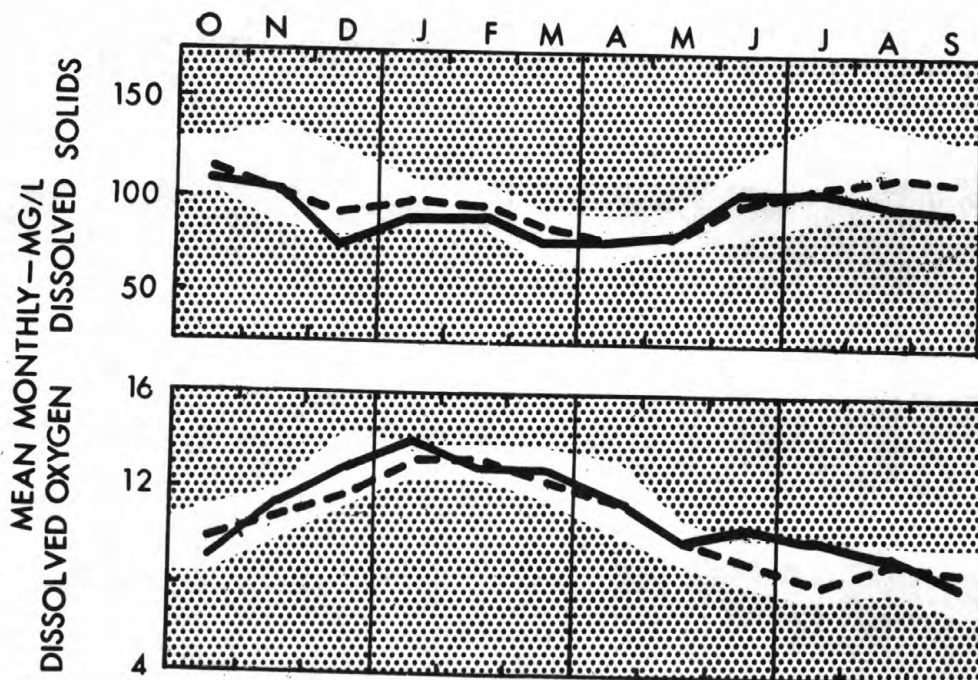


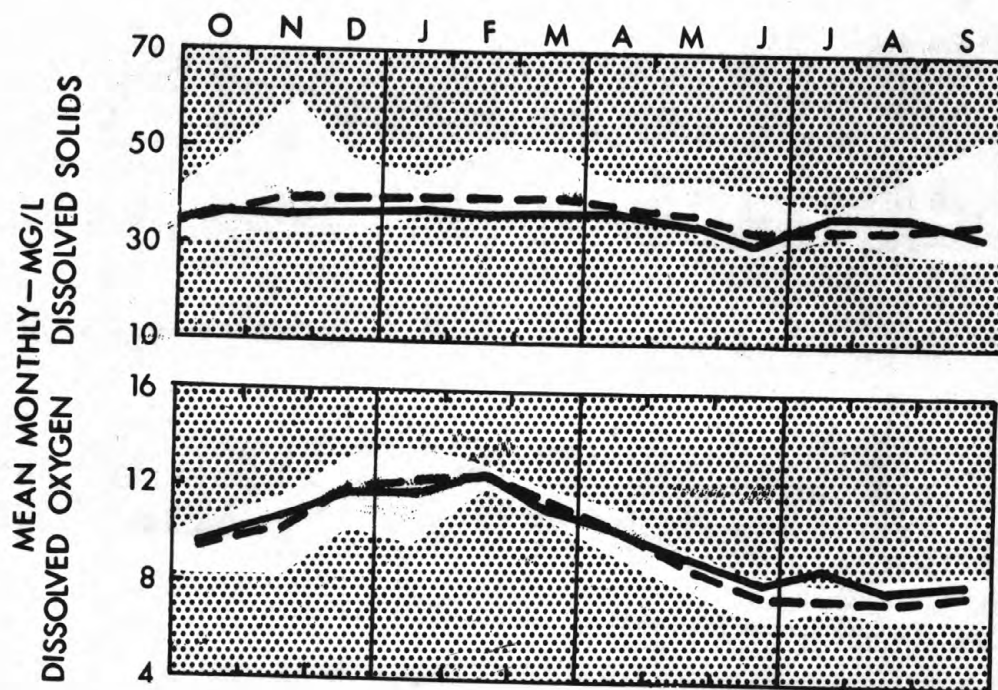
Figure 4.--Water-quality conditions,  
1974 water year

## WATER QUALITY RECORDS, 1974

01408500 TOMS RIVER AT TOMS RIVER



01463500 DELAWARE RIVER AT TRENTON

Figure 4.--Water-quality conditions,  
1974 water year--Continued

## WATER-SUPPLY PAPERS

Table 4 below, shows the annual series of water-supply papers that give information on quality of surface waters in New Jersey, Part 1. North Atlantic slope basins.

Table 4.--Water-supply paper (WSP) numbers and parts, water years, 1945-71

Year	WSP	Parts	Year	WSP	Parts	Year	WSP	Parts
1945	1030	1-14	1954	1350	1-4	1963	1947	1-2
1946	1050		1955	1400		1964	1954	
1947	1102		1956	1450		1965	1961	
1948	1132	1-4	1957	1520		1966	1991	
1949	1162		1958	1571	1-2	1967	2011	
1950	1186		1959	1641		1968	2091	1
1951	1197		1960	1741		1969	2141	
1952	1250		1961	1881		1970	A2151	
1953	1290		1962	1941		1971	A2161	

A In press.

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Vecchioli, John, and Miller, E. G., 1973, Water resources of  
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Geol. Survey Water-Supply Paper 1974, 77 p.



Table 5.--Factors for converting English units to International System (SI) units

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

Multiply English units	By	To obtain SI units
<i>Length</i>		
inches (in)	25.4	millimetres (mm)
	.0254	metres (m)
feet (ft)	.3048	metres (m)
yards (yd)	.9144	metres (m)
rods	5.0292	metres (m)
miles (mi)	1.609	kilometres (km)
<i>Area</i>		
acres	4047	square metres (m <sup>2</sup> )
	.4047	*hectares (ha)
	.4047	square hectometres (hm <sup>2</sup> )
	.004047	square kilometres (km <sup>2</sup> )
square miles (mi <sup>2</sup> )	2.590	square kilometres (km <sup>2</sup> )
<i>Volume</i>		
gallons (gal)	3.785	**litres (l)
	3.785	cubic decimetres (dm <sup>3</sup> )
	3.785x10 <sup>-3</sup>	cubic metres (m <sup>3</sup> )
million gallons (10 <sup>6</sup> gal)	3785	cubic metres (m <sup>3</sup> )
	3.785x10 <sup>-3</sup>	cubic hectometres (hm <sup>3</sup> )
cubic feet (ft <sup>3</sup> )	28.32	cubic decimetres (dm <sup>3</sup> )
	.02832	cubic metres (m <sup>3</sup> )
cfs-days [(ft <sup>3</sup> /s) · d]	2447	cubic metres (m <sup>3</sup> )
	2.447x10 <sup>-3</sup>	cubic hectometres (hm <sup>3</sup> )
acre-feet (acre-ft)	1233	cubic metres (m <sup>3</sup> )
	1.233x10 <sup>-3</sup>	cubic hectometres (hm <sup>3</sup> )
	1.233x10 <sup>-6</sup>	cubic kilometres (km <sup>3</sup> )
<i>Flow</i>		
cubic feet per second (ft <sup>3</sup> /s)	28.32	litres per second (l/s)
	28.32	cubic decimetres per second (dm <sup>3</sup> /s)
	.02832	cubic metres per second (m <sup>3</sup> /s)
gallons per minute (gpm)	.06309	litres per second (l/s)
	.06309	cubic decimetres per second (dm <sup>3</sup> /s)
	6.309x10 <sup>-5</sup>	cubic metres per second (m <sup>3</sup> /s)
million gallons per day (mgd)	43.81	cubic decimetres per second (dm <sup>3</sup> /s)
	.04381	cubic metres per second (m <sup>3</sup> /s)
<i>Mass</i>		
tons (short)	.9072	tonnes (t)

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

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

## 25

LOCATION.--Lat 41°15'36", long 74°32'56", Sussex County, New Jersey at bridge on the Bassetts Bridge Road, 0.6 mi (1.0 km) upstream from small tributary, 2.0 mi (3.2 km) south of the New York-New Jersey State line, and 3.0 mi (4.8 km) south of Unionville, N. Y.

REMARKS.--Miscellaneous storm sediment samples collected during water year 1971.

DATE	TIME	INSTANTANEOUS DIS-CHARGE (CFS)	ELEV. OF LAND SURFACE DATUM (FT. ABOVE MSL)	TEMPERATURE (DEG C)	SPECIFIC CONDUCTANCE (MICRO-MHOS)	PH (UNITS)	DISSOLVED OXYGEN (MG/L)	BIO-CHEMICAL OXYGEN DEMAND 5 DAY (MG/L)	TURBIDITY (JTU)	COLOR (PLATINUM-COBALT UNITS)
DEC. 04...	0800	102	390	3.0	309	7.6	12.4	1.3	--	--
FEB. 12...	1115	184	390	.0	301	7.4	13.6	1.4	--	--
APR. 18...	0730	452	390	11.5	254	7.6	8.4	1.4	--	--
MAY 21...	1145	167	390	17.0	258	8.8	7.0	2.5	--	--
JULY 10...	1430	44	390	27.5	381	8.9	8.6	2.3	--	--
AUG. 21...	1830	41	390	--	372	8.1	9.6	2.8	30	5
SEP. 18...	1500	102	390	19.0	326	7.6	8.4	5.2	--	--

[illegible]

01368000 WALLKILL RIVER NEAR UNIONVILLE N. Y. (OWEN, N. J.)--Continued

## WATER QUALITY DATA, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DATE	IMME- DIATE COLI- FORM (COL. PER 100 ML)	FECAL COLI- FORM (COL. PER 100 ML)	STREP- TOCOCCI (COL. ONIES PER 100 ML)	ALKA- LINITY AS CAC03 (MG/L)	CAR- BONATE (C03) (MG/L)	BICAR- BONATE (HC03) (MG/L)	CARBON DIOXIDE (C02) (MG/L)	TOTAL CAL- CIUM (CA) (MG/L)	TOTAL MAG- NE- SIUM (MG) (MG/L)	TOTAL SODIUM (NA) (MG/L)
DEC. 04...	0	88	6	--	--	--	--	--	--	--
FEB. 12...	138	20	6	--	--	--	--	--	--	--
APR. 18...	1370	1240	100	--	--	--	--	--	--	--
MAY 21...	0	2080	16	--	--	--	--	--	--	--
JULY 10...	350	130	190	--	--	--	--	--	--	--
AUG. 21...	--	196	430	121	0	147	1.9	41	14	13
SEP. 18...	13000	648	40	--	--	--	--	--	--	--

[illegible]





[illegible][illegible]

## HACKENSACK RIVER BASIN

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01377000 HACKENSACK RIVER AT RIVERVALE, N. J.--Continued

## WATER QUALITY DATA, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DATE	DIS- SOLVED ARSENIC (AS) (UG/L)	DIS- SOLVED BARIUM (BA) (UG/L)	DIS- SOLVED BERYL- LIUM (BE) (UG/L)	DIS- SOLVED BISMUTH (BI) (UG/L)	DIS- SOLVED BORON (B) (UG/L)	DIS- SOLVED CAD- MIUM (CD) (UG/L)	DIS- SOLVED CHRO- MIUM (CR) (UG/L)	DIS- SOLVED COBALT (CO) (UG/L)
AUG. 21...	2	61	0	<4	32	<2	<2	<3

DATE	DIS- SOLVED COPPER (CU) (UG/L)	DIS- SOLVED LEAD (PB) (UG/L)	DIS- SOLVED MOLYB- DENUM (MO) (UG/L)	DIS- SOLVED NICKEL (NI) (UG/L)	DIS- SOLVED SILVER (AG) (UG/L)	DIS- SOLVED STRON- TIUM (SR) (UG/L)	DIS- SOLVED VANA- DIUM (V) (UG/L)	DIS- SOLVED ZINC (ZN) (UG/L)	DIS- SOLVED TIN (SN) (UG/L)
AUG. 21...	9	<4	0	<2	0	120	<2.0	2	<3

DATE	DIS- SOLVED ALUM- INIUM (AL) (UG/L)	DIS- SOLVED GALLIUM (GA) (UG/L)	DIS- SOLVED GER- MANIUM (GE) (UG/L)	DIS- SOLVED LITHIUM (LI) (UG/L)	DIS- SOLVED SELE- NIUM (SE) (UG/L)	DIS- SOLVED TI- TANIUM (TI) (UG/L)	DIS- SOLVED ZIR- CONIUM (ZR) (UG/L)	DIS- SOLVED MERCURY (HG) (UG/L)
AUG. 21...	47	<2	<4	0	0	<2	<4	<.5

## SUSPENDED-SEDIMENT DISCHARGE MEASUREMENTS, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DATE	TIME	TEMPER- ATURE (DEG C)	INSTAN- TANEOUS DIS- CHARGE (CFS)	SUS- PENDE SEDIM- ENT CHARGE (MG/L)	SUS- PENDE SEDIM- ENT DIS- CHARGE (T/DAY)
MAR. 19...	0945	4.5	92	14	3.5
APR. 01...	1200	10.5	270	24	17
JULY 12...	1200	24.0	66	31	5.5
AUG. 23...	1215	24.5	46	24	3.0
SEP. 04...	1145	--	50	33	4.5
30...	1055	16.3	21	19	1.1

LOCATION.--Lat 40°56'52", long 74°01'34", Bergen County, at Oradell Avenue bridge in Oradell, 1,000 ft (305 m) upstream of gaging station.

DRAINAGE AREA.--113 mi<sup>2</sup> (293 km<sup>2</sup>).

PERIOD OF RECORD.--Chemical analyses: Water years 1968-72 (partial-record station), October 1972 to September 1974.

DATE	TIME	INSTANTANEOUS DIS-CHARGE (CFS)	ELEV. OF LAND SURFACE DATUM (FT. ABOVE MSL)	TEMPERATURE (DEG C)	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)	DISSOLVED OXYGEN (MG/L)	BIO-CHEMICAL OXYGEN DEMAND 5 DAY (MG/L)	TURBIDITY (JTU)	COLOR (PLATINUM-COBALT UNITS)
NOV. 27...	1345	16	6.2	8.5	325	--	11.4	2.9	--	--
FEB. 12...	1115	16	6.2	1.6	319	7.8	1.3	2.1	--	--
APR. 17...	1115	95	6.2	10.0	317	7.9	11.8	2.4	--	--
MAY 16...	1230	41	6.2	19.0	311	7.8	8.0	3.6	--	--
JUNE 12...	1315	16	6.2	21.9	348	7.8	8.6	.0	--	--
JULY 10...	0930	14	6.2	25.0	353	8.3	8.0	>8.3	--	--
AUG. 21...	1015	22	6.2	24.8	313	7.8	8.0	1.9	5	0
SEP. 18...	0940	16	6.2	20.8	237	8.0	9.2	2.4	--	--

[illegible]

01378500 HACKENSACK RIVER AT NEW MILFORD, N. J.--Continued

## WATER QUALITY DATA, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DATE	IMMEDIATE COLIFORM (COL. PER 100 ML)	FECAL COLIFORM (COL. PER 100 ML)	STREPTOCOCCI (COLONIES PER 100 ML)	ALKALINITY AS CaCO <sub>3</sub> (MG/L)	CARBONATE (CO <sub>3</sub> ) (MG/L)	BICARBONATE (HCO <sub>3</sub> ) (MG/L)	CARBON DIOXIDE (CO <sub>2</sub> ) (MG/L)	TOTAL MAGNESIUM (MG)	TOTAL SODIUM (NA) (MG/L)
NOV. 27...	0	260	53	--	--	--	--	--	--
FEB. 12...	2	0	2	--	--	--	--	--	--
APR. 17...	32	10	2	--	--	--	--	--	--
MAY 16...	42	--	28	--	--	--	--	--	--
JUNE 12...	148	8	40	--	--	--	--	--	--
JULY 10...	610	28	0	--	--	--	--	--	--
AUG. 21...	80	2	10	69	0	84	2.1	7.3	18
SEP. 18...	54	20	296	--	--	--	--	--	--

[illegible]



## HACKENSACK RIVER BASIN

01378570 HACKENSACK RIVER AT HACKENSACK, N. J.

LOCATION.--Lat 40°52'45", long 74°02'25", Bergen County, at Court Street bridge in Hackensack.

DRAINAGE AREA.--131 mi<sup>2</sup> (339 km<sup>2</sup>).

PERIOD OF RECORD.--Chemical analyses: June 1970 to September 1974.

REMARKS.--Operated as part of the USGS-EPA Surveillance Network.

## WATER QUALITY DATA. WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DATE	TIME	DEPTH (FT)	PER- CENT OF TOTAL DEPTH	TEMPER- ATURE (DEG C)	AIR TEMPER- ATURE (DEG C)	SPE- CIFIC CON- DUCT- ANCE (MICRO- MHOS)	PH (UNITS)	DIS- SOLVED OXYGEN (MG/L)	TUR- BID- ITY (JTU)
OCT. 30...	1100	6.0	50	14.0	12.0	5265	8.3	7.2	9
NOV. 27...	1415	4.0	50	11.9	45.0	7860	--	1.0	25
FEB. 14...	1000	1.0	50	2.0	38.0	737	5.8	10.6	20
APR. 19...	0930	5.0	50	13.0	8.3	360	7.7	7.2	20
MAY 17...	0945	7.0	50	20.9	23.3	402	8.5	4.2	30
JUNE 26...	1205	3.5	50	22.4	20.5	2880	6.5	2.6	10

DATE	TOTAL NITRITE (N) (MG/L)	TOTAL NITRATE (N) (MG/L)	TOTAL KJEL- DAHL NITRO- GEN (N) (MG/L)	AMMONIA NITRO- GEN (N) (MG/L)	ORGANIC NITRO- GEN (N) (MG/L)	TOTAL NITRO- GEN (N) (MG/L)	TOTAL PHOS- PHORUS (P) (MG/L)	TOTAL ORTHO PHOS- PHORUS (P) (MG/L)	DIS- SOLVED ORTHO. PHOS- PHORUS (P) (MG/L)
OCT. 30...	.00	.00	3.8	--	--	3.8	.86	--	--
NOV. 27...	.07	.47	7.4	7.3	.10	7.9	1.6	1.0	1.0
FEB. 14...	.03	1.7	1.8	1.4	.40	3.5	.36	--	.10
APR. 19...	.03	.97	1.4	.90	.50	2.4	.37	.07	--
MAY 17...	.05	.95	2.0	.55	1.5	3.0	.50	.08	--
JUNE 26...	.07	.30	4.6	3.5	1.1	5.0	.71	.31	--

DATE	TOTAL ORGANIC CARBON (C) (MG/L)	IMME- DIATE COLI- FORM (COL. PER 100 ML)	FECAL COLI- FORM (COL. PER 100 ML)	STREP- TOCOCCI (COL- ONIES PER 100 ML)	CHLORO- PHYLL A (UG/L)	CHLORO- PHYLL B (UG/L)	DIS- SOLVED CHLO- RIDE (CL) (MG/L)	TOTAL IRON (FE) (UG/L)	TOTAL LEAD (PB) (UG/L)
OCT. 30...	16	--	20000	--	--	--	1700	--	4
NOV. 27...	--	1000	3000	300	6.6	--	2400	--	2
FEB. 14...	5.0	13600	5000	1400	2.8	--	170	1500	33
APR. 19...	--	11000	9000	840	25	33	46	--	23
MAY 17...	--	41500	6400	460	12	28	57	--	36
JUNE 26...	13	10000	23800	1560	11	21	650	--	12

## HACKENSACK RIVER BASIN

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01378570 HACKENSACK RIVER AT HACKENSACK, N. J.--Continued

## WATER QUALITY DATA, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DATE	ALDRIN (UG/L)	ALDRIN IN BOTTOM DE- POSITS (UG/KG)	LINDANE (UG/L)	LINDANE IN BOTTOM DE- POSITS (UG/KG)	CHLOR- DANE (UG/L)	CHLOR- DANE IN BOTTOM DE- POSITS (UG/KG)	DDD (UG/L)	DDD IN BOTTOM DE- POSITS (UG/KG)	DDE (UG/L)	DDE IN BOTTOM DE- POSITS (UG/KG)	DDT (UG/L)	DDT IN BOTTOM DE- POSITS (UG/KG)
MAY 17...	.00	.0	.00	.0	.1	430	.01	54	.00	3.8	.00	3.2

DATE	DI- ELDRIN (UG/L)	DI- ELDRIN IN BOTTOM DE- POSITS (UG/KG)	ENDRIN (UG/L)	ENDRIN IN BOTTOM DE- POSITS (UG/KG)	ETHION (UG/L)	TOX- APHENE (UG/L)	TOX- APHENE IN BOTTOM DE- POSITS (UG/KG)	HEPTA- CHLOR (UG/L)	HEPTA- CHLOR IN BOTTOM DE- POSITS (UG/KG)	HEPTA- CHLOR EPOXIDE (UG/L)	HEPTA- CHLOR EPOXIDE IN BOT- TOM DE- POSITS (UG/KG)
MAY 17...	.00	5.3	.00	.0	.00	0	0	.00	.0	.00	.0

DATE	PCB (UG/L)	PCB IN BOTTOM DE- POSITS (UG/KG)	MALA- THION (UG/L)	PARA- THION (UG/L)	DI- AZINON (UG/L)	METHYL PARA- THION (UG/L)	2,4-D (UG/L)	2,4,5-T (UG/L)	SILVEX (UG/L)	TRI- THION (UG/L)	METHYL TRI- THION (UG/L)
MAY 17...	.0	160	.01	.00	.04	.00	.14	.01	.03	.00	.00

LOCATION.--Lat 40°40'48", long 74°31'45", Somerset County, at Davis Bridge, 0.7 mi (1.1 km) northwest of Millington, 1.8 mi (2.9 km) downstream from Black Brook, and 200 ft (61 m) upstream from gaging station.

PERIOD OF RECORD.--Chemical analyses: November 1962 to September 1965, water years 1966-72 (partial-record station), October 1972 to September 1974.

REMARKS.--Miscellaneous storm sediment samples collected during water years 1971-74.

DATE	TIME	INSTANTANEOUS DIS-CHARGE (CFS)	ELEV. OF LAND SURFACE DATUM (FT. ABOVE MSL)	TEMPER-ATURE (DEG C)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	PH (UNITS)	DIS-SOLVED OXYGEN (MG/L)	BIO-CHEM-ICAL OXYGEN DEMAND 5 DAY (MG/L)	TUR-BID-ITY (JTU)	COLOR (PLAT-INUM-COBALT UNITS)
DEC. 04...	1420	52	216	3.7	186	7.5	11.0	.6	--	--
JAN. 23...	1045	232	216	.5	--	--	--	--	--	--
FEB. 05...	1315	66	216	.5	175	6.8	11.8	.2	--	--
MAR. 19...	1500	167	216	6.0	--	--	--	--	--	--
APR. 09...	1030	285	216	7.0	--	--	--	--	--	--
17...	1415	272	216	13.1	131	6.9	9.0	1.3	--	--
MAY 20...	1350	52	216	19.3	146	6.2	4.8	1.6	--	--
JUNE 20...	1345	26	216	--	200	7.1	7.3	1.2	--	--
JULY 18...	1115	5.0	216	23.2	207	8.7	6.3	3.2	--	--
AUG. 20...	1145	68	216	--	219	8.5	4.2	1.6	--	--
SEP. 04...	1515	404	216	18.5	--	--	--	--	--	--
11...	1330	133	216	20.0	151	6.0	4.6	1.0	5	80
30...	1250	349	216	16.8	--	--	--	--	--	--

[illegible]

## PASSAIC RIVER BASIN

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01379000 PASSAIC RIVER NEAR MILLINGTON, N. J.--Continued

## WATER QUALITY DATA, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DATE	IMME- DIATE COLI- FORM (COL. PER 100 ML)	FECAL COLI- FORM (COL. PER 100 ML)	STREP- TOCOCCI (COL- ONIES PER 100 ML)	ALKA- LINITY AS CAC03 (MG/L)	BICAR- BONATE (HC03) (MG/L)	CARBON DIOXIDE (C02) (MG/L)	TOTAL CAL- CIUM (CA) (MG/L)	TOTAL MAG- NE- SIUM (MG) (MG/L)	TOTAL SODIUM (NA) (MG/L)
DEC. 04...	1750	148	300	--	--	--	--	--	--
JAN. 23...	--	--	--	--	--	--	--	--	--
FEB. 05...	1288	34	16	--	--	--	--	--	--
MAR. 19...	--	--	--	--	--	--	--	--	--
APR. 09...	--	--	--	--	--	--	--	--	--
17...	1840	90	140	--	--	--	--	--	--
MAY 20...	1450	184	164	--	--	--	--	--	--
JUNE 20...	5900	1280	440	--	--	--	--	--	--
JULY 18...	3000	300	460	--	--	--	--	--	--
AUG. 20...	8700	440	1740	--	--	--	--	--	--
SEP. 04...	--	--	--	--	--	--	--	--	--
11...	7200	180	1580	34	42	67	12	5.0	9.0
30...	--	--	--	--	--	--	--	--	--

DATE	TOTAL PO- TAS- SIUM (K) (MG/L)	DIS- SOLVED CHLO- RIDE (CL) (MG/L)	DIS- SOLVED SULFATE (S04) (MG/L)	TOTAL FLUO- RIDE (F) (MG/L)	DIS- SOLVED SILICA (SI02) (MG/L)	DIS- SOLVED SOLIDS (RESI- DUE AT 180 C) (MG/L)	DIS- SOLVED SOLIDS (TONS PER AC-FT)	TOTAL IRON (FE) (UG/L)	TOTAL MAN- GANESE (MN) (UG/L)
DEC. 04...	--	--	--	--	--	--	--	--	--
JAN. 23...	--	--	--	--	--	--	--	--	--
FEB. 05...	--	--	--	--	--	--	--	--	--
MAR. 19...	--	--	--	--	--	--	--	--	--
APR. 09...	--	--	--	--	--	--	--	--	--
17...	--	--	--	--	--	--	--	--	--
MAY 20...	--	--	--	--	--	--	--	--	--
JUNE 20...	--	--	--	--	--	--	--	--	--
JULY 18...	--	--	--	--	--	--	--	--	--
AUG. 20...	--	--	--	--	--	--	--	--	--
SEP. 04...	--	--	--	--	--	--	--	--	--
11...	1.5	12	13	.2	13	121	.16	1300	130
30...	--	--	--	--	--	--	--	--	--

## SUSPENDED-SEDIMENT DISCHARGE MEASUREMENTS, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DATE	TIME	TEMPER- ATURE (DEG C)	INSTAN- TANEOUS DIS- CHARGE (CFS)	SUS- PENDE SEDIM- ENT (MG/L)	SUS- PENDE SEDIM- ENT DIS- CHARGE (T/DAY)
JAN. 23...	1045	.5	230	4	2.5
MAR. 19...	1500	6.0	167	6	2.7
APR. 09...	1030	7.0	288	22	17
17...	1415	13.1	272	22	16
SEP. 04...	1515	18.5	407	40	44
30...	1250	16.8	210	10	5.7



## PASSAIC RIVER BASIN

01379500 PASSAIC RIVER NEAR CHATHAM, N. J.

LOCATION.--Lat 40°43'31", long 74°23'23", Morris County, at Stanley Avenue bridge in Chatham, 0.3 mi (0.5 km) upstream from Canoe Brook, and 150 ft (45.7 m) upstream from gaging station.

DRAINAGE AREA.--100 mi<sup>2</sup> (259 km<sup>2</sup>).

PERIOD OF RECORD.--Chemical analyses: April 1963 to September 1965, water years 1966-72 (partial-record station), October 1972 to September 1974.

Water temperatures: October 1966 to September 1968.

Sediment records: July 1963 to September 1968.

REMARKS.--Miscellaneous storm sediment samples collected during water years 1971-73.

## WATER QUALITY DATA, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	ELEV. OF LAND SURFACE DATUM (FT. ABOVE MSL)	TEMPERATURE (DEG C)	SPECIFIC CONDUCTANCE (MICRO-MHOS)	PH (UNITS)	DISSOLVED OXYGEN (MG/L)	BIOCHEMICAL OXYGEN DEMAND 5 DAY (MG/L)	TURBIDITY (JTU)	COLOR (PLATINUM-COBALT UNITS)
DEC. 04...	1400	83	194	4.7	269	7.6	11.4	1.9	--	--
FEB. 05...	1245	111	194	.4	335	6.7	12.4	1.9	--	--
APR. 17...	1340	E570	194	13.3	162	6.8	9.6	2.3	--	--
MAY 20...	1320	85	194	21.2	270	6.4	4.9	4.4	--	--
JUNE 20...	1230	42	194	23.2	411	7.0	4.1	4.9	--	--
JULY 18...	1145	16	194	24.2	990	7.9	6.3	7.5	--	--
AUG. 20...	1215	87	194	--	408	8.0	5.4	3.2	--	--
SEP. 11...	1400	E302	194	21.0	185	4.8	6.4	1.9	30	50

DATE	TOTAL NITRITE (N) (MG/L)	TOTAL NITRATE (N) (MG/L)	TOTAL KJELDAHL NITROGEN (N) (MG/L)	AMMONIA NITROGEN (N) (MG/L)	ORGANIC NITROGEN (N) (MG/L)	TOTAL NITROGEN (N) (MG/L)	TOTAL PHOSPHORUS (P) (MG/L)	TOTAL ORTHO PHOSPHORUS (P) (MG/L)	DISSOLVED ORTHO PHOSPHORUS (P) (MG/L)	TOTAL ORGANIC CARBON (C) (MG/L)
DEC. 04...	.03	.76	1.1	1.0	.10	1.9	.42	.35	.36	--
FEB. 05...	.02	.97	1.0	.78	.22	2.0	.28	.22	.22	6.0
APR. 17...	--	--	--	--	--	--	--	--	--	--
MAY 20...	.10	.70	1.0	.51	.49	1.8	.43	.33	--	14
JUNE 20...	--	--	--	--	--	--	--	--	--	--
JULY 18...	--	--	--	--	--	--	--	--	--	--
AUG. 20...	--	--	--	--	--	--	--	--	--	--
SEP. 11...	.04	.36	.87	.67	.20	1.3	.33	.18	--	17

DATE	IMMEDIATE COLIFORM (COL. PER 100 ML)	FECAL COLIFORM (COL. PER 100 ML)	STREPTOCOCCI (COLONIES PER 100 ML)	ALKALINITY AS CaCO3 (MG/L)	BICARBONATE (HCO3) (MG/L)	CARBON DIOXIDE (CO2) (MG/L)	TOTAL CALCIUM (CA) (MG/L)	TOTAL MAGNESIUM (MG) (MG/L)	TOTAL SODIUM (NA) (MG/L)	TOTAL POTASSIUM (K) (MG/L)
DEC. 04...	100	0	3	--	--	--	--	--	--	--
FEB. 05...	106	4	12	--	--	--	--	--	--	--
APR. 17...	792	124	76	--	--	--	--	--	--	--
MAY 20...	1060	272	532	--	--	--	--	--	--	--
JUNE 20...	2000	420	280	--	--	--	--	--	--	--
JULY 18...	0	80	17600	--	--	--	--	--	--	--
AUG. 20...	2800	2200	3600	--	--	--	--	--	--	--
SEP. 11...	3800	920	1900	35	43	1090	19	6.6	11	2.0

## PASSAIC RIVER BASIN

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01379500 PASSAIC RIVER NEAR CHATHAM, N. J.--Continued

## WATER QUALITY DATA, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DATE	DIS-SOLVED CHLORIDE (CL) (MG/L)	DIS-SOLVED SULFATE (SO4) (MG/L)	TOTAL FLUORIDE (F) (MG/L)	DIS-SOLVED SILICA (SiO2) (MG/L)	DIS-SOLVED SOLIDS (RESIDUE AT 180 C) (MG/L)	DIS-SOLVED SOLIDS (TONS PER AC-FT)	TOTAL IRON (FE) (UG/L)	DIS-SOLVED IRON (FE) (UG/L)	TOTAL MANGANESE (MN) (UG/L)	DIS-SOLVED MANGANESE (MN) (UG/L)
DEC. 04...	--	--	--	--	--	--	--	--	--	--
FEB. 05...	--	--	--	--	--	--	--	--	--	--
APR. 17...	--	--	--	--	--	--	--	--	--	--
MAY 20...	--	--	--	--	--	--	--	--	--	--
JUNE 20...	--	--	--	--	--	--	--	--	--	--
JULY 18...	--	--	--	--	--	--	--	--	--	--
AUG. 20...	--	--	--	--	--	--	--	--	--	--
SEP. 11...	14	18	.3	14	136	.19	2400	410	220	170

DATE	DIS-SOLVED BARIUM (BA) (UG/L)	DIS-SOLVED BERYLLIUM (BE) (UG/L)	DIS-SOLVED BISMUTH (BI) (UG/L)	DIS-SOLVED BORON (B) (UG/L)	DIS-SOLVED CADMIUM (CD) (UG/L)	DIS-SOLVED CHROMIUM (CR) (UG/L)	DIS-SOLVED COBALT (CO) (UG/L)	DIS-SOLVED COPPER (CU) (UG/L)	DIS-SOLVED LEAD (PB) (UG/L)	DIS-SOLVED MOLYBDENUM (MO) (UG/L)	DIS-SOLVED NICKEL (NI) (UG/L)
SEP. 11...	26	0	0	72	<2	<1	0	6	1	0	6

DATE	DIS-SOLVED SILVER (AG) (UG/L)	DIS-SOLVED STRONTIUM (SR) (UG/L)	DIS-SOLVED VANADIUM (V) (UG/L)	DIS-SOLVED ZINC (ZN) (UG/L)	DIS-SOLVED TIN (SN) (UG/L)	DIS-SOLVED ALUMINUM (AL) (UG/L)	DIS-SOLVED GALLIUM (GA) (UG/L)	DIS-SOLVED GERMANIUM (GE) (UG/L)	DIS-SOLVED LITHIUM (LI) (UG/L)	DIS-SOLVED TANTALUM (TI) (UG/L)	DIS-SOLVED ZIRCONIUM (ZR) (UG/L)
SEP. 11...	0	90	2.0	10	<1	65	0	<1	2	1	<2

## PASSAIC RIVER BASIN

01380500 ROCKAWAY RIVER ABOVE RESERVOIR AT BOONTON, N. J.

LOCATION.--Lat 40°54'06", long 74°24'40", Morris County, at gaging station on right bank at Morris Avenue in Boonton, 1.8 mi (2.9 km) upstream from dam on Boonton Reservoir.

DRAINAGE AREA.--116 mi<sup>2</sup> (300 km<sup>2</sup>).

PERIOD OF RECORD.--Chemical analyses: November 1962 to September 1965, water years 1966-72 (partial-record station), October 1972 to September 1974.

## WATER QUALITY DATA, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	ELEV. OF LAND SURFACE DATUM (FT. ABOVE MSL)	TEMPERATURE (DEG C)	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)	DISSOLVED OXYGEN (MG/L)	BIOCHEMICAL OXYGEN DEMAND 5 DAY (MG/L)	TURBIDITY (JTU)	COLOR (PLATINUM-COBALT UNITS)
NOV. 28...	0830	300	364	13.4	--	7.9	7.0	8.8	--	--
28...	1415	258	364	11.1	162	7.3	11.8	2.7	--	--
FEB. 05...	1000	144	364	.0	167	7.7	14.5	.7	--	--
APR. 18...	1015	478	364	11.8	152	8.1	11.3	1.0	--	--
MAY 21...	1030	225	364	18.0	148	7.9	4.7	1.0	--	--
JUNE 13...	0945	84	364	19.6	245	7.6	8.2	1.0	--	--
JULY 11...	1215	64	364	24.3	268	8.9	8.4	.9	--	--
AUG. 27...	1115	53	364	22.4	235	7.9	9.2	1.0	--	--
SEP. 17...	1245	106	364	18.4	184	8.2	10.2	1.8	3	4

DATE	TOTAL NITRITE (N) (MG/L)	TOTAL NITRATE (N) (MG/L)	TOTAL KJELDAHL NITROGEN (N) (MG/L)	AMMONIA NITROGEN (N) (MG/L)	ORGANIC NITROGEN (N) (MG/L)	TOTAL NITROGEN (N) (MG/L)	TOTAL PHOSPHORUS (P) (MG/L)	TOTAL ORTHO PHOSPHORUS (P) (MG/L)	DISSOLVED ORTHO PHOSPHORUS (P) (MG/L)	TOTAL ORGANIC CARBON (C) (MG/L)
NOV. 28...	--	--	--	--	--	--	--	--	--	--
28...	.01	.49	.21	.11	.10	.72	.05	.02	.02	--
FEB. 05...	.01	.55	.08	.03	.05	.64	.02	.00	.00	3.0
APR. 18...	--	--	--	--	--	--	--	--	--	--
MAY 21...	.01	.41	.22	.07	.15	.64	.04	.02	--	4.4
JUNE 13...	--	--	--	--	--	--	--	--	--	--
JULY 11...	--	--	--	--	--	--	--	--	--	--
AUG. 27...	--	--	--	--	--	--	--	--	--	--
SEP. 17...	.07	1.4	.39	.19	.20	1.9	.24	.19	--	8.6

DATE	IMMEDIATE COLIFORM (COL. PER 100 ML)	FECAL COLIFORM (COL. PER 100 ML)	STREPTOCOCCI (COLONIES PER 100 ML)	ALKALINITY AS CaCO <sub>3</sub> (MG/L)	BICARBONATE (HCO <sub>3</sub> ) (MG/L)	CARBON DIOXIDE (CO <sub>2</sub> ) (MG/L)	TOTAL CALCIUM (CA) (MG/L)	TOTAL MAGNESIUM (MG/L)	TOTAL SODIUM (NA) (MG/L)	TOTAL POTASSIUM (K) (MG/L)
NOV. 28...	--	--	--	--	--	--	--	--	--	--
28...	2310	660	1584	--	--	--	--	--	--	--
FEB. 05...	220	106	38	--	--	--	--	--	--	--
APR. 18...	1840	696	120	--	--	--	--	--	--	--
MAY 21...	1900	160	52	--	--	--	--	--	--	--
JUNE 13...	1300	170	312	--	--	--	--	--	--	--
JULY 11...	2700	130	420	--	--	--	--	--	--	--
AUG. 27...	500	164	50	--	--	--	--	--	--	--
SEP. 17...	1220	124	205	43	52	.5	16	6.1	9.1	1.9

## PASSAIC RIVER BASIN

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01380500 ROCKAWAY RIVER ABOVE RESERVOIR AT BOONTON, N. J.--Continued

## WATER QUALITY DATA, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DATE	DIS- SOLVED CHLO- RIDE (CL) (MG/L)	DIS- SOLVED SULFATE (SO4) (MG/L)	TOTAL FLUO- RIDE (F) (MG/L)	DIS- SOLVED SILICA (SIO2) (MG/L)	DIS- SOLVED SOLIDS (RESI- DUE AT 180 C) (MG/L)	DIS- SOLVED SOLIDS (TONS PER AC-FT)	TOTAL IRON (FE) (UG/L)	DIS- SOLVED IRON (FE) (UG/L)	TOTAL MAN- GANESE (MN) (UG/L)	DIS- SOLVED MAN- GANESE (MN) (UG/L)
NOV. 28...	--	--	--	--	--	--	--	--	--	--
FEB. 05...	--	--	--	--	--	--	--	--	--	--
APR. 18...	--	--	--	--	--	--	--	--	--	--
MAY 21...	--	--	--	--	--	--	--	--	--	--
JUNE 13...	--	--	--	--	--	--	--	--	--	--
JULY 11...	--	--	--	--	--	--	--	--	--	--
AUG. 27...	--	--	--	--	--	--	--	--	--	--
SEP. 17...	17	14	.3	7.1	108	.15	430	260	50	46

DATE	DIS- SOLVED ARSENIC (AS) (UG/L)	DIS- SOLVED BARIUM (BA) (UG/L)	DIS- SOLVED BERYL- LIUM (BE) (UG/L)	DIS- SOLVED BISMUTH (BI) (UG/L)	DIS- SOLVED BORON (B) (UG/L)	DIS- SOLVED CAD- MIUM (CD) (UG/L)	DIS- SOLVED CHRO- MIUM (CR) (UG/L)	DIS- SOLVED COBALT (CO) (UG/L)
SEP. 17...	2	16	0	0	34	<2	0	0

DATE	DIS- SOLVED COPPER (CU) (UG/L)	DIS- SOLVED LEAD (PB) (UG/L)	DIS- SOLVED MOLYB- DENUM (MO) (UG/L)	DIS- SOLVED NICKEL (NI) (UG/L)	DIS- SOLVED SILVER (AG) (UG/L)	DIS- SOLVED STRON- TIUM (SR) (UG/L)	DIS- SOLVED VANA- DIUM (V) (UG/L)	DIS- SOLVED ZINC (ZN) (UG/L)	DIS- SOLVED TIN (SN) (UG/L)
SEP. 17...	2	0	0	3	0	57	<.8	4	0

DATE	DIS- SOLVED ALUM- INUM (AL) (UG/L)	DIS- SOLVED GALLIUM (GA) (UG/L)	DIS- SOLVED GER- MANIUM (GE) (UG/L)	DIS- SOLVED LITHIUM (LI) (UG/L)	DIS- SOLVED SELE- NIUM (SE) (UG/L)	DIS- SOLVED TAN- IUM (TI) (UG/L)	DIS- SOLVED ZIR- CONIUM (ZR) (UG/L)	DIS- SOLVED MERCURY (HG) (UG/L)
SEP. 17...	30	0	0	1	<2	0	<2	<.5

LOCATION.--Lat 40°51'29", long 74°20'53", Morris County, at bridge on U.S. Route 46, at intersection of New Road.  
DRAINAGE AREA.--136 mi<sup>2</sup> (352 km<sup>2</sup>).

PERIOD OF RECORD.--Chemical analyses: June 1963 to September 1965, water years 1966-72 (partial-record station), October 1972 to September 1974.

DATE	TIME	TEMPERATURE (DEG C)	SPECIFIC CONDUCTANCE (MICRO- MHOS)	PH  (UNITS)	DIS- SOLVED OXYGEN (MG/L)	BIO- CHEM- ICAL OXYGEN DEMAND 5 DAY (MG/L)	TUR- BID- ITY (JTU)	COLOR (PLAT- INUM- COBAL- UNITS)	TOTAL NITRITE (N) (MG/L)	TOTAL NITRATE (N) (MG/L)
NOV. 28...	1330	12.5	274	7.3	11.0	6.8	--	--	.01	1.2
FEB. 05...	1630	1.5	191	7.5	13.5	2.4	--	--	.01	.95
APR. 18...	1445	12.9	175	7.6	10.8	1.7	--	--	--	--
MAY 22...	1100	18.9	201	7.3	6.4	4.9	--	--	.21	.64
JUNE 13...	1330	17.9	387	7.4	6.8	4.5	--	--	--	--
JULY 11...	1115	19.9	361	7.8	6.8	4.3	--	--	--	--
AUG. 22...	1615	20.3	394	7.5	--	4.8	20	2	--	--
SEP. 19...	1200	17.4	367	7.3	5.0	5.6	--	--	--	--

[illegible]



WATER QUALITY DATA, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

[illegible]

LOCATION.--Lat 40°48'21", long 74°27'22", Morris County, at gaging station at Morristown sewage-disposal plant, 0.8 mi (1.3 km) downstream from Morristown, and 9.0 mi (14.5 km) upstream from mouth.

PERIOD OF RECORD.--Chemical analyses: November 1962 to September 1965, water years 1966-72 (partial-record station), October 1972 to September 1974.

REMARKS.--Miscellaneous storm sediment samples collected during water years 1971-74.

DATE	TIME	INSTANTANEOUS DIS-CHARGE (CFS)	ELEV. OF LAND SURFACE DATUM (FT. ABOVE MSL)	TEMPER-ATURE (DEG C)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	PH (UNITS)	DIS-SOLVED OXYGEN (MG/L)	BIO-CHEM-ICAL OXYGEN DEMAND 5 DAY (MG/L)	TUR-BID-ITY (JTU)	COLOR (PLAT-INUM-COBALT UNITS)
DEC.										
04...	1330	29	260	7.7	255	7.8	13.2	1.8	--	--
JAN.										
23...	1115	107	260	3.4	--	--	--	--	--	--
FEB.										
05...	1215	57	260	.5	207	6.8	14.8	2.2	--	--
APR.										
09...	1115	337	260	6.5	--	--	--	--	--	--
17...	1300	103	260	13.6	206	6.8	11.2	1.9	--	--
17...	1315	103	260	13.6	--	--	--	--	--	--
MAY										
20...	1200	55	260	19.1	197	7.2	10.9	2.4	--	--
JUNE										
20...	1145	27	260	22.1	255	7.8	9.9	1.9	--	--
JULY										
11...	1415	40	260	25.8	288	8.7	10.0	2.7	--	--
23...	1415	16	260	23.5	--	--	--	--	--	--
AUG.										
23...	1100	67	260	22.5	--	--	--	--	--	--
27...	1145	21	260	22.8	345	8.1	4.4	--	--	--
SEP.										
12...	1820	22	260	22.5	--	--	--	--	--	--
17...	1410	22	260	20.5	304	--	13.8	3.3	9	1
30...	1330	58	260	17.1	--	--	--	--	--	--

[illegible]

01381500 WHIPPANY RIVER AT MORRISTOWN, N. J.--Continued

## WATER QUALITY DATA, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

[illegible][illegible]

## PASSAIC RIVER BASIN

01381500 WHIPPANY RIVER AT MORRISTOWN, N. J.--Continued

## WATER QUALITY DATA, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

	DIS- SOLVED ARSENIC (AS)	DIS- SOLVED BARIUM (BA)	DIS- SOLVED BERYL- LIUM (BE)	DIS- SOLVED BISMUTH (BI)	DIS- SOLVED BORON (B)	DIS- SOLVED CAD- MIUM (CD)	DIS- SOLVED CHRO- MIUM (CR)	DIS- SOLVED COBALT (CO)
DATE	(UG/L)	(UG/L)	(UG/L)	(UG/L)	(UG/L)	(UG/L)	(UG/L)	(UG/L)
SEP. 17...	<1	17	0	<2	70	<3	<2	<2

	DIS- SOLVED COPPER (CU)	DIS- SOLVED LEAD (PB)	DIS- SOLVED MOLYB- DENUM (MO)	DIS- SOLVED NICKEL (NI)	DIS- SOLVED SILVER (AG)	DIS- SOLVED STRON- TIUM (SR)	DIS- SOLVED VANA- DIUM (V)	DIS- SOLVED ZINC (ZN)	DIS- SOLVED TIN (SN)
DATE	(UG/L)	(UG/L)	(UG/L)	(UG/L)	(UG/L)	(UG/L)	(UG/L)	(UG/L)	(UG/L)
SEP. 17...	4	<2	1	<2	0	97	<2.0	<5	<2

	DIS- SOLVED ALUM- INUM (AL)	DIS- SOLVED GALLIUM (GA)	DIS- SOLVED GER- MANIUM (GE)	DIS- SOLVED LITHIUM (LI)	DIS- SOLVED SELE- NIUM (SE)	DIS- SOLVED TI- TANIUM (TI)	DIS- SOLVED ZIR- CONIUM (ZR)	DIS- SOLVED MERCURY (HG)
DATE	(UG/L)	(UG/L)	(UG/L)	(UG/L)	(UG/L)	(UG/L)	(UG/L)	(UG/L)
SEP. 17...	23	0	<2	3	2	<2	<2	<.5

## SUSPENDED-SEDIMENT DISCHARGE MEASUREMENTS, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DATE	TIME	TEMPERATURE (DEG C)	INSTANTANEOUS DISCHARGE (CFS)	SUSPENDED SEDIMENT (MG/L)	SUSPENDED SEDIMENT DISCHARGE (T/DAY)
JAN. 23...	1115	3.4	110	34	10
APR. 09...	1115	6.5	340	350	321
APR. 17...	1315	13.6	103	28	7.8
JULY 23...	1415	23.5	16	5	.22
AUG. 23...	1100	22.5	67	102	18
SEP. 12...	1820	22.5	22	11	.65
SEP. 30...	1330	17.1	57	26	4.0

## PASSAIC RIVER BASIN

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01381800 WHIPPANY RIVER NEAR PINE BROOK, N. J.

LOCATION.--Lat 40°50'42", long 74°20'51", Morris County, at bridge on New Road, 0.3 mi (0.5 km) southeast of overpass for Interstate 280.

DRAINAGE AREA.--68.5 mi<sup>2</sup> (177 km<sup>2</sup>).

PERIOD OF RECORD.--Chemical analyses: June 1963 to September 1965, water years 1966-72 (partial-record station), October 1972 to September 1974.

## WATER QUALITY DATA, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DATE	TIME	TEMPER- ATURE (DEG C)	SPE- CIFIC CON- DUCT- ANCE (MICRO- MHOS)	PH (UNITS)	DIS- SOLVED OXYGEN (MG/L)	BIO- CHEM- ICAL OXYGEN DEMAND 5 DAY (MG/L)	TUR- BID- ITY (JTU)	COLOR (PLAT- INUM- COBALT UNITS)	TOTAL NITRITE (N) (MG/L)	TOTAL NITRATE (N) (MG/L)	TOTAL KJEL- DAHL NITRO- GEN (N) (MG/L)	AMMONIA NITRO- GEN (N) (MG/L)
NOV. 28...	1500	13.3	261	7.4	7.6	6.0	--	--	.06	.93	.87	.75
FEB. 05...	1700	1.0	348	7.4	10.6	8.0	--	--	.02	1.1	2.4	1.4
APR. 18...	1515	16.0	268	7.4	10.5	2.8	--	--	--	--	--	--
MAY 22...	1130	21.8	322	7.1	4.0	7.6	--	--	.18	1.0	1.7	1.1
JUNE 13...	1400	23.5	435	7.2	4.2	5.0	--	--	--	--	--	--
JULY 11...	1145	24.0	345	7.5	3.9	9.2	--	--	--	--	--	--
AUG. 27...	1035	23.2	485	7.8	4.6	3.5	--	--	--	--	--	--
SEP. 19...	1215	21.3	478	7.1	4.6	5.3	20	8	.19	.67	2.7	2.2

DATE	ORGANIC NITRO- GEN (N) (MG/L)	TOTAL NITRO- GEN (N) (MG/L)	TOTAL PHOS- PHORUS (P) (MG/L)	TOTAL ORTHO- PHOS- PHORUS (P) (MG/L)	DIS- SOLVED ORTHO- PHOS- PHORUS (P) (MG/L)	TOTAL ORGANIC CARBON (C) (MG/L)	IMME- DIATE COLI- FORM (COL. PER 100 ML)	FECAL COLI- FORM (COL. PER 100 ML)	STREP- TOCOCCI (COL- ONIES PER 100 ML)	ALKA- LINITY AS CACO3 (MG/L)	BICAR- BONATE (HCO3) (MG/L)	CARBON DIOXIDE (CO2) (MG/L)
NOV. 28...	.12	1.9	.34	.19	.19	--	10500	560	456	--	--	--
FEB. 05...	1.0	3.5	.48	.34	--	10	--	30	60	--	--	--
APR. 18...	--	--	--	--	--	--	40000	1040	156	--	--	--
MAY 22...	.60	2.9	.55	.24	--	21	140000	11550	370	--	--	--
JUNE 13...	--	--	--	--	--	--	14000	2000	900	--	--	--
JULY 11...	--	--	--	--	--	--	116000	11600	7250	--	--	--
AUG. 27...	--	--	--	--	--	--	57000	5600	1300	--	--	--
SEP. 19...	.50	3.6	.61	.27	--	11	96000	7200	450	87	106	13

DATE	TOTAL CAL- CIUM (CA) (MG/L)	TOTAL MAG- NE- SIUM (MG)	TOTAL SODIUM (NA) (MG/L)	TOTAL PO- TAS- SIUM (K) (MG/L)	DIS- SOLVED CHLO- RIDE (CL) (MG/L)	DIS- SOLVED SULFATE (SO4) (MG/L)	TOTAL FLUO- RIDE (F) (MG/L)	DIS- SOLVED SILICA (SI02) (MG/L)	DIS- SOLVED SOLIDS (RESI- DUE AT 180 C) (MG/L)	DIS- SOLVED SOLIDS (TONS PER AC-FT)	TOTAL IRON (FE) (UG/L)	TOTAL MAN- GANESE (MN) (UG/L)
NOV. 28...	--	--	--	--	--	--	--	--	--	--	--	--
FEB. 05...	--	--	--	--	--	--	--	--	--	--	--	--
APR. 18...	--	--	--	--	--	--	--	--	--	--	--	--
MAY 22...	--	--	--	--	--	--	--	--	--	--	--	--
JUNE 13...	--	--	--	--	--	--	--	--	--	--	--	--
JULY 11...	--	--	--	--	--	--	--	--	--	--	--	--
AUG. 27...	--	--	--	--	--	--	--	--	--	--	--	--
SEP. 19...	33	10	36	2.8	39	69	.2	16	304	.41	1900	320



## PASSAIC RIVER BASIN

01382000 PASSAIC RIVER AT TWO BRIDGES, N. J.

LOCATION.--Lat 40°53'40", long 74°16'23", Passaic County, water-quality recorder at partial-record gaging station at bridge on Two Bridges Road, just above Pompton River, and 0.3 mi (0.5 km) northeast of Two Bridges.

DRAINAGE AREA.--361 mi<sup>2</sup> (935 km<sup>2</sup>).

PERIOD OF RECORD.--Chemical analyses: June 1963 to September 1965, water years 1966-68 (partial-record station), July 1969 to September 1974.

Water temperatures: October 1962 to September 1974.

EXTREMES. - -1973-74:

Specific conductance: Maximum, 687 micromhos Sept. 27; minimum, 112 micromhos Sept. 3.

Dissolved oxygen: Maximum, 12.3 mg/l Jan. 18; minimum, 0.3 mg/l June 11, 12.

Water temperatures: Maximum, 27.5°C July 10; minimum, 0.5°C Feb. 6.

pH: Maximum, 10.9 Aug. 29; minimum, 4.9 Sept. 7.

Period of record:

Specific conductance (1969-74): Maximum, 1,230 micromhos Sept. 15, 1970; minimum, 96 micromhos June 24,

1972.

Dissolved oxygen (1969-74): Maximum, 12.9 mg/l Feb. 19, 1973; minimum, 0.0 mg/l on several days in June 1970.

Water temperatures: Maximum, 28.0°C on many days during summer months; minimum, freezing point on many days during winter months.

pH (1969-74): Maximum, 10.9 Aug. 29, 1974; minimum, 4.9 Sept. 7, 1974.

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

## WATER QUALITY DATA, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DATE	TIME	TEMPERATURE (DEG C)	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)	DISSOLVED OXYGEN (MG/L)	BIOCHEMICAL OXYGEN DEMAND 5 DAY (MG/L)	TURBIDITY (JTU)	COLOR (PLATINUM- COBALT UNITS)	TOTAL NITRITE (N) (MG/L)	TOTAL NITRATE (N) (MG/L)
NOV. 28...	1130	11.9	372	7.2	4.8	6.8	--	--	.09	1.1
FEB. 05...	1345	.4	288	7.1	11.8	3.2	--	--	.02	.89
APR. 18...	1245	13.0	203	7.2	9.2	2.4	--	--	--	--
MAY 22...	0945	19.8	269	7.0	3.2	5.7	--	--	.14	.85
JUNE 13...	1245	23.4	575	7.1	2.6	5.4	--	--	--	--
JULY 11...	1045	26.0	493	7.5	3.6	7.8	--	--	--	--
AUG. 22...	1500	23.8	377	7.4	--	3.6	20	20	--	--
SEP. 19...	1113	19.6	426	7.0	2.6	5.0	--	--	--	--

[illegible]

01382000 PASSAIC RIVER AT TWO BRIDGES, N. J.--Continued

## WATER QUALITY DATA, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DATE	FECAL COLIFORM (COL. PER 100 ML)	STREP-TOCOCOCCI (COLONIES PER 100 ML)	ALKALINITY AS CaCO3 (MG/L)	CARBONATE (CO3) (MG/L)	BICARBONATE (HCO3) (MG/L)	CARBON DIOXIDE (CO2) (MG/L)	TOTAL CALCIUM (CA) (MG/L)	TOTAL MAGNESIUM (MG)	TOTAL SODIUM (NA) (MG/L)
NOV. 28...	240	238	--	--	--	--	--	--	--
FEB. 05...	0	0	--	--	--	--	--	--	--
APR. 18...	44	22	--	--	--	--	--	--	--
MAY 22...	210	54	--	--	--	--	--	--	--
JUNE 13...	360	100	--	--	--	--	--	--	--
JULY 11...	2680	720	--	--	--	--	--	--	--
AUG. 22...	231	40	66	0	80	5.1	22	7.5	28
SEP. 19...	420	52	--	--	--	--	--	--	--

[illegible]

SPECIFIC CONDUCTANCE (MICROMHOS AT 25°C), WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

	FEBRUARY						MARCH			APRIL			MAY		
DAY	MAX	MIN	MEAN		MAX	MIN	MEAN		MAX	MIN	MEAN		MAX	MIN	MEAN
1	245	240	---		---	---	---		---	---	---		361	338	351
2	312	307	310		---	---	---		---	---	---		397	368	378
3	338	310	324		---	---	---		---	---	---		419	387	401
4	348	284	321		---	---	---		---	---	---		456	401	422
5	394	322	334		395	348	---		---	---	---		483	394	435
6	423	336	370		305	290	298		---	---	---		477	407	441
7	419	382	393		307	294	300		---	---	---		488	411	445
8	468	400	422		336	300	320		---	---	---		424	377	390
9	501	459	480		322	298	311		---	---	---		442	376	402
10	486	441	452		331	290	---		---	---	---		401	271	353
11	449	427	434		---	---	---		---	---	---		291	238	255
12	439	397	413		---	---	---		---	---	---		248	230	238
13	408	401	404		---	---	---		---	---	---		225	198	213
14	409	392	399		348	304	---		---	---	---		189	180	182
15	409	397	---		333	300	313		---	---	---		186	179	183
16	---	---	---		310	299	304		---	---	---		---	---	---
17	---	---	---		302	233	276		---	---	---		---	---	---
18	---	---	---		234	209	218		---	---	---		---	---	---
19	---	---	---		208	203	205		---	---	---		---	---	---
20	---	---	---		228	208	219		---	---	---		---	---	---
21	---	---	---		230	216	223		---	---	---		---	---	---
22	---	---	---		229	179	202		---	---	---		---	---	---
23	---	---	---		---	---	---		---	---	---		---	---	---
24	---	---	---		---	---	---		241	231	---		---	---	---
25	---	---	---		---	---	---		253	233	241		---	---	---
26	---	---	---		---	---	---		263	252	258		---	---	---
27	---	---	---		---	---	---		281	272	277		---	---	---
28	---	---	---		---	---	---		295	279	290		---	---	---
29	---	---	---		---	---	---		318	295	306		---	---	---
30	---	---	---		---	---	---		323	303	311		---	---	---
31	---	---	---		---	---	---		---	---	---		---	---	---
MONTH	---	---	---		---	---	---		---	---	---		---	---	---



01382000 PASSAIC RIVER AT TWO BRIDGES, N. J.--Continued

DISSOLVED OXYGEN (DO), IN MILLIGRAMS PER LITER, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

FEBRUARY				MARCH			APRIL			MAY		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	10.3	9.7	---	---	---	---	---	---	---	2.9	2.0	2.3
2	10.3	9.8	10.1	---	---	---	---	---	---	2.3	1.9	2.1
3	10.9	10.1	10.4	---	---	---	---	---	---	2.3	2.1	2.2
4	---	---	---	---	---	---	---	---	---	3.4	2.4	3.0
5	---	---	---	9.5	8.8	---	---	---	---	3.9	3.4	3.6
6	---	---	---	8.8	8.2	8.5	---	---	---	3.6	3.3	3.5
7	---	---	---	8.6	8.0	8.3	---	---	---	4.3	3.5	3.9
8	11.6	11.2	---	8.2	7.2	7.5	---	---	---	4.4	4.0	4.2
9	11.7	11.5	11.6	8.2	6.9	7.4	---	---	---	4.1	3.5	3.7
10	11.6	11.1	11.5	8.4	8.0	---	---	---	---	4.9	3.6	4.1
11	11.5	11.1	11.3	---	---	---	---	---	---	6.1	4.9	5.8
12	11.4	11.2	11.3	---	---	---	---	---	---	5.7	4.8	5.3
13	11.2	10.5	10.8	---	---	---	---	---	---	5.7	4.9	5.3
14	10.4	9.0	9.9	---	---	---	---	---	---	5.9	5.7	5.8
15	9.7	8.9	---	---	---	---	---	---	---	6.3	5.5	5.9
16	---	---	---	---	---	---	---	---	---	---	---	---
17	---	---	---	---	---	---	---	---	---	---	---	---
18	---	---	---	---	---	---	---	---	---	---	---	---
19	---	---	---	10.8	10.2	---	---	---	---	---	---	---
20	---	---	---	10.6	9.9	10.3	---	---	---	---	---	---
21	---	---	---	10.2	7.3	9.0	---	---	---	---	---	---
22	---	---	---	9.7	7.0	---	---	---	---	---	---	---
23	---	---	---	---	---	---	---	---	---	---	---	---
24	---	---	---	---	---	---	6.2	5.9	---	---	---	---
25	---	---	---	---	---	---	6.6	5.8	6.4	---	---	---
26	---	---	---	---	---	---	6.9	6.3	6.6	---	---	---
27	---	---	---	---	---	---	6.2	5.7	6.0	---	---	---
28	---	---	---	---	---	---	5.6	5.0	5.4	---	---	---
29	---	---	---	---	---	---	5.0	4.4	4.7	---	---	---
30	---	---	---	---	---	---	4.3	3.1	3.7	---	---	---
31	---	---	---	---	---	---	---	---	---	---	---	---
MONTH	---	---	---	---	---	---	---	---	---	---	---	---
JUNE				JULY			AUGUST			SEPTEMBER		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	---	---	---	2.2	1.7	1.9	---	---	---	---	---	---
2	---	---	---	1.7	1.3	1.5	---	---	---	---	---	---
3	---	---	---	1.3	0.7	1.0	---	---	---	---	---	---
4	---	---	---	---	---	---	---	---	---	---	---	---
5	---	---	---	---	---	---	---	---	---	---	---	---
6	3.0	2.3	2.6	---	---	---	---	---	---	---	---	---
7	2.3	1.6	1.9	---	---	---	---	---	---	---	---	---
8	1.7	1.2	1.4	---	---	---	---	---	---	---	---	---
9	1.6	1.0	1.3	---	---	---	---	---	---	---	---	---
10	1.0	0.6	0.8	4.1	3.0	---	---	---	---	---	---	---
11	1.1	0.3	0.7	4.3	2.1	3.1	---	---	---	---	---	---
12	0.8	0.3	---	5.4	2.5	3.7	---	---	---	---	---	---
13	---	---	---	5.0	2.5	3.5	---	---	---	---	---	---
14	---	---	---	5.6	2.9	4.0	---	---	---	---	---	---
15	---	---	---	4.3	1.9	2.9	---	---	---	---	---	---
16	---	---	---	4.2	1.5	2.6	---	---	---	---	---	---
17	---	---	---	3.6	1.5	2.3	---	---	---	2.2	2.1	---
18	---	---	---	3.1	0.6	2.2	---	---	---	2.3	1.5	1.8
19	---	---	---	3.9	1.9	2.5	---	---	---	2.0	0.9	1.4
20	---	---	---	5.0	2.2	3.4	---	---	---	1.7	1.1	1.5
21	---	---	---	4.5	2.3	3.1	---	---	---	1.6	1.2	1.4
22	---	---	---	4.9	2.3	3.2	---	---	---	1.6	1.3	1.5
23	---	---	---	4.3	2.5	3.2	---	---	---	1.9	1.5	1.7
24	---	---	---	4.2	2.1	2.6	---	---	---	2.7	2.1	2.5
25	---	---	---	2.2	1.4	1.7	---	---	---	3.2	2.5	2.9
26	---	---	---	1.8	1.3	1.6	---	---	---	3.3	2.5	2.9
27	2.8	2.6	---	1.7	1.3	1.5	---	---	---	3.3	2.3	2.8
28	2.8	2.0	2.5	---	---	---	---	---	---	3.7	2.0	2.6
29	2.7	2.4	2.5	---	---	---	---	---	---	4.6	2.7	3.8
30	2.5	2.2	2.3	---	---	---	---	---	---	5.2	4.1	4.7
31	---	---	---	---	---	---	---	---	---	---	---	---
MONTH	---	---	---	---	---	---	---	---	---	---	---	---





TEMPERATURE (°C) OF WATER, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

	JUNE			JULY			AUGUST			SEPTEMBER		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	---	---	---	23.0	21.0	22.0	25.5	24.0	25.0	24.5	23.5	24.0
2	---	---	---	24.0	22.5	23.0	26.0	24.5	25.0	24.5	22.5	23.5
3	---	---	---	25.5	23.5	24.5	26.0	24.5	25.0	22.5	20.5	21.5
4	---	---	---	---	---	---	25.5	24.5	25.0	20.5	19.0	19.5
5	---	---	---	---	---	---	25.5	24.5	25.0	19.0	18.0	18.5
6	22.5	21.5	22.0	---	---	---	25.0	24.5	24.5	18.0	17.5	18.0
7	22.0	20.5	21.5	---	---	---	24.5	23.5	24.0	17.5	17.0	17.0
8	20.5	20.0	20.5	---	---	---	24.0	23.0	23.5	17.5	16.5	17.0
9	21.5	19.5	20.5	---	---	---	23.0	22.0	22.5	18.0	17.0	17.5
10	24.0	21.0	22.5	27.5	27.0	---	23.5	22.5	23.0	19.0	18.0	18.5
11	26.0	24.0	25.0	27.0	26.0	26.5	23.5	22.5	23.0	20.0	18.5	19.0
12	25.5	24.0	24.5	26.0	25.0	25.5	22.5	22.0	22.0	21.0	19.5	20.5
13	---	---	---	25.5	24.0	24.5	24.0	23.0	23.5	22.5	21.0	22.0
14	---	---	---	25.0	24.0	24.5	24.5	23.0	23.5	22.5	22.0	22.0
15	---	---	---	26.0	24.5	25.0	25.0	23.5	24.0	22.0	20.5	---
16	---	---	---	27.0	25.5	26.0	---	---	---	---	---	---
17	---	---	---	27.5	25.5	26.0	---	---	---	19.5	19.0	---
18	---	---	---	26.5	25.5	26.0	---	---	---	20.0	19.0	19.5
19	---	---	---	26.5	25.0	25.5	23.0	23.0	---	20.5	19.5	20.0
20	---	---	---	26.0	24.5	25.5	23.5	22.5	23.0	21.0	20.0	20.5
21	---	---	---	25.5	24.0	25.0	24.0	23.0	23.5	21.5	20.5	21.0
22	---	---	---	25.0	23.5	24.0	24.0	23.5	23.5	21.5	20.0	20.5
23	---	---	---	23.5	22.5	23.0	---	---	---	20.0	18.5	19.5
24	---	---	---	22.5	21.5	22.0	---	---	---	18.5	16.5	17.5
25	---	---	---	21.5	20.5	21.0	---	---	---	16.0	15.0	15.5
26	---	---	---	20.5	20.0	20.5	---	---	---	15.0	14.0	14.5
27	18.5	18.5	---	21.5	20.5	20.5	23.5	23.0	---	16.0	14.0	15.0
28	18.5	18.0	18.0	---	---	---	23.5	23.0	23.0	16.5	15.5	16.0
29	19.0	18.0	18.5	---	---	---	24.5	23.0	24.0	19.5	17.0	18.0
30	21.0	19.0	20.0	---	---	---	24.5	24.0	24.5	19.0	17.0	18.0
31	---	---	---	25.5	25.0	---	24.5	23.5	24.0	---	---	---
MONTH	---	---	---	---	---	---	---	---	---	24.5	14.0	19.0

pH (UNITS), WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

[illegible]

## PASSAIC RIVER BASIN

53

01382000 PASSAIC RIVER AT TWO BRIDGES, N. J.--Continued

pH (UNITS), WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

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

DAY	JUNE			JULY			AUGUST			SEPTEMBER		
	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	---	---	---	---	---	---	---	---	---	7.3	6.3	6.9
2	---	---	---	---	---	---	---	---	---	8.3	6.3	7.1
3	---	---	---	---	---	---	---	---	---	---	---	---
4	---	---	---	---	---	---	---	---	---	---	---	---
5	---	---	---	---	---	---	6.9	6.1	6.5	7.0	5.7	6.7
6	7.6	7.4	7.5	---	---	---	6.9	6.2	6.5	6.8	6.0	6.5
7	7.6	7.5	7.6	---	---	---	6.4	6.1	6.3	6.3	4.9	5.8
8	7.7	7.4	7.6	---	---	---	6.5	6.1	6.3	6.6	5.3	6.0
9	7.8	7.5	7.7	---	---	---	6.5	6.1	6.3	6.8	5.6	6.3
10	7.8	7.3	7.7	---	---	---	6.6	6.2	6.4	6.9	5.9	6.5
11	7.8	7.7	7.8	---	---	---	6.5	6.1	6.3	---	---	---
12	7.8	7.7	7.8	---	---	---	6.4	6.1	6.2	6.2	5.9	6.1
13	---	---	---	---	---	---	7.0	6.8	6.9	6.3	6.0	6.2
14	---	---	---	---	---	---	7.0	6.5	6.8	6.4	5.9	6.3
15	---	---	---	---	---	---	7.1	6.8	6.9	6.5	6.3	---
16	---	---	---	---	---	---	---	---	---	---	---	---
17	---	---	---	---	---	---	---	---	---	7.3	7.2	---
18	---	---	---	---	---	---	---	---	---	7.5	7.1	7.3
19	---	---	---	---	---	---	7.2	6.7	---	7.4	7.2	7.3
20	---	---	---	---	---	---	7.3	6.6	6.8	7.5	7.1	7.3
21	---	---	---	---	---	---	---	---	---	---	---	---
22	---	---	---	---	---	---	7.0	6.7	6.9	7.5	7.1	7.3
23	---	---	---	---	---	---	7.0	6.8	6.9	7.6	7.2	7.5
24	---	---	---	---	---	---	---	---	---	7.6	7.5	7.6
25	---	---	---	6.9	6.6	---	---	---	---	7.7	7.4	7.7
26	---	---	---	---	---	---	---	---	---	7.7	7.5	7.6
27	---	---	---	7.1	5.9	6.6	---	---	---	7.7	7.5	7.6
28	---	---	---	6.8	6.8	6.8	8.1	7.2	---	7.7	7.4	7.6
29	---	---	---	---	---	---	8.0	6.8	7.3	7.6	7.2	7.4
30	---	---	---	---	---	---	10.9	6.7	7.4	7.6	7.3	7.4
31	---	---	---	7.1	7.0	---	10.0	7.1	7.6	7.1	6.8	7.0
MONTH	---	---	---	---	---	---	7.2	6.8	7.1	8.3	4.9	7.0

## PASSAIC RIVER BASIN

01382500 PEQUANNOCK RIVER AT MACOPIN INTAKE DAM, N. J.

LOCATION.--Lat 41°01'00", long 74°23'47", Morris County, at bridge 700 ft (213 m) downstream of gaging station at Macopin intake dam of Newark Water Works, 3.0 mi (4.8 km) upstream from Butler.

DRAINAGE AREA.--63.7 mi<sup>2</sup> (165.0 km<sup>2</sup>).

PERIOD OF RECORD.--Water years 1923, 1962-69, 1973 (partial-record station), October 1973 to September 1974.

## WATER QUALITY DATA. WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	ELEV. OF LAND SURFACE DATUM (FT. ABOVE MSL)	TEMPERATURE (DEG C)	SPECIFIC CONDUCTANCE (MICRO-MHOS)	PH (UNITS)	DISSOLVED OXYGEN (MG/L)	BIOCHEMICAL OXYGEN DEMAND 5 DAY (MG/L)	TURBIDITY (JTU)	COLOR (PLATINUM-COBALT UNITS)
DEC. 04...	1315	6.2	584	8.3	132	8.6	13.0	1.6	--	--
FEB. 05...	1230	32	584	.7	84	7.5	13.7	.5	--	--
APR. 18...	1200	83	584	9.8	89	7.5	12.0	1.2	--	--
MAY 21...	1330	12	584	19.4	90	7.6	4.9	1.1	--	--
JUNE 13...	1115	3.8	584	20.7	132	8.0	6.3	1.0	--	--
JULY 10...	1315	19	584	27.0	129	8.9	8.0	2.0	--	--
SEP. 18...	1345	9.0	584	19.2	115	--	9.6	1.8	2	10

DATE	TOTAL NITRITE (N) (MG/L)	TOTAL NITRATE (N) (MG/L)	TOTAL KJELDAHL NITROGEN (N) (MG/L)	AMMONIA NITROGEN (N) (MG/L)	ORGANIC NITROGEN (N) (MG/L)	TOTAL NITROGEN (N) (MG/L)	TOTAL PHOSPHORUS (P) (MG/L)	TOTAL ORTHO PHOSPHORUS (P) (MG/L)	DISSOLVED ORTHO PHOSPHORUS (P) (MG/L)
DEC. 04...	.00	.07	.19	.11	.08	.27	.01	.00	.01
FEB. 05...	.01	.18	.16	.06	.10	.35	.01	.00	.00
APR. 18...	--	--	--	--	--	--	--	--	--
MAY 21...	.01	.06	.28	.05	.23	.35	.02	.00	--
JUNE 13...	--	--	--	--	--	--	--	--	--
JULY 10...	--	--	--	--	--	--	--	--	--
SEP. 18...	.00	.01	.28	.12	.16	.29	.02	.01	--

## PASSAIC RIVER BASIN

55

01382500 PEQUANNOCK RIVER AT MACOPIN INTAKE DAM, N. J.--Continued

## WATER QUALITY DATA, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DATE	TOTAL ORGANIC CARBON (C) (MG/L)	IMME- DIATE COLI- FORM (COL. PER 100 ML)	FECAL COLI- FORM (COL. PER 100 ML)	STREP- TOCOCCI (COL- ONIES PER 100 ML)	ALKA- LINITY AS CACO3 (MG/L)	BICAR- BONATE (HCO3) (MG/L)	TOTAL CAL- CIUM (CA) (MG/L)	TOTAL MAG- NE- SIUM (MG) (MG/L)	TOTAL SODIUM (NA) (MG/L)
DEC. 04...	--	140	4	7	--	--	--	--	--
FEB. 05...	4.0	18	2	0	--	--	--	--	--
APR. 18...	--	32	0	4	--	--	--	--	--
MAY 21...	5.5	128	2	8	--	--	--	--	--
JUNE 13...	--	60	32	450	--	--	--	--	--
JULY 10...	--	180	--	940	--	--	--	--	--
SEP. 18...	8.4	200	100	60	22	27	9.6	3.0	6.3

DATE	TOTAL PO- TAS- SIUM (K) (MG/L)	DIS- SOLVED CHLO- RIDE (CL) (MG/L)	DIS- SOLVED SULFATE (SO4) (MG/L)	TOTAL FLUO- RIDE (F) (MG/L)	DIS- SOLVED SILICA (SI02) (MG/L)	DIS- SOLVED SOLIDS (RESI- DUE AT 180 C) (MG/L)	DIS- SOLVED SOLIDS (TONS PER AC-FT)	TOTAL IRON (FE) (UG/L)	TOTAL MAN- GANESE (MN) (UG/L)
DEC. 04...	--	--	--	--	--	--	--	--	--
FEB. 05...	--	--	--	--	--	--	--	--	--
APR. 18...	--	--	--	--	--	--	--	--	--
MAY 21...	--	--	--	--	--	--	--	--	--
JUNE 13...	--	--	--	--	--	--	--	--	--
JULY 10...	--	--	--	--	--	--	--	--	--
SEP. 18...	.6	11	12	.1	4.9	75	.10	320	310



LOCATION.--Lat 41°02'33", long 74°17'36", Passaic County, at gaging station at bridge on N.J. Route 511, 800 ft (244 m) downstream from Raymond Dam in Wanaque.

PERIOD OF RECORD.--Chemical analyses: Water years 1963-72 (partial-record station), October 1972 to September 1974.  
Water temperatures: October 1963 to September 1974.

Water temperatures: Maximum daily, 20.0°C Sept. 13, 16, 19, 20, 21; minimum daily, 1.0°C Feb. 15.

Water temperatures: Maximum daily, 24.5°C Aug. 19, 20, 1965; minimum daily, 1.0°C Jan. 31, 1966, Feb. 15, 1974.

WATER QUALITY DATA, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

[illegible]

WATER QUALITY DATA, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

[illegible]

TEMPERATURE (°C) OF WATER, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974  
(ONCE DAILY MEASUREMENT BETWEEN 0800 AND 1000)

[illegible]

## PASSAIC RIVER BASIN

59

01387500 RAMAPO RIVER NEAR MAHWAH, N. J.

LOCATION---Lat 41°05'51", long 74°09'48", Bergen County, at gaging station at bridge on N.J. Route 17, 1.0 mi (1.6 km) west of Mahwah.

DRAINAGE AREA---118 mi<sup>2</sup> (306 km<sup>2</sup>).

PERIOD OF RECORD---Chemical analyses: Water years 1963-74 (partial-record station).  
Sediment records: February 1964 to June 1965.

REMARKS---Operated as part of USGS-EPA Surveillance Network.

## WATER QUALITY DATA, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DATE	TIME	INSTANTANEOUS DIS-CHARGE (CFS)	DEPTH (FT)	PER-CENT OF TOTAL DEPTH	TEMPER-ATURE (DEG C)	AIR TEMPER-ATURE (DEG C)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	PH (UNITS)	DIS-SOLVED OXYGEN (MG/L)	BIO-CHEM-ICAL OXYGEN DEMAND 5 DAY (MG/L)
NOV. 27...	1145	58	1.0	50	8.4	45.0	324	--	7.0	2.4
FEB. 12...	1400	156	1.0	50	2.0	2.8	258	7.5	13.9	2.5
APR. 17...	1345	427	1.0	50	12.1	--	212	7.7	11.6	1.0
MAY 16...	1715	347	1.0	50	20.0	28.7	178	7.4	8.2	2.4
JUNE 12...	1545	70	1.0	50	20.8	--	327	7.4	8.7	5.5
JULY 10...	1100	49	1.0	50	24.4	--	330	8.2	7.4	3.6
AUG. 21...	1400	21	1.0	50	--	--	382	7.6	7.8	3.1
SEP. 18...	1115	74	1.0	50	17.7	--	265	7.5	9.4	1.8

DATE	TUR-BID-ITY (JTU)	TOTAL NITRITE (N) (MG/L)	TOTAL NITRATE (N) (MG/L)	TOTAL KJEL-DAHL NITRO-GEN (N) (MG/L)	AMMONIA NITRO-GEN (N) (MG/L)	ORGANIC NITRO-GEN (N) (MG/L)	TOTAL NITRO-GEN (N) (MG/L)	TOTAL PHOS-PHORUS (P) (MG/L)	TOTAL ORTHO PHOS-PHORUS (P) (MG/L)	DIS-SOLVED ORTHO. PHOS-PHORUS (P) (MG/L)
NOV. 27...	7	.08	.84	.60	.60	.00	1.5	.26	.22	.22
FEB. 12...	--	.01	.82	.87	.56	.31	1.7	.11	--	.09
APR. 17...	--	--	--	--	--	--	--	--	--	--
MAY 16...	4	.02	.29	.58	.22	.36	.89	.07	.04	--
JUNE 12...	--	--	--	--	--	--	--	--	--	--
JULY 10...	--	--	--	--	--	--	--	--	--	--
AUG. 21...	5	--	--	--	--	--	--	--	--	--
SEP. 18...	--	--	--	--	--	--	--	--	--	--

DATE	TOTAL ORGANIC CARBON (C) (MG/L)	IMME-DIATE COLI-FORM (COL. PER 100 ML)	FECAL COLI-FORM (COL. PER 100 ML)	STREP-TOCOCCI (COL-ONIES PER 100 ML)	CHLORO-PHYLL A (UG/L)	CHLORO-PHYLL B (UG/L)	ALKA-LINITY AS CAC03 (MG/L)	BICAR-BONATE (HC03) (MG/L)	TOTAL CAL-CIUM (CA) (MG/L)	TOTAL MAG-NE-SIUM (MG)
NOV. 27...	--	0	20	0	1.0	--	--	--	--	--
FEB. 12...	2.0	8	0	2	.2	--	--	--	--	--
APR. 17...	--	24	4	2	--	--	--	--	--	--
MAY 16...	11	32	--	10	1.0	4.3	--	--	--	--
JUNE 12...	--	38	0	10	--	--	--	--	--	--
JULY 10...	--	266	264	62	--	--	--	--	--	--
AUG. 21...	5.8	192	284	296	--	--	79	96	30	9.6
SEP. 18...	--	168	52	4	--	--	--	--	--	--

## PASSAIC RIVER BASIN

01387500 RAMAPO RIVER NEAR MAHWAH, N. J.--Continued

## WATER QUALITY DATA, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DATE	TOTAL SODIUM (NA) (MG/L)	TOTAL PO- TAS- SIUM (K) (MG/L)	DIS- SOLVED SOLIDS (RESI- DUE AT 180 C) (MG/L)	DIS- SOLVED SOLIDS (TONS PER AC-FT)	DIS- SOLVED CHLO- RIDE (CL) (MG/L)	DIS- SOLVED SULFATE (SO4) (MG/L)	TOTAL IRON (FE) (UG/L)	DIS- SOLVED LEAD (PB) (UG/L)	TOTAL LEAD (PB) (UG/L)
NOV. 27...	--	--	--	--	38	--	--	4	--
FEB. 12...	--	--	--	--	34	--	--	--	16
APR. 17...	--	--	--	--	--	--	--	--	--
MAY 16...	--	--	--	--	19	--	--	--	4
JUNE 12...	--	--	--	--	--	--	--	--	--
JULY 10...	--	--	--	--	--	--	--	--	--
AUG. 21...	28	2.0	241	.33	51	26	500	<4	--
SEP. 18...	--	--	--	--	--	--	--	--	--

DATE	ALDRIN (UG/L)	ALDRIN IN BOTTOM DE- POSITS (UG/KG)	LINDANE (UG/L)	LINDANE IN BOTTOM DE- POSITS (UG/KG)	CHLOR- DANE (UG/L)	CHLOR- DANE IN BOTTOM DE- POSITS (UG/KG)	DDD (UG/L)	DDD IN BOTTOM DE- POSITS (UG/KG)	DDE (UG/L)	DDE IN BOTTOM DE- POSITS (UG/KG)	DDT (UG/L)	DDT IN BOTTOM DE- POSITS (UG/KG)
MAY 16...	.00	.0	.00	.0	.0	170	.00	3.3	.00	1.2	.00	2.2

DATE	DI- ELDRIN (UG/L)	DI- ELDRIN IN BOTTOM DE- POSITS (UG/KG)	ENDRIN (UG/L)	ENDRIN IN BOTTOM DE- POSITS (UG/KG)	ETHION (UG/L)	TOX- APHENE (UG/L)	TOX- APHENE IN BOTTOM DE- POSITS (UG/KG)	HEPTA- CHLOR (UG/L)	HEPTA- CHLOR IN BOTTOM DE- POSITS (UG/KG)	HEPTA- CHLOR EPOXIDE (UG/L)	HEPTA- CHLOR EPOXIDE IN BOT- TOM DE- POSITS (UG/KG)
MAY 16...	.00	2.8	.00	.0	.00	0	0	.00	.0	.00	.0

DATE	PCB (UG/L)	PCB IN BOTTOM DE- POSITS (UG/KG)	MALA- THION (UG/L)	PARA- THION (UG/L)	DI- AZINON (UG/L)	METHYL PARA- THION (UG/L)	2,4-D (UG/L)	2,4,5-T (UG/L)	SILVEX (UG/L)	TRI- THION (UG/L)	METHYL TRI- THION (UG/L)
MAY 16...	.0	80	.00	.00	.01	.00	.06	.00	.00	.00	.00



## 61

LOCATION.--40°53'52", long 74°16'22", Passaic County, water-quality recorder at partial-record gaging station at bridge on Two Bridges Road just above mouth, and 0.3 mi (0.5 km) northeast of Two Bridges.

PERIOD OF RECORD.--Chemical analyses: June 1963 to September 1965, water years 1966-68 (partial-record station), July 1969 to September 1974.

Water temperatures: October 1962 to September 1974.

Specific conductance: Maximum, 384 micromhos July 24; minimum, 113 micromhos Apr. 2-4.

Dissolved oxygen: Maximum, 14.8 mg/l Dec. 20; minimum, 4.1 mg/l June 10, July 18.

Water temperatures: Maximum, 29.0°C July 10; minimum, freezing point Feb. 11, 12.

pH: Maximum, 10.1 Aug. 29; minimum, 5.2 Jan. 8.

period of record:

Specific conductance (1969-74): Maximum, 650 micromhos Oct. 22, 1969; minimum, 92 micromhos Sept. 13, 1971.

Dissolved oxygen (1969-74): Maximum, 14.8 mg/l Dec. 20, 1973; minimum, 2.3 mg/l Aug. 29, 1971.

Water temperatures: Maximum, 29.5°C July 28, 1970; minimum, freezing point on many days during winter months.

pH (1969-74): Maximum, 10.1 Aug. 29, 1974; minimum, 5.2 Aug. 29, 1971, Jan. 8, 1974.

TABLE 1. The effect of the type of sampling mechanism on the results of the experiment

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

DATE	TIME	TEMPER- ATURE (DEG C)	SPE- CIFIC CON- DUCT- ANCE (MICRO- MHOS)	PH  (UNITS)	DIS- SOLVED OXYGEN (MG/L)	BIO- CHEM- ICAL OXYGEN DEMAND 5 DAY (MG/L)	TUR- BID- ITY (JTU)	COLOR (PLAT- INUM- COBALT UNITS)	TOTAL NITRITE (N) (MG/L)	TOTAL NITRATE (N) (MG/L)
NOV. 28...	1130	10.5	277	7.4	9.8	3.8	--	--	.04	.96
FEB. 05...	1330	.0	182	7.3	13.0	1.4	--	--	.02	.70
APR. 18...	1300	11.1	171	7.4	11.1	1.7	--	--	--	--
MAY 22...	1030	18.9	171	7.2	8.0	3.3	--	--	.06	.53
JUNE 13...	1300	22.3	263	7.5	7.0	2.8	--	--	--	--
JULY 11...	1045	25.9	271	8.4	6.4	2.4	--	--	--	--
AUG. 22...	1455	24.8	280	8.5	--	5.3	6	2	--	--
SEP. 19...	1110	19.5	227	7.4	8.0	3.7	--	--	--	--

[illegible]

WATER QUALITY DATA, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DATE	FECAL COLIFORM (COL. PER 100 ML)	STREP-TOCOCOCCI (COL. ONIES PER 100 ML)	ALKALINITY AS CaCO3 (MG/L)	CARBONATE (CO3) (MG/L)	BICARBONATE (HCO3) (MG/L)	CARBON DIOXIDE (CO2) (MG/L)	TOTAL CALCIUM (CA) (MG/L)	TOTAL MAGNESIUM (MG)	TOTAL SODIUM (NA) (MG/L)
NOV. 28...	920	1804	--	--	--	--	--	--	--
FEB. 05...	12	224	--	--	--	--	--	--	--
APR. 18...	52	10	--	--	--	--	--	--	--
MAY 22...	396	154	--	--	--	--	--	--	--
JUNE 13...	740	220	--	--	--	--	--	--	--
JULY 11...	250	250	--	--	--	--	--	--	--
AUG. 22...	100	140	64	0	78	.4	22	7.3	18
SEP. 19...	1640	360	--	--	--	--	--	--	--

[illegible]

## PASSAIC RIVER BASIN

63

01389000 POMPTON RIVER AT TWO BRIDGES, N. J.--Continued

SPECIFIC CONDUCTANCE (MICROMHOS AT 25°C), WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCTOBER			NOVEMBER			DECEMBER			JANUARY		
	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	---	---	---	---	---	---	---	---	---	---	---	---
2	---	---	---	---	---	---	---	---	---	---	---	---
3	---	---	---	---	---	---	---	---	---	---	---	---
4	---	---	---	---	---	---	---	---	---	---	---	---
5	---	---	---	---	---	---	---	---	---	---	---	---
6	---	---	---	---	---	---	---	---	---	---	---	---
7	---	---	---	---	---	---	---	---	---	---	---	---
8	---	---	---	---	---	---	---	---	---	---	---	---
9	---	---	---	---	---	---	---	---	---	235	215	---
10	---	---	---	---	---	---	---	---	---	272	226	255
11	---	---	---	---	---	---	---	---	---	274	239	263
12	---	---	---	---	---	---	---	---	---	---	---	---
13	---	---	---	---	---	---	---	---	---	309	260	284
14	---	---	---	---	---	---	---	---	---	366	278	314
15	---	---	---	---	---	---	---	---	---	---	---	---
16	---	---	---	---	---	---	---	---	---	---	---	---
17	---	---	---	---	---	---	---	---	---	---	---	---
18	---	---	---	---	---	---	---	---	---	---	---	---
19	---	---	---	---	---	---	---	---	---	---	---	---
20	---	---	---	---	---	---	---	---	---	---	---	---
21	---	---	---	---	---	---	214	191	---	---	---	---
22	---	---	---	---	---	---	261	164	199	---	---	---
23	---	---	---	---	---	---	141	138	139	---	---	---
24	---	---	---	300	295	---	146	139	142	---	---	---
25	---	---	---	294	283	288	187	140	146	---	---	---
26	---	---	---	298	285	292	224	139	178	---	---	---
27	---	---	---	291	262	276	---	---	---	---	---	---
28	---	---	---	290	240	269	---	---	---	---	---	---
29	---	---	---	297	239	---	---	---	---	---	---	---
30	---	---	---	---	---	---	---	---	---	---	---	---
31	---	---	---	---	---	---	---	---	---	---	---	---
MONTH	---	---	---	---	---	---	---	---	---	---	---	---

DAY	FEBRUARY			MARCH			APRIL			MAY		
	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	255	250	---	---	---	---	252	161	185	242	237	240
2	260	254	256	---	---	---	173	113	139	239	235	238
3	261	258	260	---	---	---	116	113	114	245	240	243
4	---	---	---	---	---	---	119	113	115	251	246	249
5	---	---	---	222	216	---	118	115	116	252	249	250
6	---	---	---	218	214	216	119	116	118	257	254	255
7	---	---	---	219	213	217	126	118	122	261	258	260
8	243	210	---	225	216	218	132	128	130	279	264	273
9	219	209	212	226	213	218	134	122	128	255	249	253
10	234	219	227	213	208	---	127	121	124	248	226	233
11	226	224	225	---	---	---	134	127	131	231	220	229
12	234	225	230	---	---	---	139	135	137	222	194	213
13	242	234	237	---	---	---	153	141	144	186	162	176
14	242	234	240	223	204	---	151	145	148	154	151	153
15	---	---	234	213	197	207	155	150	153	153	151	152
16	---	---	---	221	201	213	160	158	159	---	---	---
17	---	---	---	209	176	193	167	163	164	---	---	---
18	---	---	---	214	169	176	175	170	173	---	---	---
19	---	---	---	202	167	171	183	178	180	---	---	---
20	---	---	---	195	193	194	181	178	179	---	---	---
21	---	---	---	198	184	192	183	181	182	---	---	---
22	---	---	---	185	174	178	188	173	179	---	---	---
23	---	---	---	---	---	---	196	195	196	---	---	---
24	---	---	---	---	---	---	200	199	198	---	---	---
25	---	---	---	---	---	---	203	198	200	---	---	---
26	---	---	---	156	151	---	212	204	209	---	---	---
27	---	---	---	156	149	152	218	207	213	---	---	---
28	---	---	---	155	152	154	233	217	221	---	---	---
29	---	---	---	155	149	153	229	227	228	---	---	---
30	---	---	---	198	150	173	237	232	235	203	197	---
31	---	---	---	187	147	157	---	---	---	203	201	202
MONTH	---	---	---	---	---	---	252	113	164	---	---	---

## PASSAIC RIVER BASIN

01389000 POMPTON RIVER AT TWO BRIDGES, N. J.--Continued

SPECIFIC CONDUCTANCE (MICROMHOS AT 25°C), WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	JUNE			JULY			AUGUST			SEPTEMBER		
	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	205	195	198	241	237	240	253	244	248	256	241	249
2	195	191	194	248	236	242	254	248	252	256	156	207
3	194	188	191	255	248	252	253	218	231	232	178	221
4	190	186	188	---	---	---	251	230	242	190	163	177
5	191	189	190	---	---	---	252	234	243	177	169	172
6	208	204	206	---	---	---	273	263	268	175	167	170
7	218	207	211	---	---	---	276	270	273	179	159	168
8	225	219	222	---	---	---	276	266	271	178	167	173
9	221	218	219	---	---	---	270	260	265	187	178	182
10	223	218	220	336	311	---	265	263	264	193	182	188
11	228	222	225	331	325	327	266	259	263	241	192	217
12	237	228	235	324	321	323	265	261	263	238	231	235
13	---	---	---	318	314	315	254	250	252	234	227	230
14	---	---	---	310	296	302	259	255	257	231	217	225
15	---	---	---	288	282	285	261	256	258	213	206	---
16	---	---	---	281	274	277	---	---	---	---	---	---
17	---	---	---	323	277	302	---	---	---	211	210	---
18	---	---	---	287	272	286	---	---	---	218	210	213
19	---	---	---	296	288	292	265	256	---	224	218	222
20	---	---	---	304	297	301	280	266	272	229	224	228
21	---	---	---	303	292	299	283	280	281	236	228	233
22	---	---	---	292	283	288	287	284	285	242	196	235
23	---	---	---	286	281	284	---	---	---	236	230	234
24	---	---	---	384	282	333	---	---	---	246	234	238
25	---	---	---	311	263	283	---	---	---	247	237	242
26	---	---	---	290	280	285	---	---	---	269	234	246
27	239	237	---	280	277	279	241	233	---	256	249	252
28	248	239	243	---	---	---	245	240	242	310	251	279
29	251	239	245	---	---	---	247	242	245	251	200	223
30	243	238	240	---	---	---	252	215	231	202	174	185
31	---	---	---	244	241	---	240	208	223	---	---	---
MONTH	---	---	---	---	---	---	---	---	---	310	156	216

DISSOLVED OXYGEN (DO), IN MILLIGRAMS PER LITER, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

[illegible]

## 65

DISSOLVED OXYGEN (DO), IN MILLIGRAMS PER LITER, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974



## PASSAIC RIVER BASIN

01389000 POMPTON RIVER AT TWO BRIDGES, N. J.--Continued

TEMPERATURE (°C) OF WATER, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCTOBER			NOVEMBER			DECEMBER			JANUARY		
	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	---	---	---	---	---	---	---	---	---	---	---	---
2	---	---	---	---	---	---	---	---	---	---	---	---
3	---	---	---	---	---	---	---	---	---	---	---	---
4	---	---	---	---	---	---	---	---	---	---	---	---
5	---	---	---	---	---	---	---	---	---	---	---	---
6	---	---	---	---	---	---	---	---	---	---	---	---
7	---	---	---	---	---	---	---	---	---	---	---	---
8	---	---	---	---	---	---	---	---	---	---	---	---
9	---	---	---	---	---	---	---	---	---	---	---	---
10	---	---	---	---	---	---	---	---	---	---	---	---
11	---	---	---	---	---	---	---	---	---	---	---	---
12	---	---	---	---	---	---	---	---	---	---	---	---
13	---	---	---	---	---	---	---	---	---	---	---	---
14	---	---	---	---	---	---	---	---	---	---	---	---
15	---	---	---	---	---	---	---	---	---	---	---	---
16	---	---	---	---	---	---	---	---	---	---	---	---
17	---	---	---	---	---	---	---	---	---	---	---	---
18	---	---	---	---	---	---	---	---	---	---	---	---
19	---	---	---	---	---	---	---	---	---	---	---	---
20	---	---	---	---	---	---	1.5	0.5	---	---	---	---
21	---	---	---	---	---	---	2.0	0.5	1.5	---	---	---
22	---	---	---	---	---	---	1.0	0.5	1.0	---	---	---
23	---	---	---	8.5	8.0	---	2.0	0.5	1.0	---	---	---
24	---	---	---	8.5	8.0	8.5	4.5	0.0	1.0	---	---	---
25	---	---	---	9.5	8.5	---	4.0	0.5	1.5	---	---	---
26	---	---	---	---	---	---	---	---	---	---	---	---
27	---	---	---	---	---	---	---	---	---	---	---	---
28	---	---	---	---	---	---	---	---	---	---	---	---
29	---	---	---	---	---	---	---	---	---	---	---	---
30	---	---	---	---	---	---	---	---	---	---	---	---
31	---	---	---	---	---	---	---	---	---	---	---	---
MONTH	---	---	---	---	---	---	---	---	---	---	---	---

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

TEMPERATURE (°C) OF WATER, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

pH (UNITS), WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974[illegible]

pH (UNITS), WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

FEBRUARY				MARCH			APRIL			MAY		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	7.1	7.0	---	---	---	---	7.4	7.3	7.3	7.9	7.6	7.7
2	7.1	7.0	7.1	---	---	---	7.3	7.0	7.2	7.8	7.7	7.8
3	7.2	7.0	7.1	---	---	---	7.2	6.9	7.0	7.9	7.6	7.7
4	7.2	7.0	7.1	---	---	---	7.1	7.0	7.0	7.8	7.4	7.6
5	7.8	7.0	7.3	7.3	7.2	---	7.0	6.9	7.0	7.8	7.6	7.7
6	8.0	7.4	7.7	7.4	7.2	7.3	7.0	6.9	7.0	7.7	7.5	7.6
7	7.9	7.1	7.4	7.4	7.3	7.3	7.1	7.0	7.1	7.7	7.5	7.6
8	7.3	7.0	7.1	7.6	7.3	7.4	7.1	7.0	7.0	7.7	7.6	7.6
9	7.1	7.0	7.1	7.6	7.3	7.4	7.0	6.9	7.0	7.5	7.2	7.4
10	7.1	7.0	7.1	7.4	7.2	---	7.1	6.9	7.0	7.7	7.3	7.4
11	7.1	7.0	7.1	---	---	---	7.2	7.0	7.0	7.5	7.2	7.4
12	7.2	7.0	7.1	---	---	---	7.1	7.0	7.0	8.1	7.1	7.4
13	7.1	6.9	7.0	---	---	---	7.0	6.9	6.9	7.3	6.8	7.1
14	7.1	6.9	7.0	7.6	7.4	---	7.0	6.8	7.0	7.2	6.7	6.9
15	7.2	7.1	---	7.6	7.3	7.5	7.0	6.9	7.0	7.0	6.5	6.8
16	---	---	---	7.5	7.2	7.4	7.1	7.0	7.0	---	---	---
17	---	---	---	7.6	7.2	7.4	7.1	6.9	7.0	---	---	---
18	---	---	---	7.6	7.3	7.5	7.0	6.9	7.0	---	---	---
19	---	---	---	7.5	7.2	7.4	7.0	6.8	6.9	---	---	---
20	---	---	---	7.5	7.2	7.4	7.1	6.9	7.0	---	---	---
21	---	---	---	7.5	6.8	7.2	7.0	6.8	6.9	---	---	---
22	---	---	---	7.0	6.6	6.8	7.0	6.8	6.9	---	---	---
23	---	---	---	6.9	6.6	6.8	6.9	6.7	6.8	---	---	---
24	---	---	---	6.7	6.3	6.6	7.8	6.8	7.3	---	---	---
25	---	---	---	6.8	6.5	6.6	8.0	7.5	7.7	---	---	---
26	---	---	---	7.4	6.7	7.1	7.9	7.5	7.8	---	---	---
27	---	---	---	7.5	7.3	7.4	8.0	7.7	7.8	---	---	---
28	---	---	---	7.5	7.2	7.3	8.0	7.6	7.8	---	---	---
29	---	---	---	7.5	7.3	7.4	8.0	7.3	7.8	---	---	---
30	---	---	---	7.4	7.3	7.3	7.9	7.7	7.8	8.2	8.1	---
31	---	---	---	7.4	7.2	7.3	---	---	---	8.3	8.0	8.1
MONTH	---	---	---	---	---	---	8.0	6.7	7.2	---	---	---
JUNE				JULY			AUGUST			SEPTEMBER		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	10.0	8.2	8.6	---	---	---	7.9	6.8	7.4	8.3	6.7	7.5
2	8.4	8.1	8.3	---	---	---	8.0	6.8	7.3	8.6	6.5	7.3
3	8.2	7.7	8.0	---	---	---	7.1	6.2	6.7	---	---	---
4	8.1	7.6	7.9	---	---	---	7.4	6.3	6.9	---	---	---
5	8.0	7.8	7.9	---	---	---	7.1	6.1	6.6	---	---	---
6	7.9	7.5	7.8	---	---	---	7.5	6.3	7.2	7.3	6.5	---
7	8.0	7.8	7.9	---	---	---	7.1	6.5	7.0	6.7	5.3	6.2
8	8.1	7.6	7.8	---	---	---	7.3	6.1	6.7	7.2	5.6	6.5
9	8.2	7.6	7.9	---	---	---	7.6	6.3	7.0	7.3	6.0	6.8
10	8.1	7.7	7.9	---	---	---	7.4	6.2	6.8	7.5	6.4	7.1
11	8.3	7.8	8.0	---	---	---	7.6	6.3	7.0	7.5	6.5	6.9
12	8.0	7.8	7.9	---	---	---	6.9	6.4	6.6	6.8	6.3	6.6
13	---	---	---	---	---	---	8.8	8.0	8.5	6.8	6.4	6.6
14	---	---	---	---	---	---	8.9	6.9	7.8	7.0	6.2	6.7
15	---	---	---	---	---	---	8.8	7.2	8.0	7.5	6.3	---
16	---	---	---	---	---	---	---	---	---	---	---	---
17	---	---	---	---	---	---	---	---	---	7.9	7.7	---
18	---	---	---	---	---	---	---	---	---	8.2	7.3	7.7
19	---	---	---	---	---	---	---	---	---	7.9	7.2	7.6
20	---	---	---	---	---	---	8.4	8.0	---	7.9	7.2	7.6
21	---	---	---	---	---	---	8.6	7.2	7.9	---	---	---
22	---	---	---	---	---	---	---	---	---	---	---	---
23	---	---	---	---	---	---	9.0	6.5	8.1	7.7	7.0	7.4
24	---	---	---	---	---	---	8.0	7.1	7.7	7.7	7.2	7.6
25	---	---	---	---	---	---	---	---	---	7.8	7.4	7.7
26	---	---	---	---	---	---	---	---	---	7.8	7.5	7.7
27	---	---	---	---	---	---	---	---	---	7.9	7.3	7.6
28	---	---	---	7.4	5.7	6.7	---	---	---	7.7	7.3	7.6
29	---	---	---	7.2	6.0	6.4	8.4	7.5	---	7.8	7.2	7.5
30	---	---	---	---	---	---	8.1	6.9	7.5	---	---	---
31	---	---	---	---	---	---	10.1	6.6	7.5	---	---	---
MONTH	---	---	---	---	---	---	9.4	7.1	7.5	---	---	---
	---	---	---	7.8	7.2	---	7.8	6.9	7.4	---	---	---

## PASSAIC RIVER BASIN

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01389110 PASSAIC RIVER AT RT. 46 AT SINGAC, N. J.

LOCATION.--Lat 40°53'32", long 74°15'58", Passaic County, at bridge on Rt. 46 at Singac, 0.6 mi (1.0 km) downstream of the confluence of the Passaic and Pompton Rivers.

DRAINAGE AREA.--745 mi<sup>2</sup> (1930 km<sup>2</sup>).

PERIOD OF RECORD.--Chemical analyses: July 1974 to September 1974.

REMARKS.--Operated as part of the USGS-EPA paired station network.

## WATER QUALITY DATA, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	DEPTH (FT)	PERCENT OF TOTAL DEPTH	TEMPERATURE (DEG C)	AIR TEMPERATURE (DEG C)	SPECIFIC CONDUCTANCE (MICRO-MHOS)	PH (UNITS)	DISSOLVED OXYGEN (MG/L)	BIO-CHEMICAL OXYGEN DEMAND 5 DAY (MG/L)	TURBIDITY (JTU)
JULY 31...	1215	327	4.5	40	25.2	26.0	464	7.3	4.5	--	7
AUG. 13...	1500	246	6.0	50	23.9	26.2	376	6.6	7.0	--	30
26...	1245	243	3.0	50	23.3	--	366	--	2.6	--	20
SEP. 12...	1200	1060	3.5	50	21.1	33.1	243	6.7	6.0	--	20
25...	1340	321	--	--	16.0	--	394	7.3	6.0	4.6	8

DATE	TOTAL KJELDAHL NITROGEN (N) (MG/L)	AMMONIA NITROGEN (N) (MG/L)	ORGANIC NITROGEN (N) (MG/L)	TOTAL NITROGEN (N) (MG/L)	TOTAL PHOSPHORUS (P) (MG/L)	TOTAL ORGANIC CARBON (C) (MG/L)	IMMEDIATE COLIFORM (COL. PER 100 ML)	FECAL COLIFORM (COL. PER 100 ML)	STREPTOCOCCI (COL. PER 100 ML)	CHLORO-PHYLL A (UG/L)	CHLORO-PHYLL B (UG/L)
JULY 31...	3.6	3.1	.50	5.3	1.0	8.6	1600	400	268	13	2.4
AUG. 13...	1.9	1.4	.50	3.1	.64	11	--	--	300	24	.8
26...	2.5	2.5	.00	3.5	.57	11	840	40	32	28	1.4
SEP. 12...	.73	.68	.05	1.6	.39	13	2040	--	220	12	2.0
25...	2.2	1.7	.50	3.4	.61	8.1	1880	520	108	7.4	5.0

DATE	CHLORO-PHYLL C (UG/L)	OIL AND GREASE (MG/L)	ALKALINITY AS CaCO3 (MG/L)	BICARBONATE (HCO3) (MG/L)	TOTAL CALCIUM (CA) (MG/L)	TOTAL MAGNESIUM (MG/L)	TOTAL SODIUM (NA) (MG/L)	TOTAL POTASSIUM (K) (MG/L)	DISSOLVED SOLIDS (RESIDUE AT 180 C) (MG/L)	DISSOLVED SOLIDS (TONS PER AC-FT)	TOTAL NON-FILTERABLE RESIDUE (MG/L)
JULY 31...	3.0	0	--	--	--	--	--	--	282	.38	26
AUG. 13...	2.0	--	--	--	--	--	--	--	239	.33	78
26...	6.0	0	74	90	27	8.6	28	2.5	209	.28	21
SEP. 12...	3.0	1	--	--	--	--	--	--	164	.22	6
25...	9.0	0	--	--	--	--	--	--	258	.35	16

DATE	DISSOLVED CHLORIDE (CL) (MG/L)	DISSOLVED SULFATE (SO4) (MG/L)	TOTAL IRON (FE) (UG/L)	TOTAL ARSENIC (AS) (UG/L)	TOTAL CADMIUM (CD) (UG/L)	TOTAL CHROMIUM (CR) (UG/L)	TOTAL COPPER (CU) (UG/L)	TOTAL LEAD (PB) (UG/L)	TOTAL ZINC (ZN) (UG/L)	TOTAL MERCURY (HG) (UG/L)
JULY 31...	--	--	830	2	0	0	10	12	60	<.5
AUG. 13...	--	--	1200	2	3	<10	10	12	10	<.5
26...	38	34	1000	6	2	10	10	8	40	<.5
SEP. 12...	--	--	1700	2	2	0	20	17	630	<.5
25...	--	--	1000	3	0	<10	10	9	20	5.9

## PASSAIC RIVER BASIN

01389500 PASSAIC RIVER AT LITTLE FALLS, N. J.

LOCATION.--Lat 40°53'05", long 74°13'35", Passaic County, 0.5 mi (0.8 km) upstream from gaging station at Passaic Valley Water Commission intake in Little Falls.

DRAINAGE AREA.--762 mi<sup>2</sup> (1974 km<sup>2</sup>).

PERIOD OF RECORD.--Chemical analyses: November 1962 to September 1965, water years 1966-70 (partial-record station), October 1970 to September 1973.

Water temperatures: October 1962 to September 1974.

Sediment records: August 1963 to July 1965.

## EXTREMES.--1973-74:

Dissolved oxygen: Maximum daily, 12.6 mg/l Feb. 6; minimum daily, 3.4 mg/l Sept. 2.

Water temperatures: Maximum daily, 25.5°C July 9-11; minimum daily, 0.5°C Feb. 5, 6.

Period of record:

Dissolved oxygen (1970-74): Maximum daily, 14.4 mg/l Jan. 7, 1973; minimum daily, 2.0 mg/l Sept. 2, 1972.

Water temperatures: Maximum daily, 28.0°C July 28, 1963 and July 19, 1968; minimum daily, freezing point on many days during winter months.

REMARKS.--Once daily dissolved-oxygen and water-temperature records provided by the Passaic Valley Water Commission.

DISSOLVED OXYGEN (DO), IN MILLIGRAMS PER LITER, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974  
(ONCE DAILY MEASUREMENTS BETWEEN 0800 AND 1000)

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	4.7	5.5	7.6	10.7	11.0	11.3	11.7	6.3	5.6	5.0	4.6	4.0
2	4.7	5.3	8.5	10.8	10.8	11.1	11.0	6.8	6.0	4.6	5.5	3.4
3	4.7	5.1	8.7	11.3	11.7	11.7	10.8	7.1	6.0	4.3	3.8	5.4
4	4.3	5.2	9.0	11.4	12.0	11.0	9.8	6.8	6.0	4.1	3.5	6.7
5	4.2	6.0	8.5	11.5	12.3	10.5	9.2	7.2	5.5	4.3	4.2	6.7
6	4.3	5.8	7.9	11.7	12.6	9.8	8.8	7.5	5.3	3.8	3.9	6.3
7	3.7	6.3	8.5	11.8	12.3	9.9	9.8	7.2	5.0	4.5	4.9	6.6
8	4.0	7.0	8.6	11.5	11.9	9.4	9.8	7.6	4.8	5.3	4.9	6.6
9	4.0	7.1	9.3	11.8	12.1	9.7	10.3	7.5	5.1	5.1	4.7	6.4
10	4.6	7.7	10.4	11.9	12.0	10.1	11.0	7.5	4.8	5.0	3.9	6.0
11	4.9	7.8	10.3	12.1	11.9	10.7	11.2	7.8	4.5	4.8	3.7	5.6
12	4.7	7.7	10.3	12.2	11.4	11.0	10.8	7.6	4.7	5.1	4.5	5.5
13	4.8	7.9	10.2	12.2	11.7	10.9	10.1	8.2	4.4	5.8	5.0	4.6
14	4.8	7.3	10.6	12.5	11.0	11.2	9.8	8.5	4.7	5.5	5.5	4.4
15	5.1	6.9	11.0	12.4	10.3	11.2	9.5	7.9	4.7	5.6	5.5	5.0
16	4.9	6.0	11.2	11.9	11.3	10.8	9.4	7.1	5.0	5.8	5.5	5.1
17	4.7	5.9	11.5	11.5	11.7	10.3	9.2	6.8	4.7	6.6	6.2	5.2
18	4.7	6.0	11.5	11.6	11.0	11.0	9.2	6.1	5.0	6.3	4.1	5.4
19	5.3	6.5	11.5	11.8	11.0	11.1	8.4	6.1	4.9	7.3	3.8	4.9
20	5.5	6.6	11.5	11.8	11.0	10.5	8.9	5.7	4.8	6.1	4.2	4.9
21	5.7	6.6	11.8	12.0	11.5	10.4	9.3	5.9	4.1	7.0	3.8	4.5
22	5.7	6.3	12.2	12.0	11.5	11.1	8.8	5.8	4.2	7.0	4.7	4.4
23	5.8	6.6	12.2	12.2	10.7	11.4	8.5	5.5	4.2	7.0	4.2	4.5
24	5.9	5.9	12.0	11.8	11.4	10.8	7.6	5.1	4.3	6.7	4.0	5.0
25	5.8	5.9	12.0	11.5	11.4	10.7	7.8	5.3	4.5	4.5	3.8	5.4
26	5.2	6.7	11.5	11.6	11.8	11.3	8.0	5.3	4.8	4.1	4.5	5.7
27	4.7	6.3	11.3	11.2	11.8	11.2	8.2	5.6	5.5	4.0	4.1	5.8
28	4.8	7.2	10.7	11.0	11.7	11.0	7.9	5.7	5.0	4.2	4.2	5.7
29	5.2	7.2	10.8	10.8	---	10.5	7.5	6.0	5.4	4.5	4.3	6.7
30	7.5	7.3	10.6	11.2	---	11.2	7.3	6.2	5.4	5.3	3.5	6.8
31	6.4	---	10.3	11.0	---	11.8	---	5.7	---	3.8	4.0	---
MONTH	5.0	6.5	10.4	11.6	11.5	10.8	9.3	6.6	5.0	5.3	4.4	5.4

## PASSAIC RIVER BASIN

71

01389500 PASSAIC RIVER AT LITTLE FALLS, N. J.--Continued

TEMPERATURE (°C) OF WATER, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974  
(ONCE DAILY MEASUREMENT BETWEEN 0800 AND 1000)

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	18.0	12.0	8.5	5.0	6.0	3.5	4.0	15.5	17.0	20.0	24.0	23.0
2	17.0	12.0	8.0	4.0	5.0	4.0	5.5	16.0	17.0	20.5	24.0	23.0
3	18.0	11.0	5.5	3.5	3.5	4.5	6.0	16.0	17.0	21.5	23.5	22.0
4	18.5	10.0	7.0	4.0	3.0	4.5	8.5	15.0	18.0	23.5	23.5	21.0
5	19.5	10.0	7.0	1.0	0.5	5.5	8.5	15.0	18.5	24.5	23.5	20.5
6	18.0	9.0	8.0	2.0	0.5	5.5	10.0	15.0	18.5	24.5	23.5	18.5
7	18.0	7.0	8.0	3.0	1.0	8.0	9.0	14.0	18.5	24.5	24.0	18.5
8	16.5	7.0	7.0	3.0	1.0	9.5	9.0	13.5	18.5	24.5	23.5	18.0
9	18.0	7.0	6.0	3.0	1.5	7.0	8.5	14.0	19.0	25.5	23.0	18.5
10	17.0	7.0	6.5	3.0	1.0	6.0	7.0	14.5	21.0	25.5	21.0	18.5
11	16.5	6.0	6.5	3.0	1.5	6.0	6.0	13.5	21.5	25.5	21.0	18.5
12	16.0	7.0	6.0	2.0	3.0	6.0	6.5	14.5	22.0	25.0	21.5	19.5
13	15.5	7.0	5.5	1.5	3.0	5.0	6.5	14.0	22.0	24.0	23.0	20.5
14	16.0	8.5	6.0	1.0	3.5	4.5	8.0	14.0	21.5	24.0	23.0	21.5
15	15.5	9.0	4.5	1.0	4.0	5.0	9.0	15.5	21.5	24.5	23.0	20.5
16	15.0	11.5	4.5	1.5	2.0	6.5	10.5	16.5	21.5	25.0	23.5	20.0
17	14.5	11.0	2.0	2.0	3.0	5.5	10.5	16.5	20.5	24.5	23.0	19.5
18	13.0	8.5	1.5	1.5	3.0	5.5	11.0	17.0	20.5	24.5	23.0	19.5
19	11.5	8.5	1.0	2.0	3.5	5.5	11.5	18.0	20.5	24.0	22.0	20.0
20	13.0	8.0	1.0	2.0	5.0	6.0	11.0	18.5	21.5	23.5	23.0	20.0
21	12.0	8.0	4.0	2.0	4.5	6.0	11.0	19.0	23.0	23.0	23.0	21.0
22	11.5	6.5	1.0	3.0	4.5	5.5	11.0	19.0	22.0	23.0	23.0	19.5
23	12.0	8.5	1.5	3.5	5.0	5.5	11.5	19.5	22.0	23.0	23.0	18.5
24	13.0	8.5	1.5	3.5	4.5	6.0	13.5	19.0	20.5	22.0	23.5	18.0
25	13.0	9.0	1.0	3.5	4.5	5.5	13.5	18.5	20.0	20.5	23.5	16.0
26	13.0	10.0	1.5	2.0	4.5	5.5	13.5	19.5	19.0	21.0	24.0	16.5
27	13.0	10.0	3.0	3.5	3.5	5.5	13.5	16.5	18.0	21.0	23.5	15.0
28	13.0	10.0	4.5	5.0	3.5	6.5	14.0	17.0	18.0	21.0	23.0	15.5
29	12.0	10.5	5.0	5.5	---	6.5	14.5	16.5	18.0	22.0	23.0	16.5
30	13.0	9.5	5.5	5.5	---	3.5	15.5	16.0	19.0	22.0	23.5	16.0
31	12.0	---	4.5	6.0	---	2.0	---	16.0	---	23.0	23.0	---
MONTH	15.0	9.0	4.5	3.0	3.0	5.5	10.0	16.0	20.0	23.0	23.0	19.0



## PASSAIC RIVER BASIN

01389880 PASSAIC RIVER AT RT. 46 AT ELMWOOD PARK, N. J.

LOCATION.--Lat 40°53'37", long 74°07'46", Passaic County, at bridge on Rt. 46, at Elmwood Park, 0.8 mi (1.3 km) upstream of Dundee Dam.

DRAINAGE AREA.--803 mi<sup>2</sup> (2,080 km<sup>2</sup>).

PERIOD OF RECORD.--Chemical analyses: July 1974 to September 1974.

REMARKS.--Operated as part of the USGS-EPA paired station network.

## WATER QUALITY DATA, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	DEPTH (FT)	PERCENT OF TOTAL DEPTH	TEMPERATURE (DEG C)	AIR TEMPERATURE (DEG C)	SPECIFIC CONDUCTANCE (MICRO-MHOS)	PH (UNITS)	DISSOLVED OXYGEN (MG/L)	BIO-CHEMICAL OXYGEN DEMAND 5 DAY (MG/L)	TURBIDITY (JTU)
JULY											
22...	1130	115	4.5	50	24.6	25.5	455	8.8	11.0	--	9
31...	1400	306	4.5	50	25.1	33.2	393	7.9	10.2	--	7
AUG.											
13...	1545	207	4.5	50	24.8	29.8	352	8.4	8.9	--	7
26...	1130	205	6.0	50	24.1	--	389	--	4.3	--	10
SEP.											
12...	1100	1060	6.0	50	20.0	24.9	240	7.3	8.8	--	20
25...	1445	292	--	--	17.0	--	400	7.5	7.0	4.8	10

DATE	TOTAL KjEL-DAHL NITROGEN (N) (MG/L)	AMMONIA NITROGEN (N) (MG/L)	ORGANIC NITROGEN (N) (MG/L)	TOTAL NITROGEN (N) (MG/L)	TOTAL PHOSPHORUS (P) (MG/L)	TOTAL ORGANIC CARBON (C) (MG/L)	IMMEDIATE COLIFORM (COL. PER 100 ML)	FECAL COLIFORM (COL. PER 100 ML)	STREPTOCOCCI (COLONIES PER 100 ML)	CHLORO-PHYLL A (UG/L)	CHLORO-PHYLL B (UG/L)
JULY											
22...	1.8	.64	1.2	3.5	.85	--	1330	460	30	130	2.3
31...	2.0	.94	1.1	4.2	.85	9.1	5200	680	612	760	9.6
AUG.											
13...	1.8	1.1	.70	4.2	.69	11	--	--	1085	28	59
26...	1.6	.67	.93	3.7	.62	14	7000	3300	260	95	1.0
SEP.											
12...	.72	.51	.21	1.9	.46	12	2100	--	660	11	4.0
25...	1.9	1.4	.50	4.2	.59	14	4400	1120	50	16	4.0

DATE	CHLORO-PHYLL C (UG/L)	OIL AND GREASE (MG/L)	ALKALINITY AS CaCO <sub>3</sub> (MG/L)	BICARBONATE (HCO <sub>3</sub> ) (MG/L)	TOTAL CALCIUM (CA) (MG/L)	TOTAL MAGNESIUM (MG)	TOTAL SODIUM (NA) (MG/L)	TOTAL POTASSIUM (K) (MG/L)	DISSOLVED SOLIDS (RESIDUE AT 180 C) (MG/L)	DISSOLVED SOLIDS (TONS PER AC-FT)	TOTAL NON-FILTERABLE RESIDUE (MG/L)
JULY											
22...	19	1	--	--	--	--	--	--	274	.37	18
31...	21	1	--	--	--	--	--	--	256	.35	28
AUG.											
13...	39	0	--	--	--	--	--	--	273	.37	21
26...	16	0	63	77	27	9.1	33	2.6	204	.28	38
SEP.											
12...	9.0	--	--	--	--	--	--	--	163	.22	40
25...	13	0	--	--	--	--	--	--	250	.34	20

DATE	DISSOLVED CHLORIDE (CL) (MG/L)	DISSOLVED SULFATE (SO <sub>4</sub> ) (MG/L)	TOTAL IRON (FE) (UG/L)	TOTAL ARSENIC (AS) (UG/L)	TOTAL CADMIUM (CD) (UG/L)	TOTAL CHROMIUM (CR) (UG/L)	TOTAL COPPER (CU) (UG/L)	TOTAL LEAD (PB) (UG/L)	TOTAL ZINC (ZN) (UG/L)	TOTAL MERCURY (HG) (UG/L)
JULY										
22...	--	--	550	4	1	0	10	16	100	<.5
31...	--	--	640	3	0	10	10	17	120	<.5
AUG.										
13...	--	--	790	1	3	<10	10	19	30	<.5
26...	42	45	1100	5	1	10	10	19	110	<.5
SEP.										
12...	--	--	1500	2	3	0	20	20	10	<.5
25...	--	--	850	2	0	<10	10	23	20	<.5

LOCATION.--Lat 40°53'25", long 74°04'51", Bergen County, at Outwater Lane bridge in Lodi, 560 ft (171 m) downstream from gaging station, and 3.1 mi (5.0 km) upstream from mouth.

PERIOD OF RECORD.--Chemical analyses: Water years 1964-72 (partial-record station), October 1972 to September 1974.

DATE	TIME	INSTANTANEOUS DIS-CHARGE (CFS)	ELEV. OF LAND SURFACE DATUM (FT. ABOVE MSL)	TEMPER-ATURE (DEG C)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	PH (UNITS)	DIS-SOLVED OXYGEN (MG/L)	BIO-CHEM-ICAL OXYGEN DEMAND 5 DAY (MG/L)	TUR-BID-ITY (JTU)	COLOR (PLAT-INUM-COBALT UNITS)
NOV. 28...	1015	152	25	11.7	276	7.3	8.2	10	--	--
FEB. 12...	1015	76	25	1.0	512	7.6	11.8	1.4	--	--
APR. 17...	1030	152	25	10.1	412	8.2	9.2	4.3	--	--
MAY 16...	1045	96	25	19.1	421	7.5	6.2	8.6	--	--
JUNE 12...	1245	44	25	18.9	599	7.6	4.4	7.3	--	--
JULY 11...	0945	29	25	21.5	581	8.2	3.7	4.0	--	--
AUG. 22...	1400	30	25	22.4	637	7.7	--	5.8	6	3
SEP. 19...	1030	39	25	18.1	567	7.3	6.0	3.4	--	--

[illegible]

WATER QUALITY DATA, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

[illegible]

## PASSAIC RIVER BASIN

75

01392600 PASSAIC RIVER AT HARRISON, N. J.

LOCATION.--Lat 40°44'00", long 74°09'21", Hudson County, at Fourth Street bridge in Harrison.

DRAINAGE AREA.--923 mi<sup>2</sup> (2,391 km<sup>2</sup>).

PERIOD OF RECORD.--Chemical analyses: June 1970 to September 1974.

REMARKS.--Operated as part of USGS-EPA Surveillance Network.

## WATER QUALITY DATA, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DATE	TIME	DEPTH (FT)	PER- CENT OF TOTAL DEPTH	TEMPER- ATURE (DEG C)	AIR TEMPER- ATURE (DEG C)	SPE- CIFIC CON- DUCT- ANCE (MICRO- MHOS)	PH (UNITS)	DIS- SOLVED OXYGEN (MG/L)	TUR- BID- ITY (JTU)
OCT. 30...	1200	9.0	50	14.0	--	1060	8.6	6.6	10
NOV. 27...	1700	9.0	--	10.1	50.0	6030	--	3.8	10
FEB. 14...	1130	7.0	50	3.0	38.0	3450	7.8	12.4	7
APR. 19...	1200	9.0	50	13.6	6.1	209	7.4	3.2	9
MAY 17...	1230	10	50	21.0	25.6	192	7.7	7.4	9
JUNE 26...	1345	10	50	21.5	19.5	7967	6.2	.2	5

DATE	TOTAL NITRITE (N) (MG/L)	TOTAL NITRATE (N) (MG/L)	TOTAL KJEL- DAHL NITRO- GEN (N) (MG/L)	AMMONIA NITRO- GEN (N) (MG/L)	ORGANIC NITRO- GEN (N) (MG/L)	TOTAL NITRO- GEN (N) (MG/L)	TOTAL PHOS- PHORUS (P) (MG/L)	TOTAL ORTHO- PHOS- PHORUS (P) (MG/L)	DIS- SOLVED ORTHO- PHOS- PHORUS (P) (MG/L)
OCT. 30...	.00	--	1.3	--	--	1.3	.72	--	--
NOV. 27...	.10	1.6	2.5	2.5	.00	4.2	.71	--	.55
FEB. 14...	.04	1.4	1.9	1.5	.40	3.3	.38	--	.24
APR. 19...	.04	.65	.68	.47	.21	1.4	.23	.13	--
MAY 17...	.07	.62	1.1	.45	.65	1.8	.24	.15	--
JUNE 26...	.19	.17	1.9	.92	.98	2.3	.58	.16	--

## PASSAIC RIVER BASIN

01392600 PASSAIC RIVER AT HARRISON, N. J.--Continued

## WATER QUALITY DATA, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DATE	TOTAL ORGANIC CARBON (C) (MG/L)	IMME- DIATE COLI- FORM (COL. PER 100 ML)	FECAL COLI- FORM (COL. PER 100 ML)	STREP- TOCOCCI (COL- ONIES PER 100 ML)	CHLORO- PHYLL A (UG/L)	CHLORO- PHYLL B (UG/L)	DIS- SOLVED CHLO- RIDE (CL) (MG/L)	DIS- SOLVED LEAD (PB) (UG/L)	TOTAL LEAD (PB) (UG/L)
OCT. 30...	16	--	26000	--	--	--	220	3	--
NOV. 27...	--	--	--	--	1.5	--	1000	1	--
FEB. 14...	3.5	1350	350	50	.5	--	1100	--	24
APR. 19...	--	10000	1600	1600	1.5	3.9	24	--	17
MAY 17...	6.4	2500	350	0	5.0	11	21	--	8
JUNE 26...	7.2	--	28000	2970	54	9.8	5700	--	12

DATE	ALDRIN IN BOTTOM DE- POSITS (UG/L)	ALDRIN IN BOTTOM DE- POSITS (UG/KG)	LINDANE IN BOTTOM DE- POSITS (UG/L)	LINDANE IN BOTTOM DE- POSITS (UG/KG)	CHLOR- DANE IN BOTTOM DE- POSITS (UG/L)	CHLOR- DANE IN BOTTOM DE- POSITS (UG/KG)	DDD IN BOTTOM DE- POSITS (UG/L)	DDD IN BOTTOM DE- POSITS (UG/KG)	DDE IN BOTTOM DE- POSITS (UG/L)	DDE IN BOTTOM DE- POSITS (UG/KG)	DDT IN BOTTOM DE- POSITS (UG/L)	DDT IN BOTTOM DE- POSITS (UG/KG)
MAY 17...	.01	.0	.00	.0	.1	710	.00	200	.00	ND	.00	35

DATE	DI- ELDRIN IN BOTTOM DE- POSITS (UG/L)	DI- ELDRIN IN BOTTOM DE- POSITS (UG/KG)	ENDRIN IN BOTTOM DE- POSITS (UG/L)	ENDRIN IN BOTTOM DE- POSITS (UG/KG)	ETHION IN BOTTOM DE- POSITS (UG/L)	ETHION IN BOTTOM DE- POSITS (UG/KG)	TOX- APHENE IN BOTTOM DE- POSITS (UG/L)	TOX- APHENE IN BOTTOM DE- POSITS (UG/KG)	HEPTA- CHLOR IN BOTTOM DE- POSITS (UG/L)	HEPTA- CHLOR IN BOTTOM DE- POSITS (UG/KG)	HEPTA- CHLOR EPOXIDE IN BOT- TOM DE- POSITS (UG/L)	HEPTA- CHLOR EPOXIDE IN BOT- TOM DE- POSITS (UG/KG)
MAY 17...	.00	5.3	.00	.0	.00	0	0	.00	.0	.00	.00	.0

DATE	PCB IN BOTTOM DE- POSITS (UG/L)	PCB IN BOTTOM DE- POSITS (UG/KG)	MALA- THION (UG/L)	MALA- THION (UG/KG)	DI- AZINON (UG/L)	DI- AZINON (UG/KG)	METHYL PARA- THION (UG/L)	METHYL PARA- THION (UG/KG)	2,4-D (UG/L)	2,4,5-T (UG/L)	SILVEX (UG/L)	TRI- THION (UG/L)	METHYL TRI- THION (UG/L)
MAY 17...	.0	800	.02	.00	.02	.00	.00	.24	.00	.00	.06	.00	.00

## SUSPENDED-SEDIMENT DISCHARGE MEASUREMENTS, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DATE	TIME	TEMPER- ATURE (DEG C)	INSTAN- TANEOUS DIS- CHARGE (CFS)	SUS- PEN- DED SEDI- MENT (MG/L)	SUS- PEN- DED SEDI- MENT DIS- CHARGE (T/DAY)
01388500 - POMPTON R AT POMPTON PLAINS NJ (LAT 40 58 09 LONG 074 16 56)					
JAN. 30...	1445	6.4	1188	8	26
MAR. 26...	1200	5.3	874	5	12
AUG. 23...	1115	23.9	116	9	2.8
SEP. 04...	1300	19.2	1320	43	153
30...	1000	16.0	742	26	52





## ELIZABETH RIVER BASIN

01393500 ELIZABETH RIVER AT ELIZABETH, N. J.--Continued

## WATER QUALITY DATA, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DATE	FECAL COLIFORM (COL. PER 100 ML)	STREPTOCOCCI (COLONIES PER 100 ML)	ALKALINITY AS CaCO3 (MG/L)	CARBONATE (CO3) (MG/L)	BICARBONATE (HCO3) (MG/L)	CARBON DIOXIDE (CO2) (MG/L)	TOTAL CALCIUM (CA) (MG/L)	TOTAL MAGNESIUM (MG)	TOTAL SODIUM (NA) (MG/L)	TOTAL POTASSIUM (K) (MG/L)
NOV. 28...	--	--	--	--	--	--	--	--	--	--
NOV. 28...	--	--	--	--	--	--	--	--	--	--
FEB. 12...	1640	2372	--	--	--	--	--	--	--	--
MAR. 26...	--	--	--	--	--	--	--	--	--	--
APR. 17...	4100	1000	--	--	--	--	--	--	--	--
MAY 16...	--	2500	--	--	--	--	--	--	--	--
JUNE 12...	1100	400	--	--	--	--	--	--	--	--
JULY 11...	--	46800	--	--	--	--	--	--	--	--
JULY 12...	--	--	--	--	--	--	--	--	--	--
AUG. 22...	2600	1400	139	0	170	1.4	70	110	35	2.6
AUG. 23...	--	--	--	--	--	--	--	--	--	--
SEP. 04...	--	--	--	--	--	--	--	--	--	--
SEP. 19...	16300	900	--	--	--	--	--	--	--	--

DATE	DIS-SOLVED CHLORIDE (CL) (MG/L)	DIS-SOLVED SULFATE (SO4) (MG/L)	TOTAL FLUORIDE (F) (MG/L)	DIS-SOLVED SILICA (SiO2) (MG/L)	DIS-SOLVED SOLIDS (RESIDUE AT 180 C) (MG/L)	DIS-SOLVED SOLIDS (TONS PER AC-FT)	TOTAL IRON (FE) (UG/L)	DIS-SOLVED IRON (FE) (UG/L)	TOTAL MANGANESE (MN) (UG/L)	DIS-SOLVED MANGANESE (MN) (UG/L)
NOV. 28...	--	--	--	--	--	--	--	--	--	--
NOV. 28...	--	--	--	--	--	--	--	--	--	--
FEB. 12...	--	--	--	--	--	--	--	--	--	--
MAR. 26...	--	--	--	--	--	--	--	--	--	--
APR. 17...	--	--	--	--	--	--	--	--	--	--
MAY 16...	--	--	--	--	--	--	--	--	--	--
JUNE 12...	--	--	--	--	--	--	--	--	--	--
JULY 11...	--	--	--	--	--	--	--	--	--	--
JULY 12...	--	--	--	--	--	--	--	--	--	--
AUG. 22...	52	86	.2	17	441	.60	330	20	110	30
AUG. 23...	--	--	--	--	--	--	--	--	--	--
SEP. 04...	--	--	--	--	--	--	--	--	--	--
SEP. 19...	--	--	--	--	--	--	--	--	--	--

DATE	DIS-SOLVED ARSENIC (AS) (UG/L)	DIS-SOLVED BARIUM (BA) (UG/L)	DIS-SOLVED BERYLLIUM (BE) (UG/L)	DIS-SOLVED BISMUTH (BI) (UG/L)	DIS-SOLVED BORON (B) (UG/L)	DIS-SOLVED CADMIUM (CD) (UG/L)	DIS-SOLVED CHROMIUM (CR) (UG/L)	DIS-SOLVED COBALT (CO) (UG/L)
AUG. 22...	3	95	<2	<5	120	<3	32	<4

DATE	DIS-SOLVED COPPER (CU) (UG/L)	DIS-SOLVED LEAD (PB) (UG/L)	DIS-SOLVED MOLYBDENUM (MO) (UG/L)	DIS-SOLVED NICKEL (NI) (UG/L)	DIS-SOLVED SILVER (AG) (UG/L)	DIS-SOLVED STRONTIUM (SR) (UG/L)	DIS-SOLVED VANADIUM (V) (UG/L)	DIS-SOLVED ZINC (ZN) (UG/L)	DIS-SOLVED TIN (SN) (UG/L)
AUG. 22...	8	<5	4	7	0	1100	7.0	0	<4

DATE	DIS-SOLVED ALUMINUM (AL) (UG/L)	DIS-SOLVED GALLIUM (GA) (UG/L)	DIS-SOLVED GERMANIUM (GE) (UG/L)	DIS-SOLVED LITHIUM (LI) (UG/L)	DIS-SOLVED SELENIUM (SE) (UG/L)	DIS-SOLVED TANTALUM (TA) (UG/L)	DIS-SOLVED ZIRCONIUM (ZR) (UG/L)	DIS-SOLVED MERCURY (HG) (UG/L)
AUG. 22...	37	<2	<6	10	3	<3	<7	<.5

## ELIZABETH RIVER BASIN

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01393500 ELIZABETH RIVER AT ELIZABETH, N. J.--Continued

SUSPENDED-SEDIMENT DISCHARGE MEASUREMENTS, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DATE	TIME	TEMPER- ATURE (DEG C)	INSTAN- TANEOUS DIS- CHARGE (CFS)	SUS- PENDE SEDI- MENT (MG/L)	SUS- PENDE SEDI- MENT DIS- CHARGE (T/DAY)
MAR. 26...	1300	9.0	14	7	.26
APR. 17...	0900	11.0	11	7	.21
JULY 12...	1000	20.5	5.6	7	.11
AUG. 23...	1345	24.5	32	48	4.1
SEP. 04...	1030	19.1	96	15	3.9

## RARITAN RIVER BASIN

01396500 SOUTH BRANCH RARITAN RIVER NEAR HIGH BRIDGE, N. J.

LOCATION.--Lat 40°40'40", long 74°52'45", Hunterdon County, water-quality recorder at gaging station on Cregar Road bridge, 1 mi (1.6 km) northeast of High Bridge.

DRAINAGE AREA.--5.3 mi<sup>2</sup> (13.7 km<sup>2</sup>).

PERIOD OF RECORD.--Chemical analyses: Water years 1961-65 (partial-record station), January 1966 to September 1974. Water temperatures: October 1960 to September 1974.

## EXTREMES.--1973-74:

Specific conductance: Maximum, 255 micromhos Oct. 21; minimum, 46 micromhos Aug. 18.

Water temperatures: Maximum, 26.0°C July 9; minimum, freezing point on several days during winter months.

## Period of record:

Specific conductance (1968-74): Maximum, 292 micromhos Sept. 14, 1972; minimum, 46 micromhos Aug. 18, 1974.

Water temperatures: Maximum, 28.0°C July 3, 1966; minimum, freezing point on many days during winter months.

REMARKS.--Miscellaneous storm sediment samples collected during water-years 1961, 67-73. Missing continuous water-quality records are the result of malfunction of sensor or sampling mechanism.

## WATER QUALITY DATA, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DATE	TIME	INSTANTANEOUS DIS- CHARGE (CFS)	ELEV. OF LAND SURFACE DATUM (FT. ABOVE MSL)	TEMPER- ATURE (DEG C)	SPE- CIFIC CON- DUCT- ANCE (MICRO- MHOS)	PH (UNITS)	DIS- SOLVED OXYGEN (MG/L)	BIO- CHEM- ICAL OXYGEN DEMAND 5 DAY (MG/L)	TUR- BID- ITY (JTU)	COLOR (PLAT- INUM- COBALT UNITS)
NOV.										
28...	1115	236	282	9.8	156	7.7	11.8	3.2	--	--
FEB.										
05...	1045	109	282	.0	156	7.4	15.6	.8	--	--
APR.										
17...	0915	251	282	9.1	155	8.0	11.4	1.2	--	--
MAY										
16...	1130	175	282	17.8	151	7.9	10.0	.8	--	--
JUNE										
27...	1030	96	282	15.8	187	8.5	10.1	.6	--	--
JULY										
17...	0900	45	282	18.9	227	9.1	8.8	.7	--	--
AUG.										
21...	1400	56	282	24.0	185	8.5	10.0	1.7	5	1
SEP.										
13...	1045	105	282	21.7	171	8.4	11.2	.9	4	2

DATE	TOTAL NITRITE (N) (MG/L)	TOTAL NITRATE (N) (MG/L)	TOTAL KJEL- DAHL NITRO- GEN (N) (MG/L)	AMMONIA NITRO- GEN (N) (MG/L)	ORGANIC NITRO- GEN (N) (MG/L)	TOTAL NITRO- GEN (N) (MG/L)	TOTAL PHOS- PHORUS (P) (MG/L)	TOTAL ORTHO PHOS- PHORUS (P) (MG/L)	DIS- SOLVED ORTHO PHOS- PHORUS (P) (MG/L)	TOTAL ORGANIC CARBON (C) (MG/L)
NOV.										
28...	.05	.95	.23	.01	.22	1.2	.14	.08	.09	--
FEB.										
05...	.01	1.5	.31	.06	.25	1.8	.04	.03	.03	2.0
APR.										
17...	--	--	--	--	--	--	--	--	--	--
MAY										
16...	.03	.88	.34	.09	.25	1.3	.06	.03	--	5.1
JUNE										
27...	--	--	--	--	--	--	--	--	--	--
JULY										
17...	--	--	--	--	--	--	--	--	--	--
AUG.										
21...	.00	1.1	.27	.13	.14	1.4	.08	.05	--	2.2
SEP.										
13...	.00	.89	.27	.09	.18	1.2	.06	.04	--	3.8

RARITAN RIVER BASIN

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01396500 SOUTH BRANCH RARITAN RIVER NEAR HIGH BRIDGE, N. J.--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DATE	IMME- DIATE COLI- FORM (COL. PER 100 ML)	FECAL COLI- FORM (COL. PER 100 ML)	STREP- TOCOCCI (COL- ONIES PER 100 ML)	ALKA- LINITY AS CAC03 (MG/L)	CAR- BONATE (C03) (MG/L)	BICAR- BONATE (HC03) (MG/L)	CARBON DIOXIDE (C02) (MG/L)	TOTAL CAL- CIUM (CA) (MG/L)	TOTAL MAG- NE- SIUM (MG)	TOTAL SODIUM (NA) (MG/L)
NOV. 28...	2740	1500	--	--	--	--	--	--	--	--
FEB. 05...	560	54	5	--	--	--	--	--	--	--
APR. 17...	1740	106	110	--	--	--	--	--	--	--
MAY 16...	350	176	76	--	--	--	--	--	--	--
JUNE 27...	1260	110	330	--	--	--	--	--	--	--
JULY 17...	180	44	90	--	--	--	--	--	--	--
AUG. 21...	228	154	1076	66	0	80	.4	17	9.0	7.3
SEP. 13...	296	--	130	52	--	63	.4	16	7.3	6.5

DATE	TOTAL PO- TAS- SIUM (K) (MG/L)	DIS- SOLVED CHLO- RIDE (CL) (MG/L)	DIS- SOLVED SULFATE (S04) (MG/L)	TOTAL FLUO- RIDE (F) (MG/L)	DIS- SOLVED SILICA (SI02) (MG/L)	DIS- SOLVED SOLIDS (RESI- DUE AT 180 C) (MG/L)	DIS- SOLVED SOLIDS (TONS PER AC-FT)	TOTAL IRON (FE) (UG/L)	TOTAL MAN- GANESE (MN) (UG/L)
NOV. 28...	--	--	--	--	--	--	--	--	--
FEB. 05...	--	--	--	--	--	--	--	--	--
APR. 17...	--	--	--	--	--	--	--	--	--
MAY 16...	--	--	--	--	--	--	--	--	--
JUNE 27...	--	--	--	--	--	--	--	--	--
JULY 17...	--	--	--	--	--	--	--	--	--
AUG. 21...	1.1	11	11	.2	10	159	.22	650	50
SEP. 13...	1.2	9.8	8.8	.0	11	111	.15	450	70

SPECIFIC CONDUCTANCE (MICROMHOS AT 25°C), WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

[illegible]

01396500 SOUTH BRANCH RARITAN RIVER NEAR HIGH BRIDGE, N. J.--Continued  
 SPECIFIC CONDUCTANCE (MICROMHOS AT 25°C), WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	JUNE			JULY			AUGUST			SEPTEMBER		
	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	193	157	179	196	169	186	187	163	177	187	161	175
2	169	149	158	192	164	176	191	178	188	177	165	181
3	181	169	175	206	190	198	182	136	166	147	106	124
4	193	178	184	210	203	205	159	135	144	110	69	87
5	196	191	193	209	203	206	177	161	169	150	114	135
6	201	196	198	209	202	206	177	173	174	160	152	158
7	205	202	204	210	200	206	189	177	183	159	102	127
8	212	208	210	210	202	207	190	184	187	145	112	132
9	213	209	211	212	202	208	192	184	189	156	147	153
10	215	211	213	210	202	206	190	114	156	162	155	158
11	227	216	221	203	197	200	161	110	135	166	162	164
12	228	221	234	202	197	200	183	164	174	172	165	168
13	233	224	225	200	193	197	196	185	190	175	168	172
14	230	227	228	201	193	198	201	196	199	174	125	138
15	238	230	236	200	192	197	206	200	203	162	133	152
16	---	---	---	202	193	198	210	204	206	170	162	166
17	---	---	---	203	196	200	216	77	190	177	171	174
18	---	---	---	204	195	200	104	46	73	180	176	178
19	---	---	---	204	196	201	155	109	137	182	176	178
20	---	---	---	204	197	200	180	158	171	187	180	182
21	---	---	---	199	193	197	193	182	187	183	180	182
22	---	---	---	201	194	198	197	193	195	181	164	174
23	---	---	---	202	194	198	200	178	187	179	163	170
24	---	---	---	203	193	196	192	158	171	185	179	182
25	---	---	---	199	187	195	197	167	185	189	184	186
26	194	190	192	190	180	183	194	169	182	188	182	186
27	203	192	199	197	191	193	200	195	198	192	186	188
28	206	200	203	200	194	196	200	194	197	193	114	174
29	202	198	200	200	189	197	203	190	199	113	64	86
30	203	196	199	186	159	179	191	147	178	140	107	122
31	---	---	---	160	139	146	157	141	148	---	---	---
MONTH	---	---	---	212	139	196	216	46	175	193	64	156

TEMPERATURE (°C) OF WATER, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCTOBER			NOVEMBER			DECEMBER			JANUARY		
	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	15.5	12.5	14.5	---	---	---	6.0	4.0	5.0	4.5	4.0	4.5
2	16.0	13.5	14.5	---	---	---	4.0	2.5	3.5	4.0	3.0	---
3	18.5	15.0	17.0	---	---	---	4.0	2.0	3.0	---	---	---
4	18.5	16.0	17.5	---	---	---	6.0	3.5	4.5	2.5	2.0	2.5
5	18.5	15.5	17.5	---	---	---	10.0	6.0	8.0	2.0	1.0	---
6	16.0	14.0	15.5	---	---	---	10.0	7.5	9.0	3.0	2.0	2.5
7	15.0	13.5	14.0	---	---	---	7.0	5.5	6.5	3.0	2.0	2.5
8	15.5	13.0	14.5	---	---	---	5.0	4.5	4.5	2.5	0.0	2.0
9	16.5	13.5	15.0	---	---	---	6.5	4.5	5.5	---	---	---
10	16.5	14.0	15.5	---	---	---	6.5	6.0	6.5	---	---	---
11	15.0	13.5	14.0	---	---	---	5.5	4.0	5.0	---	---	---
12	14.5	12.0	13.5	---	---	---	4.0	3.0	3.5	---	---	---
13	15.0	13.0	14.5	---	---	---	4.0	2.0	2.5	---	---	---
14	15.0	13.5	14.5	---	---	---	6.0	4.0	5.0	---	---	---
15	15.5	12.0	13.5	---	---	---	4.5	3.5	4.0	---	---	---
16	13.5	12.0	13.0	---	---	---	3.5	0.5	2.5	---	---	---
17	12.0	10.0	11.5	---	---	---	0.0	0.0	0.0	---	---	---
18	---	---	---	---	---	---	0.0	0.0	0.0	---	---	---
19	10.5	9.0	9.5	---	---	---	0.0	0.0	0.0	---	---	---
20	12.0	9.0	10.5	---	---	---	2.5	0.0	1.0	---	---	---
21	12.0	10.0	11.0	6.0	4.5	---	3.0	1.0	2.5	---	---	---
22	---	---	---	8.5	6.5	7.5	1.5	0.0	1.0	---	---	---
23	---	---	---	8.0	6.5	7.5	3.5	1.5	2.5	3.5	2.0	3.0
24	---	---	---	8.0	6.5	7.5	3.0	2.0	2.5	---	---	---
25	---	---	---	9.5	8.0	9.0	3.5	1.5	2.0	---	---	---
26	---	---	---	9.5	8.0	8.5	4.5	3.5	4.5	---	---	---
27	---	---	---	9.0	8.0	8.5	7.0	4.5	6.0	---	---	---
28	---	---	---	10.0	9.0	9.5	7.0	5.5	6.5	---	---	---
29	---	---	---	10.0	7.0	8.5	5.5	4.5	5.0	---	---	---
30	---	---	---	7.0	5.5	6.5	5.5	4.0	5.0	---	---	---
31	---	---	---	---	---	---	4.0	4.0	4.0	---	---	---
MONTH	---	---	---	---	---	---	10.0	0.0	4.0	---	---	---



## RARITAN RIVER BASIN

01396500 SOUTH BRANCH RARITAN RIVER NEAR HIGH BRIDGE, N. J.--Continued

TEMPERATURE (°C) OF WATER, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

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

DAY	JUNE			JULY			AUGUST			SEPTEMBER		
	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	16.5	14.5	15.5	20.5	18.5	19.5	23.0	19.0	21.0	22.5	20.0	21.0
2	16.0	14.5	15.0	23.0	18.5	20.5	23.5	19.0	21.5	21.0	19.5	20.5
3	18.0	13.0	15.5	23.0	20.0	21.5	22.5	21.0	21.5	19.0	18.0	18.5
4	20.0	15.0	17.5	25.5	20.5	23.0	23.5	21.0	22.0	18.5	16.5	18.0
5	21.0	16.5	18.5	24.0	22.0	23.0	24.0	20.5	22.0	17.5	14.5	16.5
6	21.0	16.5	18.5	24.5	21.0	22.5	23.0	19.5	21.0	16.5	15.0	15.5
7	18.0	16.5	17.5	25.0	19.5	22.0	21.0	19.5	20.0	16.0	14.5	15.0
8	18.0	15.5	16.5	25.5	20.5	23.0	21.0	18.5	19.5	17.5	15.0	16.5
9	21.0	16.0	18.0	26.0	21.5	23.5	21.5	18.5	20.0	18.0	16.0	17.0
10	24.0	18.5	21.0	25.5	22.5	24.0	22.0	18.5	20.0	18.5	16.5	18.0
11	24.0	20.5	22.0	23.5	20.0	22.0	22.0	19.0	20.0	19.0	17.5	18.0
12	20.5	18.0	19.0	23.5	18.5	20.5	22.0	17.0	19.5	21.0	18.5	19.5
13	20.5	15.5	18.0	23.0	18.5	20.5	21.0	17.5	19.5	22.0	19.5	20.5
14	20.0	15.0	18.0	24.5	19.0	22.0	23.0	18.5	21.0	20.5	17.5	19.0
15	20.5	15.0	17.5	25.5	21.5	23.5	23.0	18.5	21.0	17.5	15.5	16.5
16	---	---	---	25.0	21.5	23.0	23.0	18.0	21.0	17.5	14.5	16.0
17	---	---	---	23.5	18.5	21.5	21.5	19.5	20.5	17.5	14.5	16.0
18	---	---	---	23.0	19.5	21.5	21.5	19.0	20.5	17.5	15.5	16.5
19	---	---	---	24.5	21.0	22.5	23.0	19.0	21.0	18.0	15.5	17.0
20	---	---	---	23.5	19.0	21.0	23.0	19.0	21.0	19.0	17.0	18.0
21	---	---	---	22.0	18.0	20.0	23.0	19.0	21.0	19.0	17.0	18.0
22	---	---	---	22.0	17.5	20.0	20.5	19.5	20.0	17.0	14.5	16.0
23	---	---	---	21.0	18.0	19.5	21.5	19.0	20.5	14.5	12.0	13.5
24	---	---	---	19.0	17.5	18.0	23.0	20.0	21.0	13.0	10.0	11.5
25	---	---	---	18.5	16.5	17.5	22.5	19.5	21.0	13.0	10.0	11.5
26	16.0	15.0	15.5	19.5	17.0	18.5	20.5	19.0	19.5	14.0	11.0	12.5
27	17.0	15.0	16.0	21.5	18.5	20.0	21.5	18.5	20.0	14.5	11.5	13.0
28	16.0	15.0	15.5	22.0	19.5	20.5	22.5	20.0	21.0	16.5	13.0	14.5
29	18.0	15.0	16.5	23.0	20.0	21.5	23.0	20.5	22.0	17.5	16.5	17.0
30	20.5	16.0	18.0	22.5	20.0	21.0	22.5	21.5	22.0	17.5	14.0	14.5
31	---	---	---	23.5	19.5	21.5	21.5	20.0	21.0	---	---	---
MONTH	---	---	---	26.0	16.5	21.0	24.0	17.0	20.5	22.5	10.0	16.5

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LOCATION.--Lat 40°38'21", long 74°54'58", Hunterdon County, at gaging station 1,800 ft (549 m) downstream from Spruce Run Reservoir dam, 0.2 mi (0.3 km) north of Clinton.

PERIOD OF RECORD.--Chemical analyses: Water years 1967-72 (partial-record station), August to September 1974.  
Water temperatures: October 1968 to September 1969, January 1971 to September 1974.  
Sediment records: October 1960 to April 1961.

Water temperatures: Maximum daily, 22.5°C June 10; minimum daily, 1.0°C Jan. 18.

Period of record:

Water temperatures: Maximum daily, 24.5°C July 31, 1973; minimum daily, freezing point on many days during winter months.

REMARKS.--Miscellaneous storm sediment samples collected during water years 1960-62.

DATE	TIME	INSTANTANEOUS DIS-CHARGE (CFS)	ELEV. OF LAND SURFACE DATUM (FT. ABOVE MSL)	TEMPER-ATURE (DEG C)	SPE-CIFIC CON-DUCTANCE (MICRO-MHOS)	PH (UNITS)	DIS-SOLVED OXYGEN (MG/L)	RIO-CHEM-ICAL OXYGEN DEMAND 5 DAY (MG/L)	TUR-BID-ITY (JTU)	COLOR (PLAT-INUM-COBALT UNITS)
NOV. 28...	1145	9.4	193	10.8	156	6.9	10.8	2.4	--	--
FEH. 05...	1130	48	193	.0	122	7.9	15.0	.9	--	--
APR. 17...	1000	94	193	8.9	142	6.7	12.0	.8	--	--
MAY 16...	1200	82	193	16.9	133	7.6	9.7	.7	--	--
JUNE 27...	0930	46	193	17.0	178	8.1	9.9	1.2	--	--
JULY 17...	1400	102	193	17.4	170	9.9	10.3	.6	--	--
AUG. 21...	1200	22	193	22.0	171	8.2	10.4	1.3	4	1
SEP. 13...	0930	10	193	20.6	178	8.1	9.4	1.2	--	--

[illegible]

DATE	IMME- DIATE COLI- FORM (COL. PER 100 ML)	FECAL COLI- FORM (COL. PER 100 ML)	STREP- TOCOCCI (COL- ONIES PER 100 ML)	ALKA- LINITY AS CACO3 (MG/L)	CAR- BONATE (CO3) (MG/L)	BICAR- BONATE (HCO3) (MG/L)	CARBON DIOXIDE (CO2) (MG/L)	TOTAL CAL- CIUM (CA) (MG/L)	TOTAL MAG- NE- SIUM (MG) (MG/L)	TOTAL SODIUM (NA) (MG/L)
NOV. 28...	100	184	54	--	--	--	--	--	--	--
FEB. 05...	40	6	40	--	--	--	--	--	--	--
APR. 17...	24	4	0	--	--	--	--	--	--	--
MAY 16...	48	14	8	--	--	--	--	--	--	--
JUNE 27...	472	396	240	--	--	--	--	--	--	--
JULY 17...	940	60	50	--	--	--	--	--	--	--
AUG. 21...	560	316	588	57	0	69	.7	15	7.6	6.9
SEP. 13...	5600	--	80	--	--	--	--	--	--	--

[illegible]

RARITAN RIVER BASIN

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01396800 SPRUCE RUN AT CLINTON, N. J.--Continued

TEMPERATURE (°C) OF WATER, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974  
(ONCE DAILY MEASUREMENT BETWEEN 0800 AND 1000)

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	18.0	12.0	7.5	7.0	5.5	3.0	6.0	14.5	14.5	15.5	15.0	15.0
2	18.5	13.0	6.5	7.0	6.5	3.0	6.0	11.5	15.0	17.0	16.0	14.5
3	19.0	12.0	7.0	7.5	6.0	3.5	10.0	12.0	14.5	17.5	16.5	15.0
4	19.0	12.0	7.0	5.5	6.5	3.0	8.0	12.5	15.0	15.0	15.0	14.5
5	19.5	10.5	9.0	4.5	5.0	8.0	11.5	12.0	16.5	15.0	17.0	14.0
6	18.5	9.5	8.0	6.0	4.5	5.0	10.0	13.5	15.5	15.5	16.5	14.5
7	18.0	10.0	7.0	5.5	5.0	7.0	9.0	13.0	16.0	14.5	17.0	14.0
8	18.0	10.0	7.0	4.0	4.0	7.0	9.0	12.5	16.0	15.0	16.5	14.0
9	18.0	9.0	6.5	3.5	3.0	6.0	8.5	13.5	17.0	17.5	17.0	14.5
10	18.0	8.0	7.0	3.0	2.5	6.0	8.0	14.0	22.5	18.5	17.0	15.0
11	17.5	8.0	7.0	3.0	3.0	5.0	9.5	14.0	18.0	14.5	15.5	14.5
12	17.5	9.0	7.5	5.5	3.0	6.0	9.0	14.5	22.0	14.5	16.0	14.5
13	17.5	9.0	7.0	5.0	3.5	5.0	10.5	14.0	16.0	14.0	16.0	15.5
14	17.5	9.0	8.0	5.0	3.5	5.5	12.0	13.0	13.5	14.5	16.5	15.0
15	17.0	9.5	9.5	5.0	4.0	6.0	11.5	13.5	13.5	14.5	17.0	15.0
16	16.5	10.0	9.5	4.5	3.5	5.5	11.0	15.0	14.5	18.0	16.5	14.5
17	16.0	8.5	9.0	2.0	3.5	5.5	10.5	13.5	14.5	15.0	18.0	14.5
18	15.0	8.0	7.0	1.0	2.5	8.0	11.0	17.0	14.0	17.0	17.5	14.5
19	14.5	8.0	6.5	2.5	3.5	8.0	12.0	16.0	14.0	18.0	16.5	13.5
20	14.5	7.5	7.0	2.0	6.5	7.0	11.5	15.0	15.0	17.0	16.0	15.0
21	14.0	8.0	8.5	3.0	5.5	7.0	12.0	15.0	16.0	16.5	17.0	15.0
22	14.0	8.5	5.5	3.0	6.0	6.0	10.5	15.5	16.0	16.0	17.0	14.5
23	14.0	8.0	5.0	3.0	3.0	6.5	10.5	16.0	16.0	16.0	16.5	14.5
24	14.0	8.0	5.0	3.5	6.5	7.0	11.0	15.5	15.0	16.5	17.0	16.0
25	14.0	9.0	5.0	3.0	3.0	7.0	11.0	15.0	15.5	15.5	17.5	16.0
26	14.0	9.0	4.5	3.0	2.0	8.0	11.5	14.5	14.5	15.0	16.5	16.5
27	14.5	9.0	9.5	4.0	2.0	9.0	12.5	13.5	15.5	16.5	17.0	16.0
28	14.0	9.0	7.5	4.5	2.5	6.0	11.0	14.0	15.0	18.0	17.0	16.0
29	14.0	7.5	7.0	5.0	---	6.0	12.0	14.0	15.0	18.5	17.0	16.5
30	13.5	7.0	6.5	6.5	---	6.0	14.0	14.5	15.5	19.0	17.0	16.5
31	13.0	---	6.5	6.5	---	6.0	---	14.5	---	18.0	15.5	---
MONTH	16.0	9.0	7.0	4.5	4.0	6.0	10.5	14.0	15.5	16.0	16.5	15.0

## 01397000 SOUTH BRANCH RARITAN RIVER AT STANTON, N. J.

LOCATION.--Lat 40°34'21", long 74°52'10", Hunterdon County, at gaging station on highway bridge at Stanton railroad station, 1.5 mi (2.6 km) west of Stanton.

DRAINAGE AREA.--147 mi<sup>2</sup> (381 km<sup>2</sup>).

PERIOD OF RECORD.--Chemical analyses: Water years 1960-65 (partial-record station), January 1966 to September 1974.  
Water temperatures: December 1959 to November 1961, December 1968 to September 1974.  
Sediment records: December 1959 to September 1965.

## EXTREMES.--1973-74:

Specific conductance: Maximum, 211 micromhos Nov. 21; minimum, 92 micromhos Dec. 18.

Water temperatures: Maximum, 28.5°C July 9; minimum, freezing point on several days during winter months.

Period of record:

Specific conductance (1968-74): Maximum, 407 micromhos Feb. 5, 1971; minimum, 67 micromhos Aug. 28, 1971.

Water temperatures (1959-61, 68-74): Maximum, 29.0°C July 2, 1961; minimum, freezing point on many days during winter months.

REMARKS.--Water-temperature records prior to 1968 were collected once-daily. Miscellaneous storm sediment samples collected during water years 1967-73. Missing continuous water-quality records are the result of malfunction of sensor or sampling mechanism.

## WATER QUALITY DATA, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	ELEV. OF LAND SURFACE DATUM (FT. ABOVE MSL)	TEMPERATURE (DEG C)	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)	DISSOLVED OXYGEN (MG/L)	BIOCHEMICAL OXYGEN DEMAND 5 DAY (MG/L)	TURBIDITY (JTU)	COLOR (PLATINUM-COBALT UNITS)	TOTAL NITRITE (N) (MG/L)
NOV. 28...	1030	223	125	10.1	187	7.8	11.8	2.1	--	--	.01
FEB. 05...	0945	245	125	.0	158	7.2	14.2	.7	--	--	.02
APR. 17...	0830	460	125	9.0	159	7.6	11.3	.7	--	--	--
MAY 16...	1045	328	125	18.1	149	7.0	10.1	1.0	--	--	.01
JUNE 27...	0830	181	125	16.3	185	8.2	9.4	1.0	--	--	--
JULY 17...	1530	237	125	23.8	178	9.7	9.4	.8	--	--	--
AUG. 21...	0915	122	125	21.9	175	8.8	10.1	1.8	4	4	--
SEP. 13...	0915	195	125	20.8	189	8.6	9.4	1.3	--	--	--

DATE	TOTAL NITRATE (N) (MG/L)	TOTAL KJELDAHL NITROGEN (N) (MG/L)	AMMONIA NITROGEN (N) (MG/L)	ORGANIC NITROGEN (N) (MG/L)	TOTAL NITROGEN (N) (MG/L)	TOTAL PHOSPHORUS (P) (MG/L)	TOTAL ORTHO PHOSPHORUS (P) (MG/L)	DISSOLVED ORTHO PHOSPHORUS (P) (MG/L)	TOTAL ORGANIC CARBON (C) (MG/L)	IMMEDIATE COLIFORM (COL. PER 100 ML)
NOV. 28...	1.4	.21	.12	.09	1.6	.09	.06	.07	--	1280
FEB. 05...	1.6	.12	.08	.04	1.7	.04	.02	.02	2.0	172
APR. 17...	--	--	--	--	--	--	--	--	--	1080
MAY 16...	.92	.23	.07	.16	1.2	.05	.03	--	4.9	300
JUNE 27...	--	--	--	--	--	--	--	--	--	820
JULY 17...	--	--	--	--	--	--	--	--	--	--
AUG. 21...	--	--	--	--	--	--	--	--	5.0	560
SEP. 13...	--	--	--	--	--	--	--	--	--	2600

DATE	FECAL COLIFORM (COL. PER 100 ML)	STREPTOCOCCI (COLONIES PER 100 ML)	ALKALINITY AS CaCO <sub>3</sub> (MG/L)	CARBONATE (CO <sub>3</sub> ) (MG/L)	BICARBONATE (HCO <sub>3</sub> ) (MG/L)	CARBON DIOXIDE (CO <sub>2</sub> ) (MG/L)	TOTAL CALCIUM (CA) (MG/L)	TOTAL MAGNESIUM (MG)	TOTAL SODIUM (NA) (MG/L)	TOTAL POTASSIUM (K) (MG/L)
NOV. 28...	920000	1258	--	--	--	--	--	--	--	--
FEB. 05...	27	5	--	--	--	--	--	--	--	--
APR. 17...	88	32	--	--	--	--	--	--	--	--
MAY 16...	140	136	--	--	--	--	--	--	--	--
JUNE 27...	268	248	--	--	--	--	--	--	--	--
JULY 17...	50	60	--	--	--	--	--	--	--	--
AUG. 21...	116	1076	49	0	60	.2	16	7.4	7.0	1.3
SEP. 13...	--	190	--	--	--	--	--	--	--	--

RARITAN RIVER BASIN

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01397000 SOUTH BRANCH RARITAN RIVER AT STANTON, N. J.--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DATE	DIS- SOLVED CHLO- RIDE (CL) (MG/L)	DIS- SOLVED SULFATE (SO4) (MG/L)	TOTAL FLUO- RIDE (F) (MG/L)	DIS- SOLVED SILICA (SiO2) (MG/L)	DIS- SOLVED SOLIDS (RESI- DUE AT 180 C) (MG/L)	DIS- SOLVED SOLIDS (TONS PER AC-FT)	TOTAL IRON (FE) (UG/L)	DIS- SOLVED IRON (FE) (UG/L)	TOTAL MAN- GANESE (MN) (UG/L)	DIS- SOLVED MAN- GANESE (MN) (UG/L)
NOV. 28...	--	--	--	--	--	--	--	--	--	--
FEB. 05...	--	--	--	--	--	--	--	--	--	--
APR. 17...	--	--	--	--	--	--	--	--	--	--
MAY 16...	--	--	--	--	--	--	--	--	--	--
JUNE 27...	--	--	--	--	--	--	--	--	--	--
JULY 17...	--	--	--	--	--	--	--	--	--	--
AUG. 21...	11	16	.2	8.7	127	.17	320	90	80	55
SEP. 13...	--	--	--	--	--	--	--	--	--	--

DATE	DIS- SOLVED ARSENIC (AS) (UG/L)	DIS- SOLVED BARIUM (BA) (UG/L)	DIS- SOLVED BERYL- LIUM (BE) (UG/L)	DIS- SOLVED BISMUTH (BI) (UG/L)	DIS- SOLVED BORON (B) (UG/L)	DIS- SOLVED CAD- MIUM (CD) (UG/L)	DIS- SOLVED CHRO- MIUM (CR) (UG/L)	DIS- SOLVED COBALT (CO) (UG/L)
AUG. 21...	<1	25	0	<2	25	1	4	<2

DATE	DIS- SOLVED COPPER (CU) (UG/L)	DIS- SOLVED LEAD (PB) (UG/L)	DIS- SOLVED MOLYB- DENUM (MO) (UG/L)	DIS- SOLVED NICKEL (NI) (UG/L)	DIS- SOLVED SILVER (AG) (UG/L)	DIS- SOLVED STRON- TIUM (SR) (UG/L)	DIS- SOLVED VANA- DIUM (V) (UG/L)	DIS- SOLVED ZINC (ZN) (UG/L)	DIS- SOLVED TIN (SN) (UG/L)
AUG. 21...	8	4	0	6	0	53	<1.0	16	<2

DATE	DIS- SOLVED ALUM- INUM (AL) (UG/L)	DIS- SOLVED GALLIUM (GA) (UG/L)	DIS- SOLVED GER- MANIUM (GE) (UG/L)	DIS- SOLVED LITHIUM (LI) (UG/L)	DIS- SOLVED SELE- NIUM (SE) (UG/L)	DIS- SOLVED TAN- IUM (TI) (UG/L)	DIS- SOLVED ZIR- CONIUM (ZR) (UG/L)	DIS- SOLVED MERCURY (HG) (UG/L)
AUG. 21...	74	0	<3	4	0	7	<3	<.5



## RARITAN RIVER BASIN

01397000 SOUTH BRANCH RARITAN RIVER AT STANTON, N. J.--Continued

SPECIFIC CONDUCTANCE (MICROMHOS AT 25°C), WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCTOBER			NOVEMBER			DECEMBER			JANUARY		
	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	170	163	165	178	174	176	153	149	152	161	158	160
2	189	171	178	181	177	178	152	146	148	159	151	154
3	192	160	178	182	180	180	151	144	148	174	154	158
4	169	160	164	182	180	181	153	146	149	184	159	166
5	175	169	172	184	183	184	163	145	155	159	152	155
6	192	174	182	185	180	182	141	123	129	159	155	156
7	200	192	195	182	180	181	126	122	124	161	150	156
8	202	198	200	185	181	183	130	127	128	149	134	142
9	206	200	203	187	184	186	137	101	124	151	132	141
10	207	202	204	185	183	184	113	104	110	150	145	---
11	203	199	201	187	181	184	105	101	103	---	---	---
12	201	195	198	189	187	188	105	102	104	---	---	---
13	197	192	195	193	190	192	119	104	109	---	---	---
14	195	192	193	198	195	196	123	104	113	---	---	---
15	197	191	193	203	198	200	111	102	107	---	---	---
16	195	191	193	206	199	203	112	108	110	---	---	---
17	192	188	190	200	196	197	111	108	110	---	---	---
18	188	186	187	201	196	198	110	92	106	---	---	---
19	187	184	185	204	202	203	113	104	110	---	---	---
20	188	186	187	204	201	202	138	114	120	---	---	---
21	187	184	186	211	201	205	166	134	154	---	---	---
22	186	183	185	210	208	209	158	121	135	---	---	---
23	186	183	184	207	203	206	143	133	139	160	147	152
24	185	182	184	208	203	205	141	135	139	153	149	151
25	185	181	183	208	206	207	145	136	140	152	147	150
26	189	185	187	205	198	201	151	139	147	152	144	148
27	189	187	188	206	197	201	---	---	---	167	153	160
28	190	186	188	206	190	200	151	148	150	159	154	156
29	201	157	189	186	157	167	154	150	153	163	151	156
30	168	131	148	156	153	154	156	151	153	154	150	152
31	172	155	165	---	---	---	159	151	155	152	147	150
MONTH	207	131	185	211	153	191	166	92	131	---	---	---

DAY	FEBRUARY			MARCH			APRIL			MAY		
	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	157	147	154	172	168	170	161	159	160	160	154	157
2	156	149	153	173	168	170	164	159	161	161	157	159
3	151	145	147	177	170	173	162	158	160	164	162	163
4	153	145	148	178	171	175	171	152	161	163	155	158
5	154	136	149	178	174	176	158	151	155	158	156	157
6	157	133	147	176	169	173	154	149	152	162	160	161
7	167	155	161	179	173	175	151	149	150	162	157	159
8	163	154	157	192	176	180	152	150	151	159	157	159
9	167	156	161	189	180	184	156	143	149	161	160	161
10	165	143	156	182	166	174	143	140	142	164	155	161
11	162	155	159	168	162	165	146	141	144	155	151	153
12	163	144	156	169	165	167	148	143	146	167	140	155
13	170	156	162	165	161	163	153	148	150	154	125	139
14	167	159	165	167	160	163	153	146	148	125	121	122
15	161	157	159	170	165	167	150	133	141	132	125	129
16	161	155	158	182	170	174	138	133	135	133	127	131
17	162	157	160	179	163	173	139	134	137	138	130	135
18	160	154	157	169	161	164	140	137	138	141	135	138
19	187	159	165	166	163	165	141	139	140	143	138	140
20	188	161	175	167	164	166	138	133	135	145	141	143
21	166	154	160	188	156	168	136	131	134	173	143	158
22	186	166	174	170	150	155	137	135	136	179	174	177
23	179	156	164	158	152	155	137	133	135	182	179	181
24	163	153	158	162	156	159	134	131	132	184	180	182
25	173	164	166	159	153	156	149	131	141	182	178	180
26	165	158	161	163	158	160	150	148	149	181	178	180
27	167	157	162	164	159	162	152	150	151	183	181	182
28	172	161	166	165	163	164	154	153	153	186	183	184
29	---	---	---	166	159	162	157	156	156	188	185	186
30	---	---	---	194	166	182	158	156	157	189	188	188
31	---	---	---	184	162	171	---	---	---	190	187	189
MONTH	188	133	159	194	150	168	171	131	147	190	121	160

RARITAN RIVER BASIN

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01397000 SOUTH BRANCH RARITAN RIVER AT STANTON, N. J.--Continued  
SPECIFIC CONDUCTANCE (MICROMHOS AT 25°C), WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	JUNE			JULY			AUGUST			SEPTEMBER		
	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	191	185	187	193	190	191	191	187	188	183	178	180
2	186	180	183	189	183	186	190	185	188	179	165	173
3	182	180	181	184	181	182	195	187	190	171	162	165
4	183	179	181	186	183	185	198	187	194	171	157	163
5	192	190	191	189	184	186	189	183	186	157	155	156
6	195	192	193	190	182	186	187	185	186	157	133	147
7	196	193	194	188	181	185	189	185	187	139	134	137
8	197	195	196	188	181	184	188	181	186	138	135	136
9	198	197	197	187	180	184	186	169	183	146	141	144
10	199	197	198	183	175	180	185	168	177	151	149	150
11	201	197	199	176	173	174	185	180	183	156	154	155
12	199	195	197	173	171	172	180	175	178	161	158	159
13	199	196	198	172	170	171	178	175	176	165	160	163
14	202	198	199	173	169	171	179	175	177	167	161	163
15	203	199	200	169	150	160	179	176	178	165	162	164
16	204	163	189	154	152	153	176	171	173	170	167	169
17	169	146	157	156	155	156	175	172	173	177	174	176
18	171	163	167	159	157	158	172	151	157	182	178	180
19	179	171	175	166	161	164	157	151	153	186	182	184
20	185	179	183	169	168	169	164	156	160	189	185	187
21	189	184	187	171	169	171	167	163	165	191	189	190
22	185	182	184	198	174	185	168	165	166	195	192	194
23	182	177	179	198	189	193	175	167	170	197	192	194
24	177	174	176	198	181	195	180	175	178	196	192	194
25	179	176	---	182	178	179	175	173	174	199	196	198
26	---	---	---	180	178	179	174	171	172	202	198	199
27	---	---	---	182	180	181	175	172	173	204	202	203
28	---	---	---	184	183	184	175	170	172	209	187	206
29	---	---	---	192	183	185	180	176	178	205	175	182
30	---	---	---	186	181	183	184	180	182	183	180	182
31	---	---	---	190	189	189	184	180	182	---	---	---
MONTH	204	146	187	198	150	178	198	151	177	209	133	173

TEMPERATURE (°C) OF WATER, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

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

## RARITAN RIVER BASIN

01397000 SOUTH BRANCH RARITAN RIVER AT STANTON, N. J.--Continued

TEMPERATURE (°C) OF WATER, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	FEBRUARY			MARCH			APRIL			MAY		
	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	4.5	3.0	3.5	6.0	4.5	5.5	7.0	4.5	6.0	19.5	16.0	17.5
2	3.5	1.5	2.5	5.0	4.5	4.5	8.0	6.0	6.5	17.5	13.0	15.5
3	1.5	0.5	1.0	5.5	4.5	5.0	11.0	6.0	8.5	15.0	13.0	13.5
4	1.0	0.0	0.5	8.0	5.5	6.5	13.0	10.5	11.5	15.5	11.0	13.0
5	0.0	0.0	0.0	10.0	8.0	8.5	12.5	10.5	11.5	14.5	10.5	12.5
6	0.5	0.0	0.0	8.5	6.5	8.0	10.5	7.0	8.5	12.5	11.5	12.0
7	1.5	0.0	1.0	11.0	8.0	9.0	10.5	6.0	8.0	13.5	10.0	11.5
8	0.0	0.0	0.0	10.0	7.5	8.5	8.5	7.5	8.0	15.0	9.5	12.5
9	1.0	0.0	0.0	7.5	6.0	6.5	8.0	6.0	7.0	14.5	12.5	13.5
10	1.0	0.0	0.5	7.5	5.0	6.0	8.0	5.0	6.5	15.0	13.0	14.0
11	1.5	0.0	0.5	6.5	4.0	5.0	10.0	5.5	7.5	17.0	12.0	14.5
12	2.5	0.0	1.0	7.0	4.5	5.5	11.5	7.5	9.5	16.0	14.0	15.0
13	3.5	0.0	2.0	5.0	2.0	3.5	12.0	9.5	11.0	14.5	13.0	13.5
14	4.0	2.5	3.0	5.5	1.5	3.5	11.5	10.5	11.0	17.5	12.0	14.5
15	3.0	1.0	2.0	6.5	2.5	4.5	11.5	9.5	11.0	20.0	14.5	17.0
16	2.5	0.0	1.5	7.0	5.5	6.0	13.0	8.5	10.5	21.5	16.5	19.0
17	3.5	1.0	2.5	6.5	4.0	5.5	13.5	9.0	11.0	23.0	17.5	20.0
18	3.0	0.0	1.5	6.0	2.5	4.5	14.5	9.5	12.0	23.0	18.5	20.5
19	4.0	2.0	2.5	8.0	4.5	6.0	12.5	10.5	11.5	22.0	18.0	20.0
20	4.5	3.0	4.0	8.5	5.0	7.0	13.0	8.5	11.0	21.0	16.5	19.0
21	5.0	2.5	4.0	7.0	5.0	6.0	15.0	9.0	12.0	20.5	16.0	18.5
22	7.0	3.5	5.0	6.5	4.0	5.0	15.5	12.5	14.0	22.0	17.0	19.5
23	7.0	3.5	5.0	7.5	4.0	5.5	16.0	13.0	14.5	20.5	19.0	19.5
24	4.5	1.5	3.0	8.0	5.5	7.0	13.0	11.0	12.0	21.5	17.5	19.5
25	4.0	2.5	3.5	6.5	4.0	5.0	14.0	9.5	11.5	19.0	17.5	18.5
26	3.5	1.0	2.0	6.5	3.0	5.0	14.5	10.5	12.5	18.0	16.0	17.0
27	4.0	0.5	2.5	7.5	3.5	5.5	16.0	10.5	13.5	16.0	14.5	15.5
28	5.0	1.5	3.5	8.0	5.5	6.5	17.5	12.0	14.5	18.0	13.5	15.5
29	---	---	---	6.5	3.0	4.5	19.5	14.5	17.0	16.5	15.0	16.0
30	---	---	---	5.0	3.5	4.5	20.5	16.5	18.5	18.5	15.0	16.5
31	---	---	---	5.5	4.5	5.0	---	---	---	17.5	15.5	16.5
MONTH	7.0	0.0	2.0	11.0	1.5	6.0	20.5	4.5	11.0	23.0	9.5	16.0

DAY	JUNE			JULY			AUGUST			SEPTEMBER		
	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	19.0	16.5	17.5	22.5	19.5	21.5	25.5	20.5	23.0	25.0	21.5	23.0
2	17.5	16.0	16.5	24.5	19.0	22.0	24.5	21.5	23.0	23.5	19.5	21.0
3	20.5	14.5	17.5	25.5	21.0	23.5	24.0	21.0	22.5	20.5	19.0	19.5
4	21.5	17.0	19.0	27.5	22.5	25.0	25.5	22.5	24.0	19.0	17.0	18.0
5	23.0	17.5	20.0	25.5	23.0	24.5	25.5	22.5	24.0	19.0	16.0	17.5
6	23.5	18.0	20.5	26.5	22.0	24.0	26.0	21.0	23.5	17.5	16.5	17.0
7	20.0	18.0	19.0	27.5	22.0	24.5	24.0	21.5	22.5	17.0	16.0	16.5
8	19.5	17.5	18.5	28.0	22.5	25.5	24.0	20.5	22.0	19.0	16.0	17.5
9	23.5	17.5	20.0	28.5	23.0	25.5	24.0	21.0	22.5	19.5	17.0	18.5
10	25.5	20.0	22.0	27.5	23.5	25.0	24.0	20.5	22.0	21.0	17.5	19.0
11	25.0	22.0	23.5	24.5	21.0	23.0	24.0	19.0	21.5	20.5	18.5	19.5
12	22.5	19.5	21.0	25.5	19.5	22.5	25.0	19.0	21.5	23.0	19.5	21.0
13	23.5	18.0	20.5	25.5	19.0	22.0	23.5	19.5	21.5	24.0	20.5	22.0
14	23.0	17.5	20.0	26.5	20.5	23.5	26.0	20.5	23.5	23.0	19.5	21.0
15	23.0	18.0	20.0	25.0	22.0	23.5	26.5	20.5	23.5	20.0	17.0	18.5
16	21.5	19.0	20.0	24.5	21.0	22.5	26.5	20.0	23.5	19.5	17.0	18.5
17	23.0	18.0	20.0	23.5	19.0	21.0	24.0	22.0	23.0	19.5	17.0	18.0
18	23.0	18.5	20.5	22.5	19.0	20.5	23.5	19.5	21.5	19.5	17.0	18.5
19	24.0	19.5	21.5	23.5	19.5	21.0	25.0	19.5	22.0	20.0	17.5	18.5
20	24.0	21.0	22.0	22.5	18.5	20.5	25.5	20.0	23.0	20.5	18.5	19.5
21	24.0	20.0	22.0	22.5	18.0	20.0	25.0	21.0	23.0	21.0	19.5	20.0
22	24.0	19.5	21.5	22.0	18.0	20.0	23.5	21.5	22.5	19.5	17.0	18.5
23	20.5	17.5	19.0	21.5	18.5	20.0	24.0	22.0	23.0	17.5	14.5	16.0
24	19.0	17.5	18.0	19.5	18.0	18.5	25.0	22.0	23.5	15.5	13.0	14.0
25	17.0	16.5	---	21.0	18.0	19.0	24.5	21.0	23.0	15.5	13.0	14.0
26	---	---	---	21.0	18.5	20.0	23.0	21.5	22.0	16.5	13.5	15.0
27	---	---	---	23.5	19.5	21.5	24.0	20.5	22.5	18.0	13.5	15.5
28	---	---	---	24.0	20.5	22.0	24.5	22.0	23.0	19.0	15.5	16.5
29	---	---	---	24.5	21.0	22.5	25.5	22.5	24.0	19.0	18.0	18.5
30	---	---	---	24.5	20.5	22.5	25.0	23.0	24.0	18.0	15.5	17.0
31	---	---	---	25.0	21.0	23.0	24.0	22.0	23.0	---	---	---
MONTH	25.5	14.5	20.0	28.5	18.0	22.5	26.5	19.0	23.0	25.0	13.0	18.5

RARITAN RIVER BASIN

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01398500 NORTH BRANCH RARITAN RIVER NEAR FAR HILLS, N. J.

LOCATION.--Lat 40°42'30", long 74°38'11", Somerset County, at bridge on unnamed road 0.2 mi (0.3 km) downstream from gaging station at Ravine Lake Dam.

DRAINAGE AREA.--26.2 mi<sup>2</sup> (67.9 km<sup>2</sup>).

PERIOD OF RECORD.--Chemical analyses: Water years 1963-65, 70-72 (partial-record station), October 1965 to September 1969, October 1972 to September 1974.

REMARKS.--Miscellaneous storm sediment samples collected during water years 1967-73.

WATER QUALITY DATA, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	ELEV. OF LAND SURFACE DATUM (FT. ABOVE MSL)	TEMPERATURE (DEG C)	SPECIFIC CONDUCTANCE (MICRO-MHOS)	PH (UNITS)	DISSOLVED OXYGEN (MG/L)	BIO-CHEMICAL OXYGEN DEMAND 5 DAY (MG/L)	TURBIDITY (JTU)	COLOR (PLATINUM-COBALT UNITS)	TOTAL NITRITE (N) (MG/L)	TOTAL NITRATE (N) (MG/L)
NOV. 28...	1330	82	224	8.7	158	7.8	12.2	1.7	--	--	.02	.97
FEB. 05...	1500	52	224	.5	131	7.4	15.2	.9	--	--	.01	1.1
APR. 17...	1245	E85	224	9.3	141	6.7	11.5	.6	--	--	--	--
MAY 16...	1345	41	224	16.6	112	7.6	10.2	.9	--	--	.04	.60
JUNE 20...	1530	24	224	20.0	145	7.7	9.0	3.2	--	--	--	--
JULY 11...	1530	12	224	25.3	166	9.2	7.6	3.3	--	--	--	--
AUG. 27...	1250	12	224	22.5	157	7.8	9.2	1.1	--	--	--	--
SEP. 17...	1105	14	224	18.9	159	8.5	10.0	2.7	2	3	.01	.37

DATE	TOTAL KjEL-DAHL NITROGEN (N) (MG/L)	AMMONIA NITROGEN (N) (MG/L)	ORGANIC NITROGEN (N) (MG/L)	TOTAL NITROGEN (N) (MG/L)	TOTAL PHOSPHORUS (P) (MG/L)	TOTAL ORTHO PHOSPHORUS (P) (MG/L)	DISSOLVED ORTHO. PHOSPHORUS (P) (MG/L)	TOTAL ORGANIC CARBON (C) (MG/L)	IMMEDIATE COLIFORM (COL. PER 100 ML)	FECAL COLIFORM (COL. PER 100 ML)	STREPTOCOCCI (COLONIES PER 100 ML)	ALKALINITY AS CaCO3 (MG/L)
NOV. 28...	.15	.13	.02	1.1	.09	.07	.08	--	660	65	96	--
FEB. 05...	.13	.12	.01	1.2	.05	.04	.04	3.0	22	0	2	--
APR. 17...	--	--	--	--	--	--	--	--	--	76	64	--
MAY 16...	.28	.13	.15	.92	.06	.04	--	3.5	840	250	104	--
JUNE 20...	--	--	--	--	--	--	--	--	160	120	84	--
JULY 11...	--	--	--	--	--	--	--	--	740	110	3840	--
AUG. 27...	--	--	--	--	--	--	--	--	1600	316	400	--
SEP. 17...	.31	.16	.15	.69	.04	.02	--	4.5	780	85	0	39

## RARITAN RIVER BASIN

01398500 NORTH BRANCH RARITAN RIVER NEAR FAR HILLS, N. J.--Continued

## WATER QUALITY DATA, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DATE	BICARBONATE (HCO <sub>3</sub> ) (MG/L)	CARBON DIOXIDE (CO <sub>2</sub> ) (MG/L)	DIS- SOLVED CHLO- RIDE (CL) (MG/L)	DIS- SOLVED SULFATE (SO <sub>4</sub> ) (MG/L)	TOTAL FLUO- RIDE (F) (MG/L)	DIS- SOLVED SILICA (SiO <sub>2</sub> ) (MG/L)	DIS- SOLVED SOLIDS (RESI- DUE AT 180 C) (MG/L)	DIS- SOLVED SOLIDS (TONS PER AC-FT)	TOTAL IRON (FE) (UG/L)	DIS- SOLVED IRON (FE) (UG/L)	TOTAL MAN- GANESE (MN) (UG/L)	DIS- SOLVED MAN- GANESE (MN) (UG/L)
NOV. 28...	--	--	--	--	--	--	--	--	--	--	--	--
FEB. 05...	--	--	--	--	--	--	--	--	--	--	--	--
APR. 17...	--	--	--	--	--	--	--	--	--	--	--	--
MAY 16...	--	--	--	--	--	--	--	--	--	--	--	--
JUNE 20...	--	--	--	--	--	--	--	--	--	--	--	--
JULY 11...	--	--	--	--	--	--	--	--	--	--	--	--
AUG. 27...	--	--	--	--	--	--	--	--	--	--	--	--
SEP. 17...	47	.2	11	15	.3	13	96	.13	170	120	40	10

DATE	DIS- SOLVED ARSENIC (AS) (UG/L)	DIS- SOLVED BARIUM (BA) (UG/L)	DIS- SOLVED BERYL- LIUM (BE) (UG/L)	DIS- SOLVED BISMUTH (BI) (UG/L)	DIS- SOLVED BORON (B) (UG/L)	DIS- SOLVED CAD- MIUM (CD) (UG/L)	DIS- SOLVED CHRO- MIUM (CR) (UG/L)	DIS- SOLVED COBALT (CO) (UG/L)
SEP. 17...	1	16	0	0	35	<2	0	0

DATE	DIS- SOLVED COPPER (CU) (UG/L)	DIS- SOLVED LEAD (PB) (UG/L)	DIS- SOLVED MOLYB- DENUM (MO) (UG/L)	DIS- SOLVED NICKEL (NI) (UG/L)	DIS- SOLVED SILVER (AG) (UG/L)	DIS- SOLVED STRON- TIUM (SR) (UG/L)	DIS- SOLVED VANA- DIUM (V) (UG/L)	DIS- SOLVED ZINC (ZN) (UG/L)	DIS- SOLVED TIN (SN) (UG/L)
SEP. 17...	2	1	0	1	0	47	.7	2	0

DATE	DIS- SOLVED ALUM- INUM (AL) (UG/L)	DIS- SOLVED GALLIUM (GA) (UG/L)	DIS- SOLVED GER- MANIUM (GE) (UG/L)	DIS- SOLVED LITHIUM (LI) (UG/L)	DIS- SOLVED SELE- NIUM (SE) (UG/L)	DIS- SOLVED TIT- ANIUM (TI) (UG/L)	DIS- SOLVED ZIR- CONIUM (ZR) (UG/L)	DIS- SOLVED MERCURY (HG) (UG/L)
SEP. 17...	20	0	0	0	3	1	<1	<.5

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LOCATION.--Lat 40°34'10", long 74°40'45", Somerset County, at bridge on U.S. Highway 202, 400 ft (122 m) downstream from gaging station, 1.4 mi (2.3 km) upstream from confluence with South Branch, and 2 mi (3.2 km) west of Raritan.

PERIOD OF RECORD.--Chemical analyses: Water years 1963-65, 70-72 (partial-record station), October 1965 to September 1969. October 1972 to September 1974.

REMARKS.--Miscellaneous storm sediment samples collected during water years 1967-73.

DATE	TIME	INSTANTANEOUS DIS-CHARGE (CFS)	ELEV. OF LAND SURFACE DATUM (FT ABOVE MSL)	TEMPERATURE (DEG C)	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)	DISSOLVED OXYGEN (MG/L)	BIO-CHEMICAL OXYGEN DEMAND 5 DAY (MG/L)	TURBIDITY (JTU)	COLOR (PLATINUM-COBALT UNITS)
NOV. 28...	1245	522	50	10.5	192	7.8	11.6	4.8	--	--
FEB. 05...	1300	229	50	.0	180	7.1	16.2	.8	--	--
APR. 17...	1045	640	50	9.3	159	7.8	11.5	1.2	--	--
MAY 16...	1300	386	50	19.6	150	8.2	10.4	1.1	--	--
JUNE 20...	1615	190	50	23.0	170	8.2	10.1	1.2	--	--
JULY 11...	1600	84	50	25.8	219	9.0	10.7	1.3	--	--
AUG. 22...	1045	76	50	22.7	216	8.3	8.0	2.0	5	4
SEP. 17...	1000	115	50	17.2	215	8.2	10.4	1.6	--	--

[illegible]



## RARITAN RIVER BASIN

01400000 NORTH BRANCH RARITAN RIVER NEAR RARITAN, N. J.--Continued

## WATER QUALITY DATA: WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DATE	TOTAL ORGANIC CARBON (C) (MG/L)	IMME- DIATE COLI- FORM (COL. PER 100 ML)	FECAL COLI- FORM (COL. PER 100 ML)	STREP- TOCOCCI (COL- ONIES PER 100 ML)	ALKA- LINITY AS CAC03 (MG/L)	CAR- BONATE (C03) (MG/L)	BICAR- BONATE (HC03) (MG/L)	CARBON DIOXIDE (C02) (MG/L)	DIS- SOLVED CHLO- RIDE (CL) (MG/L)
NOV. 28...	--	4500	1800	2024	--	--	--	--	--
FEB. 05...	3.0	20	4	28	--	--	--	--	--
APR. 17...	--	1160	110	66	--	--	--	--	--
MAY 16...	10	3320	408	100	--	--	--	--	--
JUNE 20...	--	700	200	130	--	--	--	--	--
JULY 11...	--	450	30	180	--	--	--	--	--
AUG. 22...	6.0	760	206	1100	58	0	71	.6	16
SEP. 17...	--	1600	344	120	--	--	--	--	--

DATE	DIS- SOLVED SULFATE (S04) (MG/L)	TOTAL FLUO- RIDE (F) (MG/L)	DIS- SOLVED SILICA (SIO2) (MG/L)	DIS- SOLVED SOLIDS (RESI- DUE AT 180 C) (MG/L)	DIS- SOLVED SOLIDS (TONS PER AC-FT)	TOTAL IRON (FE) (UG/L)	DIS- SOLVED IRON (FE) (UG/L)	TOTAL MAN- GANESE (MN) (UG/L)	DIS- SOLVED MAN- GANESE (MN) (UG/L)
NOV. 28...	--	--	--	--	--	--	--	--	--
FEB. 05...	--	--	--	--	--	--	--	--	--
APR. 17...	--	--	--	--	--	--	--	--	--
MAY 16...	--	--	--	--	--	--	--	--	--
JUNE 20...	--	--	--	--	--	--	--	--	--
JULY 11...	--	--	--	--	--	--	--	--	--
AUG. 22...	21	.0	10	149	.20	300	110	70	57
SEP. 17...	--	--	--	--	--	--	--	--	--

DATE	DIS- SOLVED ARSENIC (AS) (UG/L)	DIS- SOLVED BARIUM (BA) (UG/L)	DIS- SOLVED BERYL- LIUM (BE) (UG/L)	DIS- SOLVED BISMUTH (BI) (UG/L)	DIS- SOLVED BORON (B) (UG/L)	DIS- SOLVED CAD- MIUM (CD) (UG/L)	DIS- SOLVED CHRO- MIUM (CR) (UG/L)	DIS- SOLVED COBALT (CO) (UG/L)
AUG. 22...	0	31	0	<3	58	<2	<2	<2

DATE	DIS- SOLVED COPPER (CU) (UG/L)	DIS- SOLVED LEAD (PB) (UG/L)	DIS- SOLVED MOLYB- DENUM (MO) (UG/L)	DIS- SOLVED NICKEL (NI) (UG/L)	DIS- SOLVED SILVER (AG) (UG/L)	DIS- SOLVED STRON- TIUM (SR) (UG/L)	DIS- SOLVED VANA- DIUM (V) (UG/L)	DIS- SOLVED ZINC (ZN) (UG/L)	DIS- SOLVED TIN (SN) (UG/L)
AUG. 22...	2	<3	0	<2	0	98	<2.0	0	<2

DATE	DIS- SOLVED ALUM- INUM (AL) (UG/L)	DIS- SOLVED GALLIUM (GA) (UG/L)	DIS- SOLVED GER- MANIUM (GE) (UG/L)	DIS- SOLVED LITHIUM (LI) (UG/L)	DIS- SOLVED SELE- NIUM (SE) (UG/L)	DIS- SOLVED TAN- IUM (TI) (UG/L)	DIS- SOLVED ZIR- CONIUM (ZR) (UG/L)	DIS- SOLVED MERCURY (HG) (UG/L)
AUG. 22...	26	<1	<3	1	0	<2	<3	<.5

RARITAN RIVER BASIN

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01400510 RARITAN RIVER NEAR MANVILLE, N. J.

LOCATION.--Lat 40°32'34", long 74°34'03", Somerset County, water-quality recorder 400 ft (122 m) above confluence with Millstone River about 1.4 mi (2.2 km) below gaging station, near Manville.

DRAINAGE AREA.--497 mi<sup>2</sup> (1,287 km<sup>2</sup>).

PERIOD OF RECORD.--Chemical analyses: Water years 1963-65 (partial-record station), January 1966 to September 1973. Water temperatures: November 1967 to January 1968, October 1968 to September 1974.

EXTREMES.--1973-74:

Specific conductance: Maximum, 281 micromhos June 16; minimum, 88 micromhos Dec. 21.

Dissolved oxygen: Maximum, 15.5 mg/l Dec. 4; minimum, 2.5 mg/l Aug. 29.

Water temperatures: Maximum, 28.5°C June 5, 6; minimum, 1.5°C Jan. 23.

pH: Maximum, 9.5 June 15; minimum, 5.8 Dec. 14, Aug. 18.

Period of record:

Specific conductance: Maximum, 364 micromhos Jan. 14, 1968; minimum, 72 micromhos Feb. 3, 1973.

Dissolved oxygen: Maximum, 16.3 mg/l Jan. 13, 1971; minimum, 0.9 mg/l Sept. 18, 1972.

Water temperatures: Maximum, 28.5°C June 5, 6, 1974; minimum, freezing point on many days during winter months.

pH: Maximum, 11.1 July 29, 1970; minimum, 2.9 Feb. 13, 1972.

REMARKS.--Prior to 1966 records collected at gaging station (01400500). Records of discharge are given for 01400500 Raritan River at Manville, N.J. Missing continuous water-quality records are the result of malfunction of sensor or sampling mechanism.

WATER QUALITY DATA, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DATE	TIME	INSTANTANEOUS DIS- CHARGE (CFS)	TEMPER- ATURE (DEG C)	SPE- CIFIC CON- DUCT- ANCE (MICRO- MHOS)	PH (UNITS)	DIS- SOLVED OXYGEN (MG/L)	BIO- CHEM- ICAL OXYGEN DEMAND 5 DAY (MG/L)	TUR- BID- ITY (JTU)	COLOR (PLAT- INUM- COBALT UNITS)	TOTAL NITRITE (N) (MG/L)	TOTAL NITRATE (N) (MG/L)	TOTAL KJEL- DAHL NITRO- GEN (N) (MG/L)
DEC. 04...	1145	354	5.8	228	8.2	24.0	1.9	--	--	.01	1.3	.21
FEB. 05...	1100	E480	.4	196	6.7	10.8	2.2	--	--	.01	1.7	.39
APR. 17...	1115	1381	13.1	168	6.7	11.2	1.1	--	--	--	--	--
MAY 20...	0950	597	20.1	184	7.5	8.3	2.8	--	--	.02	.95	.35
JUNE 20...	1000	396	22.2	195	7.4	7.8	4.5	--	--	--	--	--
JULY 18...	0915	271	24.4	241	8.4	6.8	1.2	--	--	--	--	--
AUG. 20...	1000	E225	22.0	222	8.8	8.4	1.3	--	--	--	--	--
SEP. 11...	1100	583	21.7	219	7.3	10.0	.3	10	2	.01	1.2	.27

DATE	AMMONIA NITRO- GEN (N) (MG/L)	ORGANIC NITRO- GEN (N) (MG/L)	TOTAL NITRO- GEN (N) (MG/L)	TOTAL PHOS- PHORUS (P) (MG/L)	TOTAL ORTHO PHOS- PHORUS (P) (MG/L)	DIS- SOLVED ORTHO PHOS- PHORUS (P) (MG/L)	TOTAL ORGANIC CARBON (C) (MG/L)	IMME- DIATE COLI- FORM (COL. PER 100 ML)	FECAL COLI- FORM (COL. PER 100 ML)	STREP- TOCOCCI (COL- ONIES PER 100 ML)	ALKA- LINITY AS CACO3 (MG/L)	BICAR- BONATE (HCO3) (MG/L)
DEC. 04...	.05	.16	1.5	.07	.04	.05	--	180	56	48	--	--
FEB. 05...	.02	.37	2.1	.05	.02	.02	4.5	258	2	14	--	--
APR. 17...	--	--	--	--	--	--	--	910	66	52	--	--
MAY 20...	.12	.23	1.3	.09	.05	--	6.9	3000	2960	56	--	--
JUNE 20...	--	--	--	--	--	--	--	4600	1100	352	--	--
JULY 18...	--	--	--	--	--	--	--	140	200	550	--	--
AUG. 20...	--	--	--	--	--	--	--	800	590	1120	--	--
SEP. 11...	.09	.18	1.5	.10	.07	--	6.4	5800	400	40	44	54

## RARITAN RIVER BASIN

01400510 RARITAN RIVER NEAR MANVILLE, N. J.--Continued

## WATER QUALITY DATA, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DATE	CARBON DIOXIDE (CO <sub>2</sub> ) (MG/L)	DIS- SOLVED CHLO- RIDE (CL) (MG/L)	DIS- SOLVED SULFATE (SO <sub>4</sub> ) (MG/L)	TOTAL FLUO- RIDE (F) (MG/L)	DIS- SOLVED SILICA (SiO <sub>2</sub> ) (MG/L)	DIS- SOLVED SOLIDS (RESI- DUE AT 180 C) (MG/L)	DIS- SOLVED SOLIDS (TONS PER AC-FT)	TOTAL IRON (FE) (UG/L)	DIS- SOLVED IRON (FE) (UG/L)	TOTAL MAN- GANESE (MN) (UG/L)	DIS- SOLVED MAN- GANESE (MN) (UG/L)
DEC. 04...	--	--	--	--	--	--	--	--	--	--	--
FEB. 05...	--	--	--	--	--	--	--	--	--	--	--
APR. 17...	--	--	--	--	--	--	--	--	--	--	--
MAY 20...	--	--	--	--	--	--	--	--	--	--	--
JUNE 20...	--	--	--	--	--	--	--	--	--	--	--
JULY 18...	--	--	--	--	--	--	--	--	--	--	--
AUG. 20...	--	--	--	--	--	--	--	--	--	--	--
SEP. 11...	4.3	13	27	.1	12	137	.19	750	.56	110	50

DATE	DIS- SOLVED BARIUM (BA) (UG/L)	DIS- SOLVED BERYL- LIUM (BE) (UG/L)	DIS- SOLVED BISMUTH (BI) (UG/L)	DIS- SOLVED BORON (B) (UG/L)	DIS- SOLVED CAD- MIUM (CD) (UG/L)	DIS- SOLVED CHRO- MIUM (CR) (UG/L)	DIS- SOLVED COBALT (CO) (UG/L)	DIS- SOLVED COPPER (CU) (UG/L)	DIS- SOLVED LEAD (PB) (UG/L)	DIS- SOLVED MOLYB- DENUM (MO) (UG/L)	DIS- SOLVED NICKEL (NI) (UG/L)
SEP. 11...	30	0	0	45	<2	0	0	2	0	1	2

DATE	DIS- SOLVED SILVER (AG) (UG/L)	DIS- SOLVED STRON- TIUM (SR) (UG/L)	DIS- SOLVED VANA- DIUM (V) (UG/L)	DIS- SOLVED ZINC (ZN) (UG/L)	DIS- SOLVED TIN (SN) (UG/L)	DIS- SOLVED ALUM- INUM (AL) (UG/L)	DIS- SOLVED GALLIUM (GA) (UG/L)	DIS- SOLVED GER- MANIUM (GE) (UG/L)	DIS- SOLVED LITHIUM (LI) (UG/L)	DIS- SOLVED TI- TANIUM (TI) (UG/L)	DIS- SOLVED ZIR- CONIUM (ZR) (UG/L)
SEP. 11...	0	130	1.0	5	0	45	0	0	3	0	<2

RARITAN RIVER BASIN

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SPECIFIC CONDUCTANCE (MICROMHOS AT 25°C), WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCTOBER			NOVEMBER			DECEMBER			JANUARY		
	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	237	222	229	---	---	---	197	187	191	---	---	---
2	245	234	241	---	---	---	198	193	196	---	---	---
3	268	224	240	---	---	---	206	196	200	---	---	---
4	235	217	221	---	---	---	208	199	204	---	---	---
5	---	---	---	---	---	---	208	176	196	---	---	---
6	---	---	---	---	---	---	174	152	158	---	---	---
7	---	---	---	---	---	---	169	152	160	---	---	---
8	---	---	---	---	---	---	180	172	176	---	---	---
9	---	---	---	---	---	---	187	131	171	---	---	---
10	---	---	---	---	---	---	143	132	136	---	---	---
11	---	---	---	---	---	---	141	130	134	---	---	---
12	---	---	---	---	---	---	164	151	158	---	---	---
13	---	---	---	---	---	---	173	167	169	---	---	---
14	---	---	---	---	---	---	176	131	156	---	---	---
15	---	---	---	---	---	---	136	129	132	---	---	---
16	---	---	---	---	---	---	147	136	142	---	---	---
17	---	---	---	---	---	---	178	144	162	---	---	---
18	---	---	---	---	---	---	174	169	173	---	---	---
19	---	---	---	---	---	---	173	165	168	---	---	---
20	---	---	---	---	---	---	204	166	173	---	---	---
21	---	---	---	241	239	---	203	88	114	---	---	---
22	---	---	---	239	232	236	119	89	102	185	180	---
23	---	---	---	237	230	233	---	---	---	184	167	174
24	---	---	---	238	230	232	---	---	---	178	173	175
25	---	---	---	239	224	230	---	---	---	181	175	178
26	---	---	---	231	225	228	---	---	---	182	178	180
27	---	---	---	242	213	230	---	---	---	182	171	176
28	---	---	---	234	207	219	---	---	---	175	171	172
29	---	---	---	216	196	208	---	---	---	174	170	172
30	---	---	---	195	183	188	---	---	---	177	172	174
31	---	---	---	---	---	---	---	---	---	180	177	179
MONTH	---	---	---	---	---	---	---	---	---	---	---	---

DAY	FEBRUARY			MARCH			APRIL			MAY		
	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	182	178	181	---	---	---	188	180	185	---	---	---
2	---	---	---	---	---	---	189	184	186	---	---	---
3	---	---	---	---	---	---	189	186	---	---	---	---
4	---	---	---	---	---	---	---	---	---	---	---	---
5	---	---	---	---	---	---	---	---	---	---	---	---
6	---	---	---	210	207	208	---	---	---	---	---	---
7	---	---	---	212	203	208	---	---	---	---	---	---
8	251	241	---	222	211	214	---	---	---	---	---	---
9	257	244	252	222	209	216	---	---	---	224	219	---
10	252	244	248	211	183	193	---	---	---	225	183	206
11	251	241	246	196	184	189	---	---	---	181	173	176
12	255	244	249	204	195	199	---	---	---	186	165	181
13	268	256	264	207	200	204	---	---	---	163	135	147
14	265	251	259	210	200	206	---	---	---	163	155	159
15	262	248	255	210	197	202	---	---	---	172	164	168
16	255	247	251	212	192	204	---	---	---	179	171	173
17	256	243	250	183	162	168	---	---	---	---	---	---
18	253	243	248	214	172	194	---	---	---	---	---	---
19	251	243	246	195	188	192	---	---	---	---	---	---
20	254	204	224	196	189	193	---	---	---	---	---	---
21	210	194	203	201	122	181	---	---	---	---	---	---
22	207	194	197	190	120	158	---	---	---	203	194	---
23	---	---	---	192	168	177	---	---	---	216	201	209
24	---	---	---	176	172	174	---	---	---	216	205	211
25	---	---	---	184	177	179	---	---	---	216	203	209
26	---	---	---	191	177	186	---	---	---	216	204	209
27	---	---	---	193	172	178	---	---	---	221	212	216
28	---	---	---	194	175	184	---	---	---	220	214	217
29	---	---	---	203	189	195	---	---	---	222	217	219
30	---	---	---	230	204	216	---	---	---	225	217	221
31	---	---	---	238	180	200	---	---	---	233	222	226
MONTH	---	---	---	238	120	193	---	---	---	---	---	---

01400510 RARITAN RIVER NEAR MANVILLE, N. J.--Continued

SPECIFIC CONDUCTANCE (MICROMHOS AT 25°C), WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

JUNE				JULY			AUGUST			SEPTEMBER		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	237	225	233	---	---	---	247	231	238	209	188	199
2	243	235	238	---	---	---	237	222	234	203	158	181
3	242	224	233	---	---	---	203	126	153	168	133	156
4	225	208	215	---	---	---	205	178	196	170	112	136
5	221	208	212	---	---	---	223	207	213	171	123	149
6	219	213	---	---	---	---	252	224	236	172	154	164
7	---	---	---	---	---	---	251	228	238	181	154	171
8	---	---	---	---	---	---	227	218	222	---	---	---
9	---	---	---	---	---	---	232	212	223	---	---	---
10	---	---	---	---	---	---	222	203	208	---	---	---
11	---	---	---	---	---	---	219	187	207	---	---	---
12	---	---	---	---	---	---	199	188	194	---	---	---
13	255	252	253	---	---	---	214	204	211	238	213	228
14	258	249	253	---	---	---	222	206	210	231	202	215
15	257	250	254	---	---	---	221	210	217	222	204	215
16	281	208	255	---	---	---	224	214	219	228	214	221
17	252	150	184	---	---	---	229	187	217	240	228	235
18	254	141	156	---	---	---	189	156	170	245	231	237
19	180	153	167	---	---	---	185	167	175	251	232	242
20	204	182	192	---	---	---	189	186	188	258	216	232
21	227	204	212	---	---	---	205	196	200	236	215	228
22	222	208	214	---	---	---	210	198	204	241	221	229
23	243	215	231	---	---	---	220	206	213	232	222	226
24	225	209	216	252	224	---	229	218	223	235	225	230
25	224	213	217	227	216	221	236	229	232	236	207	220
26	222	211	217	236	227	233	238	225	233	241	222	230
27	223	216	---	238	233	236	234	225	230	230	219	225
28	243	224	231	243	234	239	227	195	220	244	230	238
29	234	223	227	256	239	244	209	143	192	---	---	---
30	---	---	---	272	241	255	203	172	184	---	---	---
31	---	---	---	245	229	237	209	189	200	---	---	---
MONTH	---	---	---	---	---	---	252	126	210	---	---	---

DISSOLVED OXYGEN (DO), IN MILLIGRAMS PER LITER, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

[illegible]

## RARITAN RIVER BASIN

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DISSOLVED OXYGEN (DO), IN MILLIGRAMS PER LITER, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	FEBRUARY			MARCH			APRIL			MAY		
	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	---	---	---	---	---	---	10.4	9.8	10.1	---	---	---
2	---	---	---	---	---	---	10.2	9.2	9.6	---	---	---
3	---	---	---	---	---	---	9.4	9.0	---	---	---	---
4	---	---	---	---	---	---	---	---	---	---	---	---
5	---	---	---	---	---	---	---	---	---	---	---	---
6	---	---	---	13.1	10.2	---	---	---	---	---	---	---
7	---	---	---	12.9	9.0	10.8	---	---	---	---	---	---
8	---	---	---	10.1	8.0	8.7	---	---	---	---	---	---
9	---	---	---	8.7	8.2	8.4	---	---	---	---	---	---
10	---	---	---	9.0	8.1	8.6	---	---	---	---	---	---
11	---	---	---	9.0	8.0	8.5	---	---	---	---	---	---
12	---	---	---	8.9	7.8	8.5	---	---	---	---	---	---
13	---	---	---	9.0	7.7	8.4	---	---	---	---	---	---
14	---	---	---	9.4	8.2	8.8	---	---	---	---	---	---
15	---	---	---	9.8	8.1	8.8	---	---	---	---	---	---
16	---	---	---	8.9	7.5	7.8	---	---	---	---	---	---
17	---	---	---	9.0	7.6	8.3	---	---	---	---	---	---
18	---	---	---	9.6	9.1	9.3	---	---	---	---	---	---
19	---	---	---	9.5	8.6	9.0	---	---	---	---	---	---
20	---	---	---	9.2	8.2	8.7	---	---	---	---	---	---
21	---	---	---	10.6	8.1	9.2	---	---	---	---	---	---
22	---	---	---	10.9	9.9	10.4	---	---	---	---	---	---
23	---	---	---	11.1	10.1	10.7	---	---	---	---	---	---
24	---	---	---	11.1	10.1	10.5	---	---	---	---	---	---
25	---	---	---	11.6	10.4	11.0	---	---	---	---	---	---
26	---	---	---	11.7	8.7	11.2	---	---	---	---	---	---
27	---	---	---	9.6	7.7	8.5	---	---	---	---	---	---
28	---	---	---	9.5	7.0	8.0	---	---	---	---	---	---
29	---	---	---	9.0	7.0	7.6	---	---	---	---	---	---
30	---	---	---	10.3	8.0	9.3	---	---	---	---	---	---
31	---	---	---	11.2	10.2	10.8	---	---	---	---	---	---
MONTH	---	---	---	13.1	7.0	9.2	---	---	---	---	---	---

DAY	JUNE			JULY			AUGUST			SEPTEMBER		
	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	---	---	---	---	---	---	8.3	5.9	7.3	4.0	3.2	3.7
2	---	---	---	---	---	---	8.1	6.4	7.2	4.3	3.4	4.0
3	---	---	---	---	---	---	6.7	5.4	5.9	6.9	4.3	5.1
4	---	---	---	---	---	---	5.8	5.1	5.4	7.1	5.1	6.0
5	---	---	---	---	---	---	6.3	4.6	5.3	7.9	5.3	7.0
6	---	---	---	---	---	---	6.4	4.6	5.6	8.3	7.2	---
7	---	---	---	---	---	---	5.6	4.6	5.5	---	---	---
8	---	---	---	---	---	---	6.7	5.5	6.1	---	---	---
9	---	---	---	---	---	---	7.2	5.8	6.3	---	---	---
10	---	---	---	---	---	---	6.8	5.7	6.2	---	---	---
11	---	---	---	---	---	---	7.3	5.9	6.4	---	---	---
12	---	---	---	---	---	---	7.7	6.1	6.9	---	---	---
13	6.4	5.2	5.9	---	---	---	7.5	6.1	6.8	8.2	6.4	7.1
14	6.3	4.8	5.6	---	---	---	7.2	5.1	6.1	6.9	5.6	6.1
15	6.7	5.0	5.8	---	---	---	7.5	4.9	6.1	7.8	5.7	6.3
16	6.0	4.5	5.4	---	---	---	7.8	4.7	6.1	8.0	6.2	7.3
17	5.5	4.6	5.0	---	---	---	5.9	4.3	5.0	8.5	6.6	7.6
18	5.5	4.6	5.1	---	---	---	4.6	3.7	4.2	8.2	6.5	7.2
19	6.0	4.8	5.4	---	---	---	5.0	3.9	4.4	8.2	5.8	6.9
20	6.2	4.5	5.4	---	---	---	6.9	4.0	5.5	8.5	6.4	7.3
21	6.5	4.9	5.7	---	---	---	7.9	5.3	6.5	7.8	6.4	7.1
22	5.5	4.2	4.8	---	---	---	7.4	5.4	6.3	7.9	6.4	7.1
23	5.1	4.1	4.6	---	---	---	7.1	4.8	5.9	8.7	6.8	7.8
24	5.5	4.0	5.0	6.1	5.5	5.8	6.4	4.3	5.2	9.0	7.2	8.0
25	5.6	5.0	5.3	7.5	5.9	6.9	5.2	3.5	4.3	8.8	6.7	7.5
26	6.5	5.2	6.0	8.1	7.1	7.6	5.2	3.6	4.5	8.7	4.7	5.5
27	6.9	6.0	6.5	8.2	7.1	7.6	6.1	3.8	4.7	6.4	4.3	5.1
28	7.0	6.5	6.8	8.4	7.2	7.7	5.7	4.1	5.0	6.4	5.1	5.6
29	6.8	6.0	6.5	8.6	6.7	7.8	4.2	2.5	3.2	---	---	---
30	---	---	---	8.0	6.5	6.9	3.6	2.8	3.3	---	---	---
31	---	---	---	8.2	6.8	7.5	3.7	2.8	3.3	---	---	---
MONTH	---	---	---	---	---	---	8.3	2.5	5.5	---	---	---



01400510 RARITAN RIVER NEAR MANVILLE, N. J.--Continued

TEMPERATURE (°C) OF WATER, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

[illegible][illegible]

TEMPERATURE (°C) OF WATER, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	JUNE			JULY			AUGUST			SEPTEMBER		
	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	22.5	19.0	21.0	---	---	---	26.0	23.5	25.0	27.0	24.5	25.5
2	21.0	19.5	20.0	---	---	---	25.5	23.5	25.0	25.0	22.5	24.0
3	24.0	19.0	21.5	---	---	---	24.5	22.5	23.5	22.5	21.0	22.0
4	26.5	20.5	23.0	---	---	---	26.0	23.5	24.5	21.0	19.0	20.0
5	28.5	23.0	25.5	---	---	---	25.5	23.5	24.5	20.0	18.0	19.0
6	28.5	25.0	---	---	---	---	26.0	23.5	24.5	---	---	---
7	---	---	---	---	---	---	24.5	23.0	24.0	---	---	---
8	---	---	---	---	---	---	24.0	22.5	23.0	---	---	---
9	---	---	---	---	---	---	24.0	22.5	23.0	---	---	---
10	---	---	---	---	---	---	23.5	21.5	22.5	---	---	---
11	---	---	---	---	---	---	24.0	21.5	22.5	---	---	---
12	---	---	---	---	---	---	24.0	20.5	22.5	---	---	---
13	22.0	20.0	21.0	---	---	---	23.5	21.5	22.5	23.0	19.0	21.0
14	20.5	18.5	20.0	---	---	---	23.5	21.5	23.0	21.5	18.0	20.0
15	21.0	18.5	20.0	---	---	---	25.0	21.0	22.5	20.0	15.0	18.0
16	22.5	19.5	21.0	---	---	---	25.0	21.5	23.0	20.5	15.5	18.0
17	23.5	18.5	20.0	---	---	---	23.0	22.0	22.5	20.0	16.0	18.0
18	24.0	18.5	20.0	---	---	---	23.5	21.5	22.0	22.0	17.0	19.5
19	22.0	19.0	20.5	---	---	---	25.0	21.0	22.5	22.0	18.5	20.0
20	21.5	19.5	20.5	---	---	---	26.0	21.5	24.0	22.5	17.0	20.0
21	21.5	20.5	21.0	---	---	---	25.5	22.5	24.0	23.5	20.5	21.5
22	21.5	20.0	21.0	---	---	---	24.0	22.5	23.5	22.0	19.5	20.5
23	23.0	19.0	20.0	---	---	---	24.5	22.0	23.5	20.0	18.0	19.5
24	19.0	18.5	19.0	22.5	21.5	---	26.0	22.5	24.5	18.5	17.5	18.0
25	18.5	17.5	18.0	21.5	20.5	21.0	25.5	22.5	24.5	18.0	14.5	16.0
26	18.5	17.0	18.0	22.5	20.5	21.5	24.5	22.5	23.0	17.5	16.5	17.0
27	19.5	17.0	18.5	23.5	21.5	22.0	25.5	22.0	23.5	18.5	15.0	17.0
28	18.0	17.0	17.5	24.0	22.0	23.0	25.5	23.0	24.5	18.5	17.5	18.0
29	19.0	16.5	17.5	25.5	23.0	24.0	26.5	22.5	24.5	---	---	---
30	---	---	---	25.5	23.5	24.5	26.5	24.5	25.0	---	---	---
31	---	---	---	26.0	24.0	25.0	26.0	24.0	25.0	---	---	---
MONTH	---	---	---	---	---	---	26.5	20.5	23.5	---	---	---

pH (UNITS), WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

[illegible]

pH (UNITS), WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

FEBRUARY				MARCH			APRIL			MAY		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	7.0	6.9	6.9	---	---	---	---	---	---	---	---	---
2	---	---	---	---	---	---	---	---	---	---	---	---
3	---	---	---	---	---	---	---	---	---	---	---	---
4	---	---	---	---	---	---	---	---	---	---	---	---
5	---	---	---	---	---	---	---	---	---	---	---	---
6	---	---	---	8.7	8.0	---	---	---	---	---	---	---
7	---	---	---	8.6	7.7	8.2	---	---	---	---	---	---
8	7.3	7.3	---	---	---	---	---	---	---	---	---	---
9	7.5	7.3	7.4	---	---	---	---	---	---	---	---	---
10	7.5	7.3	7.4	---	---	---	---	---	---	---	---	---
11	7.6	7.5	7.5	7.4	7.1	7.2	---	---	---	---	---	---
12	7.7	7.6	7.6	7.8	7.2	7.4	---	---	---	---	---	---
13	7.7	7.6	7.7	7.9	7.6	7.8	---	---	---	---	---	---
14	7.9	7.7	7.8	8.0	7.4	7.7	---	---	---	---	---	---
15	8.0	7.9	7.9	8.1	7.6	7.9	---	---	---	---	---	---
16	8.1	7.9	8.0	---	---	---	---	---	---	---	---	---
17	8.1	8.0	8.1	---	---	---	---	---	---	---	---	---
18	8.3	8.2	8.3	7.2	6.8	7.1	---	---	---	---	---	---
19	8.3	7.9	---	7.2	6.8	7.0	---	---	---	---	---	---
20	7.9	7.7	---	7.4	7.0	7.2	---	---	---	---	---	---
21	---	---	---	---	---	---	---	---	---	---	---	---
22	---	---	---	---	---	---	---	---	---	---	---	---
23	---	---	---	---	---	---	---	---	---	---	---	---
24	---	---	---	---	---	---	---	---	---	---	---	---
25	---	---	---	---	---	---	---	---	---	---	---	---
26	---	---	---	---	---	---	---	---	---	---	---	---
27	---	---	---	---	---	---	---	---	---	---	---	---
28	---	---	---	---	---	---	---	---	---	---	---	---
29	---	---	---	---	---	---	---	---	---	---	---	---
30	---	---	---	---	---	---	---	---	---	---	---	---
31	---	---	---	---	---	---	---	---	---	---	---	---
MONTH	---	---	---	---	---	---	---	---	---	---	---	---

JUNE				JULY			AUGUST			SEPTEMBER		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	---	---	---	---	---	---	---	---	---	---	---	---
2	---	---	---	---	---	---	---	---	---	---	---	---
3	---	---	---	---	---	---	---	---	---	---	---	---
4	---	---	---	---	---	---	---	---	---	---	---	---
5	---	---	---	---	---	---	---	---	---	---	---	---
6	---	---	---	---	---	---	---	---	---	---	---	---
7	---	---	---	---	---	---	8.1	7.3	7.7	---	---	---
8	---	---	---	---	---	---	8.3	7.3	7.8	---	---	---
9	---	---	---	---	---	---	8.2	7.6	7.8	---	---	---
10	---	---	---	---	---	---	8.2	7.2	7.8	---	---	---
11	---	---	---	---	---	---	8.2	7.5	8.0	---	---	---
12	---	---	---	---	---	---	8.2	7.8	8.0	---	---	---
13	8.8	7.8	8.2	---	---	---	8.1	7.9	8.0	8.6	7.2	7.6
14	8.8	7.8	8.4	---	---	---	8.1	7.3	7.7	7.6	7.4	7.5
15	9.5	8.1	8.8	---	---	---	7.7	6.9	7.4	7.8	7.7	7.7
16	9.2	6.3	8.0	---	---	---	7.9	7.1	7.6	8.1	7.9	8.0
17	8.1	6.3	7.6	---	---	---	7.8	6.4	7.2	8.1	8.0	8.1
18	7.8	7.3	7.6	---	---	---	7.2	5.8	6.7	8.1	8.0	8.0
19	7.8	7.3	7.6	---	---	---	7.5	6.8	7.1	8.2	8.0	8.1
20	7.7	7.2	7.6	---	---	---	7.5	7.2	7.4	8.2	8.0	8.1
21	7.8	6.8	7.4	---	---	---	7.6	6.7	7.1	8.2	7.6	---
22	---	---	---	---	---	---	7.4	7.0	7.2	---	---	---
23	---	---	---	---	---	---	7.4	6.0	6.8	---	---	---
24	---	---	---	---	---	---	7.2	6.4	6.9	---	---	---
25	---	---	---	---	---	---	7.2	6.7	7.0	---	---	---
26	---	---	---	---	---	---	7.5	6.8	7.0	---	---	---
27	---	---	---	---	---	---	---	---	---	---	---	---
28	---	---	---	---	---	---	8.1	7.8	---	---	---	---
29	---	---	---	---	---	---	7.7	7.0	7.6	---	---	---
30	---	---	---	---	---	---	7.4	7.3	7.4	---	---	---
31	---	---	---	---	---	---	7.3	7.1	7.2	---	---	---
MONTH	---	---	---	---	---	---	---	---	---	---	---	---

## 105

LOCATION.--Lat 40°19'59", long 74°40'56", Mercer County, at bridge near gaging station on U.S. Highway 206, 1.6 mi (2.6 km) southwest of Princeton, and 4.0 mi (6.4 km) upstream from Lake Carnegie.

PERIOD OF RECORD.--Chemical analyses: Water years 1959-65, 70-72 (partial-record station), October 1966 to September 1968, October 1972 to September 1974.

Water temperatures: October 1956 to September 1962, October 1963 to September 1964, October 1965 to June 1970.  
Sediment records: January 1956 to June 1970.

WATER QUALITY DATA, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	ELEV. OF LAND SURFACE DATUM (FT. ABOVE MSL)	TEMPERATURE (DEG C)	SPECIFIC CONDUCTANCE (MICRO-MHOS)	PH (UNITS)	DISSOLVED OXYGEN (MG/L)	BIO-CHEMICAL OXYGEN DEMAND 5 DAY (MG/L)	TURBIDITY (JTU)	COLOR (PLATINUM-COBALT UNITS)
NOV. 28...	1545	115	62	10.1	208	8.0	10.4	3.5	--	--
FEB. 05...	1010	18	62	.0	185	6.6	14.2	1.5	--	--
APR. 17...	1415	E66	62	15.3	155	8.9	12.8	4.8	--	--
MAY 16...	1515	E44	62	22.8	146	8.3	10.0	3.0	--	--
JUNE 20...	0900	E4.7	62	21.1	243	7.2	6.4	2.4	--	--
JULY 11...	1645	E2.2	62	28.2	238	9.2	10.5	2.2	--	--
AUG. 22...	0930	E6.2	62	22.5	233	7.9	6.6	4.0	3	2
SEP. 17...	0840	E27	62	17.0	209	7.6	9.0	1.7	--	--

[illegible]

## RARITAN RIVER BASIN

01401000 STONY BROOK AT PRINCETON, N. J.--Continued

## WATER QUALITY DATA, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DATE	TOTAL ORGANIC CARBON (C) (MG/L)	IMME- DIATE COLI- FORM (COL. PER 100 ML)	FECAL COLI- FORM (COL. PER 100 ML)	STREP- TOCOCCI (COL- ONIES PER 100 ML)	ALKA- LINITY AS CACO3 (MG/L)	CAR- BONATE (CO3) (MG/L)	BICAR- BONATE (HCO3) (MG/L)	CARBON DIOXIDE (CO2) (MG/L)	DIS- SOLVED CHLO- RIDE (CL) (MG/L)
NOV. 28...	--	146	142	1116	--	--	--	--	--
FEB. 05...	4.5	296	28	16	--	--	--	--	--
APR. 17...	--	360	10	2000	--	--	--	--	--
MAY 16...	23	140	150	80	--	--	--	--	--
JUNE 20...	--	280	148	200	--	--	--	--	--
JULY 11...	--	80	8	90	--	--	--	--	--
AUG. 22...	6.0	400	130	216	51	0	62	1.2	22
SEP. 17...	--	595	250	816	--	--	--	--	--

DATE	DIS- SOLVED SULFATE (SO4) (MG/L)	TOTAL FLUO- RIDE (F) (MG/L)	DIS- SOLVED SILICA (SiO2) (MG/L)	DIS- SOLVED SOLIDS (RESI- DUE AT 180 C) (MG/L)	DIS- SOLVED SOLIDS (TONS PER AC-FT)	TOTAL IRON (FE) (UG/L)	DIS- SOLVED IRON (FE) (UG/L)	TOTAL MAN- GANESE (MN) (UG/L)	DIS- SOLVED MAN- GANESE (MN) (UG/L)
NOV. 28...	--	--	--	--	--	--	--	--	--
FEB. 05...	--	--	--	--	--	--	--	--	--
APR. 17...	--	--	--	--	--	--	--	--	--
MAY 16...	--	--	--	--	--	--	--	--	--
JUNE 20...	--	--	--	--	--	--	--	--	--
JULY 11...	--	--	--	--	--	--	--	--	--
AUG. 22...	25	.1	3.0	155	.21	260	48	70	15
SEP. 17...	--	--	--	--	--	--	--	--	--

DATE	DIS- SOLVED ARSENIC (AS) (UG/L)	DIS- SOLVED BARIUM (BA) (UG/L)	DIS- SOLVED BERYL- LIUM (BE) (UG/L)	DIS- SOLVED BISMUTH (BI) (UG/L)	DIS- SOLVED BORON (B) (UG/L)	DIS- SOLVED CAD- MIUM (CD) (UG/L)	DIS- SOLVED CHRO- MIUM (CR) (UG/L)	DIS- SOLVED COBALT (CO) (UG/L)
AUG. 22...	1	41	0	<3	47	<2	4	<2

DATE	DIS- SOLVED COPPER (CU) (UG/L)	DIS- SOLVED LEAD (PB) (UG/L)	DIS- SOLVED MOLYB- DENUM (MO) (UG/L)	DIS- SOLVED NICKEL (NI) (UG/L)	DIS- SOLVED SILVER (AG) (UG/L)	DIS- SOLVED STRON- TIUM (SR) (UG/L)	DIS- SOLVED VANA- DIUM (V) (UG/L)	DIS- SOLVED ZINC (ZN) (UG/L)	DIS- SOLVED TIN (SN) (UG/L)
AUG. 22...	4	36	1	<2	0	140	<2.0	20	<2

DATE	DIS- SOLVED ALUM- INIUM (AL) (UG/L)	DIS- SOLVED GALLIUM (GA) (UG/L)	DIS- SOLVED GER- MANIUM (GE) (UG/L)	DIS- SOLVED LITHIUM (LI) (UG/L)	DIS- SOLVED SELE- NIUM (SE) (UG/L)	DIS- SOLVED TANIUM (TI) (UG/L)	DIS- SOLVED ZIR- CONIUM (ZR) (UG/L)	DIS- SOLVED MERCURY (HG) (UG/L)
AUG. 22...	35	<1	<3	1	0	<2	<4	2.8

RARITAN RIVER BASIN

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01402900 MILLSTONE RIVER NEAR MANVILLE, N. J.

LOCATION.--Lat 40°32'33", long 74°34'03", Somerset County, at water-quality recorder 200 ft (61 m) above confluence with Raritan River about 6.4 mi (10.2 km) below gaging station, near Manville.

DRAINAGE AREA.--287 mi<sup>2</sup> (743 km<sup>2</sup>).

PERIOD OF RECORD.--Chemical analyses: October 1967 to September 1974.  
Water temperatures: October 1968 to September 1974.

EXTREMES.--1973-74:

Specific conductance: Maximum, 316 micromhos June 26; minimum, 78 micromhos Dec. 21.

Dissolved oxygen: Maximum, 14.5 mg/l Dec. 4; minimum, 2.2 mg/l June 22.

Water temperatures: Maximum, 28.5°C June 5, 6; minimum, freezing point Jan. 22, 23.

pH: Maximum, 9.4 June 15; minimum, 5.5 Dec. 14.

Period of record:

Specific conductance: Maximum, 366 micromhos Jan. 23, 1971; minimum 58 micromhos Feb. 2, 1973.

Dissolved oxygen: Maximum, 15.6 mg/l Jan. 3, 6, 1971; minimum, 1.5 mg/l Aug. 5, 1970.

Water temperatures: Maximum, 30.0°C Aug. 5, 1972; minimum, freezing point on many days during winter months.

pH: Maximum, 11.6 June 26, 1968; minimum, 3.5 Dec. 11, 1971.

REMARKS.--Records of discharge are given for 01402000 Millstone River at Blackwells Mills, N.J. Missing continuous water-quality records are the result of malfunction of sensor or sampling mechanism.

WATER QUALITY DATA, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	TEMPERATURE (DEG C)	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)	DISSOLVED OXYGEN (MG/L)	BIOCHEMICAL OXYGEN DEMAND 5 DAY (MG/L)	TURBIDITY (JTU)	COLOR (PLATINUM-COBALT UNITS)	TOTAL NITRITE (N) (MG/L)	TOTAL NITRATE (N) (MG/L)	TOTAL KJELDAHL NITROGEN (N) (MG/L)
DEC. 04...	1200	158	6.0	222	7.9	11.2	1.8	--	--	.08	2.2	.68
FEB. 05...	1115	215	1.1	182	6.8	12.8	1.3	--	--	.03	2.3	.92
APR. 17...	1125	446	13.2	166	6.4	9.6	2.1	--	--	--	--	--
MAY 20...	1010	179	20.5	171	6.3	5.9	3.7	--	--	.08	1.3	.80
JUNE 20...	1000	78	22.0	274	6.9	5.7	6.0	--	--	--	--	--
JULY 18...	0900	38	24.0	281	8.4	6.4	4.6	--	--	--	--	--
30...	1145	66	23.6	270	--	6.1	11	--	--	.10	1.3	3.0
AUG. 20...	1000	113	24.4	202	9.5	7.4	4.1	--	--	--	--	--
SEP. 11...	0930	330	20.5	168	6.7	9.0	1.6	20	6	.03	1.2	.54

DATE	AMMONIA NITROGEN (N) (MG/L)	ORGANIC NITROGEN (N) (MG/L)	TOTAL NITROGEN (N) (MG/L)	TOTAL PHOSPHORUS (P) (MG/L)	TOTAL ORTHO PHOSPHORUS (P) (MG/L)	DISSOLVED ORTHO PHOSPHORUS (P) (MG/L)	TOTAL ORGANIC CARBON (C) (MG/L)	IMMEDIATE COLIFORM (COL. PER 100 ML)	FECAL COLIFORM (COL. PER 100 ML)	STREPTOCOCCI (COLONIES PER 100 ML)	ALKALINITY AS CaCO3 (MG/L)	BICARBONATE (HCO3) (MG/L)
DEC. 04...	.51	.17	3.0	.25	.21	.21	--	550	80	44	--	--
FEB. 05...	.60	.32	3.2	.24	.17	.17	9.5	300	20	16	--	--
APR. 17...	--	--	--	--	--	--	--	--	146	48	--	--
MAY 20...	.31	.49	2.2	.29	.20	--	--	480	190	140	--	--
JUNE 20...	--	--	--	--	--	--	--	340	250	224	--	--
JULY 18...	--	--	--	--	--	--	--	--	150	640	--	--
30...	1.8	1.2	4.4	.78	.43	--	24	--	--	--	--	--
AUG. 20...	--	--	--	--	--	--	--	1520	376	4250	--	--
SEP. 11...	.37	.17	1.7	.20	.09	--	10	3460	560	750	21	26



## WATER QUALITY DATA, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DATE	CARBON DIOXIDE (CO <sub>2</sub> ) (MG/L)	DIS- SOLVED CHLO- RIDE (CL) (MG/L)	DIS- SOLVED SULFATE (SO <sub>4</sub> ) (MG/L)	TOTAL FLUO- RIDE (F) (MG/L)	DIS- SOLVED SILICA (SiO <sub>2</sub> ) (MG/L)	DIS- SOLVED SOLIDS (RESI- DUE AT 180 C) (MG/L)	DIS- SOLVED SOLIDS (TONS PER AC-FT)	TOTAL IRON (FE) (UG/L)	DIS- SOLVED IRON (FE) (UG/L)	TOTAL MAN- GANESE (MN) (UG/L)	DIS- SOLVED MAN- GANESE (MN) (UG/L)
DEC. 04...	--	--	--	--	--	--	--	--	--	--	--
FEB. 05...	--	--	--	--	--	--	--	--	--	--	--
APR. 17...	--	--	--	--	--	--	--	--	--	--	--
MAY 20...	--	--	--	--	--	--	--	--	--	--	--
JUNE 20...	--	--	--	--	--	--	--	--	--	--	--
JULY 18...	--	--	--	--	--	--	--	--	--	--	--
JULY 30...	--	--	--	--	--	--	--	--	--	--	--
AUG. 20...	--	--	--	--	--	--	--	--	--	--	--
SEP. 11...	8.3	11	25	.2	11	116	.16	1100	150	160	120

DATE	DIS- SOLVED BARIUM (BA) (UG/L)	DIS- SOLVED BERYL- LIUM (BE) (UG/L)	DIS- SOLVED BISMUTH (BI) (UG/L)	DIS- SOLVED BORON (B) (UG/L)	DIS- SOLVED CAD- MIUM (CD) (UG/L)	DIS- SOLVED CHRO- MIUM (CR) (UG/L)	DIS- SOLVED COBALT (CO) (UG/L)	DIS- SOLVED COPPER (CU) (UG/L)	DIS- SOLVED LEAD (PB) (UG/L)	DIS- SOLVED MOLYB- DENUM (MO) (UG/L)	DIS- SOLVED NICKEL (NI) (UG/L)
SEP. 11...	50	0	0	48	<1	0	0	5	3	0	5

DATE	DIS- SOLVED SILVER (AG) (UG/L)	DIS- SOLVED STRON- TIUM (SR) (UG/L)	DIS- SOLVED VANA- DIUM (V) (UG/L)	DIS- SOLVED ZINC (ZN) (UG/L)	DIS- SOLVED TIN (SN) (UG/L)	DIS- SOLVED ALUM- INUM (AL) (UG/L)	DIS- SOLVED GALLIUM (GA) (UG/L)	DIS- SOLVED GER- MANIUM (GE) (UG/L)	DIS- SOLVED LITHIUM (LI) (UG/L)	DIS- SOLVED TITANIUM (TI) (UG/L)	DIS- SOLVED ZIR- CONIUM (ZR) (UG/L)
SEP. 11...	0	100	1.0	9	0	30	0	0	3	2	<1

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01402900 MILLSTONE RIVER NEAR MANVILLE, N. J.--Continued

SPECIFIC CONDUCTANCE (MICROMHOS AT 25°C), WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCTOBER			NOVEMBER			DECEMBER			JANUARY		
	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	277	270	274	---	---	---	211	200	204	---	---	---
2	282	262	273	---	---	---	209	198	206	---	---	---
3	266	248	259	---	---	---	208	200	204	---	---	---
4	270	249	256	---	---	---	210	197	---	---	---	---
5	---	---	---	---	---	---	209	191	203	---	---	---
6	---	---	---	---	---	---	---	---	---	---	---	---
7	---	---	---	---	---	---	197	149	167	---	---	---
8	---	---	---	---	---	---	188	173	181	---	---	---
9	---	---	---	---	---	---	197	191	194	---	---	---
10	---	---	---	---	---	---	200	138	178	---	---	---
11	---	---	---	---	---	---	156	114	130	---	---	---
12	---	---	---	---	---	---	---	---	---	---	---	---
13	---	---	---	---	---	---	144	124	132	---	---	---
14	---	---	---	---	---	---	154	146	149	---	---	---
15	---	---	---	---	---	---	166	156	161	---	---	---
16	---	---	---	---	---	---	165	145	157	---	---	---
17	---	---	---	---	---	---	164	152	159	---	---	---
18	---	---	---	---	---	---	---	---	---	---	---	---
19	---	---	---	---	---	---	178	165	172	---	---	---
20	---	---	---	---	---	---	222	175	198	---	---	---
21	---	---	---	---	---	---	212	191	200	---	---	---
22	---	---	---	---	---	---	191	187	189	---	---	---
23	---	---	---	---	---	---	247	198	207	---	---	---
24	---	---	---	247	244	---	---	---	---	---	---	---
25	---	---	---	247	243	245	173	78	106	---	---	---
26	---	---	---	255	247	250	111	82	103	174	167	---
27	---	---	---	259	253	256	---	---	---	173	159	163
28	---	---	---	281	258	263	---	---	---	162	159	161
29	---	---	---	---	---	---	---	---	---	164	160	162
30	---	---	---	289	259	276	---	---	---	---	---	---
31	---	---	---	258	247	252	---	---	---	169	163	166
MONTH	---	---	---	245	201	225	---	---	---	170	164	167
				209	172	194	---	---	---	168	161	165
				201	193	196	---	---	---	170	166	168
				---	---	---	---	---	---	176	169	172
				---	---	---	---	---	---	184	177	180

DAY	FEBRUARY			MARCH			APRIL			MAY		
	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	190	180	184	---	---	---	140	133	136	---	---	---
2	---	---	---	---	---	---	145	140	143	---	---	---
3	---	---	---	---	---	---	145	142	---	---	---	---
4	---	---	---	---	---	---	---	---	---	---	---	---
5	---	---	---	---	---	---	---	---	---	---	---	---
6	---	---	---	---	---	---	---	---	---	---	---	---
7	---	---	---	202	194	197	---	---	---	---	---	---
8	242	227	---	206	196	201	---	---	---	---	---	---
9	245	229	240	208	199	204	---	---	---	---	---	---
10	228	212	220	206	173	189	---	---	---	220	216	---
11	---	---	---	171	158	162	---	---	---	223	176	207
12	216	212	215	178	164	172	---	---	---	180	172	175
13	215	203	209	184	175	178	---	---	---	189	169	183
14	209	200	205	189	178	182	---	---	---	168	134	150
15	209	196	202	192	175	183	---	---	---	164	159	161
16	206	199	203	190	179	184	---	---	---	168	163	164
17	204	200	202	187	167	182	---	---	---	---	---	---
18	201	196	199	166	129	146	---	---	---	177	163	167
19	202	195	200	163	153	160	---	---	---	---	---	---
20	228	201	207	163	156	160	---	---	---	---	---	---
21	225	192	203	168	159	161	---	---	---	---	---	---
22	---	---	---	---	---	---	---	---	---	---	---	---
23	193	183	188	170	109	149	---	---	---	---	---	---
24	200	185	189	130	100	117	---	---	---	198	191	---
25	---	---	---	130	124	127	---	---	---	221	200	212
26	---	---	---	135	129	132	---	---	---	220	209	215
27	---	---	---	142	134	138	---	---	---	220	207	213
28	---	---	---	---	---	---	---	---	---	---	---	---
29	---	---	---	149	142	144	---	---	---	221	207	212
30	---	---	---	155	146	150	---	---	---	224	214	219
31	---	---	---	160	151	155	---	---	---	222	217	219
MONTH	---	---	---	179	161	165	---	---	---	225	219	222
				187	148	175	---	---	---	232	223	226
				142	116	126	---	---	---	240	229	233
				---	---	---	---	---	---	---	---	---
				208	100	163	---	---	---	---	---	---

SPECIFIC CONDUCTANCE (MICROMHOS AT 25°C), WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	JUNE			JULY			AUGUST			SEPTEMBER		
	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	246	232	239	---	---	---	245	232	238	208	186	203
2	254	243	247	---	---	---	236	152	226	207	159	182
3	251	231	241	---	---	---	224	80	149	166	116	152
4	228	212	218	---	---	---	196	175	184	144	114	126
5	223	211	214	---	---	---	208	192	199	162	134	145
6	220	214	---	---	---	---	211	202	206	166	133	142
7	---	---	---	---	---	---	201	197	198	151	125	137
8	---	---	---	---	---	---	178	168	172	---	---	---
9	---	---	---	---	---	---	174	151	168	---	---	---
10	---	---	---	---	---	---	163	102	131	---	---	---
11	---	---	---	---	---	---	155	144	148	---	---	---
12	---	---	---	---	---	---	157	151	154	---	---	---
13	249	243	---	---	---	---	163	155	161	185	174	179
14	250	242	246	---	---	---	194	161	188	197	178	192
15	257	249	252	---	---	---	207	192	198	208	198	204
16	290	203	254	---	---	---	208	198	203	206	202	203
17	281	208	261	---	---	---	214	184	205	211	204	206
18	281	260	271	---	---	---	197	122	151	217	207	211
19	281	269	275	---	---	---	184	152	169	219	211	216
20	290	271	278	---	---	---	193	185	188	223	194	206
21	297	262	287	---	---	---	205	191	198	212	204	208
22	290	269	278	---	---	---	210	195	205	219	208	213
23	276	263	271	---	---	---	218	211	213	220	209	216
24	284	264	276	289	275	---	225	215	220	220	212	216
25	282	202	250	291	276	283	232	222	227	220	215	217
26	316	233	258	275	250	264	233	228	231	224	217	221
27	271	237	244	261	249	251	236	229	233	228	218	223
28	245	240	243	283	264	277	229	190	221	231	219	225
29	251	238	---	279	270	275	213	141	194	---	---	---
30	---	---	---	270	255	261	198	174	186	---	---	---
31	---	---	---	259	246	252	211	187	205	---	---	---
MONTH	---	---	---	---	---	---	245	80	193	---	---	---

DISSOLVED OXYGEN (DO), IN MILLIGRAMS PER LITER, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

[illegible]

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01402900 MILLSTONE RIVER NEAR MANVILLE, N. J.--Continued

DISSOLVED OXYGEN (DO), IN MILLIGRAMS PER LITER, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	FEBRUARY			MARCH			APRIL			MAY		
	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	---	---	---	---	---	---	11.9	11.2	11.6	---	---	---
2	---	---	---	---	---	---	11.5	11.0	11.2	---	---	---
3	---	---	---	---	---	---	11.3	11.0	---	---	---	---
4	---	---	---	---	---	---	---	---	---	---	---	---
5	---	---	---	---	---	---	---	---	---	---	---	---
6	---	---	---	10.7	9.3	---	---	---	---	---	---	---
7	---	---	---	10.6	8.9	9.6	---	---	---	---	---	---
8	---	---	---	9.0	8.1	8.5	---	---	---	---	---	---
9	---	---	---	9.7	8.2	8.9	---	---	---	---	---	---
10	---	---	---	9.9	9.1	9.5	---	---	---	---	---	---
11	---	---	---	9.4	9.1	9.2	---	---	---	---	---	---
12	---	---	---	9.4	9.0	9.2	---	---	---	---	---	---
13	---	---	---	9.7	9.1	9.4	---	---	---	---	---	---
14	---	---	---	10.2	9.5	9.8	---	---	---	---	---	---
15	---	---	---	10.2	9.3	9.8	---	---	---	---	---	---
16	---	---	---	9.4	8.4	9.0	---	---	---	---	---	---
17	---	---	---	11.0	8.4	9.9	---	---	---	---	---	---
18	---	---	---	11.4	11.0	11.2	---	---	---	---	---	---
19	---	---	---	11.2	10.6	10.9	---	---	---	---	---	---
20	---	---	---	10.9	10.5	10.7	---	---	---	---	---	---
21	---	---	---	10.6	10.2	10.5	---	---	---	---	---	---
22	---	---	---	10.8	10.2	10.5	---	---	---	---	---	---
23	---	---	---	11.2	10.7	10.9	---	---	---	---	---	---
24	---	---	---	11.4	10.9	11.0	---	---	---	---	---	---
25	---	---	---	11.6	11.2	11.4	---	---	---	---	---	---
26	---	---	---	12.0	11.5	11.8	---	---	---	---	---	---
27	---	---	---	11.9	11.3	11.7	---	---	---	---	---	---
28	---	---	---	11.5	10.8	11.3	---	---	---	---	---	---
29	---	---	---	11.3	10.8	11.1	---	---	---	---	---	---
30	---	---	---	11.9	11.5	11.7	---	---	---	---	---	---
31	---	---	---	12.2	11.6	11.9	---	---	---	---	---	---
MONTH	---	---	---	12.2	8.1	10.4	---	---	---	---	---	---

DAY	JUNE			JULY			AUGUST			SEPTEMBER		
	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	---	---	---	---	---	---	11.8	6.2	8.8	4.6	4.0	4.3
2	---	---	---	---	---	---	10.6	6.9	8.7	4.5	3.8	4.3
3	---	---	---	---	---	---	6.7	4.1	5.6	7.2	3.4	5.4
4	---	---	---	---	---	---	7.3	5.5	6.1	7.3	6.7	7.0
5	---	---	---	---	---	---	5.5	4.7	5.2	7.9	6.7	7.3
6	---	---	---	---	---	---	5.3	4.5	5.0	7.9	7.6	7.8
7	---	---	---	---	---	---	6.0	4.0	5.2	---	---	---
8	---	---	---	---	---	---	6.3	5.5	5.9	---	---	---
9	---	---	---	---	---	---	6.4	5.3	5.7	---	---	---
10	---	---	---	---	---	---	7.1	5.5	6.4	---	---	---
11	---	---	---	---	---	---	7.1	6.7	7.0	---	---	---
12	---	---	---	---	---	---	8.0	7.1	7.6	---	---	---
13	7.2	5.4	---	---	---	---	7.9	7.2	7.5	9.7	8.1	8.8
14	10.2	4.5	7.3	---	---	---	7.9	5.8	7.5	9.0	7.5	8.3
15	12.6	5.9	9.3	---	---	---	8.6	6.2	7.3	9.8	7.8	8.7
16	10.6	7.0	8.8	---	---	---	9.3	6.2	7.6	9.4	8.3	8.8
17	10.1	5.8	7.8	---	---	---	7.4	5.2	6.4	9.4	8.4	8.8
18	8.2	4.4	6.3	---	---	---	6.0	4.7	5.6	9.4	8.0	8.6
19	8.3	4.1	6.3	---	---	---	6.3	5.4	5.8	9.2	7.6	8.2
20	7.2	4.5	5.7	---	---	---	5.6	5.3	5.4	8.0	6.3	7.3
21	4.7	2.7	3.5	---	---	---	7.8	5.0	6.3	7.3	5.5	6.3
22	3.6	2.2	2.9	---	---	---	7.2	5.4	6.3	7.7	5.5	6.5
23	3.3	2.4	2.8	---	---	---	6.9	5.0	5.9	7.7	5.9	6.7
24	3.0	2.6	2.8	4.5	3.9	4.2	6.4	4.7	5.5	7.9	6.3	7.0
25	3.5	2.8	3.1	6.4	4.1	5.1	5.7	4.2	4.9	7.8	6.0	7.1
26	3.8	3.3	3.5	6.0	4.0	5.0	5.6	4.2	4.8	6.9	4.3	4.9
27	3.6	3.3	3.5	6.0	4.1	4.9	7.4	4.5	5.8	5.9	4.6	5.2
28	3.9	3.3	3.6	7.5	4.5	5.8	7.1	4.9	5.8	5.5	4.8	5.2
29	4.1	3.1	3.6	10.1	5.0	7.1	5.0	3.3	4.1	---	---	---
30	---	---	---	10.4	5.2	7.9	4.4	3.8	4.2	---	---	---
31	---	---	---	10.6	5.2	7.9	4.5	3.8	4.2	---	---	---
MONTH	---	---	---	---	---	---	11.8	3.3	6.1	---	---	---

01402900 MILLSTONE RIVER NEAR MANVILLE, N. J.--Continued

TEMPERATURE (°C) OF WATER, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	FEBRUARY			MARCH			APRIL			MAY		
	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	---	---	---	---	---	---	---	---	---	---	---	---
2	---	---	---	---	---	---	---	---	---	---	---	---
3	---	---	---	---	---	---	---	---	---	---	---	---
4	---	---	---	---	---	---	---	---	---	---	---	---
5	---	---	---	---	---	---	---	---	---	---	---	---
6	---	---	---	---	---	---	---	---	---	---	---	---
7	---	---	---	---	---	---	---	---	---	---	---	---
8	---	---	---	---	---	---	---	---	---	---	---	---
9	---	---	---	---	---	---	---	---	---	---	---	---
10	---	---	---	---	---	---	---	---	---	16.5 16.0	15.0 15.5	---
11	---	---	---	---	---	---	---	---	---	17.0	14.0	15.5
12	---	---	---	---	---	---	---	---	---	18.5	15.5	17.0
13	---	---	---	---	---	---	---	---	---	16.5	14.0	15.0
14	---	---	---	---	---	---	---	---	---	18.0	14.5	17.5
15	---	---	---	---	---	---	---	---	---	21.5	17.0	19.5
16	---	---	---	---	---	---	---	---	---	21.0	17.0	19.0
17	---	---	---	---	---	---	---	---	---	---	---	---
18	---	---	---	---	---	---	---	---	---	---	---	---
19	---	---	---	---	---	---	---	---	---	---	---	---
20	---	---	---	---	---	---	---	---	---	---	---	---
21	---	---	---	---	---	---	---	---	---	---	---	---
22	---	---	---	---	---	---	---	---	---	---	---	---
23	---	---	---	---	---	---	---	---	---	22.0	20.5	---
24	---	---	---	---	---	---	---	---	---	21.0	20.0	20.5
25	---	---	---	---	---	---	---	---	---	21.5	19.5	20.5
26	---	---	---	---	---	---	---	---	---	20.0	18.0	19.5
27	---	---	---	---	---	---	---	---	---	19.0	17.0	17.5
28	---	---	---	---	---	---	---	---	---	16.5	14.5	15.5
29	---	---	---	---	---	---	---	---	---	17.0	13.5	15.5
30	---	---	---	---	---	---	---	---	---	18.5	15.0	18.5
31	---	---	---	---	---	---	---	---	---	21.0	18.0	19.5
MONTH	---	---	---	---	---	---	---	---	---	21.0	18.5	20.0

01402900 MILLSTONE RIVER NEAR MANVILLE, N. J.--Continued  
TEMPERATURE (°C) OF WATER, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

JUNE				JULY			AUGUST			SEPTEMBER		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	23.0	20.0	21.5	---	---	---	26.0	23.5	25.0	27.0	24.5	26.0
2	22.0	20.5	21.0	---	---	---	25.5	23.5	24.5	26.0	24.0	25.0
3	24.0	20.0	22.0	---	---	---	27.0	21.5	24.0	23.5	21.0	22.5
4	26.5	22.0	24.0	---	---	---	27.5	25.5	26.5	21.0	19.0	19.5
5	28.5	24.0	26.5	---	---	---	26.5	24.5	25.5	19.0	17.5	18.0
6	28.5	26.0	---	---	---	---	26.0	23.5	25.0	18.0	16.0	17.5
7	---	---	---	---	---	---	24.5	23.5	23.5	---	---	---
8	---	---	---	---	---	---	23.5	21.5	22.5	---	---	---
9	---	---	---	---	---	---	23.5	22.0	22.5	---	---	---
10	---	---	---	---	---	---	22.5	19.5	21.5	---	---	---
11	---	---	---	---	---	---	23.5	20.0	22.0	---	---	---
12	---	---	---	---	---	---	23.5	20.0	22.0	---	---	---
13	23.5	22.0	23.0	---	---	---	23.5	21.0	22.0	23.0	19.0	21.0
14	22.5	20.0	21.5	---	---	---	24.0	21.5	23.5	21.5	18.0	20.0
15	22.5	19.5	21.5	---	---	---	25.0	21.0	23.5	20.5	15.5	18.0
16	22.5	21.0	22.0	---	---	---	25.5	22.0	24.0	20.5	16.0	18.5
17	24.0	20.5	22.5	---	---	---	24.5	22.5	23.5	20.0	16.5	18.5
18	24.0	21.0	23.0	---	---	---	24.5	22.0	22.5	22.5	17.5	20.0
19	24.5	21.0	23.0	---	---	---	25.0	22.0	23.0	22.5	18.5	20.5
20	24.5	22.0	23.5	---	---	---	26.0	23.0	24.0	22.5	17.0	20.0
21	24.0	22.5	23.5	---	---	---	25.5	22.0	23.5	23.0	21.5	22.0
22	26.0	22.0	24.0	---	---	---	24.0	22.5	23.5	22.5	20.0	21.0
23	25.0	21.0	22.5	---	---	---	25.0	23.0	24.0	20.5	17.5	19.5
24	21.5	20.0	21.0	22.0	20.5	---	27.0	23.0	24.5	17.5	15.5	17.0
25	20.5	18.0	19.5	22.0	20.0	21.0	27.0	23.0	25.0	17.0	14.5	15.5
26	19.0	17.5	18.0	22.0	20.0	21.0	25.0	23.0	24.0	17.0	13.5	15.0
27	19.5	17.5	18.5	23.0	21.0	22.0	25.5	22.5	24.0	18.0	14.0	16.0
28	18.0	17.0	17.5	24.0	22.0	23.0	25.5	24.0	24.5	18.5	16.0	17.0
29	20.0	17.0	18.5	25.5	23.0	24.0	26.5	22.5	25.0	---	---	---
30	---	---	---	26.0	23.5	25.0	26.5	25.0	25.5	---	---	---
31	---	---	---	26.5	24.0	25.0	26.0	24.5	25.0	---	---	---
MONTH	---	---	---	---	---	---	27.5	19.5	24.0	---	---	---

## pH (UNITS), WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

[illegible]



## RARITAN RIVER BASIN

01402900 MILLSTONE RIVER NEAR MANVILLE, N. J.--Continued

pH (UNITS), WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

[illegible][illegible]

RARITAN RIVER BASIN

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01404100 RARITAN RIVER NEAR SOUTH BOUND BROOK, N. J.

LOCATION.--Lat 40°30'47", long 74°32'24", Somerset County, water-quality recorder 0.1 mi (0.2 km) above Fieldville Dam and 0.3 mi (0.5 km) above south crossing of Interstate Highway 287, 1.5 mi (2.4 km) southeast of South Bound Brook.

DRAINAGE AREA.--862 mi<sup>2</sup> (2,232 km<sup>2</sup>).

PERIOD OF RECORD.--Chemical analyses: May 1969 to September 1974.  
Water temperatures: May 1969 to September 1974.

EXTREMES.--1973-74:

Specific conductance: Maximum, 1,290 micromhos June 15; minimum, 93 micromhos Mar. 22.

Dissolved oxygen: Maximum, 14.3 mg/l Mar. 31; minimum, 1.7 mg/l July 5.

Water temperatures: Maximum, 32.0°C July 9; minimum, 2.5°C Mar. 25.

pH: Maximum, 10.8 Apr. 14; minimum, 4.8 Apr. 2.

Period of record:

Specific conductance: Maximum, 1,570 micromhos Oct. 20, 1970; minimum, 45 micromhos Mar. 3, 1972.

Dissolved oxygen: Maximum, 15.1 mg/l Feb. 16, 1973; minimum, 0.0 mg/l Oct. 5, 1971.

Water temperatures: Maximum, 32.0°C July 9, 1974; minimum, freezing point on several days during winter months.

pH: Maximum, 12.4 Nov. 12, 1969; minimum, 3.4 Nov. 18, 1972.

REMARKS.--Records of discharge are given for 01403060 Raritan River below Calco Dam, at Bound Brook, N.J. Missing continuous water-quality records are the result of malfunction of sensor or sampling mechanism.

WATER QUALITY DATA, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DATE	TIME	TEMPER- ATURE (DEG C)	SPE- CIFIC CON- DUCT- ANCE (MICRO- MHOS)	PH (UNITS)	DIS- SOLVED OXYGEN (MG/L)	BIO- CHEM- ICAL OXYGEN DEMAND 5 DAY (MG/L)	TUR- BID- ITY (JTU)	COLOR (PLAT- INUM- COBALT UNITS)	TOTAL NITRITE (N) (MG/L)	TOTAL NITRATE (N) (MG/L)	TOTAL KJEL- DAHL NITRO- GEN (N) (MG/L)	AMMONIA NITRO- GEN (N) (MG/L)
DEC. 04...	1225	6.2	448	7.5	10.8	4.7	--	--	.06	1.8	2.8	2.6
FEB. 05...	1410	1.1	311	6.6	13.0	5.8	--	--	.04	2.0	1.9	1.6
APR. 17...	1045	13.7	202	6.3	10.0	2.3	--	--	--	--	--	--
MAY 20...	1050	20.5	280	6.2	6.0	6.6	--	--	.06	1.0	2.3	1.3
JUNE 20...	1045	22.8	604	7.2	6.3	5.9	--	--	--	--	--	--
JULY 25...	0930	20.5	590	6.9	6.2	11	--	--	--	--	--	--
AUG. 20...	1100	--	543	7.8	6.6	9.4	--	--	--	--	--	--
SEP. 11...	1200	21.7	260	6.5	8.6	4.4	50	10	.07	1.1	1.9	1.4

DATE	ORGANIC NITRO- GEN (N) (MG/L)	TOTAL NITRO- GEN (N) (MG/L)	TOTAL PHOS- PHORUS (P) (MG/L)	TOTAL ORTHO PHOS- PHORUS (P) (MG/L)	DIS- SOLVED ORTHO. PHOS- PHORUS (P) (MG/L)	TOTAL ORGANIC CARBON (C) (MG/L)	IMME- DIATE COLI- FORM (COL. PER 100 ML)	FECAL COLI- FORM (COL. PER 100 ML)	STREP- TOCOCCI (COL- ONIES PER 100 ML)	ALKA- LINITY AS CAC03 (MG/L)	BICAR- BONATE (HC03) (MG/L)
DEC. 04...	.20	4.7	.40	.22	.22	--	--	136	192	--	--
FEB. 05...	.30	3.9	.20	.09	.09	9.5	252	16	14	--	--
APR. 17...	--	--	--	--	--	--	1060	166	76	--	--
MAY 20...	1.0	3.4	.18	.10	--	7.1	1120	280	312	--	--
JUNE 20...	--	--	--	--	--	--	450	1210	380	--	--
JULY 25...	--	--	--	--	--	--	2880	--	1520	--	--
AUG. 20...	--	--	--	--	--	--	5667	6100	3060	--	--
SEP. 11...	.50	3.1	.32	.10	--	5.4	8300	300	220	20	24

## RARITAN RIVER BASIN

01404100 RARITAN RIVER NEAR SOUTH BOUND BROOK, N. J.--Continued

## WATER QUALITY DATA, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DATE	CARBON DIOXIDE (CO2) (MG/L)	DIS- SOLVED CHLO- RIDE (CL) (MG/L)	DIS- SOLVED SULFATE (SO4) (MG/L)	TOTAL FLUO- RIDE (F) (MG/L)	DIS- SOLVED SILICA (SIO2) (MG/L)	DIS- SOLVED SOLIDS (RESI- DUE AT 180 C) (MG/L)	DIS- SOLVED SOLIDS (TONS PER AC-FT)	TOTAL IRON (FE) (UG/L)	DIS- SOLVED IRON (FE) (UG/L)	TOTAL MAN- GANESE (MN) (UG/L)	DIS- SOLVED MAN- GANESE (MN) (UG/L)
DEC. 04...	--	--	--	--	--	--	--	--	--	--	--
FEB. 05...	--	--	--	--	--	--	--	--	--	--	--
APR. 17...	--	--	--	--	--	--	--	--	--	--	--
MAY 20...	--	--	--	--	--	--	--	--	--	--	--
JUNE 20...	--	--	--	--	--	--	--	--	--	--	--
JULY 25...	--	--	--	--	--	--	--	--	--	--	--
AUG. 20...	--	--	--	--	--	--	--	--	--	--	--
SEP. 11...	12	24	47	.3	11	175	.24	3000	170	280	180
DATE	DIS- SOLVED BARIUM (BA) (UG/L)	DIS- SOLVED BERYL- LIUM (BE) (UG/L)	DIS- SOLVED BISMUTH (BI) (UG/L)	DIS- SOLVED BORON (B) (UG/L)	DIS- SOLVED CAD- MIUM (CD) (UG/L)	DIS- SOLVED CHRO- MIUM (CR) (UG/L)	DIS- SOLVED COBALT (CO) (UG/L)	DIS- SOLVED COPPER (CU) (UG/L)	DIS- SOLVED LEAD (PB) (UG/L)	DIS- SOLVED MOLYB- DENUM (MO) (UG/L)	DIS- SOLVED NICKEL (NI) (UG/L)
SEP. 11...	46	0	0	58	<2	2	0	4	<1	1	5
DATE	DIS- SOLVED SILVER (AG) (UG/L)	DIS- SOLVED STRON- TIUM (SR) (UG/L)	DIS- SOLVED VANA- DIUM (V) (UG/L)	DIS- SOLVED ZINC (ZN) (UG/L)	DIS- SOLVED TIN (SN) (UG/L)	DIS- SOLVED ALUM- INUM (AL) (UG/L)	DIS- SOLVED GALLIUM (GA) (UG/L)	DIS- SOLVED GER- MANIUM (GE) (UG/L)	DIS- SOLVED LITHIUM (LI) (UG/L)	DIS- SOLVED TANIUM (TI) (UG/L)	DIS- SOLVED ZIR- CONIUM (ZR) (UG/L)
SEP. 11...	0	130	1.0	7	<1	45	0	<1	3	1	<2

## RARITAN RIVER BASIN

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01404100 RARITAN RIVER NEAR SOUTH BOUND BROOK, N. J.--Continued

SPECIFIC CONDUCTANCE (MICROMHOS AT 25°C), WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	FEBRUARY			MARCH			APRIL			MAY		
	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	---	---	---	243	201	232	139	129	131	330	232	289
2	---	---	---	247	235	242	172	138	171	385	303	332
3	---	---	---	258	252	255	180	172	176	405	341	371
4	---	---	---	289	267	275	182	148	165	354	250	294
5	---	---	---	308	200	275	162	146	153	356	284	309
6	---	---	---	267	239	253	164	142	151	411	315	358
7	---	---	---	270	250	259	174	166	170	391	281	370
8	354	346	---	271	251	262	192	170	179	348	286	321
9	393	339	361	255	191	218	192	120	147	407	275	345
10	403	335	360	194	166	173	148	132	143	391	193	269
11	354	320	333	193	169	182	158	138	151	218	184	198
12	412	322	369	204	188	199	168	154	162	252	204	235
13	377	335	355	231	207	220	178	144	164	---	---	---
14	346	314	332	236	226	230	154	138	143	---	---	---
15	342	320	333	235	217	225	836	130	529	252	230	245
16	343	325	334	236	180	223	1140	858	989	296	252	---
17	322	304	310	166	132	143	1180	1070	---	332	294	310
18	350	302	321	181	151	168	---	---	---	328	284	307
19	343	309	323	184	172	180	---	---	---	---	---	---
20	301	235	254	207	181	190	---	---	---	---	---	---
21	240	218	228	212	96	171	---	---	---	---	---	---
22	240	210	228	127	93	113	---	---	---	---	---	---
23	216	194	204	142	128	134	---	---	---	530	456	481
24	220	212	216	152	142	145	---	---	---	534	388	473
25	244	220	226	173	151	160	---	---	---	444	374	400
26	---	---	---	188	174	182	---	---	---	456	334	391
27	---	---	---	193	179	185	303	271	---	462	316	389
28	238	220	231	210	182	195	306	246	279	432	366	389
29	---	---	---	210	182	195	334	260	281	452	384	415
30	---	---	---	235	213	223	333	251	284	480	401	425
31	---	---	---	242	162	215	295	265	278	556	456	500
MONTH	---	---	---	152	120	131	---	---	---	564	472	506
MONTH	---	---	---	308	93	202	---	---	---	564	184	356

DAY	JUNE			JULY			AUGUST			SEPTEMBER		
	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	577	437	533	494	388	513	936	684	819	454	356	397
2	428	372	392	421	359	397	1120	733	985	454	190	280
3	404	350	382	519	411	451	411	115	156	210	134	189
4	---	---	---	618	464	557	294	158	219	154	128	137
5	---	---	---	696	590	623	301	231	282	196	156	175
6	702	630	662	697	483	567	455	311	366	252	198	226
7	---	---	---	531	453	504	566	464	521	252	160	198
8	---	---	---	700	526	587	643	553	615	---	---	---
9	---	---	---	832	656	739	750	418	680	---	---	---
10	---	---	---	805	677	748	405	257	306	---	---	---
11	---	---	---	895	651	766	455	327	356	---	---	---
12	---	---	---	866	706	799	538	456	498	---	---	---
13	1020	842	---	876	650	770	643	581	605	440	286	---
14	1140	904	1020	932	668	771	666	580	632	330	254	---
15	1290	874	1060	924	718	807	710	634	663	329	267	279
16	1080	706	954	1080	708	834	799	699	738	433	315	351
17	776	162	252	1100	852	969	797	361	700	473	375	402
18	444	218	315	1120	830	979	401	365	390	533	417	463
19	576	400	467	1010	818	908	448	402	423	534	420	462
20	640	566	604	994	730	836	612	460	523	634	450	518
21	718	502	644	900	620	774	806	552	695	580	476	509
22	558	406	460	844	654	742	844	676	762	606	414	487
23	522	380	465	800	632	727	726	410	598	538	398	441
24	394	348	370	1000	598	800	540	370	434	690	504	565
25	410	366	389	639	467	544	604	552	575	768	588	682
26	444	384	410	772	638	704	594	540	566	718	606	---
27	526	422	454	765	559	687	670	574	629	---	---	---
28	612	498	531	775	629	722	694	596	675	---	---	---
29	574	464	514	742	558	660	482	260	305	---	---	---
30	490	430	458	936	477	704	328	242	292	256	220	---
31	---	---	---	690	582	623	372	326	347	---	---	---
MONTH	---	---	---	1120	359	704	1120	115	528	---	---	---

## RARITAN RIVER BASIN

01404100 RARITAN RIVER NEAR SOUTH BOUND BROOK, N. J.--Continued

DISSOLVED OXYGEN (DO), IN MILLIGRAMS PER LITER, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	FEBRUARY			MARCH			APRIL			MAY		
	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	---	---	---	---	---	---	14.1	13.8	14.0	8.8	6.3	7.6
2	---	---	---	---	---	---	13.8	8.6	12.0	7.7	5.0	6.3
3	---	---	---	---	---	---	12.1	11.4	11.8	10.9	5.2	8.5
4	---	---	---	---	---	---	11.3	9.8	10.5	11.7	9.4	10.5
5	---	---	---	12.1	11.4	3.9	9.9	9.3	9.6	11.3	9.8	10.6
6	---	---	---	12.4	10.3	11.2	10.3	9.6	9.9	10.7	9.1	9.7
7	---	---	---	11.9	10.0	10.8	10.6	10.2	10.4	10.0	8.7	9.3
8	---	---	---	10.5	8.4	9.0	10.0	8.9	9.4	10.3	9.1	9.6
9	---	---	---	8.4	8.0	8.2	10.6	8.8	9.7	9.8	7.9	8.8
10	---	---	---	8.3	7.3	7.9	---	---	---	8.6	7.1	7.6
11	---	---	---	10.6	9.7	10.2	---	---	---	8.2	7.3	7.7
12	---	---	---	10.5	9.7	10.1	---	---	---	7.7	6.8	7.1
13	---	---	---	10.4	9.4	9.8	---	---	---	---	---	---
14	---	---	---	10.1	9.4	9.8	---	---	---	---	---	---
15	---	---	---	9.5	8.9	9.2	---	---	---	8.0	6.8	7.6
16	---	---	---	8.8	7.3	8.0	---	---	---	6.8	5.7	6.3
17	---	---	---	11.6	7.0	10.1	---	---	---	5.6	4.4	4.8
18	---	---	---	12.4	11.1	11.9	---	---	---	4.4	3.6	4.2
19	---	---	---	12.1	11.5	11.8	---	---	---	---	---	---
20	---	---	---	12.4	11.8	12.0	---	---	---	---	---	---
21	---	---	---	12.4	11.4	11.7	---	---	---	---	---	---
22	---	---	---	---	---	---	---	---	---	5.3	3.9	4.6
23	---	---	---	---	---	---	---	---	---	3.9	2.0	2.7
24	---	---	---	---	---	---	---	---	---	3.7	2.6	3.2
25	---	---	---	---	---	---	---	---	---	4.2	3.0	3.6
26	---	---	---	---	---	---	11.9	10.2	---	4.4	3.0	3.6
27	---	---	---	13.1	12.7	12.9	12.8	10.2	11.4	6.5	3.6	4.9
28	---	---	---	13.1	12.6	12.8	12.4	9.4	10.6	7.3	5.8	6.6
29	---	---	---	13.0	12.2	12.5	9.2	6.6	7.8	7.3	6.0	6.6
30	---	---	---	14.0	13.0	13.4	13.0	7.5	8.9	7.2	5.6	6.4
31	---	---	---	14.3	14.0	14.2	---	---	---	7.2	6.0	6.6
MONTH	---	---	---	---	---	---	---	---	---	11.7	2.0	6.7

DAY	JUNE			JULY			AUGUST			SEPTEMBER		
	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	6.6	5.9	6.2	7.3	4.5	5.5	8.6	6.0	7.4	3.9	2.9	3.3
2	6.6	5.5	6.1	7.2	5.0	5.8	7.7	4.0	6.0	5.0	2.9	3.7
3	7.3	6.0	6.5	5.9	4.1	4.7	6.8	2.7	4.2	6.7	3.5	4.7
4	---	---	---	4.4	2.8	3.4	6.7	3.8	5.2	7.9	6.6	7.3
5	---	---	---	3.2	1.7	2.0	5.3	3.6	4.5	8.2	7.0	7.5
6	7.7	5.4	6.8	3.7	2.2	2.7	5.1	2.7	3.7	7.9	7.0	7.5
7	6.7	5.1	5.5	4.0	2.6	3.2	6.3	4.4	5.3	9.7	8.0	8.9
8	---	---	---	4.3	3.2	3.7	6.6	5.6	6.0	---	---	---
9	---	---	---	4.1	3.0	3.7	6.1	4.9	5.4	---	---	---
10	---	---	---	4.6	3.7	4.1	5.9	4.7	5.3	---	---	---
11	---	---	---	5.4	4.0	4.4	7.1	4.8	5.7	---	---	---
12	---	---	---	6.4	4.7	5.4	6.3	4.9	5.8	---	---	---
13	---	---	---	7.2	4.2	5.8	5.5	3.2	4.2	11.2	9.0	---
14	6.9	4.2	5.3	7.4	3.8	5.6	6.2	3.0	4.3	10.5	9.5	---
15	7.6	4.3	5.8	7.1	3.8	5.7	6.1	3.9	4.9	10.4	9.5	---
16	8.3	4.5	6.2	6.0	3.8	4.8	4.7	2.6	3.7	9.6	8.7	9.3
17	8.1	6.3	7.5	5.7	4.1	4.6	4.8	2.6	3.6	8.8	7.6	8.3
18	7.6	6.6	7.1	4.6	4.0	4.2	3.7	2.5	2.9	7.7	7.0	7.2
19	8.6	5.9	7.0	4.9	3.2	4.0	4.1	2.5	3.2	7.2	6.3	6.8
20	8.5	6.1	7.3	7.0	5.0	5.8	10.8	3.1	6.0	7.4	6.2	6.7
21	7.8	5.3	6.4	7.0	5.3	6.1	11.3	7.1	8.8	7.1	5.1	5.7
22	5.2	2.7	4.0	6.9	5.6	6.2	9.8	7.1	8.2	7.0	5.5	6.1
23	3.7	2.3	3.0	6.8	5.4	5.9	8.3	6.8	7.2	6.7	5.7	6.3
24	4.6	3.7	4.2	6.3	5.1	5.8	6.6	4.6	5.5	7.6	6.6	7.0
25	5.3	4.0	4.7	7.9	5.9	6.8	5.6	3.1	4.3	7.9	7.1	7.4
26	6.9	5.3	6.0	7.8	6.6	7.2	6.2	3.4	4.5	7.7	7.1	---
27	6.9	6.0	6.4	7.6	5.8	6.7	---	---	---	---	---	---
28	6.7	5.9	6.2	7.2	5.3	6.3	---	---	---	---	---	---
29	6.2	5.2	5.6	8.8	5.4	7.0	5.5	2.5	3.7	---	---	---
30	6.1	4.8	5.4	10.4	7.1	7.5	3.2	2.5	2.8	8.3	7.9	---
31	---	---	---	9.8	6.5	8.0	3.6	2.2	3.0	---	---	---
MONTH	---	---	---	10.4	1.7	5.2	11.3	2.2	5.0	---	---	---

## RARITAN RIVER BASIN

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01404100 RARITAN RIVER NEAR SOUTH BOUND BROOK, N. J.--Continued  
 TEMPERATURE (°C) OF WATER, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1973

DAY	FEBRUARY			MARCH			APRIL			MAY		
	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	---	---	---	6.5	4.5	5.5	6.5	4.5	5.5	22.0	19.5	21.0
2	---	---	---	5.5	5.0	5.0	7.5	6.5	7.5	19.5	16.0	17.5
3	---	---	---	5.0	4.5	5.0	11.0	7.5	9.0	18.0	15.5	16.5
4	---	---	---	7.5	5.0	6.0	14.5	11.0	13.0	17.0	14.0	15.5
5	---	---	---	9.5	8.5	9.0	15.0	14.5	15.0	16.5	14.0	15.0
6	---	---	---	9.5	8.0	9.0	14.5	10.5	12.5	15.5	14.0	14.5
7	---	---	---	11.5	9.0	10.0	11.5	9.5	10.5	15.5	13.0	14.0
8	---	---	---	11.0	9.5	10.0	12.0	10.5	11.5	16.0	12.5	14.5
9	---	---	---	9.5	7.0	8.0	10.5	7.0	8.5	16.5	13.5	15.0
10	---	---	---	7.5	6.0	7.0	8.0	7.0	7.5	15.5	14.5	15.0
11	---	---	---	7.5	6.5	7.0	10.5	8.0	9.0	17.0	14.0	15.5
12	---	---	---	8.0	6.0	7.0	14.0	10.0	12.0	17.5	15.5	16.5
13	---	---	---	6.5	5.0	5.5	15.0	14.0	14.5	---	---	---
14	---	---	---	6.0	3.5	4.5	15.0	13.5	14.0	---	---	---
15	---	---	---	7.0	4.0	5.5	14.0	13.5	14.0	20.5	17.5	19.5
16	---	---	---	7.5	6.0	7.0	15.0	12.5	13.5	22.5	19.0	21.0
17	---	---	---	7.5	5.5	6.5	15.0	14.0	---	24.5	20.5	22.5
18	---	---	---	6.5	5.0	5.5	---	---	---	24.5	22.0	23.5
19	---	---	---	8.0	6.0	7.0	---	---	---	24.0	21.5	22.5
20	---	---	---	9.5	7.0	8.0	---	---	---	23.5	19.5	21.5
21	---	---	---	8.0	5.5	7.0	---	---	---	23.0	18.5	21.0
22	---	---	---	9.0	4.0	6.0	---	---	---	24.5	19.5	22.0
23	---	---	---	12.0	5.0	8.0	---	---	---	23.5	22.0	22.5
24	---	---	---	11.0	8.5	10.0	---	---	---	23.5	21.0	22.0
25	---	---	---	8.0	2.5	5.5	---	---	---	22.5	20.5	21.5
26	---	---	---	7.0	3.0	5.5	15.0	14.0	---	21.0	19.0	20.0
27	---	---	---	8.0	6.0	7.0	17.0	12.5	14.5	19.5	17.5	18.0
28	5.0	2.5	3.5	9.0	7.5	8.0	18.5	14.0	16.0	20.0	16.5	18.0
29	---	---	---	8.0	5.0	7.0	21.0	16.5	18.5	19.0	17.5	18.0
30	---	---	---	8.0	3.5	5.0	22.5	19.0	20.5	20.5	18.0	19.0
31	---	---	---	4.5	3.0	4.0	---	---	---	20.0	18.0	19.0
MONTH	---	---	---	12.0	2.5	7.0	---	---	---	24.5	12.5	18.5

DAY	JUNE			JULY			AUGUST			SEPTEMBER		
	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	21.0	18.5	19.5	25.5	21.5	23.0	28.5	24.5	26.5	28.0	24.5	26.0
2	19.5	17.5	18.5	27.5	22.5	25.0	28.0	24.5	26.5	27.0	23.5	25.0
3	21.5	16.5	18.5	28.0	24.5	26.0	25.5	23.0	24.5	23.5	22.0	23.0
4	---	---	---	31.5	26.5	28.5	27.5	25.0	26.0	22.0	19.5	20.5
5	---	---	---	30.5	28.0	29.0	27.0	24.0	25.5	20.0	19.0	19.5
6	26.0	22.0	24.5	30.0	26.5	28.5	26.5	23.0	25.0	19.0	18.5	19.0
7	24.0	20.5	21.5	30.5	26.0	28.5	26.0	23.5	24.5	18.0	17.0	17.5
8	---	---	---	31.5	27.0	29.5	25.0	22.0	23.5	---	---	---
9	---	---	---	32.0	28.0	30.0	24.5	22.5	23.5	---	---	---
10	---	---	---	31.5	28.5	30.0	23.5	21.0	22.0	---	---	---
11	---	---	---	30.0	26.5	28.0	24.5	20.5	22.5	---	---	---
12	---	---	---	27.5	24.5	26.0	26.0	20.5	23.0	---	---	---
13	---	---	---	28.0	23.5	26.0	25.0	21.0	23.0	---	---	---
14	25.5	21.5	24.0	29.5	25.0	27.5	27.0	22.5	24.5	26.0	22.0	---
15	26.0	21.5	24.0	30.5	27.0	29.0	27.5	23.0	25.5	23.5	21.5	---
16	25.0	22.5	23.5	30.0	27.0	28.5	30.5	23.5	27.0	21.0	18.5	20.0
17	23.5	20.0	21.5	29.0	25.0	27.5	28.0	23.5	26.0	21.0	18.5	19.5
18	24.5	21.0	22.5	28.0	25.5	27.0	24.5	22.5	23.5	21.5	19.0	20.5
19	25.5	21.0	23.5	29.5	26.5	28.0	27.0	22.5	24.5	22.5	19.5	21.0
20	26.5	23.0	24.5	27.0	24.0	25.5	27.0	23.5	25.0	22.5	20.0	21.5
21	25.5	24.0	25.0	26.0	22.5	24.5	27.0	24.0	25.5	23.0	21.0	22.0
22	27.0	23.5	25.0	25.0	22.0	23.5	26.0	24.0	25.0	21.5	19.0	20.0
23	25.5	21.0	23.5	23.5	21.5	23.0	26.0	24.0	24.5	20.0	17.5	18.5
24	22.0	20.5	21.5	23.0	20.5	21.5	27.0	23.5	25.0	17.5	15.0	16.5
25	21.0	19.0	20.0	21.5	19.0	20.5	27.0	24.0	25.5	17.0	15.0	16.0
26	19.5	18.0	19.0	23.0	19.0	21.5	25.5	23.5	24.0	17.0	15.5	---
27	20.5	18.5	19.5	25.0	21.5	23.0	27.0	23.5	25.0	---	---	---
28	19.5	18.0	18.5	26.5	23.0	24.5	26.5	24.5	25.5	---	---	---
29	22.0	18.0	19.5	27.0	24.0	25.5	26.5	24.0	25.5	---	---	---
30	24.0	19.5	21.5	28.5	24.0	26.5	27.0	25.0	26.0	16.5	15.5	---
31	---	---	---	28.5	25.0	27.0	27.0	23.5	25.0	---	---	---
MONTH	---	---	---	32.0	19.0	26.0	30.5	20.5	25.0	---	---	---



## RARITAN RIVER BASIN

01404100 RARITAN RIVER NEAR SOUTH BOUND BROOK, N. J.--Continued

pH (UNITS), WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	FEBRUARY			MARCH			APRIL			MAY		
	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	---	---	---	7.1	6.9	7.0	7.2	6.4	6.7	7.8	7.2	7.5
2	---	---	---	7.2	6.9	7.0	7.4	4.8	7.1	7.3	7.0	7.1
3	---	---	---	7.1	6.9	7.0	8.1	5.2	7.2	7.4	7.0	7.2
4	---	---	---	7.2	6.8	7.0	8.4	6.2	7.9	7.6	7.2	7.4
5	---	---	---	7.2	6.9	7.1	8.5	7.3	8.0	7.6	7.2	7.4
6	---	---	---	7.3	6.9	7.1	7.4	7.2	7.2	7.4	7.2	7.3
7	---	---	---	7.4	6.9	7.1	7.6	7.3	7.4	7.5	7.1	7.3
8	---	---	---	7.3	7.0	7.1	7.5	7.4	7.4	7.6	7.2	7.4
9	---	---	---	7.0	6.9	6.9	7.6	7.2	7.4	7.7	7.2	7.4
10	---	---	---	7.1	6.9	7.0	7.2	7.1	7.1	7.4	7.2	7.3
11	---	---	---	7.1	6.9	7.0	7.9	7.1	7.3	7.4	7.0	7.2
12	---	---	---	7.2	6.9	7.0	8.0	7.4	7.6	7.4	7.1	7.2
13	---	---	---	7.2	6.8	7.0	9.5	6.3	8.3	---	---	---
14	---	---	---	7.3	6.9	7.0	10.8	7.6	8.6	---	---	---
15	---	---	---	7.3	7.0	7.1	10.5	7.2	8.0	7.3	7.0	7.1
16	---	---	---	7.1	6.9	7.0	7.4	7.2	7.3	7.3	7.0	7.1
17	---	---	---	7.0	6.6	6.7	7.3	7.1	7.2	7.2	7.0	7.1
18	---	---	---	6.9	6.7	6.8	---	---	---	7.2	7.0	7.1
19	---	---	---	7.0	6.7	6.9	---	---	---	7.2	7.0	7.1
20	---	---	---	7.1	6.8	6.9	---	---	---	7.1	6.9	7.0
21	---	---	---	6.9	6.5	6.8	---	---	---	7.2	7.0	7.1
22	---	---	---	6.6	6.4	6.5	---	---	---	7.4	7.1	7.3
23	---	---	---	6.6	6.2	6.4	---	---	---	7.3	7.2	7.2
24	---	---	---	6.4	6.0	6.3	---	---	---	7.5	7.3	7.4
25	---	---	---	6.5	6.1	6.4	---	---	---	7.5	7.3	7.4
26	---	---	---	7.3	6.2	6.5	7.6	7.4	---	7.6	7.4	7.5
27	---	---	---	6.8	6.5	6.7	8.2	7.4	7.7	7.7	7.5	7.6
28	7.3	6.8	7.0	6.9	6.6	6.7	8.0	7.4	7.7	7.9	7.7	7.8
29	---	---	---	6.8	6.6	6.7	8.0	7.2	7.5	8.0	7.8	7.9
30	---	---	---	6.6	5.4	6.1	8.2	7.2	7.6	7.7	7.5	7.6
31	---	---	---	6.6	5.1	5.9	---	---	---	7.6	7.4	7.5
MONTH	---	---	---	7.4	5.1	6.8	---	---	---	8.0	6.9	7.3

DAY	JUNE			JULY			AUGUST			SEPTEMBER		
	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	7.3	7.2	7.3	7.3	6.9	7.2	7.6	7.3	7.4	7.2	7.0	7.1
2	7.1	7.0	7.0	8.0	7.2	7.4	7.4	7.1	7.2	7.3	7.1	7.2
3	7.2	6.8	6.9	7.7	7.4	7.5	7.3	7.0	7.1	7.3	7.2	7.2
4	---	---	---	7.9	7.3	7.5	7.1	7.0	7.1	7.3	7.2	7.2
5	---	---	---	7.6	7.2	7.4	7.1	6.8	6.9	7.4	7.2	7.3
6	7.2	5.9	6.2	7.7	7.3	7.5	7.2	6.9	7.0	7.4	7.1	7.2
7	6.2	6.0	6.1	8.1	7.4	7.7	7.2	6.7	7.0	7.3	7.2	7.3
8	---	---	---	8.0	7.3	7.7	7.0	5.9	6.6	---	---	---
9	---	---	---	7.7	6.9	7.3	7.2	6.9	7.1	---	---	---
10	---	---	---	7.3	7.0	7.2	7.1	6.7	6.9	---	---	---
11	---	---	---	7.6	7.2	7.4	7.4	6.9	7.1	---	---	---
12	---	---	---	7.6	7.4	7.5	7.1	7.1	7.1	---	---	---
13	---	---	---	7.5	7.3	7.4	7.1	7.0	7.1	6.7	6.5	---
14	5.8	5.6	5.7	7.7	7.2	7.4	7.5	6.8	7.1	6.7	6.6	---
15	6.3	5.8	6.0	7.8	7.4	7.6	7.5	7.3	7.4	6.7	6.7	---
16	6.5	6.2	6.3	7.5	7.2	7.3	8.0	7.2	7.4	6.8	6.6	6.7
17	6.4	6.1	6.2	7.4	7.0	7.1	7.8	7.2	7.5	6.7	6.6	6.7
18	6.1	5.9	6.0	7.2	6.9	7.0	7.0	6.5	6.7	6.8	6.7	6.8
19	6.3	6.0	6.1	8.0	7.1	7.5	6.9	6.5	6.7	7.0	6.9	7.0
20	6.5	6.2	6.3	8.3	8.0	8.1	7.5	6.5	6.9	7.1	7.0	7.0
21	6.6	6.3	6.4	8.2	8.0	8.2	7.6	7.4	7.5	7.2	7.1	7.1
22	6.6	6.3	6.5	8.1	8.0	8.1	7.5	7.3	7.4	7.5	7.3	7.3
23	6.7	6.6	6.6	8.1	7.9	8.0	7.4	7.2	7.3	7.4	7.3	7.3
24	6.9	6.8	6.8	8.1	8.0	8.0	7.4	7.2	7.3	7.5	7.4	7.4
25	7.0	6.9	6.9	8.1	7.9	8.0	7.5	7.2	7.3	7.7	7.4	7.5
26	6.8	6.7	6.8	8.1	7.9	8.0	7.3	7.0	7.1	7.6	7.6	---
27	6.9	6.8	6.9	8.1	7.9	8.0	7.2	7.0	7.1	---	---	---
28	7.1	7.0	7.0	8.4	8.0	8.2	7.1	7.0	7.1	---	---	---
29	7.2	7.1	7.2	8.6	8.0	8.3	7.2	7.0	7.1	---	---	---
30	7.5	7.3	7.4	8.3	7.3	7.8	7.1	7.0	7.1	6.7	6.7	---
31	---	---	---	7.7	7.2	7.4	7.3	7.1	7.1	---	---	---
MONTH	---	---	---	8.6	6.9	7.6	8.0	5.9	7.1	---	---	---

RARITAN RIVER BASIN

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01405400 MANALAPAN BROOK AT SPOTSWOOD, N. J.

LOCATION---Lat 40°23'22", long 74°23'27", Middlesex County, at bridge on Devoe Avenue in Spotswood near confluence with Cedar Brook and 0.5 mi (0.8 km) upstream from confluence with Matchaponix Brook.

DRAINAGE AREA--40.7 mi<sup>2</sup> (105.4 km<sup>2</sup>).

PERIOD OF RECORD---Chemical analyses: Water years 1971-72 (partial-record station), October 1972 to September 1974.

WATER QUALITY DATA, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	TEMPERATURE (DEG C)	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)	DISSOLVED OXYGEN (MG/L)	BIOCHEMICAL OXYGEN DEMAND 5 DAY (MG/L)	TURBIDITY (JTU)	COLOR (PLATINUM-COBALT UNITS)	TOTAL NITRITE (N) (MG/L)	TOTAL NITRATE (N) (MG/L)
DEC. 04...	1515	41	6.9	114	5.0	11.4	.7	--	--	.00	1.2
FEB. 05...	1630	44	1.2	110	4.7	14.2	.4	--	--	.01	1.5
APR. 18...	1300	73	13.7	106	5.2	10.0	.9	--	--	--	--
MAY 21...	0915	47	16.7	96	5.4	9.4	1.3	--	--	.01	.92
JUNE 26...	0930	55	18.1	103	5.0	9.0	1.0	--	--	--	--
JULY 18...	1400	21	22.7	107	8.0	8.5	2.4	--	--	--	--
AUG. 20...	1430	25	--	126	9.1	9.4	7.2	--	--	--	--
SEP. 11...	1645	25	21.0	119	4.2	9.8	.8	6	1	.00	.69

DATE	TOTAL KJELDAHL NITROGEN (N) (MG/L)	AMMONIA NITROGEN (N) (MG/L)	ORGANIC NITROGEN (N) (MG/L)	TOTAL NITROGEN (N) (MG/L)	TOTAL PHOSPHORUS (P) (MG/L)	TOTAL ORTHO PHOSPHORUS (P) (MG/L)	DISSOLVED ORTHO PHOSPHORUS (P) (MG/L)	TOTAL ORGANIC CARBON (C) (MG/L)	IMMEDIATE COLIFORM (COL. PER 100 ML)	FECAL COLIFORM (COL. PER 100 ML)	STREPTOCOCCI (COLONIES PER 100 ML)
DEC. 04...	.31	.20	.11	1.5	.03	.01	.01	--	--	69	46
FEB. 05...	.27	.20	.07	1.8	.02	.00	.00	1.0	48	0	0
APR. 18...	--	--	--	--	--	--	--	--	40	16	22
MAY 21...	.72	.24	.48	1.7	.08	.03	--	--	32	230	32
JUNE 26...	--	--	--	--	--	--	--	--	40	180	168
JULY 18...	--	--	--	--	--	--	--	--	0	120	256
AUG. 20...	--	--	--	--	--	--	--	--	320	436	240
SEP. 11...	.35	.28	.07	1.0	.05	.02	--	11	124	75	24

DATE	ALKALINITY AS CaCO3 (MG/L)	BICARBONATE (HCO3) (MG/L)	CARBON DIOXIDE (CO2) (MG/L)	DISSOLVED CHLORIDE (CL) (MG/L)	DISSOLVED SULFATE (SO4) (MG/L)	TOTAL FLUORIDE (F) (MG/L)	DISSOLVED SILICA (SI02) (MG/L)	DISSOLVED SOLIDS (RESIDUE AT 180 C) (MG/L)	DISSOLVED SOLIDS (TONS PER AC-FT)	TOTAL IRON (FE) (UG/L)	TOTAL MANGANESE (MN) (UG/L)
DEC. 04...	--	--	--	--	--	--	--	--	--	--	--
FEB. 05...	--	--	--	--	--	--	--	--	--	--	--
APR. 18...	--	--	--	--	--	--	--	--	--	--	--
MAY 21...	--	--	--	--	--	--	--	--	--	--	--
JUNE 26...	--	--	--	--	--	--	--	--	--	--	--
JULY 18...	--	--	--	--	--	--	--	--	--	--	--
AUG. 20...	--	--	--	--	--	--	--	--	--	--	--
SEP. 11...	0	0	.0	8.8	26	.2	8.2	69	.09	1600	160

## RARITAN RIVER BASIN

ANALYSES OF SAMPLES COLLECTED AT WATER-QUALITY PARTIAL-RECORD STATIONS  
 SUSPENDED-SEDIMENT DISCHARGE MEASUREMENTS, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DATE	TIME	TEMPER- ATURE (DEG C)	INSTAN- TANEOUS DIS- CHARGE (CFS)	SUS- PENDE- SEDIM- ENT (MG/L)	SUS- PENDE- SEDIM- ENT DIS- CHARGE (T/DAY)	SUS. SED. FALL DIAM. % FINER THAN .004 MM	SUS. SED. FALL DIAM. % FINER THAN .008 MM	SUS. SED. FALL DIAM. % FINER THAN .016 MM	SUS. SED. FALL DIAM. % FINER THAN .031 MM	SUS. SED. FALL DIAM. % FINER THAN .062 MM	SUS. SED. FALL DIAM. % FINER THAN .125 MM
01400730 - MILLSTONE R AT PLAINSBORO NJ (LAT 40 19 27 LONG 074 36 51)											
MAR., 1974											
01...	0915	5.5	96	14	3.6	--	--	--	--	--	--
JULY											
11...	1400	25.6	33	8	.71	--	--	--	--	--	--
AUG.											
07...	1400	22.5	33	28	2.5	--	--	--	--	--	--
09...	0845	23.0	31	5	.42	--	--	--	--	--	--
09...	1000	23.0	31	4	.33	--	--	--	--	--	--
10...	1445	22.5	57	34	5.2	--	--	--	--	--	--
12...	1115	20.0	67	11	2.0	--	--	--	--	--	--
22...	1300	22.2	14	6	.23	--	--	--	--	--	--
SEP.											
27...	0835	14.5	27	3	.22	--	--	--	--	--	--
01402590 - ROYCE BK TR AT FRANKFORT NJ (LAT 40 30 21 LONG 074 40 24)											
AUG., 1974											
23...	0940	21.0	.01	21	.00	--	--	--	--	--	--
SEP.											
03...	1715	23.7	1.8	38	.19	--	--	--	--	--	--
03...	1800	23.7	2.1	44	.25	--	--	--	--	--	--
03...	1830	23.9	4.3	76	.89	--	--	--	--	--	--
03...	1900	23.0	11	472	14	75	88	95	97	99	100
03...	1930	21.8	14	292	11	--	--	--	--	--	--
03...	1945	21.7	13	196	7.3	--	--	--	--	--	--
03...	2000	21.5	13	152	5.5	--	--	--	--	--	--
03...	2015	21.4	13	122	4.4	--	--	--	--	--	--
01402600 - ROYCE BK TR NR BELLE MEAD NJ (LAT 40 29 56 LONG 074 39 05)											
AUG., 1974											
07...	1600	22.5	1.0	53	.14	--	--	--	--	--	--
23...	0930	22.0	3.5	151	1.4	--	--	--	--	--	--
SEP.											
03...	1730	23.9	25	434	29	--	--	--	--	--	--
03...	1805	23.5	25	226	15	--	--	--	--	--	--
03...	1840	22.5	64	1747	302	--	--	--	--	--	--
03...	1850	22.5	75	1710	346	61	80	93	98	100	--
03...	1915	22.2	83	929	208	--	--	--	--	--	--
03...	1940	22.1	86	1194	277	--	--	--	--	--	--
03...	1955	22.0	86	1164	270	--	--	--	--	--	--
03...	2010	21.8	83	810	182	--	--	--	--	--	--

[illegible]

## MANASQUAN RIVER BASIN

01408000 MANASQUAN RIVER AT SQUANKUM, N. J.--Continued

## WATER QUALITY DATA, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DATE	DIS- SOLVED SILICA (SIO <sub>2</sub> ) (MG/L)	DIS- SOLVED (RESI- DUE AT 180 C) (MG/L)	DIS- SOLVED SOLIDS (TONS PER AC-FT)	IMME- DIATE COLI- FORM (COL. PER 100 ML)	FECAL COLI- FORM (COL. PER 100 ML)	STREP- TOCOCCHI (COL- ONIES PER 100 ML)	TOTAL IRON (FE) (UG/L)	DIS- SOLVED IRON (FE) (UG/L)	TOTAL MAN- GANESE (MN) (UG/L)	DIS- SOLVED MAN- GANESE (MN) (UG/L)
OCT.										
09...	--	--	--	--	--	--	--	--	--	--
10...	--	--	--	--	--	--	--	--	--	--
11...	--	--	--	--	--	--	--	--	--	--
FEB.										
14...	--	--	--	610	116	300	--	--	--	--
27...	--	--	--	--	--	--	--	--	--	--
APR.										
19...	--	--	--	1100	90	50	--	--	--	--
MAY										
29...	--	--	--	2000	100	200	--	--	--	--
JUNE										
21...	--	--	--	4500	220	1250	--	--	--	--
JULY										
25...	--	--	--	12100	1690	3900	--	--	--	--
AUG.										
22...	13	213	.29	1400	300	950	2600	200	60	28
SEP.										
12...	--	--	--	--	--	--	--	--	--	--

DATE	INSTAN- TANEOUS DIS- CHARGE (CFS)	STAGE (FT ABOVE DATUM)	ELEV. OF LAND SURFACE DATUM (FT. ABOVE MSL)	TEMPER- ATURE (DEG C)	DIS- SOLVED OXYGEN (MG/L)	BIO- CHEM- ICAL OXYGEN DEMAND 5 DAY (MG/L)
OCT.						
09...	30	2.56	18	14.2	6.8	2.5
10...	30	2.55	18	14.2	7.0	3.4
11...	30	2.55	18	14.3	6.8	5.5
24...	31	--	18	9.3	8.4	--
24...	31	2.58	18	10.0	7.7	--
24...	30	--	18	11.5	8.0	--
24...	31	--	18	12.1	7.8	--
24...	31	--	18	12.0	7.4	--
24...	31	--	18	11.5	7.4	--
25...	31	--	18	11.2	6.8	--
25...	31	--	18	11.1	6.3	--
25...	30	--	18	11.3	6.5	--
25...	30	--	18	11.7	6.9	3.7
30...	765	--	18	14.1	--	--
FEB.						
14...	92	--	18	5.8	11.0	2.1
27...	81	--	18	--	--	--
MAR.						
01...	133	--	18	6.5	10.0	1.9
01...	133	--	18	--	--	--
01...	135	--	18	--	--	--
21...	98	--	18	8.3	--	--
21...	111	--	18	9.0	--	--
21...	227	--	18	9.3	--	--
21...	306	--	18	9.3	--	--
APR.						
04...	153	--	18	14.3	--	--
05...	150	--	18	14.5	--	--
19...	94	--	18	13.6	9.2	2.5
MAY						
25...	59	--	18	17.5	6.9	--
25...	59	--	18	16.8	6.9	--
25...	59	--	18	17.0	7.3	--
25...	57	--	18	16.5	7.5	--
25...	57	--	18	16.5	7.4	--
25...	56	--	18	16.9	7.2	--
25...	53	--	18	17.2	7.2	--
25...	53	--	18	17.5	7.5	--
25...	53	--	18	17.8	7.2	--
25...	53	--	18	17.7	7.2	--

## MANASQUAN RIVER BASIN

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01408000 MANASQUAN RIVER AT SQUANKUM, N. J.--Continued

## WATER QUALITY DATA, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DATE	INSTAN- TANEOUS DIS- CHARGE (CFS)	ELEV. OF LAND SURFACE DATUM (FT. ABOVE MSL)	TEMPER- ATURE (DEG C)	DIS- SOLVED OXYGEN (MG/L)	BIO- CHEM- ICAL OXYGEN DEMAND 5 DAY (MG/L)
MAY					
25...	52	18	17.5	7.3	--
25...	52	18	17.1	6.9	--
25...	52	18	16.8	6.7	--
25...	50	18	16.3	7.0	--
26...	50	18	15.8	6.9	--
29...	49	18	14.9	6.8	4.9
JUNE					
21...	38	18	20.3	6.3	5.1
JULY					
25...	60	18	19.0	5.2	3.6
30...	34	18	25.0	--	--
AUG.					
07...	35	18	19.0	--	--
07...	36	18	19.0	--	--
16...	29	18	20.5	7.2	--
16...	29	18	20.1	6.5	--
16...	31	18	20.0	6.7	--
17...	32	18	19.9	6.4	--
17...	32	18	19.9	6.2	--
17...	32	18	20.0	6.2	--
17...	31	18	19.8	6.3	--
17...	31	18	19.7	6.0	--
22...	33	18	19.5	--	--
22...	33	18	20.5	7.4	4.2
SEP.					
04...	368	18	--	--	--
12...	56	18	18.8	9.0	2.2
27...	44	18	13.8	--	--

## SUSPENDED-SEDIMENT DISCHARGE MEASUREMENTS, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DATE	TIME	TEMPER- ATURE (DEG C)	INSTAN- TANEOUS DIS- CHARGE (CFS)	SUS- PEN- DED SED- IMENT DIS- CHARGE (MG/L)	SUS- PEN- DED SED- IMENT DIS- CHARGE (T/DAY)	SUS. SED. FALL DIAM. % FINER THAN .004 MM	SUS. SED. FALL DIAM. % FINER THAN .008 MM	SUS. SED. FALL DIAM. % FINER THAN .016 MM	SUS. SED. FALL DIAM. % FINER THAN .031 MM	SUS. SED. FALL DIAM. % FINER THAN .062 MM	SUS. SED. FALL DIAM. % FINER THAN .125 MM	SUS. SED. FALL DIAM. % FINER THAN .250 MM
OCT.												
30...	1200	14.1	765	300	620	--	--	--	--	--	--	--
MAR.												
01...	1145	--	133	31	11	--	--	--	--	--	--	--
01...	1450	--	135	32	12	--	--	--	--	--	--	--
21...	1215	8.3	100	23	6.2	--	--	--	--	--	--	--
21...	1330	9.0	113	27	8.2	--	--	--	--	--	--	--
21...	1600	9.3	223	129	78	--	--	--	--	--	--	--
21...	1715	9.3	307	165	137	55	72	85	91	94	97	100
APR.												
04...	1315	14.3	153	27	11	--	--	--	--	--	--	--
05...	0945	14.5	150	29	12	--	--	--	--	--	--	--
JULY												
30...	1400	25.0	34	9	.83	--	--	--	--	--	--	--
AUG.												
07...	1315	19.0	35	12	1.1	--	--	--	--	--	--	--
07...	1345	19.0	36	8	.78	--	--	--	--	--	--	--
22...	1015	19.5	33	10	.89	--	--	--	--	--	--	--
22...	1230	20.5	33	9	.80	--	--	--	--	--	--	--
SEP.												
04...	1010	--	368	244	242	--	--	--	--	--	--	--
27...	1110	13.8	44	11	1.3	--	--	--	--	--	--	--



## MANASQUAN RIVER BASIN

01408000 MANASQUAN RIVER AT SQUANKUM, N. J.--Continued

SPECIFIC CONDUCTANCE (MICROMHOS AT 25°C), WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCTOBER			NOVEMBER			DECEMBER			JANUARY		
	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	297	242	276	---	---	---	246	215	230	187	163	173
2	381	250	279	---	---	---	245	216	228	171	152	162
3	320	259	283	---	---	---	228	218	222	201	146	162
4	314	242	272	---	---	---	235	212	225	326	190	237
5	345	255	283	---	---	---	236	210	221	458	207	268
6	373	269	318	---	---	---	233	185	203	207	200	203
7	317	263	285	250	214	233	209	205	207	201	191	196
8	271	248	260	281	221	245	228	207	219	199	189	193
9	268	248	257	263	225	239	233	108	171	205	184	193
10	314	262	281	257	214	235	170	140	160	317	205	265
11	329	253	285	262	224	241	205	170	184	466	231	335
12	349	272	302	236	210	220	204	180	189	221	177	188
13	368	275	311	230	209	218	240	186	207	191	181	187
14	317	264	284	259	218	237	223	174	195	191	184	188
15	275	250	265	265	219	241	202	178	190	197	188	192
16	272	255	263	249	224	236	213	190	202	258	194	201
17	348	262	296	268	228	247	---	---	---	225	172	188
18	327	256	288	256	230	243	---	---	---	204	186	193
19	350	273	299	235	211	220	278	225	236	223	187	198
20	306	250	280	230	210	222	256	205	227	407	195	259
21	305	264	284	245	226	239	292	108	164	193	143	177
22	300	264	283	267	228	248	167	110	147	157	127	146
23	281	255	269	272	227	246	176	163	168	173	159	165
24	284	259	274	264	219	234	179	170	175	182	165	172
25	315	262	283	285	236	253	186	172	178	196	170	182
26	290	262	278	252	223	238	185	161	177	190	173	180
27	303	257	278	242	215	230	178	122	153	193	174	182
28	304	264	285	250	191	225	180	161	172	190	180	184
29	292	112	212	230	192	202	183	174	178	197	180	187
30	130	114	---	229	207	220	190	174	181	195	178	186
31	---	---	---	---	---	---	196	178	184	196	184	191
MONTH	381	112	280	285	191	234	292	108	193	466	127	198

DAY	FEBRUARY			MARCH			APRIL			MAY		
	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	203	183	192	311	204	239	152	135	143	231	194	211
2	219	183	193	221	182	192	171	153	160	225	193	208
3	226	196	207	213	185	199	177	159	165	219	194	207
4	312	225	273	206	188	194	182	137	164	198	178	190
5	347	228	284	207	183	191	175	141	161	211	191	200
6	333	219	251	207	189	198	179	159	165	205	189	196
7	509	221	315	220	200	206	172	162	167	231	194	204
8	372	220	284	216	191	205	182	166	174	224	198	211
9	223	195	203	220	189	202	174	90	125	236	203	217
10	221	192	205	195	177	186	202	114	150	226	165	204
11	217	197	205	185	175	180	192	148	166	194	165	179
12	222	196	207	199	180	187	170	159	163	199	179	190
13	228	203	218	205	182	191	164	153	160	188	154	166
14	252	216	225	220	198	211	177	149	154	198	170	184
15	230	193	208	220	207	214	168	154	---	211	192	203
16	207	188	193	220	182	203	---	---	---	245	204	225
17	231	195	213	182	139	150	---	---	---	288	225	253
18	223	190	198	170	151	161	---	---	---	243	207	223
19	201	180	191	200	168	180	---	---	---	263	209	226
20	225	180	201	201	180	188	---	---	---	276	234	257
21	205	186	193	---	---	---	---	---	---	296	240	261
22	211	173	196	---	---	---	---	---	---	266	219	242
23	208	186	194	---	---	---	---	---	---	271	239	258
24	198	182	188	---	---	---	---	---	---	251	215	234
25	195	182	190	---	---	---	---	---	---	250	217	233
26	337	178	245	---	---	---	---	---	---	273	234	252
27	911	332	552	---	---	---	---	---	---	272	225	245
28	362	247	286	190	176	182	---	---	---	223	210	216
29	---	---	---	213	178	193	---	---	---	269	215	244
30	---	---	---	209	136	167	203	192	204	283	248	263
31	---	---	---	141	116	127	220	192	---	287	261	272
MONTH	911	173	233	---	---	---	---	---	---	296	154	222

## MANASQUAN RIVER BASIN

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01408000 MANASQUAN RIVER AT SQUANKUM, N. J.--Continued

SPECIFIC CONDUCTANCE (MICROMHOS AT 25°C), WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	JUNE			JULY			AUGUST			SEPTEMBER		
	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	325	221	279	255	211	241	309	270	285	231	202	217
2	259	199	228	280	211	242	327	265	293	234	121	171
3	201	170	186	284	252	268	327	252	289	214	173	190
4	264	199	228	285	258	272	272	192	249	188	116	152
5	279	226	248	291	260	270	277	217	237	194	168	184
6	246	223	231	332	211	247	317	220	244	208	190	199
7	253	224	235	276	225	250	318	255	282	200	111	160
8	256	230	245	269	251	260	332	222	280	177	146	166
9	246	227	236	268	256	262	353	259	292	195	179	188
10	229	217	223	293	262	276	276	208	235	219	192	199
11	252	224	238	283	230	257	278	209	242	226	209	218
12	278	235	257	299	242	262	279	241	257	227	217	223
13	273	237	256	283	259	267	342	245	275	239	221	229
14	---	---	---	267	247	257	334	268	297	239	198	224
15	---	---	---	266	237	248	319	273	298	218	192	203
16	---	---	---	252	238	243	300	270	285	225	218	222
17	---	---	---	378	243	284	343	273	297	238	218	226
18	---	---	---	360	257	294	322	181	221	247	235	240
19	---	---	---	272	255	260	270	206	231	246	233	240
20	---	---	---	307	248	269	311	243	262	297	240	257
21	---	---	---	282	243	256	316	275	299	270	240	261
22	317	260	279	290	243	260	335	278	301	251	198	222
23	267	198	246	318	245	264	325	190	280	234	207	217
24	221	180	207	307	225	268	298	184	228	241	229	236
25	251	220	234	237	167	191	299	251	278	250	238	244
26	260	221	236	268	231	247	281	239	260	266	241	251
27	247	217	230	318	249	271	288	233	254	272	246	259
28	275	236	254	276	242	260	306	274	288	271	248	260
29	268	215	244	268	233	249	274	134	188	247	174	202
30	259	223	239	298	250	276	229	175	204	210	182	196
31	---	---	---	291	253	274	201	120	174	---	---	---
MONTH	---	---	---	378	167	260	353	120	261	297	111	215

DISSOLVED OXYGEN (DO), IN MILLIGRAMS PER LITER, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCTOBER			NOVEMBER			DECEMBER			JANUARY		
	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	7.8	7.2	7.5	---	---	---	10.0	9.5	9.7	12.0	9.6	---
2	7.9	7.0	7.6	---	---	---	10.9	10.2	10.7	13.5	11.3	12.8
3	7.3	6.3	6.8	---	---	---	11.2	10.1	10.8	14.0	12.3	13.3
4	6.6	6.2	6.5	---	---	---	10.5	9.1	9.9	14.0	11.8	12.7
5	6.5	5.9	6.2	---	---	---	9.1	7.3	8.3	14.2	12.5	13.8
6	6.3	6.0	6.2	---	---	---	8.7	6.9	7.7	13.6	12.7	13.3
7	6.5	5.8	6.3	10.7	10.4	10.5	10.1	9.2	9.6	13.7	12.5	13.2
8	6.2	5.3	5.9	10.7	9.8	10.4	10.1	9.8	10.0	14.3	12.5	13.3
9	6.1	5.3	5.7	9.9	8.9	9.3	10.3	7.7	9.3	14.6	12.8	13.3
10	5.6	4.5	5.3	10.2	9.6	9.9	10.1	8.7	9.7	14.4	12.4	13.1
11	4.9	4.6	4.7	10.7	10.1	10.5	10.6	10.3	10.4	12.3	11.7	---
12	5.7	5.1	5.3	10.3	9.4	9.8	11.4	10.9	11.2	12.2	11.8	12.0
13	5.9	4.9	5.5	9.6	8.5	9.1	11.7	10.0	11.2	14.9	11.4	12.6
14	5.2	4.5	4.8	8.7	7.7	8.3	10.0	9.3	9.8	12.3	11.4	11.5
15	5.5	4.8	5.1	8.2	7.3	7.8	11.1	10.3	10.9	13.4	11.3	12.2
16	5.5	5.1	5.3	7.6	6.9	7.2	11.1	10.6	10.9	11.7	10.6	10.9
17	5.9	5.4	5.6	9.1	7.8	8.5	---	---	---	11.8	10.0	11.0
18	6.1	5.6	5.9	9.5	8.6	9.1	---	---	---	12.7	11.8	12.2
19	6.4	5.9	6.2	9.1	8.5	8.7	11.4	10.8	11.2	12.0	11.3	11.7
20	6.6	5.8	6.3	9.3	8.8	9.1	11.3	9.6	10.5	11.9	11.3	11.7
21	6.6	6.0	6.3	9.8	9.0	9.5	9.9	8.0	8.8	11.8	10.9	11.4
22	7.3	6.4	6.9	9.1	8.0	8.4	10.5	9.4	10.1	12.0	11.0	11.5
23	7.5	6.8	7.2	8.5	8.2	8.3	11.0	10.6	10.8	12.5	10.4	11.2
24	7.4	6.7	7.1	8.8	7.1	8.4	11.5	11.1	11.3	11.4	10.9	11.1
25	6.9	5.8	6.3	8.1	7.7	7.9	12.2	10.8	11.7	11.6	11.2	11.4
26	6.4	5.9	6.2	8.3	7.9	8.2	10.7	10.1	10.7	11.7	11.4	11.5
27	6.6	6.4	6.5	8.5	8.1	8.3	10.5	9.7	9.9	11.6	10.8	11.2
28	7.1	6.8	6.9	8.3	7.4	7.8	10.0	9.7	9.8	11.6	11.1	11.4
29	---	---	---	8.7	7.7	8.2	10.2	9.4	9.9	11.5	11.2	11.3
30	---	---	---	10.0	9.2	9.6	10.6	8.9	9.4	11.6	11.2	11.4
31	---	---	---	---	---	---	11.0	9.1	10.0	11.6	11.0	11.3
MONTH	7.9	4.5	6.1	10.7	6.9	8.9	12.2	6.9	10.1	14.9	9.6	12.0

## MANASQUAN RIVER BASIN

01408000 MANASQUAN RIVER AT SQUANKUM, N. J.--Continued

DISSOLVED OXYGEN (DO), IN MILLIGRAMS PER LITER, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	FEBRUARY			MARCH			APRIL			MAY		
	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	11.5	11.0	11.2	11.8	11.1	11.5	---	---	---	8.4	6.4	7.3
2	11.4	11.0	11.2	11.7	11.3	11.5	---	---	---	8.9	6.9	7.8
3	11.4	10.8	11.2	11.7	11.3	11.5	---	---	---	8.0	7.2	7.6
4	11.5	11.1	11.3	11.4	10.7	11.1	---	---	---	8.5	7.0	7.6
5	11.7	11.2	11.4	10.8	10.3	10.6	---	---	---	8.6	7.2	7.8
6	11.6	11.2	11.5	11.1	10.3	10.6	---	---	---	9.0	7.7	8.2
7	11.4	10.7	10.3	11.0	10.1	10.6	---	---	---	9.3	7.9	8.5
8	11.0	10.8	10.9	10.5	10.0	10.2	---	---	---	9.7	7.8	8.8
9	11.6	10.9	11.3	10.8	10.0	10.5	---	---	---	9.1	7.4	8.1
10	11.3	10.9	11.1	12.0	10.5	10.9	---	---	---	7.8	6.4	7.2
11	11.2	10.7	11.0	11.6	10.9	11.2	---	---	---	8.4	6.8	7.5
12	11.1	10.4	10.8	11.4	10.7	11.1	---	---	---	8.6	7.1	7.7
13	10.9	10.3	10.6	11.4	10.6	10.9	---	---	---	8.4	7.1	7.8
14	11.1	10.5	10.2	11.6	10.6	11.0	---	---	---	8.5	7.4	8.1
15	11.3	10.7	11.0	11.6	10.5	10.9	---	---	---	7.6	6.3	7.1
16	11.4	10.9	11.2	10.8	10.2	10.6	---	---	---	7.1	6.2	6.6
17	11.3	10.8	11.0	11.4	9.7	10.4	---	---	---	6.8	6.0	6.4
18	11.6	11.1	11.3	12.3	10.7	11.3	---	---	---	6.8	5.9	6.2
19	11.9	11.3	11.6	12.6	10.1	10.8	---	---	---	7.1	6.3	6.7
20	12.2	11.3	11.5	10.8	9.8	10.3	---	---	---	7.6	6.4	7.1
21	12.2	11.5	11.8	---	---	---	---	---	---	7.7	6.3	7.0
22	11.9	11.2	11.6	---	---	---	---	---	---	7.5	6.4	7.1
23	11.9	10.9	11.5	---	---	---	---	---	---	7.1	6.6	6.9
24	12.3	11.5	12.0	---	---	---	---	---	---	7.3	6.2	6.7
25	12.0	11.6	11.8	10.7	9.9	10.4	---	---	---	7.0	6.1	6.5
26	11.9	11.0	11.6	10.6	10.2	10.5	---	---	---	7.1	6.3	6.5
27	12.9	11.5	11.9	---	---	---	---	---	---	7.2	6.6	6.9
28	12.0	11.1	11.4	---	---	---	---	---	---	7.9	6.5	7.2
29	---	---	---	10.7	10.3	10.5	---	---	---	8.6	6.6	7.6
30	---	---	---	11.1	10.9	11.0	8.4	6.9	7.4	8.8	8.1	8.4
31	---	---	---	---	---	---	---	---	---	8.6	7.6	8.3
MONTH	12.9	10.3	11.3	---	---	---	---	---	---	9.7	5.9	7.4

DAY	JUNE			JULY			AUGUST			SEPTEMBER		
	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	8.0	7.3	7.7	6.0	5.1	5.5	8.1	5.2	6.4	4.8	4.2	4.5
2	8.7	7.6	8.1	---	---	---	8.9	5.7	6.8	4.6	3.3	4.1
3	8.4	7.1	7.8	5.2	5.1	5.1	7.0	4.2	5.7	5.2	4.7	5.0
4	7.8	6.7	7.4	4.9	4.6	---	7.1	4.2	5.3	9.0	4.3	6.4
5	7.1	6.2	6.8	---	---	---	6.5	4.8	5.7	9.7	8.6	9.3
6	6.8	5.9	6.4	---	---	---	8.0	5.0	5.9	9.5	8.8	9.1
7	6.3	5.3	6.0	---	---	---	7.6	5.2	6.2	9.5	7.8	8.6
8	6.1	4.5	5.2	---	---	---	7.5	4.7	6.4	8.6	8.1	8.4
9	5.0	4.1	4.8	---	---	---	9.6	6.1	7.5	8.2	7.5	7.9
10	5.4	4.3	4.8	---	---	---	8.9	5.8	7.5	7.7	6.8	7.4
11	5.6	4.8	5.1	---	---	---	9.7	7.1	8.2	7.1	6.6	6.9
12	6.6	4.9	5.9	6.4	4.8	5.7	10.0	7.5	8.3	7.1	6.0	6.8
13	6.6	5.3	6.0	7.5	5.6	6.6	8.7	6.0	7.8	6.9	6.2	6.6
14	6.3	5.8	---	7.5	5.5	6.5	8.1	4.5	5.9	6.9	6.3	6.6
15	---	---	---	7.5	5.2	6.4	9.0	4.8	6.6	7.9	6.6	7.5
16	---	---	---	7.5	5.3	6.3	8.7	5.7	6.8	8.0	7.4	7.8
17	---	---	---	8.0	5.9	6.9	7.6	5.3	6.1	7.7	6.3	7.0
18	---	---	---	7.6	6.0	6.8	---	---	---	6.8	6.3	6.5
19	---	---	---	---	---	---	8.4	5.1	6.4	6.9	6.0	6.5
20	---	---	---	---	---	---	9.7	5.8	7.1	6.5	5.7	6.2
21	5.4	4.2	---	---	---	---	6.8	5.1	6.1	6.4	5.8	6.1
22	5.5	4.2	4.7	---	---	---	5.5	4.6	5.1	6.9	6.0	6.3
23	4.9	4.3	4.5	---	---	---	5.8	4.1	5.0	7.9	6.3	7.0
24	6.9	5.3	6.2	---	---	---	6.4	4.2	5.1	8.5	7.0	7.6
25	6.5	6.1	6.3	---	---	---	5.7	4.4	5.1	8.0	7.1	7.6
26	6.8	6.2	6.5	8.0	6.1	6.9	5.8	4.6	5.1	7.8	7.0	7.4
27	6.8	5.9	6.4	6.8	5.4	6.0	5.7	4.1	4.9	7.8	6.5	7.2
28	6.2	5.4	5.7	6.9	4.8	5.8	4.8	3.6	4.1	7.6	6.7	7.1
29	5.7	4.4	5.3	7.9	4.7	5.9	4.2	3.0	3.7	6.9	5.9	6.4
30	6.2	5.1	5.5	7.8	4.7	6.0	4.9	4.2	4.5	8.9	6.7	7.4
31	---	---	---	9.2	4.8	6.5	4.5	3.2	4.0	---	---	---
MONTH	8.7	4.1	---	---	---	---	10.0	3.0	6.0	9.7	3.3	7.0

## MANASQUAN RIVER BASIN

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01408000 MANASQUAN AT SQUANKUM, N. J.--Continued

TEMPERATURE (°C) OF WATER, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCTOBER			NOVEMBER			DECEMBER			JANUARY		
	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	---	---	---	---	---	---	---	---	---	6.5	6.0	6.5
2	---	---	---	---	---	---	---	---	---	6.5	5.0	5.5
3	---	---	---	---	---	---	---	---	---	5.5	5.0	5.0
4	---	---	---	---	---	---	---	---	---	5.5	4.5	5.0
5	---	---	---	---	---	---	---	---	---	4.5	4.0	4.5
6	---	---	---	---	---	---	---	---	---	5.0	4.5	5.0
7	---	---	---	---	---	---	---	---	---	5.5	5.0	5.0
8	---	---	---	---	---	---	8.0	7.5	8.0	5.0	4.0	4.5
9	---	---	---	---	---	---	9.5	8.0	8.5	3.5	3.0	3.5
10	---	---	---	---	---	---	9.5	8.0	9.0	4.0	3.5	3.5
11	---	---	---	---	---	---	8.0	7.0	8.0	4.5	3.5	4.0
12	---	---	---	---	---	---	7.0	6.0	6.5	3.5	3.0	3.5
13	---	---	---	---	---	---	7.0	5.5	6.0	3.5	2.5	3.0
14	---	---	---	---	---	---	9.0	7.5	8.5	3.0	2.0	2.5
15	---	---	---	---	---	---	8.5	7.0	7.5	5.0	3.5	4.0
16	---	---	---	---	---	---	7.0	6.0	6.5	6.0	5.0	5.0
17	---	---	---	---	---	---	---	---	---	6.0	4.5	5.0
18	---	---	---	---	---	---	5.5	3.5	---	4.5	3.0	3.5
19	---	---	---	---	---	---	3.5	3.0	3.0	5.0	3.0	4.0
20	---	---	---	---	---	---	6.5	4.0	5.0	5.0	4.0	4.5
21	---	---	---	---	---	---	9.0	6.5	8.0	6.5	4.5	5.5
22	---	---	---	---	---	---	7.0	4.5	5.0	6.0	4.5	5.5
23	---	---	---	---	---	---	5.5	4.5	5.0	7.5	5.5	6.0
24	---	---	---	---	---	---	5.0	4.0	5.0	8.0	7.0	7.5
25	---	---	---	---	---	---	6.0	4.0	5.0	7.0	6.5	7.0
26	---	---	---	---	---	---	8.5	6.0	7.5	6.5	6.0	6.5
27	---	---	---	---	---	---	9.5	8.5	9.0	10.5	6.5	9.0
28	---	---	---	---	---	---	9.5	7.5	8.5	10.0	8.5	9.0
29	---	---	---	---	---	---	7.5	7.0	7.5	9.5	8.5	9.0
30	---	---	---	---	---	---	8.0	6.5	7.5	9.0	8.0	8.5
31	---	---	---	---	---	---	6.5	6.0	6.5	8.5	7.5	8.0
MONTH	---	---	---	---	---	---	---	---	---	10.5	2.0	5.5

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

## MANASQUAN RIVER BASIN

01408000 MANASQUAN AT SQUANKUM, N. J.--Continued

TEMPERATURE (°C) OF WATER, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	JUNE			JULY			AUGUST			SEPTEMBER		
	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	17.0	15.5	16.0	20.5	18.5	19.5	21.0	19.5	20.5	21.5	20.0	21.0
2	16.5	15.0	16.0	21.5	18.5	20.0	21.5	20.0	20.5	21.5	20.5	21.0
3	16.5	14.5	15.5	22.0	20.0	21.0	22.5	21.0	21.5	20.5	19.5	20.0
4	17.0	14.5	16.0	23.5	21.0	22.5	23.0	22.0	22.5	20.5	19.0	20.0
5	17.0	15.0	16.0	23.0	21.5	22.5	22.5	21.5	22.0	18.5	17.5	18.0
6	17.5	15.0	16.5	22.5	21.0	22.0	21.5	20.0	21.0	18.0	17.5	17.5
7	16.5	14.5	15.5	22.5	20.5	21.5	20.5	18.5	19.5	17.5	16.5	17.0
8	15.0	14.0	14.5	23.0	21.0	22.0	19.5	18.0	19.0	18.0	17.0	17.5
9	17.5	14.5	16.0	23.0	21.0	22.0	20.5	19.0	19.5	18.0	17.0	17.5
10	19.5	17.0	18.0	23.5	22.0	22.5	21.5	19.5	20.5	18.5	17.0	17.5
11	19.0	17.5	18.5	22.5	21.0	22.0	20.0	18.0	19.0	18.5	17.5	18.5
12	17.5	15.0	16.0	22.0	19.5	20.5	19.5	17.0	18.0	19.5	18.0	19.0
13	16.0	14.0	15.0	22.0	18.5	20.0	19.0	17.5	18.5	20.5	19.0	19.5
14	15.5	13.5	---	23.5	19.5	21.0	21.5	18.5	20.0	20.0	18.5	19.5
15	---	---	---	24.5	21.5	23.0	21.0	19.5	20.5	18.5	16.0	17.0
16	---	---	---	24.5	22.0	23.0	20.5	19.0	20.0	17.0	15.5	16.0
17	---	---	---	23.0	20.0	21.5	21.0	20.0	20.5	17.0	15.5	16.5
18	---	---	---	21.0	19.5	20.5	22.5	20.0	21.5	17.5	16.0	17.0
19	---	---	---	22.0	20.0	21.0	21.5	19.5	20.5	17.5	16.5	17.5
20	---	---	---	21.5	19.5	20.5	20.5	18.5	20.0	18.5	17.0	18.0
21	20.5	20.0	---	21.0	19.0	20.0	20.5	19.0	20.0	19.0	18.0	18.5
22	21.5	19.5	20.5	19.5	17.5	18.5	20.5	19.5	20.0	18.5	17.0	17.5
23	21.0	18.5	19.5	19.5	17.0	18.5	21.5	19.5	20.0	17.0	14.5	15.5
24	19.0	17.5	18.0	18.5	18.0	18.0	22.0	21.0	21.5	14.0	12.0	13.0
25	18.5	17.0	17.5	19.0	18.0	19.0	21.5	20.0	21.0	13.5	11.5	12.5
26	16.5	16.5	16.5	19.0	17.5	18.5	20.5	19.5	20.0	14.0	12.5	13.0
27	17.5	16.5	17.0	20.0	18.5	19.0	20.5	19.0	20.0	15.0	13.0	14.0
28	17.0	16.0	16.5	21.0	19.5	20.0	21.5	20.0	21.0	16.0	14.5	15.0
29	18.5	16.0	17.0	22.0	20.0	21.0	23.0	21.0	22.0	18.0	16.5	17.0
30	20.0	18.0	19.0	22.0	20.5	21.5	22.5	21.5	22.0	16.5	14.0	15.5
31	---	---	---	21.5	20.0	21.0	22.0	21.0	21.5	---	---	---
MONTH	21.5	13.5	---	24.5	17.0	20.5	23.0	17.0	20.5	21.5	11.5	17.0

pH (UNITS), WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCTOBER			NOVEMBER			DECEMBER			JANUARY		
	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	6.8	6.5	6.7	---	---	---	7.1	6.8	7.0	6.6	6.2	6.4
2	6.8	6.6	6.7	---	---	---	7.2	6.9	7.1	7.6	6.3	6.6
3	7.4	6.6	6.9	---	---	---	7.2	6.9	7.1	7.7	7.0	7.6
4	6.9	6.5	6.7	---	---	---	7.2	6.9	7.1	8.0	6.1	---
5	7.2	6.5	6.8	---	---	---	7.3	6.9	7.1	6.6	6.3	6.5
6	7.2	6.7	6.9	---	---	---	7.1	6.6	6.8	6.6	6.4	6.5
7	7.3	7.0	7.1	7.0	6.7	6.9	7.0	6.9	7.0	6.7	6.3	6.5
8	7.1	6.9	7.1	7.1	6.8	6.9	7.0	6.9	7.0	6.8	6.5	6.6
9	7.2	6.9	7.1	7.0	6.8	6.9	8.2	6.0	6.9	6.8	6.6	6.7
10	7.1	6.9	7.0	7.1	6.9	7.0	6.4	5.9	6.1	6.7	6.6	6.6
11	7.1	6.9	7.0	7.1	6.8	7.0	6.7	6.4	6.5	6.5	6.2	---
12	7.2	6.9	7.1	7.1	6.8	7.0	6.8	6.7	6.7	6.4	6.1	6.2
13	7.1	6.8	7.0	7.0	6.8	7.0	7.4	6.8	7.0	6.6	6.3	6.4
14	7.0	6.7	6.9	7.0	6.7	6.9	7.6	6.4	6.8	6.6	6.4	6.5
15	7.0	6.6	6.8	7.0	6.6	6.9	6.7	6.6	6.7	6.6	6.4	6.5
16	6.9	6.7	6.8	7.1	6.8	6.9	6.8	6.7	6.8	6.6	6.3	6.5
17	6.9	6.7	6.8	7.1	6.9	7.1	---	---	---	6.8	6.3	6.5
18	6.9	6.8	6.9	7.2	7.0	7.1	7.1	6.4	6.7	6.8	6.5	6.6
19	6.9	6.7	6.8	7.1	6.9	7.0	6.9	6.8	6.9	6.6	6.3	6.5
20	6.9	6.7	6.8	7.1	6.8	7.0	7.1	6.7	6.9	6.7	6.5	6.6
21	6.9	6.6	6.8	7.2	7.0	7.1	9.7	5.4	7.3	7.6	6.4	6.6
22	7.0	6.6	6.8	7.0	6.7	6.9	6.1	5.4	5.8	6.4	5.7	6.0
23	6.9	6.5	6.8	7.1	6.8	7.0	6.4	6.1	6.3	6.9	6.0	---
24	6.9	6.5	6.8	7.1	6.9	7.0	6.6	6.3	6.5	6.6	6.3	6.5
25	6.9	6.8	6.9	7.0	6.7	6.9	7.3	6.5	6.6	6.8	6.3	6.5
26	6.9	6.6	6.8	7.0	6.9	6.9	7.9	6.3	6.9	6.8	6.6	6.7
27	6.9	6.6	6.8	6.9	6.8	6.9	7.6	6.2	6.7	6.7	6.4	6.6
28	7.0	6.8	6.9	6.9	6.5	6.7	6.5	6.1	6.3	6.9	6.6	6.7
29	9.1	6.9	8.0	6.9	6.5	6.7	6.5	6.2	6.4	6.8	6.4	6.6
30	8.4	7.2	---	7.0	6.8	6.9	6.7	6.4	6.5	6.9	6.3	6.7
31	---	---	---	---	---	---	7.3	6.5	6.8	6.9	6.4	6.7
MONTH	9.1	6.5	6.9	7.2	6.5	6.9	9.7	5.4	6.7	8.0	5.7	6.6



## MANASQUAN RIVER BASIN

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01408000 MANASQUAN RIVER AT SQUANKUM, N. J.--Continued

pH (UNITS), WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	FEBRUARY			MARCH			APRIL			MAY		
	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	6.9	6.5	6.8	6.4	6.1	6.3	6.3	5.8	6.0	6.8	6.4	6.5
2	6.9	6.7	6.8	6.4	6.2	6.3	6.8	6.0	6.3	6.8	6.5	6.6
3	7.0	6.8	6.9	6.4	6.2	6.3	---	---	---	6.6	6.4	6.6
4	7.1	6.7	6.9	6.5	5.9	6.3	6.6	5.9	6.2	6.8	6.4	6.5
5	7.2	6.7	7.1	6.4	6.2	6.3	6.4	5.9	6.1	6.8	6.4	6.6
6	7.3	6.7	7.0	6.7	6.2	6.4	6.5	6.2	6.3	6.8	6.5	6.6
7	7.0	6.6	6.8	6.7	6.1	6.4	6.7	6.2	6.5	6.8	6.4	6.6
8	6.9	6.7	6.8	6.5	6.4	6.5	6.7	6.3	6.5	6.8	6.4	6.5
9	7.1	6.6	6.9	6.5	6.3	6.4	6.7	5.8	---	6.7	6.4	6.5
10	7.2	6.5	7.0	6.7	6.0	6.4	6.8	6.3	---	6.5	6.0	6.4
11	7.1	6.5	6.9	6.7	6.2	6.4	6.9	6.1	6.5	6.5	6.0	6.3
12	7.1	6.5	7.0	6.8	6.2	6.5	---	---	---	6.5	6.1	6.3
13	7.1	6.6	6.9	6.7	6.2	6.5	---	---	---	6.3	6.0	6.2
14	6.9	6.4	6.7	6.8	6.3	6.6	---	---	---	6.6	6.1	6.3
15	7.0	6.5	6.7	6.9	6.4	6.6	---	---	---	6.5	6.1	6.3
16	7.0	6.5	6.7	6.8	6.4	6.6	---	---	---	6.4	6.0	6.2
17	7.0	6.6	6.8	6.5	6.1	6.3	---	---	---	6.5	6.0	6.2
18	7.0	6.7	6.8	6.9	6.2	6.5	---	---	---	6.4	5.9	6.1
19	6.8	6.5	6.7	7.1	6.3	6.6	---	---	---	6.4	5.9	6.1
20	6.6	6.3	6.5	6.9	6.4	6.6	---	---	---	6.4	6.1	6.2
21	7.0	6.2	6.6	---	---	---	---	---	---	6.6	6.2	6.4
22	6.7	6.2	6.6	---	---	---	---	---	---	6.7	6.1	6.4
23	6.6	6.3	6.5	---	---	---	---	---	---	6.4	6.1	6.3
24	7.0	6.3	6.6	---	---	---	---	---	---	6.4	6.1	6.3
25	6.7	6.6	6.6	---	---	---	---	---	---	6.5	6.0	6.3
26	7.0	6.3	6.7	---	---	---	---	---	---	6.4	6.1	6.2
27	7.0	6.2	6.7	---	---	---	---	---	---	6.4	6.1	6.3
28	6.8	6.0	6.5	6.7	6.2	6.4	---	---	---	6.5	6.1	6.3
29	---	---	---	6.6	6.4	6.5	6.4	6.3	6.4	6.5	6.1	6.3
30	---	---	---	6.6	5.9	6.3	6.7	6.3	6.5	6.7	6.4	6.5
31	---	---	---	6.0	5.7	5.8	---	---	---	6.8	6.5	6.6
MONTH	7.3	6.0	6.8	---	---	---	---	---	---	6.8	5.9	6.4

DAY	JUNE			JULY			AUGUST			SEPTEMBER		
	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	6.7	6.4	6.6	6.6	6.2	6.5	6.7	6.3	6.6	6.6	6.2	6.4
2	6.5	6.3	6.4	6.6	6.1	6.4	6.7	6.5	6.6	---	---	---
3	6.6	6.2	6.4	6.6	6.4	6.5	6.6	6.4	6.5	---	---	---
4	6.6	6.2	6.4	6.6	6.2	6.5	6.8	6.4	6.6	---	---	---
5	6.6	6.2	6.4	6.7	6.4	6.6	6.8	6.4	6.6	6.3	5.8	6.1
6	6.6	6.1	6.4	6.7	6.4	6.5	6.6	6.4	6.5	6.5	6.2	6.4
7	6.5	6.2	6.3	6.6	6.3	6.5	6.9	6.4	6.6	6.6	5.6	6.2
8	6.6	6.4	6.5	6.5	6.2	6.4	6.8	6.4	6.6	6.2	5.7	6.0
9	6.8	6.3	6.5	6.5	6.2	6.4	6.7	6.5	6.6	6.6	6.2	6.4
10	6.6	6.3	6.5	6.5	6.3	6.4	6.6	6.2	6.4	6.8	6.3	6.6
11	6.7	6.3	6.5	6.8	6.5	6.6	6.6	6.2	6.4	7.0	6.2	6.6
12	6.6	6.3	6.4	6.9	6.6	6.8	6.6	6.2	6.4	6.8	6.3	6.5
13	6.7	6.3	6.5	7.0	6.6	6.8	6.8	6.3	6.2	6.7	6.3	6.6
14	6.7	6.4	---	6.9	6.4	6.7	6.9	6.4	6.7	6.8	6.4	6.7
15	---	---	---	6.6	6.2	6.4	7.0	6.7	6.9	6.8	6.5	6.7
16	---	---	---	6.4	6.1	6.3	7.1	6.7	6.9	6.9	6.6	6.8
17	---	---	---	6.4	6.1	6.3	6.9	6.7	6.8	7.0	6.7	6.8
18	---	---	---	6.8	6.6	6.7	6.9	6.2	6.5	7.0	6.6	6.8
19	---	---	---	6.7	6.4	6.6	6.8	6.5	6.6	7.1	6.6	6.9
20	---	---	---	6.8	6.5	6.6	6.8	6.3	6.6	7.0	6.4	6.9
21	6.8	6.3	---	6.6	6.3	6.5	7.1	6.3	6.7	6.8	6.5	6.7
22	6.7	6.4	6.6	6.6	6.3	6.4	7.2	7.0	7.1	6.8	6.2	6.5
23	6.7	6.5	6.6	6.6	6.3	6.4	7.0	6.5	6.8	6.7	6.4	6.5
24	6.6	6.4	6.5	6.5	6.3	6.4	6.9	6.4	6.6	6.8	6.4	6.6
25	6.8	6.6	6.7	6.3	5.9	6.1	7.1	6.5	6.9	6.6	6.3	6.5
26	6.8	6.6	6.7	6.5	6.3	6.4	7.1	6.6	6.9	6.4	6.0	6.3
27	6.8	6.6	6.7	6.5	6.3	6.4	6.9	6.3	6.6	6.8	6.2	6.5
28	6.8	6.7	6.7	6.5	6.3	6.4	6.8	6.2	6.5	6.9	6.5	6.7
29	6.8	6.4	6.6	6.6	6.4	6.5	---	---	---	6.5	6.0	6.3
30	6.7	6.4	6.6	6.6	6.5	6.6	6.5	6.1	6.3	6.7	6.2	6.5
31	---	---	---	6.7	6.4	6.6	6.5	5.9	6.1	---	---	---
MONTH	6.8	6.1	---	7.0	5.9	6.5	7.2	5.9	6.6	7.1	5.6	6.5



DATE	TIME	INSTANTANEOUS DIS- CHARGE (CFS)	STAGE (FT ABOVE DATUM)	SAMPLE TREAT- MENT	TEMPER- ATURE (DEG C)	SPE- CIFIC CON- DUCT- ANCE (MICRO- MHOS)	PH	DIS- SOLVED OXYGEN (MG/L)	BIO- CHEM- ICAL OXYGEN DEMAND 5 DAY (MG/L)	TOTAL NITRITE (N) (MG/L)	DIS- SOLVED NITRITE (N) (MG/L)
01407828 - MANASQUAN R TR 11 NR ADELPHIA NJ (LAT 40 13 16 LONG 074 16 48)											
OCT., 1973											
09...	1030	--	-6.90	--	14.8	156	6.6	12.0	1.2	.03	--
10...	1045	--	-6.91	--	16.0	156	6.8	12.2	1.1	.03	--
11...	0945	--	-6.89	--	13.2	157	6.7	11.4	1.7	.03	--
MAR., 1974											
01...	1320	--	--	--	9.2	--	--	9.7	4.8	--	--

MAR., 1974									
01...	1015	56	--	--	--	--	--	--	--
01...	1245	72	--	--	--	--	--	--	--
01...	1310	--	--	6.1	--	11.5	2.5	--	--
21...	1445	620	--	10.8	--	--	--	--	--
APR.									
04...	1600	77	--	10.0	--	--	--	--	--
05...	0830	44	--	13.0	--	--	--	--	--
09...	1515	162	--	7.6	--	--	--	--	--
JULY									
30...	1145	1.5	--	24.0	--	--	--	--	--
AUG.									
07...	1200	98	--	19.0	--	--	--	--	--
07...	1445	94	--	19.0	--	--	--	--	--
22...	0830	4.8	--	20.0	--	--	--	--	--
SEP.									
27...	0945	6.8	--	13.8	--	--	--	--	--

[illegible]

## MANASQUAN RIVER BASIN

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## ANALYSES OF SAMPLES COLLECTED AT WATER-QUALITY PARTIAL-RECORD STATIONS--Continued

## SUSPENDED-SEDIMENT DISCHARGE MEASUREMENTS, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DATE	TIME	TEMPER- ATURE (DEG C)	INSTAN- TANEOUS DIS- CHARGE (CFS)	SUS- PENDE SED- IMENT (MG/L)	SUS- PENDE SED- IMENT (T/DAY)	SUS. SED. FALL DIAM. % FINER THAN .004 MM	SUS. SED. FALL DIAM. % FINER THAN .008 MM
01407830 - MANASQUAN R NR GEORGIA NJ (LAT 40 12 36 LONG 074 16 41)							
MAR., 1974							
01...	1015	--	56	58	8.8	--	--
01...	1245	--	72	97	19	--	--
21...	1445	10.8	620	131	219	42	50
APR.							
04...	1600	10.0	77	103	21	--	--
05...	0830	13.0	44	47	5.6	--	--
09...	1515	7.6	162	126	55	--	--
JULY							
30...	1145	24.0	1.5	51	.21	--	--
AUG.							
07...	1200	19.0	98	106	28	--	--
07...	1445	19.0	94	82	21	--	--
22...	0830	20.0	4.8	58	.75	--	--
SEP.							
27...	0945	13.8	6.8	19	.35	--	--

DATE	SUS. SED. FALL DIAM. % FINER THAN .016 MM	SUS. SED. FALL DIAM. % FINER THAN .031 MM	SUS. SED. FALL DIAM. % FINER THAN .062 MM	SUS. SED. FALL DIAM. % FINER THAN .125 MM	SUS. SED. FALL DIAM. % FINER THAN .250 MM	SUS. SED. FALL DIAM. % FINER THAN .500 MM	SUS. SED. FALL DIAM. % FINER THAN 1.00 MM
------	---	---	---	---	---	---	---

## 01407830 - MANASQUAN R NR GEORGIA NJ (LAT 40 12 36 LONG 074 16 41)

MAR., 1974							
01...	--	--	--	--	--	--	--
01...	--	--	--	--	--	--	--
21...	58	64	69	73	83	98	100
APR.							
04...	--	--	--	--	--	--	--
05...	--	--	--	--	--	--	--
09...	--	--	--	--	--	--	--
JULY							
30...	--	--	--	--	--	--	--
AUG.							
07...	--	--	--	--	--	--	--
07...	--	--	--	--	--	--	--
22...	--	--	--	--	--	--	--
SEP.							
27...	--	--	--	--	--	--	--

DATE	TIME	INSTAN- TANEOUS DIS- CHARGE (CFS)	STAGE (FT ABOVE DATUM)	SAMPLE TREAT- MENT	TEMPER- ATURE (DEG C)	SPE- CIFIC CON- DUCT- ANCE (MICRO- MHOS)	PH (UNITS)	DIS- SOLVED OXYGEN (MG/L)	BIO- CHEM- ICAL OXYGEN DEMAND 5 DAY (MG/L)	TOTAL NITRITE (N) (MG/L)	DIS- SOLVED NITRITE (N) (MG/L)
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## 01407836 - DEBOIS C NR FREEHOLD NJ (LAT 40 13 54 LONG 074 15 35)

OCT., 1973											
09...	1200	--	-8.55	--	21.0	326	6.9	1.2	15	.01	--
10...	1100	--	-8.52	--	21.5	239	6.5	.8	>38	.01	--
11...	1045	--	-8.56	--	20.0	395	6.8	.8	>83	.01	--
24...	0600	--	--	--	15.8	--	--	1.2	--	--	--
24...	0920	--	-8.55	--	18.0	--	--	1.1	--	--	--
24...	1205	--	--	--	20.5	--	--	.9	--	--	--
24...	1520	--	--	--	22.4	--	--	.8	--	--	--
24...	1810	--	-8.62	--	21.5	--	--	.6	--	--	--
24...	2055	--	--	--	19.8	--	--	.4	--	--	--
24...	2300	--	--	--	19.2	--	--	.6	--	--	--
25...	0240	--	--	--	19.3	--	--	.6	--	--	--
25...	0610	--	--	--	19.6	--	--	.7	--	--	--
25...	0930	--	-8.61	--	19.7	--	--	.8	--	--	--
MAR., 1974											
01...	1200	--	--	--	12.0	--	--	3.0	23	--	--

## 01407839 - DEBOIS C TR AT KOENIG LANE AT FREEHOLD NJ (LAT 40 14 17 LONG 074 16 02)

OCT., 1973											
09...	1230	--	-4.60	--	16.3	149	7.2	9.2	1.9	.24	--
10...	1130	--	-4.58	--	15.7	149	6.9	9.4	1.9	.02	.02
11...	1115	--	-4.58	--	13.5	149	6.9	9.8	2.8	.02	--

## MANASQUAN RIVER BASIN

## ANALYSES OF SAMPLES COLLECTED AT WATER-QUALITY PARTIAL-RECORD STATIONS--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DATE	TOTAL NITRATE (N) (MG/L)	DIS- SOLVED NITRATE (N) (MG/L)	TOTAL KJEL- DAHL NITRO- GEN (N) (MG/L)	AMMONIA NITRO- GEN (N) (MG/L)	DIS- SOLVED AMMONIA NITRO- GEN (N) (MG/L)	ORGANIC NITRO- GEN (N) (MG/L)	TOTAL NITRO- GEN (N) (MG/L)	TOTAL PHOS- PHORUS (P) (MG/L)	TOTAL ORTHO PHOS- PHORUS (P) (MG/L)	DIS- SOLVED ORTHO. PHOS- PHORUS (P) (MG/L)	TOTAL ORGANIC CARBON (C) (MG/L)
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## 01407836 - DEBOIS C NR FREEHOLD NJ (LAT 40 13 54 LONG 074 15 35)

OCT., 1973											
09...	.00	--	4.7	3.8	--	.90	4.7	1.6	.99	.98	19
10...	.01	--	2.6	.25	--	2.4	2.6	2.2	.36	.36	21
11...	.00	--	3.9	2.9	--	1.0	3.9	1.2	.29	.29	19
24...	--	--	--	--	--	--	--	--	--	--	--
24...	--	--	--	--	--	--	--	--	--	--	--
24...	--	--	--	--	--	--	--	--	--	--	--
24...	--	--	--	--	--	--	--	--	--	--	--
24...	--	--	--	--	--	--	--	--	--	--	--
24...	--	--	--	--	--	--	--	--	--	--	--
24...	--	--	--	--	--	--	--	--	--	--	--
25...	--	--	--	--	--	--	--	--	--	--	--
25...	--	--	--	--	--	--	--	--	--	--	--
25...	--	--	--	--	--	--	--	--	--	--	--
MAR., 1974	--	--	--	--	--	--	--	--	--	--	--
01...	--	--	--	--	--	--	--	--	--	--	--

## 01407839 - DEBOIS C TR AT KOENIG LANE AT FREEHOLD NJ (LAT 40 14 17 LONG 074 16 02)

OCT., 1973											
09...	.50	--	.35	.06	--	.29	1.1	.07	.02	.02	2.7
10...	.70	.69	.42	.12	.12	.30	1.1	.10	.02	.01	3.3
11...	.62	--	.22	.08	--	.14	.86	.08	.02	.02	3.5

DATE	TIME	INSTAN- TANEOUS DIS- CHARGE (CFS)	STAGE (FT ABOVE DATUM)	SAMPLE TREAT- MENT	TEMPER- ATURE (DEG C)	SPE- CIFIC CON- DUCT- ANCE (MICRO- MHOS)	PH (UNITS)	DIS- SOLVED OXYGEN (MG/L)	BIO- CHEM- ICAL OXYGEN DEMAND 5 DAY (MG/L)	TOTAL NITRITE (N) (MG/L)	DIS- SOLVED NITRITE (N) (MG/L)
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## 01407862 - DEBOIS C AT WYCKOFF MILLS NJ (LAT 40 12 33 LONG 074 16 08)

OCT., 1973											
09...	1130	--	-.57	--	17.8	449	6.6	2.6	4.8	.01	--
10...	1015	--	-.46	--	18.2	486	6.3	3.6	15	.01	--
11...	1015	--	-.47	--	17.2	544	6.8	2.2	17	.02	--
24...	0540	--	--	--	13.8	--	--	4.7	--	--	--
24...	0825	--	--	--	13.9	--	--	1.7	--	--	--
24...	1250	--	--	--	16.2	--	--	1.7	--	--	--
24...	1510	--	-.49	--	17.5	--	--	1.3	--	--	--
24...	1800	--	-.51	--	18.4	--	--	1.1	--	--	--
24...	2045	--	--	--	17.4	--	--	.6	--	--	--
24...	2245	--	--	--	16.8	--	--	.9	--	--	--
25...	0225	--	--	--	15.5	--	--	1.0	--	--	--
25...	0600	--	--	--	15.9	--	--	1.1	--	--	--
25...	0855	--	-.45	--	15.8	--	--	1.1	17	--	--
MAR., 1974											
01...	1200	29	--	--	--	--	--	--	--	--	--
01...	1245	--	--	--	8.5	--	--	6.6	15	--	--
21...	1515	200	--	--	11.3	--	--	--	--	--	--
APR.											
04...	1600	46	--	--	17.0	--	--	--	--	--	--
05...	0845	23	--	--	15.0	--	--	--	--	--	--
09...	1700	66	--	--	7.8	--	--	--	--	--	--
JULY											
30...	1215	11	--	--	24.0	--	--	--	--	--	--
AUG.											
07...	1230	38	--	--	21.5	--	--	--	--	--	--
07...	1430	38	--	--	21.0	--	--	--	--	--	--
22...	0820	11	--	--	23.0	--	--	--	--	--	--
SEP.											
27...	1005	9.0	--	--	15.8	--	--	--	--	--	--

## MANASQUAN RIVER BASIN

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## ANALYSES OF SAMPLES COLLECTED AT WATER-QUALITY PARTIAL-RECORD STATIONS--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DATE	TOTAL NITRATE (N) (MG/L)	DIS- SOLVED NITRATE (N) (MG/L)	TOTAL KJEL- DAHL- NITRO- GEN (N) (MG/L)	AMMONIA NITRO- GEN (N) (MG/L)	DIS- SOLVED AMMONIA NITRO- GEN (N) (MG/L)	ORGANIC NITRO- GEN (N) (MG/L)	TOTAL NITRO- GEN (N) (MG/L)	TOTAL PHOS- PHORUS (P) (MG/L)	TOTAL ORTHO PHOS- PHORUS (P) (MG/L)	DIS- SOLVED ORTHO- PHOS- PHORUS (P) (MG/L)	TOTAL ORGANIC CARBON (C) (MG/L)
01407862 - DEBOIS C AT WYCKOFF MILLS NJ (LAT 40 12 33 LONG 074 16 08)											
OCT.. 1973											
09...	.12	--	5.2	4.9	--	.30	5.3	1.1	.41	.42	10
10...	.10	--	5.0	3.0	--	2.0	5.1	1.5	.45	.46	13
11...	.08	--	.49	4.5	--	--	.59	.99	.27	.27	13
24...	--	--	--	--	--	--	--	--	--	--	--
24...	--	--	--	--	--	--	--	--	--	--	--
24...	--	--	--	--	--	--	--	--	--	--	--
24...	--	--	--	--	--	--	--	--	--	--	--
24...	--	--	--	--	--	--	--	--	--	--	--
24...	--	--	--	--	--	--	--	--	--	--	--
25...	--	--	--	--	--	--	--	--	--	--	--
25...	--	--	--	--	--	--	--	--	--	--	--
25...	--	--	--	--	--	--	--	--	--	--	--
MAR.. 1974											
01...	--	--	--	--	--	--	--	--	--	--	--
01...	--	--	--	--	--	--	--	--	--	--	--
21...	--	--	--	--	--	--	--	--	--	--	--
APR..											
04...	--	--	--	--	--	--	--	--	--	--	--
05...	--	--	--	--	--	--	--	--	--	--	--
09...	--	--	--	--	--	--	--	--	--	--	--
JULY											
30...	--	--	--	--	--	--	--	--	--	--	--
AUG..											
07...	--	--	--	--	--	--	--	--	--	--	--
07...	--	--	--	--	--	--	--	--	--	--	--
22...	--	--	--	--	--	--	--	--	--	--	--
SEP..											
27...	--	--	--	--	--	--	--	--	--	--	--

## SUSPENDED-SEDIMENT DISCHARGE, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DATE	TIME	TEMPER- ATURE (DEG C)	INSTAN- TANEOUS DIS- CHARGE (CFS)	SUS- PENDE SED- MENT DIS- CHARGE (MG/L)	SUS- PENDE SED- MENT DIS- CHARGE (T/DAY)
01407862 - DEBOIS C AT WYCKOFF MILLS NJ (LAT 40 12 33 LONG 074 16 08)					
MAR.. 1974					
01...	1200	--	29	16	1.3
21...	1515	11.3	200	397	214
APR..					
04...	1600	17.0	46	119	15
05...	0845	15.0	23	25	1.6
09...	1700	7.8	66	88	16
JULY					
30...	1215	24.0	11	38	1.1
AUG..					
07...	1230	21.5	38	90	9.2
07...	1430	21.0	38	57	5.8
22...	0820	23.0	11	43	1.3
SEP..					
27...	1005	15.8	9.0	16	.39

## WATER QUALITY DATA, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

[illegible]

DATE	TIME	INSTANTANEOUS DIS- CHARGE	STAGE (FT ABOVE DATUM)	SAMPLE TREAT- MENT	TEMPER- ATURE (DEG C)	SPE- CIFIC CON- DUCT- ANCE (MICRO- MHOS)	PH  (UNITS)	DIS- SOLVED OXYGEN (MG/L)	BIO- CHEM- ICAL OXYGEN DEMAND 5 DAY (MG/L)	TOTAL NITRITE (N) (MG/L)	DIS- SOLVED NITRITE (N) (MG/L)
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OCT., 1973									
09...	1100	--	--	14.0	283	6.5	5.4	4.1	.02
10...	1100	--	--	14.0	302	6.5	5.4	3.0	.00
11...	1030	--	--	15.0	292	6.6	5.2	4.7	.00
24...	0620	--	--	10.5	--	--	5.8	--	--
24...	0945	--	--	11.0	--	--	5.8	--	--
24...	1300	--	--	12.7	--	--	5.7	--	--
24...	1530	--	--	13.4	--	--	5.6	--	--
24...	1830	--	--	12.9	--	--	4.8	--	--
24...	2105	--	--	12.8	--	--	4.1	--	--
24...	2320	--	--	12.5	--	--	3.5	--	--
25...	0300	--	--	12.5	--	--	3.4	--	--
25...	0625	--	--	12.5	--	--	3.4	--	--
25...	0950	--	--	12.5	--	--	4.3	5.9	--
MAR., 1974									
01...	1140	--	--	6.2	--	--	9.4	2.4	--
MAY									
25...	0225	--	--	17.5	--	--	5.3	--	--
25...	0505	--	--	16.8	--	--	6.0	--	--
25...	0620	--	--	17.0	--	--	6.4	--	--
25...	0750	--	--	16.0	--	--	6.6	--	--
25...	0900	--	--	16.0	--	--	6.0	--	--
25...	1010	--	--	16.3	--	--	6.5	--	--
25...	1135	--	--	16.9	--	--	6.4	--	--
25...	1315	--	--	17.0	--	--	6.0	--	--
25...	1455	--	--	17.2	--	--	6.2	--	--
25...	1625	--	--	17.3	--	--	6.2	--	--
25...	1700	--	--	17.2	--	--	5.8	--	--
25...	1930	--	--	17.2	--	--	5.5	--	--
25...	2110	--	--	17.0	--	--	5.1	--	--
25...	2305	--	--	16.8	--	--	4.8	--	--
26...	0050	--	--	16.2	--	--	4.6	--	--
AUG.									
16...	2005	--	--	20.3	--	--	4.8	--	--
16...	2200	--	--	20.2	--	--	3.8	--	--
16...	2340	--	--	20.0	--	--	3.2	--	--
17...	0110	--	--	20.1	--	--	2.6	--	--
17...	0240	--	--	20.0	--	--	2.5	--	--
17...	0425	--	--	20.0	--	--	2.6	--	--
17...	0550	--	--	20.0	--	--	2.9	--	--

DATE	TOTAL NITRATE (N) (MG/L)	DIS- SOLVED NITRATE (N) (MG/L)	TOTAL KJEL- DAHL NITRO- GEN (N) (MG/L)	AMMONIA NITRO- GEN (N) (MG/L)	DIS- SOLVED AMMONIA NITRO- GEN (N) (MG/L)	ORGANIC NITRO- GEN (N) (MG/L)	TOTAL NITRO- GEN (N) (MG/L)	TOTAL PHOS- PHORUS (P) (MG/L)	TOTAL ORTHO PHOS- PHORUS (P) (MG/L)	DIS- SOLVED ORTHO PHOS- PHORUS (P) (MG/L)	TOTAL ORGANIC CARBON (C) (MG/L)
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[illegible]



## MANASQUAN RIVER BASIN

ANALYSES OF SAMPLES COLLECTED AT WATER-QUALITY PARTIAL-RECORD STATIONS--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DATE	TIME	INSTAN- TANEOUS DIS- CHARGE (CFS)	STAGE (FT ABOVE DATUM)	SAMPLE TREAT- MENT	TEMPER- ATURE (DEG C)	SPE- CIFIC CON- DUCT- ANCE (MICRO- MHOS)	PH  (UNITS)	DIS- SOLVED OXYGEN (MG/L)	BIO- CHEM- ICAL OXYGEN DEMAND 5 DAY (MG/L)	TOTAL NITRITE (N) (MG/L)	DIS- SOLVED NITRITE (N) (MG/L)
01407900 - MANASQUAN R AT WEST FARMS NJ (LAT 40 11 34 LONG 074 11 44)											
DEC., 1973											
21...	1445	1080	--	--	9.1	--	--	--	--	--	--
MAR., 1974											
01...	1115	130	--	--	--	--	--	--	--	--	--
01...	1130	--	--	--	6.2	--	--	9.7	1.7	--	--
01...	1440	100	--	--	--	--	--	--	--	--	--
21...	1415	143	--	--	9.4	--	--	--	--	--	--
21...	1630	280	--	--	9.5	--	--	--	--	--	--
APR.											
04...	1345	148	--	--	14.3	--	--	--	--	--	--
04...	1530	180	--	--	14.7	--	--	--	--	--	--
05...	0900	107	--	--	13.5	--	--	--	--	--	--
09...	1430	760	--	--	7.5	--	--	--	--	--	--
MAY											
25...	0210	--	--	--	17.0	--	--	5.9	--	--	--
25...	0515	--	--	--	16.8	--	--	6.5	--	--	--
25...	0625	--	--	--	16.5	--	--	7.1	--	--	--
25...	0740	--	--	--	16.2	--	--	6.8	--	--	--
25...	0910	--	--	--	16.0	--	--	6.9	--	--	--
25...	1020	--	--	--	16.3	--	--	6.9	--	--	--
25...	1145	--	--	--	16.8	--	--	6.9	--	--	--
25...	1325	--	--	--	17.0	--	--	6.6	--	--	--
25...	1505	--	--	--	17.2	--	--	6.9	--	--	--
25...	1640	--	--	--	17.2	--	--	6.8	--	--	--
25...	1710	--	--	--	17.0	--	--	6.6	--	--	--
25...	1940	--	--	--	16.9	--	--	6.5	--	--	--
25...	2125	--	--	--	16.5	--	--	6.1	--	--	--
25...	2320	--	--	--	16.0	--	--	6.0	--	--	--
26...	0105	--	--	--	16.0	--	--	5.6	--	--	--
JULY											
30...	1300	66	--	--	22.0	--	--	--	--	--	--
AUG.											
07...	1240	150	--	--	19.0	--	--	--	--	--	--
07...	1415	150	--	--	19.0	--	--	--	--	--	--
16...	1955	--	--	--	20.2	--	--	5.9	--	--	--
16...	2150	--	--	--	19.8	--	--	5.7	--	--	--
16...	2330	--	--	--	19.4	--	--	5.4	--	--	--
17...	0100	--	--	--	19.1	--	--	5.2	--	--	--
17...	0230	--	--	--	19.2	--	--	4.6	--	--	--
17...	0415	--	--	--	19.2	--	--	4.3	--	--	--
17...	0540	--	--	--	19.2	--	--	4.0	--	--	--

## ANALYSES OF SAMPLES COLLECTED AT WATER-QUALITY PARTIAL-RECORD STATIONS--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DATE	TIME	INSTAN- TANEOUS DIS- CHARGE (CFS)	STAGE (FT ABOVE DATUM)	SAMPLE TREAT- MENT	TEMPER- ATURE (DEG C)	SPE- CIFIC CON- DUCT- ANCE (MICRO- MHOS)	PH (UNITS)	DIS- SOLVED OXYGEN (MG/L)	BIO- CHEM- ICAL OXYGEN DEMAND 5 DAY (MG/L)	TOTAL NITRITE (N) (MG/L)	DIS- SOLVED NITRITE (N) (MG/L)	
01407900 - MANASQUAN R AT WEST FARMS NJ (LAT 40 11 34 LONG 074 11 44)												
AUG., 1974												
22...	0915	70	--	--	19.0	--	--	--	--	--	--	
SEP.												
27...	1035	72	--	--	14.3	--	--	--	--	--	--	
01407910 - MANASQUAN R AT FARMINGDALE NJ (LAT 40 11 02 LONG 074 10 38)												
OCT., 1973												
09...	1200	--	-2.46	--	14.0	252	6.8	7.0	3.6	.02	--	
10...	1145	--	-2.45	--	14.0	265	6.9	6.9	2.6	.03	--	
11...	1115	--	-2.48	--	13.5	253	6.8	6.5	3.7	.00	--	
24...	0655	--	--	--	9.8	--	--	7.5	--	--	--	
24...	1100	--	-2.44	--	10.9	--	--	7.6	--	--	--	
24...	1350	--	--	--	11.9	--	--	7.9	--	--	--	
24...	1625	--	--	--	12.3	--	--	7.6	--	--	--	
24...	1940	--	-2.42	--	12.0	--	--	7.0	--	--	--	
24...	2155	--	--	--	11.0	--	--	5.8	--	--	--	
24...	2340	--	--	--	11.8	--	--	6.5	--	--	--	
25...	0320	--	--	--	11.5	--	--	6.0	--	--	--	
25...	0645	--	--	--	11.7	--	--	5.8	--	--	--	
25...	1020	--	-2.43	--	12.0	--	--	5.9	8.3	--	--	
MAR., 1974												
01...	1050	--	--	--	6.4	--	--	10.1	2.0	--	--	
AUG.												
16...	1940	--	--	--	20.8	--	--	6.9	--	--	--	
16...	2140	--	--	--	20.0	--	--	6.7	--	--	--	
16...	2320	--	--	--	19.8	--	--	6.4	--	--	--	
17...	0050	--	--	--	19.5	--	--	6.3	--	--	--	
17...	0220	--	--	--	19.2	--	--	6.2	--	--	--	
17...	0405	--	--	--	19.1	--	--	6.0	--	--	--	
17...	0530	--	--	--	19.0	--	--	5.9	--	--	--	
01407988 - MARSH BOG BK NR SHACKS CORNER NJ (LAT 40 12 52 LONG 074 10 55)												
OCT., 1973												
09...	1125	--	--	--	13.9	72	4.3	4.4	1.5	.00	--	
10...	1120	--	--	--	13.7	71	4.3	4.8	1.8	.00	--	
11...	1115	--	--	--	13.8	70	4.3	3.5	2.4	.00	--	
DATE		TOTAL NITRATE (N) (MG/L)	DIS- SOLVED NITRATE (N) (MG/L)	TOTAL KJEL- DAHL NITRO- GEN (N) (MG/L)	AMMONIA NITRO- GEN (N) (MG/L)	DIS- SOLVED AMMONIA NITRO- GEN (N) (MG/L)	ORGANIC NITRO- GEN (N) (MG/L)	TOTAL NITRO- GEN (N) (MG/L)	TOTAL PHOS- PHORUS (P) (MG/L)	TOTAL ORTHO PHOS- PHORUS (P) (MG/L)	DIS- SOLVED ORTHO PHOS- PHORUS (P) (MG/L)	TOTAL ORGANIC CARBON (C) (MG/L)
01407900 - MANASQUAN R AT WEST FARMS NJ (LAT 40 11 34 LONG 074 11 44)												
AUG., 1974												
22...	--	--	--	--	--	--	--	--	--	--	--	--
SEP.												
27...	--	--	--	--	--	--	--	--	--	--	--	--
01407910 - MANASQUAN R AT FARMINGDALE NJ (LAT 40 11 02 LONG 074 10 38)												
OCT., 1973												
09...	.31	--	2.0	2.0	--	.00	2.3	.40	.03	.04	4.1	
10...	.30	--	.98	.26	--	.72	1.3	.21	.08	.08	5.0	
11...	2.2	--	1.3	.01	--	1.3	3.5	.24	.04	.04	4.1	
24...	--	--	--	--	--	--	--	--	--	--	--	
24...	--	--	--	--	--	--	--	--	--	--	--	
24...	--	--	--	--	--	--	--	--	--	--	--	
24...	--	--	--	--	--	--	--	--	--	--	--	
24...	--	--	--	--	--	--	--	--	--	--	--	
24...	--	--	--	--	--	--	--	--	--	--	--	
24...	--	--	--	--	--	--	--	--	--	--	--	
24...	--	--	--	--	--	--	--	--	--	--	--	
25...	--	--	--	--	--	--	--	--	--	--	--	
25...	--	--	--	--	--	--	--	--	--	--	--	
25...	--	--	--	--	--	--	--	--	--	--	--	
MAR., 1974												
01...	--	--	--	--	--	--	--	--	--	--	--	
AUG.												
16...	--	--	--	--	--	--	--	--	--	--	--	
16...	--	--	--	--	--	--	--	--	--	--	--	
16...	--	--	--	--	--	--	--	--	--	--	--	
17...	--	--	--	--	--	--	--	--	--	--	--	
17...	--	--	--	--	--	--	--	--	--	--	--	
17...	--	--	--	--	--	--	--	--	--	--	--	
17...	--	--	--	--	--	--	--	--	--	--	--	
01407988 - MARSH BOG BK NR SHACKS CORNER NJ (LAT 40 12 52 LONG 074 10 55)												
OCT., 1973												
09...	.01	--	.40	.29	--	.11	.41	.15	.04	--	10	
10...	.00	--	.21	.07	--	.14	.21	.07	.01	.00	6.5	
11...	.03	--	.51	.29	--	.22	.54	.15	.01	.01	12	

SUSPENDED-SEDIMENT DISCHARGE, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

[illegible]

## WATER QUALITY DATA, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

01408009 - MINGAMAHONE BK NR EARLE NJ (LAT 40 12 45 LONG 074 10 07)											
OCT., 1973											
09...	1110	--	--	--	13.0	122	7.4	8.6	1.0	.00	--
10...	1105	--	--	--	13.3	122	7.0	8.6	.9	.00	--
11...	1100	--	--	--	13.1	125	6.8	8.6	2.1	.00	--

01408009 - MINGAMAHONE BK NR EARLE NJ (LAT 40 12 45 LONG 074 10 07)										
OCT., 1973										
09...	.04	--	.15	.11	--	.04	.19	.09	.02	.03
10...	.01	--	.13	.04	--	.09	.14	.09	.02	.01
11...	.04	--	.13	.00	--	.13	.17	.11	.02	.01

## MANASQUAN RIVER BASIN

## ANALYSES OF SAMPLES COLLECTED AT WATER-QUALITY PARTIAL-RECORD STATIONS--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DATE	TOTAL NITRATE (N) (MG/L)	DIS- SOLVED NITRATE (N) (MG/L)	TOTAL KJEL- DAHL- NITRO- GEN (N) (MG/L)	AMMONIA NITRO- GEN (N) (MG/L)	DIS- SOLVED AMMONIA NITRO- GEN (N) (MG/L)	ORGANIC NITRO- GEN (N) (MG/L)	TOTAL NITRO- GEN (N) (MG/L)	TOTAL PHOS- PHORUS (P) (MG/L)	TOTAL ORTHO PHOS- PHORUS (P) (MG/L)	DIS- SOLVED ORTHO PHOS- PHORUS (P) (MG/L)	TOTAL ORGANIC CARBON (C) (MG/L)
01408014 - MINGAMAHONE BK AT ASBURY AV AT FARMINGDALE NJ (LAT 40 12 00 LONG 074 09 56)											
OCT., 1973											
09...	.03	--	18	.18	--	18	18	.07	.01	.01	2.5
10...	.04	--	.15	.15	--	.00	.19	.05	.02	.01	2.9
11...	.03	--	.10	.10	--	.00	.13	.05	.02	.02	3.1
01408015 - MINGAMAHONE BK AT FARMINGDALE NJ (LAT 40 11 38 LONG 074 09 42)											
MAR., 1974											
01...	--	--	--	--	--	--	--	--	--	--	--
01...	--	--	--	--	--	--	--	--	--	--	--
01...	--	--	--	--	--	--	--	--	--	--	--
21...	--	--	--	--	--	--	--	--	--	--	--
21...	--	--	--	--	--	--	--	--	--	--	--
APR.											
04...	--	--	--	--	--	--	--	--	--	--	--
05...	--	--	--	--	--	--	--	--	--	--	--
JULY											
30...	--	--	--	--	--	--	--	--	--	--	--
AUG.											
07...	--	--	--	--	--	--	--	--	--	--	--
07...	--	--	--	--	--	--	--	--	--	--	--
22...	--	--	--	--	--	--	--	--	--	--	--
SEP.											
27...	--	--	--	--	--	--	--	--	--	--	--

DATE	TIME	INSTAN- TANEOUS DIS- CHARGE (CFS)	STAGE (FT ABOVE DATUM)	SAMPLE TREAT- MENT	TEMPER- ATURE (DEG C)	SPE- CIFIC CON- DUCT- ANCE (MICRO- MHOS)	PH (UNITS)	DIS- SOLVED OXYGEN (MG/L)	BIO- CHEM- ICAL OXYGEN DEMAND 5 DAY (MG/L)	TOTAL NITRATE (N) (MG/L)	DIS- SOLVED NITRITE (N) (MG/L)
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01408014 - MINGAMAHONE BK AT ASBURY AV AT FARMINGDALE NJ (LAT 40 12 00 LONG 074 09 56)											
OCT., 1973											
09...	1035	--	--	--	13.5	151	7.3	9.6	.8	.00	--
10...	1035	--	--	--	13.4	149	7.2	9.8	1.2	.00	--
11...	1035	--	--	--	13.3	151	7.3	9.7	1.4	.00	--
01408015 - MINGAMAHONE BK AT FARMINGDALE NJ (LAT 40 11 38 LONG 074 09 42)											
MAR., 1974											
01...	1105	--	--	--	4.2	--	--	11.2	1.1	--	--
01...	1130	29	--	--	--	--	--	--	--	--	--
01...	1505	31	--	--	--	--	--	--	--	--	--
21...	1400	37	--	--	9.2	--	--	--	--	--	--
21...	1615	51	--	--	9.2	--	--	--	--	--	--
APR.											
04...	1300	31	--	--	13.3	--	--	--	--	--	--
05...	0930	34	--	--	13.8	--	--	--	--	--	--
JULY											
30...	1340	1.6	--	--	21.5	--	--	--	--	--	--
AUG.											
07...	1300	26	--	--	18.0	--	--	--	--	--	--
07...	1400	26	--	--	18.0	--	--	--	--	--	--
22...	0930	2.7	--	--	18.5	--	--	--	--	--	--
SEP.											
27...	1050	6.4	--	--	13.2	--	--	--	--	--	--

## SUSPENDED-SEDIMENT DISCHARGE, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DATE	TIME	TEMPER- ATURE (DEG C)	INSTAN- TANEOUS DIS- CHARGE (CFS)	SUS- PENDE D SED- IMENT DIS- CHARGE (MG/L)	SUS- PENDE D SED- IMENT DIS- CHARGE (T/DAY)
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01408015 - MINGAMAHONE BK AT FARMINGDALE NJ (LAT 40 11 38 LONG 074 09 42)

## WATER QUALITY DATA, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

[illegible]



## MANASOUAN RIVER BASIN

ANALYSES OF SAMPLES COLLECTED AT WATER-QUALITY PARTIAL-RECORD STATIONS--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DATE	TIME	INSTANTANEOUS DIS- CHARGE (CFS)	STAGE (FT ABOVE DATUM)	SAMPLE TREAT- MENT	TEMPER- ATURE (DEG C)	SPE- CIFIC CON- DUCT- ANCE (MICRO- MHOS)	PH  (UNITS)	DIS- SOLVED OXYGEN (MG/L)	BIO- CHEM- ICAL OXYGEN DEMAND 5 DAY (MG/L)	TOTAL NITRITE (N) (MG/L)	DIS- SOLVED NITRITE (N) (MG/L)
01408020 - MINGAMAHONE BK AT SQUANKUM NJ (LAT 40 09 56 LONG 074 09 01)											
OCT., 1973											
09...	0915	--	-2.58	--	13.5	152	7.1	9.6	1.1	.01	--
10...	0920	--	-2.56	--	13.3	151	7.2	10.3	.9	.00	--
11...	0925	--	-2.56	--	13.9	151	7.2	10.0	1.9	.00	--
24...	0710	--	--	--	7.5	--	--	11.5	--	--	--
24...	1035	--	--	--	9.3	--	--	11.4	--	--	--
24...	1330	--	--	--	11.8	--	--	12.0	--	--	--
24...	1555	--	--	--	12.2	--	--	11.7	--	--	--
24...	1910	--	--	--	11.2	--	--	7.0	--	--	--
24...	2130	--	--	--	9.8	--	--	9.8	--	--	--
24...	2355	--	--	--	9.5	--	--	10.1	--	--	--
25...	0340	--	--	--	9.9	--	--	9.7	--	--	--
25...	0710	--	--	--	10.1	--	--	9.8	--	--	--
25...	1050	--	-2.50	--	11.3	--	--	10.3	--	--	--
MAR., 1974											
01...	0955	--	--	--	4.3	--	--	12.0	1.2	--	--
MAY											
25...	0040	--	--	--	16.5	--	--	8.8	--	--	--
25...	0420	--	--	--	16.0	--	--	9.3	--	--	--
25...	0545	--	--	--	16.0	--	--	9.3	--	--	--
25...	0650	--	--	--	15.9	--	--	9.5	--	--	--
25...	0955	--	--	--	16.1	--	--	9.5	--	--	--
25...	1055	--	--	--	17.0	--	--	9.2	--	--	--
25...	1210	--	--	--	17.8	--	--	9.4	--	--	--
25...	1400	--	--	--	17.8	--	--	9.7	--	--	--
25...	1535	--	--	--	17.9	--	--	9.4	--	--	--
25...	1705	--	--	--	18.0	--	--	9.3	--	--	--
25...	1845	--	--	--	17.4	--	--	9.2	--	--	--
25...	2020	--	--	--	16.7	--	--	8.9	--	--	--
25...	2205	--	--	--	16.0	--	--	9.0	--	--	--
25...	2350	--	--	--	15.2	--	--	9.1	--	--	--
26...	0145	--	--	--	15.0	--	--	9.0	--	--	--

[illegible][illegible]

401104074103501 - HOWELL HIGH SCHOOL STP EFFLUENT (LAT 40 11 04 LONG 074 10 35.01)

OCT., 1973											
11...	13	--	4.3	.01	--	4.3	22	2.8	2.1	2.0	3.7

## ANALYSES OF SAMPLES COLLECTED AT WATER-QUALITY PARTIAL-RECORD STATIONS--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DATE	TIME	INSTAN- TANEOUS DIS- CHARGE (CFS)	STAGE (FT ABOVE DATUM)	SAMPLE TREAT- MENT	TEMPER- ATURE (DEG C)	SPE- CIFIC CON- DUCT- ANCE (MICRO- MHOS)	PH (UNITS)	DIS- SOLVED OXYGEN (MG/L)	BIO- CHEM- ICAL OXYGEN DEMAND 5 DAY (MG/L)	TOTAL NITRITE (N) (MG/L)	DIS- SOLVED NITRITE (N) (MG/L)	
401204074103901 - FARMINGDALE GARDENS STP EFFLUENT (LAT 40 12 04 LONG 074 10 39.01)												
OCT., 1973												
09...	1130	--	--	2	16.0	270	6.8	4.2	24	.68	--	
10...	1130	--	--	2	--	420	6.7	--	82	.01	--	
11...	1100	--	--	2	16.0	283	6.8	5.2	17	1.4	--	
401240074150001 - ADELPHIA SEWER CO STP EFFLUENT (LAT 40 12 40 LONG 074 15 00.01)												
OCT., 1973												
09...	1045	--	--	2	20.0	1950	4.2	7.9	1.0	.02	--	
10...	1015	--	--	2	20.0	1320	4.0	8.2	.8	.04	--	
11...	1045	--	--	2	20.0	1020	4.0	8.8	2.2	.00	--	
401300074155201 - SILVERMEAD STP EFFLUENT (LAT 40 13 00 LONG 074 15 52.01)												
OCT., 1973												
09...	1000	--	--	2	22.0	573	6.9	.3	42	.47	--	
10...	1015	--	--	2	22.0	588	6.7	.4	19	.49	--	
11...	0945	--	--	2	21.0	598	6.9	.4	40	.30	--	
401321074172001 - FREEHOLD SEWER CO STP EFFLUENT (LAT 40 13 21 LONG 074 17 20.01)												
OCT., 1973												
09...	1000	--	--	2	20.0	365	6.5	3.7	14	.06	--	
10...	0945	--	--	2	20.0	336	6.3	2.7	18	.01	--	
11...	0945	--	--	2	20.0	352	6.5	4.4	15	.13	--	
401410074160201 - WYNNEWOOD SEWERAGE CO STP EFFLUENT (LAT 40 14 10 LONG 074 16 02.01)												
OCT., 1973												
09...	1130	--	--	2	22.5	821	6.9	5.0	129	.01	--	
10...	1200	--	--	2	22.0	754	7.0	5.9	96	.02	--	
11...	1145	--	--	2	21.5	736	6.9	5.9	123	.01	--	
DATE		TOTAL NITRATE (N) (MG/L)	DIS- SOLVED NITRATE (N) (MG/L)	TOTAL KJEL- DAHL NITRO- GEN (N) (MG/L)	AMMONIA NITRO- GEN (N) (MG/L)	DIS- SOLVED AMMONIA NITRO- GEN (N) (MG/L)	ORGANIC NITRO- GEN (N) (MG/L)	TOTAL NITRO- GEN (N) (MG/L)	TOTAL PHOS- PHORUS (P) (MG/L)	TOTAL ORTHO PHOS- PHORUS (P) (MG/L)	DIS- SOLVED ORTHO PHOS- PHORUS (P) (MG/L)	TOTAL ORGANIC CARBON (C) (MG/L)
401204074103901 - FARMINGDALE GARDENS STP EFFLUENT (LAT 40 12 04 LONG 074 10 39.01)												
OCT., 1973												
09...	1.8	--	2.0	1.6	--	.40	4.5	.17	.05	--	6.7	
10...	.00	--	21	18	--	3.0	21	3.0	.06	--	73	
11...	3.1	--	1.5	.05	--	1.4	6.0	.26	.11	--	9.9	
401240074150001 - ADELPHIA SEWER CO STP EFFLUENT (LAT 40 12 40 LONG 074 15 00.01)												
OCT., 1973												
09...	24	--	4.4	4.4	--	.00	28	.70	.02	.02	5.1	
10...	25	--	7.8	5.9	--	1.9	33	.61	.57	--	7.3	
11...	29	--	4.6	3.7	--	.90	34	.71	.71	--	8.0	
401300074155201 - SILVERMEAD STP EFFLUENT (LAT 40 13 00 LONG 074 15 52.01)												
OCT., 1973												
09...	3.4	--	14	11	--	3.0	18	8.0	6.8	--	25	
10...	8.7	--	10	9.7	--	.30	19	7.5	6.3	--	16	
11...	22	--	13	10	--	3.0	35	6.5	5.6	--	17	
401321074172001 - FREEHOLD SEWER CO STP EFFLUENT (LAT 40 13 21 LONG 074 17 20.01)												
OCT., 1973												
09...	1.9	--	8.6	7.0	--	1.6	11	1.3	.80	.82	14	
10...	.00	--	11	9.3	--	1.7	11	1.2	.45	.46	7.4	
11...	6.5	--	9.0	3.5	--	5.5	16	1.5	.64	--	16	
401410074160201 - WYNNEWOOD SEWERAGE CO STP EFFLUENT (LAT 40 14 10 LONG 074 16 02.01)												
OCT., 1973												
09...	.01	--	38	25	--	13	38	12	11	10	100	
10...	.07	--	27	27	--	.00	27	12	10	--	--	
11...	.00	--	37	34	--	3.0	37	11	7.5	--	71	

## MANASQUAN RIVER BASIN

ANALYSES OF SAMPLES COLLECTED AT WATER-QUALITY PARTIAL-RECORD STATIONS--Continued  
 WATER QUALITY DATA, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DATE	TIME	INSTANTANEOUS DIS- CHARGE (CFS)	STAGE (FT ABOVE DATUM)	SAMPLE TREAT- MENT	TEMPER- ATURE (DEG C)	SPE- CIFIC CON- DUCT- ANCE (MICRO- MHOS)	PH (UNITS)	DIS- SOLVED OXYGEN (MG/L)	BIO- CHEM- ICAL OXYGEN DEMAND 5 DAY (MG/L)	TOTAL NITRITE (N) (MG/L)	DIS- SOLVED NITRITE (N) (MG/L)
401534074153101 - FREEHOLD BORO STP EFFLUENT (LAT 40 15 34 LONG 074 15 31.01)											
OCT., 1973											
09...	1230	--	--	2	23.0	926	7.2	.5	61	.37	--
10...	1130	--	--	2	25.0	996	6.9	.5	61	.18	--
11...	1230	--	--	2	24.0	916	7.1	.6	68	.01	--

DATE	TOTAL NITRATE (N) (MG/L)	DIS- SOLVED NITRATE (N) (MG/L)	TOTAL KJEL- DAHL NITRO- GEN (N) (MG/L)	AMMONIA NITRO- GEN (N) (MG/L)	DIS- SOLVED AMMONIA NITRO- GEN (N) (MG/L)	ORGANIC NITRO- GEN (N) (MG/L)	TOTAL NITRO- GEN (N) (MG/L)	TOTAL PHOS- PHORUS (P) (MG/L)	TOTAL ORTHO PHOS- PHORUS (P) (MG/L)	DIS- SOLVED ORTHO. PHOS- PHORUS (P) (MG/L)	TOTAL ORGANIC CARBON (C) (MG/L)
------	-----------------------------------	--	--	---	---	---	---	---	--	--	---

401534074153101 - FREEHOLD BORO STP EFFLUENT (LAT 40 15 34 LONG 074 15 31.01)

OCT., 1973											
09...	1.5	--	24	23	--	1.0	26	12	5.5	5.5	34
10...	.50	--	26	23	--	3.0	27	6.4	5.1	5.2	--
11...	.00	--	25	24	--	1.0	25	5.8	4.4	4.2	54

METEDECONK RIVER BASIN

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01408155 METEDECONK RIVER AT LAURELTON, N. J.

LOCATION.--Lat 40°03'58", long 74°08'01", Ocean County, at bridge on N.J. Route 70, in Laurelton.

DRAINAGE AREA.--71.2 mi<sup>2</sup> (184.4 km<sup>2</sup>).

PERIOD OF RECORD.--Chemical analyses: August 1969 to September 1974.

REMARKS.--Operated as part of the USGS-EPA Surveillance Network.

WATER QUALITY DATA, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DATE	TIME	DEPTH (FT)	PER- CENT OF TOTAL DEPTH	TEMPER- ATURE (DEG C)	AIR TEMPER- ATURE (DEG C)	SPE- CIFIC CON- DUCT- ANCE (MICRO- MHOS)	PH (UNITS)	DIS- SOLVED OXYGEN (MG/L)	BIO- CHEM- ICAL OXYGEN DEMAND 5 DAY (MG/L)	TUR- BID- ITY (JTU)
OCT. 30...	1430	5.0	50	14.5	9.0	118	8.9	4.8	--	10
NOV. 27...	1045	2.0	50	10.9	--	587	5.9	6.2	--	6
FEB. 14...	1115	2.0	50	4.6	3.9	474	5.8	10.3	--	5
APR. 19...	1015	2.0	50	13.4	17.1	100	5.8	8.2	--	3
MAY 17...	1115	1.5	50	20.5	29.7	98	5.6	5.6	--	5
JUNE 21...	1415	3.0	50	24.0	28.0	458	6.2	6.8	2.1	3

DATE	TOTAL NITRITE (N) (MG/L)	TOTAL NITRATE (N) (MG/L)	TOTAL KJEL- DAHL NITRO- GEN (N) (MG/L)	AMMONIA NITRO- GEN (N) (MG/L)	ORGANIC NITRO- GEN (N) (MG/L)	TOTAL NITRO- GEN (N) (MG/L)	TOTAL PHOS- PHORUS (P) (MG/L)	TOTAL ORTHO PHOS- PHORUS (P) (MG/L)	DIS- SOLVED ORTHO PHOS- PHORUS (P) (MG/L)
OCT. 30...	.00	--	.12	--	--	.12	.17	--	--
NOV. 27...	.03	1.5	.91	.93	--	2.4	.27	.19	.19
FEB. 14...	.01	1.2	1.5	1.2	.30	2.7	.20	--	.13
APR. 19...	.04	.96	.85	.00	.85	1.9	.20	.14	--
MAY 17...	.07	1.2	1.4	.66	.74	2.7	.31	.25	--
JUNE 21...	.06	1.0	.71	.22	.49	1.8	.28	.15	--

DATE	TOTAL ORGANIC CARBON (C) (MG/L)	IMME- DIATE COLI- FORM (COL. PER 100 ML)	FECAL COLI- FORM (COL. PER 100 ML)	STREP- TOCOCCI (COL- ONIES PER 100 ML)	CHLORO- PHYLL A (UG/L)	CHLORO- PHYLL B (UG/L)	DIS- SOLVED CHLO- RIDE (CL) (MG/L)	TOTAL IRON (FE) (UG/L)	TOTAL LEAD (PB) (UG/L)
OCT. 30...	16	--	3300	--	--	--	16	--	4
NOV. 27...	--	940	148	124	.0	--	150	--	3
FEB. 14...	5.0	460	14	68	.2	--	130	770	19
APR. 19...	5.3	250	12	0	.0	.0	11	--	7
MAY 17...	11	790	160	520	.0	.0	11	--	4
JUNE 21...	5.8	500	130	3040	4.2	10	130	--	1

## METEDECONK RIVER BASIN

01408155 METEDECONK RIVER AT LAURELTON, N. J.--Continued

## WATER QUALITY DATA, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DATE	ALDRIN (UG/L)	ALDRIN IN BOTTOM DE- POSITS (UG/KG)	LINDANE (UG/L)	LINDANE IN BOTTOM DE- POSITS (UG/KG)	CHLOR- DANE (UG/L)	CHLOR- DANE IN BOTTOM DE- POSITS (UG/KG)	DDD (UG/L)	DDD IN BOTTOM DE- POSITS (UG/KG)	DDE (UG/L)	DDE IN BOTTOM DE- POSITS (UG/KG)	DDT (UG/L)	DDT IN BOTTOM DE- POSITS (UG/KG)
MAY 17...	.00	11	.00	.0	.0	260	.00	35	.00	2.9	.00	5.8

DATE	DI- ELDRIN (UG/L)	DI- ELDRIN IN BOTTOM DE- POSITS (UG/KG)	ENDRIN (UG/L)	ENDRIN IN BOTTOM DE- POSITS (UG/KG)	ETHION (UG/L)	TOX- APHENE (UG/L)	TOX- APHENE IN BOTTOM DE- POSITS (UG/KG)	HEPTA- CHLOR (UG/L)	HEPTA- CHLOR IN BOTTOM DE- POSITS (UG/KG)	HEPTA- CHLOR EPOXIDE (UG/L)	HEPTA- CHLOR EPOXIDE IN BOT- TOM DE- POSITS (UG/KG)
MAY 17...	.00	5.7	.00	.0	.00	0	0	.00	.0	.00	.0

DATE	PCB (UG/L)	PCB IN BOTTOM DE- POSITS (UG/KG)	MALA- THION (UG/L)	PARA- THION (UG/L)	DI- AZINON (UG/L)	METHYL PARA- THION (UG/L)	2,4-D (UG/L)	2,4,5-T (UG/L)	SILVEX (UG/L)	TRI- THION (UG/L)	METHYL TRI- THION (UG/L)
MAY 17...	.0	150	.00	.00	.02	.00	.00	.00	.00	.00	.00

METEDECONK RIVER BASIN

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ANALYSES OF SAMPLES COLLECTED AT WATER-QUALITY PARTIAL-RECORD STATIONS  
WATER QUALITY DATA, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DATE	TIME	TEMPER- ATURE (DEG C)	SPE- CIFIC CON- DUCT- ANCE (MICRO- MHOS)	PH (UNITS)	DIS- SOLVED OXYGEN (MG/L)	TUR- BID- ITY (JTU)	COLOR (PLAT- INUM- COBALT UNITS)	TOTAL NITRITE (N) (MG/L)	DIS- SOLVED NITRITE (N) (MG/L)	TOTAL NITRATE (N) (MG/L)	
01408109 - UNNAMED TRIBUTARY AT SWAMP (HAYSTACK BK) (LAT 40 08 58 LONG 074 12 17)											
JULY, 1974											
30...	0730	17.0	92	5.6	7.8	9	1	.02	--	2.0	
SEP.											
23...	1000	17.0	94	6.4	8.3	20	1	.00	--	2.1	
01408111 - HAY STACK BK AT LANES PD RD NR SOUTHARD NJ (LAT 40 08 22 LONG 074 11 41)											
JULY, 1974											
30...	0900	20.0	331	7.1	2.3	2	8	--	.07	--	
30...	0930	20.0	287	7.1	2.3	5	10	.04	--	.26	
SEP.											
23...	0720	--	224	6.8	--	6	20	.04	--	.32	
23...	0800	15.5	205	6.8	3.5	5	--	--	.05	--	
23...	0805	15.5	202	6.8	3.5	8	30	.04	--	.35	
01408113 - HAY STACK BK AT RT 547 NR LAKEWOOD NJ (LAT 40 07 24 LONG 074 11 21)											
JULY, 1974											
30...	1030	22.0	166	6.5	3.0	5	20	.19	--	1.6	
SEP.											
23...	1700	--	120	--	--	4	30	.18	--	1.6	
23...	1808	17.0	119	6.4	4.1	4	30	.17	--	1.6	
01408116 - HAY STACK BK NR LAKEWOOD NJ (LAT 40 06 58 LONG 074 10 56)											
JULY, 1974											
30...	1115	21.3	140	6.5	4.0	4	20	.05	--	2.2	
SEP.											
23...	2025	--	117	--	--	4	30	.01	--	3.2	
23...	2241	15.8	112	6.4	5.3	5	30	.10	--	2.0	
DATE		DIS- SOLVED NITRATE (N) (MG/L)	TOTAL KJEL- DAHL NITRO- GEN (N) (MG/L)	AMMONIA NITRO- GEN (N) (MG/L)	DIS- SOLVED AMMONIA NITRO- GEN (N) (MG/L)	TOTAL ORGANIC NITRO- GEN (N) (MG/L)	TOTAL NITRO- GEN (N) (MG/L)	TOTAL PHOS- PHORUS (P) (MG/L)	TOTAL ORTHO PHOS- PHORUS (P) (MG/L)	DIS- SOLVED ORTHO PHOS- PHORUS (P) (MG/L)	TOTAL ORGANIC CARBON (C) (MG/L)
01408109 - UNNAMED TRIBUTARY AT SWAMP (HAYSTACK BK) (LAT 40 08 58 LONG 074 12 17)											
JULY, 1974											
30...	--	.43	.27	--	.16	2.4	.01	.00	--	7.8	
SEP.											
23...	--	.58	.45	--	.13	2.7	.24	.01	--	4.5	
01408111 - HAY STACK BK AT LANES PD RD NR SOUTHARD NJ (LAT 40 08 22 LONG 074 11 41)											
JULY, 1974											
30...	.23	--	--	9.0	--	--	--	--	2.8	--	
30...	--	>9.5	9.5	--	.00	9.5	3.2	2.9	--	20	
SEP.											
23...	--	>7.7	7.7	--	.00	7.5	2.6	1.8	--	13	
23...	.33	--	--	7.6	--	--	--	--	1.6	--	
23...	--	>7.8	7.8	--	.00	7.9	2.0	1.9	--	15	
01408113 - HAY STACK BK AT RT 547 NR LAKEWOOD NJ (LAT 40 07 24 LONG 074 11 21)											
JULY, 1974											
30...	--	>2.9	2.9	--	.00	3.7	1.3	1.1	--	25	
SEP.											
23...	--	>1.9	1.9	--	.00	3.5	.82	.65	--	--	
23...	--	>1.8	1.8	--	.00	3.2	.81	.62	--	13	
01408116 - HAY STACK BK NR LAKEWOOD NJ (LAT 40 06 58 LONG 074 10 56)											
JULY, 1974											
30...	--	1.1	1.1	--	.00	3.3	.87	.75	--	28	
SEP.											
23...	--	>.96	.96	--	.00	3.8	.66	.58	--	12	
23...	--	>1.0	1.0	--	.00	3.0	.67	.53	--	9.7	



## METEDECONK RIVER BASIN

## ANALYSES OF SAMPLES COLLECTED AT WATER-QUALITY PARTIAL-RECORD STATIONS--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DATE	DIS-SOLVED ORGANIC CARBON (C) (MG/L)	ALKA-LINITY AS CAC03 (MG/L)	CAR-BONATE (C03) (MG/L)	BICAR-BONATE (HC03) (MG/L)	CARBON DIOXIDE (C02) (MG/L)	TOTAL CAL-CIUM (CA) (MG/L)	TOTAL MAG-NE-SIUM (MG) (MG/L)	TOTAL SODIUM (NA) (MG/L)	TOTAL PO-TAS-SIUM (K) (MG/L)	DIS-SOLVED CHLO-RIDE (CL) (MG/L)
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## 01408109 - UNNAMED TRIBUTARY AT SWAMP (HAYSTACK BK) (LAT 40 08 58 LONG 074 12 17)

JULY, 1974										
30...	7.8	4	--	5	20	7.0	2.0	4.1	2.5	8.2
SEP.										
23...	4.4	7	--	9	5.7	6.9	5.2	4.0	2.6	8.5

## 01408111 - HAY STACK BK AT LANES PD RD NR SOUTHWARD NJ (LAT 40 08 22 LONG 074 11 41)

JULY, 1974										
30...	--	32	--	39	5.0	--	--	--	--	24
30...	10	75	--	91	12	13	2.4	26	5.2	25
SEP.										
23...	12	52	--	64	16	10	5.0	18	4.2	16
23...	--	--	--	--	--	--	--	--	--	16
23...	12	51	--	62	16	9.5	4.4	17	4.0	16

## 01408113 - HAY STACK BK AT RT 547 NR LAKEWOOD NJ (LAT 40 07 24 LONG 074 11 21)

JULY, 1974										
30...	9.9	12	0	15	7.6	7.6	3.2	14	4.1	15
SEP.										
23...	12	15	--	18	--	6.2	3.6	10	2.9	22
23...	10	13	--	16	10	5.9	3.6	9.4	2.9	12

## 01408116 - HAY STACK BK NR LAKEWOOD NJ (LAT 40 06 58 LONG 074 10 56)

JULY, 1974										
30...	--	10	--	12	6.1	6.7	2.0	12	3.5	15
SEP.										
23...	11	8	--	10	--	5.5	2.0	10	3.0	11
23...	8.9	10	--	12	7.6	8.0	5.6	9.0	2.7	10

DATE	DIS-SOLVED SULFATE (S04) (MG/L)	TOTAL FLUO-RIDE (F) (MG/L)	DIS-SOLVED SILICA (SI02) (MG/L)	DIS-SOLVED SOLIDS (RESI-DUE AT 180 C) (MG/L)	DIS-SOLVED SOLIDS (TONS PER AC-FT)	TOTAL IRON (FE) (UG/L)	DIS-SOLVED IRON (FE) (UG/L)	TOTAL MAN-GANESE (MN) (UG/L)	DIS-SOLVED MAN-GANESE (MN) (UG/L)
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## 01408109 - UNNAMED TRIBUTARY AT SWAMP (HAYSTACK BK) (LAT 40 08 58 LONG 074 12 17)

JULY, 1974									
30...	12	.2	6.3	62	.08	2800	--	260	--
SEP.									
23...	13	.0	6.8	84	.11	6200	--	180	--

## 01408111 - HAY STACK BK AT LANES PD RD NR SOUTHWARD NJ (LAT 40 08 22 LONG 074 11 41)

JULY, 1974									
30...	24	--	14	163	.22	--	170	--	70
30...	23	.5	14	164	.22	1100	--	120	--
SEP.									
23...	16	.1	12	151	.21	1500	--	120	--
23...	15	--	12	150	.20	--	690	--	60
23...	15	.1	12	151	.21	2000	--	120	--

## 01408113 - HAY STACK BK AT RT 547 NR LAKEWOOD NJ (LAT 40 07 24 LONG 074 11 21)

JULY, 1974									
30...	16	.2	8.8	110	.15	1700	--	90	--
SEP.									
23...	15	.2	7.4	99	.13	800	--	60	--
23...	11	.2	7.0	94	.13	800	--	70	--

## 01408116 - HAY STACK BK NR LAKEWOOD NJ (LAT 40 06 58 LONG 074 10 56)

JULY, 1974									
30...	15	.3	8.7	97	.13	9500	--	90	--
SEP.									
23...	12	.2	7.3	81	.11	950	--	70	--
23...	11	.1	7.4	87	.12	900	--	60	--

## TOMS RIVER BASIN

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01408500 TOMS RIVER NEAR TOMS RIVER, N. J.

LOCATION.--Lat 39°59'10", long 74°13'29", Ocean County, at bridge 1.9 mi (3.1 km) downstream from Union Branch and 2.6 mi (4.2 km) northwest of Toms River.

DRAINAGE AREA.--124 mi<sup>2</sup> (321 km<sup>2</sup>).

PERIOD OF RECORD.--Chemical analyses: Water years 1963-72 (Partial-record station), October 1972 to September 1974.  
Water temperatures: November 1963 to May 1966.

## WATER QUALITY DATA, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	ELEV. OF LAND SURFACE DATUM (FT. ABOVE MSL)	TEMPERATURE (DEG C)	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)	DISSOLVED OXYGEN (MG/L)	BIOCHEMICAL OXYGEN DEMAND 5 DAY (MG/L)	TURBIDITY (JTU)	COLOR (PLATINUM-COBALT UNITS)	TOTAL NITRITE (N) (MG/L)	TOTAL NITRATE (N) (MG/L)
NOV. 27...	0930	137	8.1	11.2	66	6.1	11.0	.7	--	--	.00	.46
FEB. 14...	1015	225	8.1	3.8	62	4.8	12.3	--	--	--	.00	.46
APR. 19...	0930	279	8.1	13.9	61	5.0	9.4	.6	--	--	--	--
MAY 17...	0940	202	8.1	19.5	55	4.3	8.3	1.6	--	--	.01	.32
JUNE 21...	1330	118	8.1	21.2	66	4.9	8.2	1.1	--	--	--	--
JULY 25...	1315	122	8.1	19.0	92	5.5	8.9	1.4	--	--	--	--
AUG. 27...	1030	155	8.1	21.8	61	4.8	7.9	1.5	--	--	--	--
SEP. 12...	1015	217	8.1	22.0	67	4.2	9.2	.5	3	60	.00	.26

DATE	TOTAL KJELDAHL NITROGEN (N) (MG/L)	AMMONIA NITROGEN (N) (MG/L)	ORGANIC NITROGEN (N) (MG/L)	TOTAL NITROGEN (N) (MG/L)	TOTAL PHOSPHORUS (P) (MG/L)	TOTAL ORTHO PHOSPHORUS (P) (MG/L)	DISSOLVED ORTHO PHOSPHORUS (P) (MG/L)	TOTAL ORGANIC CARBON (C) (MG/L)	IMMEDIATE COLIFORM (COL. PER 100 ML)	FECAL COLIFORM (COL. PER 100 ML)	STREPTOCOCCI (COLONIES PER 100 ML)
NOV. 27...	--	.24	--	--	.03	.02	.03	--	670	25	203
FEB. 14...	.27	.18	.09	.73	.01	.01	.01	3.5	146	4	4
APR. 19...	--	--	--	--	--	--	--	--	140	20	6
MAY 17...	.45	.12	.33	.78	.06	.03	--	20	1920	34	440
JUNE 21...	--	--	--	--	--	--	--	--	3200	100	1300
JULY 25...	--	--	--	--	--	--	--	--	4800	544	970
AUG. 27...	--	--	--	--	--	--	--	--	1500	125	140
SEP. 12...	.32	.31	.01	.58	.03	.01	--	13	1850	895	5

DATE	ALKALINITY AS CaCO3 (MG/L)	BICARBONATE (HCO3) (MG/L)	CARBON DIOXIDE (CO2) (MG/L)	DISSOLVED CHLORIDE (CL) (MG/L)	DISSOLVED SULFATE (SO4) (MG/L)	TOTAL FLUORIDE (F) (MG/L)	DISSOLVED SILICA (SiO2) (MG/L)	DISSOLVED SOLIDS (RESIDUE AT 180 C) (MG/L)	DISSOLVED SOLIDS (TONS PER AC-FT)	TOTAL IRON (FE) (UG/L)	TOTAL MANGANESE (MN) (UG/L)
NOV. 27...	--	--	--	--	--	--	--	--	--	--	--
FEB. 14...	--	--	--	--	--	--	--	--	--	--	--
APR. 19...	--	--	--	--	--	--	--	--	--	--	--
MAY 17...	--	--	--	--	--	--	--	--	--	--	--
JUNE 21...	--	--	--	--	--	--	--	--	--	--	--
JULY 25...	--	--	--	--	--	--	--	--	--	--	--
AUG. 27...	--	--	--	--	--	--	--	--	--	--	--
SEP. 12...	0	0	.0	7.5	9.2	.2	4.8	52	.07	1300	90

## TOMS RIVER BASIN

01408700 TOMS RIVER AT TOMS RIVER, N. J.

LOCATION.--Lat 39°57'01", long 74°11'56", Ocean County, at bridge on U.S. Highway 9 Alt., in Toms River.

DRAINAGE AREA.--163 mi<sup>2</sup> (422 km<sup>2</sup>).

PERIOD OF RECORD.--Chemical analyses: August 1969 to September 1974.

REMARKS.--Operated as part of the USGS-EPA Surveillance Network.

## WATER QUALITY DATA, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DATE	TIME	DEPTH (FT)	PER-CENT OF TOTAL DEPTH	TEMPERATURE (DEG C)	AIR TEMPERATURE (DEG C)	SPECIFIC CONDUCTANCE (MICRO-MHOS)	PH (UNITS)	DIS-SOLVED OXYGEN (MG/L)	TURBIDITY (JTU)	TOTAL NITRITE (N) (MG/L)
NOV. 27...	1010	2.0	50	11.1	--	70	6.2	10.2	2	.00
FEB. 14...	1045	2.0	50	5.0	3.8	64	5.7	12.2	4	.01
MAY 17...	1015	2.0	50	19.8	27.2	63	4.3	7.9	8	.01

DATE	TOTAL NITRATE (N) (MG/L)	TOTAL KJEL-DAHL NITROGEN (N) (MG/L)	AMMONIA NITROGEN (N) (MG/L)	ORGANIC NITROGEN (N) (MG/L)	TOTAL NITROGEN (N) (MG/L)	TOTAL PHOSPHORUS (P) (MG/L)	TOTAL ORTHO PHOSPHORUS (P) (MG/L)	DIS-SOLVED ORTHO PHOSPHORUS (P) (MG/L)	TOTAL ORGANIC CARBON (C) (MG/L)
NOV. 27...	.49	.21	.21	.00	.71	.02	.01	.02	--
FEB. 14...	.52	.17	.15	.02	.70	.01	--	.01	4.5
MAY 17...	.37	.50	.14	.36	.88	.05	.01	--	7.9

DATE	IMMEDIATE COLIFORM (COL. PER 100 ML)	FECAL COLIFORM (COL. PER 100 ML)	STREPTOCOCCI (COLONIES PER 100 ML)	CHLOROPHYLL A (UG/L)	CHLOROPHYLL B (UG/L)	DIS-SOLVED CHLORIDE (CL) (MG/L)	TOTAL IRON (FE) (UG/L)	DIS-SOLVED LEAD (PB) (UG/L)	TOTAL LEAD (PB) (UG/L)
NOV. 27...	950	38	20	1.1	--	10	--	10	--
FEB. 14...	88	18	6	.0	--	9.5	440	--	0
MAY 17...	3300	64	648	3.3	8.0	8.9	--	--	4

DATE	ALDRIN (UG/L)	ALDRIN IN BOTTOM DEPOSITS (UG/KG)	LINDANE (UG/L)	LINDANE IN BOTTOM DEPOSITS (UG/KG)	CHLORDANE (UG/L)	CHLORDANE IN BOTTOM DEPOSITS (UG/KG)	DDD (UG/L)	DDD IN BOTTOM DEPOSITS (UG/KG)	DDE (UG/L)	DDE IN BOTTOM DEPOSITS (UG/KG)	DDT (UG/L)	DDT IN BOTTOM DEPOSITS (UG/KG)
MAY 17...	.00	.0	.00	.0	.0	0	.00	40	.00	33	.00	200

## TOMS RIVER BASIN

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01408700 TOMS RIVER AT TOMS RIVER, N. J.--Continued

## WATER QUALITY DATA, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DATE	DI- ELDRIN (UG/L)	DI- ELDRIN IN BOTTOM DE- POSITS (UG/KG)	ENDRIN (UG/L)	ENDRIN IN BOTTOM DE- POSITS (UG/KG)	ETHION (UG/L)	TOX- APHENE (UG/L)	TOX- APHENE IN BOTTOM DE- POSITS (UG/KG)	HEPTA- CHLOR (UG/L)	HEPTA- CHLOR IN BOTTOM DE- POSITS (UG/KG)	HEPTA- CHLOR EPOXIDE (UG/L)	HEPTA- CHLOR EPOXIDE IN BOT- TOM DE- POSITS (UG/KG)
MAY 17...	.00	1.8	.00	.0	.00	0	0	.00	.0	.00	.1

DATE	PCB (UG/L)	PCB IN BOTTOM DE- POSITS (UG/KG)	MALA- THION (UG/L)	PARA- THION (UG/L)	DI- AZINON (UG/L)	METHYL PARA- THION (UG/L)	2,4-D (UG/L)	2,4,5-T (UG/L)	SILVEX (UG/L)	TRI- THION (UG/L)	METHYL TRI- THION (UG/L)
MAY 17...	.0	0	.00	.00	.00	.00	.03	.00	.00	.00	.00

## OYSTER CREEK BASIN

01409095 OYSTER CREEK NEAR BROOKVILLE, N. J.

LOCATION.--Lat 39°47'54", 74°15'02", Ocean County, at gaging station at bridge on Rt. 532, 0.8 mi (1.3 km) west of Garden State Parkway near Waretown, N.J.

DRAINAGE AREA.--7.4 mi<sup>2</sup> (19.2 km<sup>2</sup>).

PERIOD OF RECORD.--Chemical analyses: February 1973 to September 1973 (partial-record station). October 1973 to September 1974.

## WATER QUALITY DATA, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DATE	TIME	INSTAN- TANEOUS DIS- CHARGE (CFS)	ELEV. OF LAND SURFACE DATUM (FT. ABOVE MSL)	TEMPER- ATURE (DEG C)	SPE- CIFIC CON- DUCT- ANCE (MICRO- MHOS)	PH (UNITS)	DIS- SOLVED OXYGEN (MG/L)	BIO- CHEM- ICAL OXYGEN DEMAND 5 DAY (MG/L)	TUR- BID- ITY (JTU)	COLOR (PLAT- INUM- COBALT UNITS)	TOTAL NITRITE (N) (MG/L)	TOTAL NITRATE (N) (MG/L)
FEB. 12...	1400	28	26	5.9	38	4.0	11.4	.4	--	--	.00	.02
APR. 19...	1030	25	26	12.6	41	4.1	8.8	.7	--	--	--	--
MAY 31...	0915	29	26	14.5	37	4.1	7.6	.7	--	--	.01	.00
JUNE 21...	1230	23	26	17.2	34	4.0	8.4	.3	--	--	--	--
JULY 25...	1430	34	26	17.7	44	4.0	7.7	.5	--	--	--	--
AUG. 27...	1130	23	26	18.0	34	4.8	8.1	.9	--	--	--	--
SEP. 12...	1130	24	26	18.5	34	4.5	9.0	.3	1	4	.00	.02

DATE	TOTAL KJEL- DAHL NITRO- GEN (N) (MG/L)	AMMONIA NITRO- GEN (N) (MG/L)	ORGANIC NITRO- GEN (N) (MG/L)	TOTAL NITRO- GEN (N) (MG/L)	TOTAL PHOS- PHORUS (P) (MG/L)	TOTAL ORTHO PHOS- PHORUS (P) (MG/L)	DIS- SOLVED ORTHO. PHOS- PHORUS (P) (MG/L)	TOTAL ORGANIC CARBON (C) (MG/L)	IMME- DIATE COLI- FORM (COL. PER 100 ML)	FECAL COLI- FORM (COL. PER 100 ML)	STREP- TOCOCCI (COL- ONIES PER 100 ML)
FEB. 12...	.19	.01	.18	.21	.00	.00	.00	2.5	2	1	2
APR. 19...	--	--	--	--	--	--	--	--	60	4	0
MAY 31...	.26	.01	.25	.26	.00	.00	--	--	160	8	82
JUNE 21...	--	--	--	--	--	--	--	--	260	4	128
JULY 25...	--	--	--	--	--	--	--	--	260	180	284
AUG. 27...	--	--	--	--	--	--	--	--	92	6	4
SEP. 12...	--	.13	--	--	.00	.00	--	6.8	976	924	2

DATE	ALKA- LINITY AS CACO3 (MG/L)	BICAR- BONATE (HCO3) (MG/L)	CARBON DIOXIDE (CO2) (MG/L)	DIS- SOLVED CHLO- RIDE (CL) (MG/L)	DIS- SOLVED SULFATE (SO4) (MG/L)	TOTAL FLUO- RIDE (F) (MG/L)	DIS- SOLVED SILICA (SI02) (MG/L)	DIS- SOLVED SOLIDS (RESI- DUE AT 180 C) (MG/L)	DIS- SOLVED SOLIDS (TONS PER AC-FT)	TOTAL IRON (FE) (UG/L)	TOTAL MAN- GANESE (MN) (UG/L)
FEB. 12...	--	--	--	--	--	--	--	--	--	--	--
APR. 19...	--	--	--	--	--	--	--	--	--	--	--
MAY 31...	--	--	--	--	--	--	--	--	--	--	--
JUNE 21...	--	--	--	--	--	--	--	--	--	--	--
JULY 25...	--	--	--	--	--	--	--	--	--	--	--
AUG. 27...	--	--	--	--	--	--	--	--	--	--	--
SEP. 12...	0	0	.0	5.5	3.2	.0	5.5	24	.03	270	50

## MULLICA RIVER BASIN

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## ANALYSES OF SAMPLES COLLECTED AT WATER-QUALITY PARTIAL-RECORD STATIONS

WATER QUALITY DATA, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DATE	TIME	TEMPER- ATURE (DEG C)	SPE- CIFIC CON- DUCT- ANCE (MICRO- MHOS)	PH (UNITS)	DIS- SOLVED OXYGEN (MG/L)	BIO- CHEM- ICAL OXYGEN DEMAND 5 DAY (MG/L)	TUR- BID- ITY (JTU)	COLOR (PLAT- INUM- COBALT UNITS)	TOTAL NITRITE (N) (MG/L)	DIS- SOLVED NITRITE (N) (MG/L)
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## 01409412 - HAMMONTON C AT RT 30 AT HAMMONTON NJ (LAT 39 37 51 LONG 074 46 17.01)

JULY, 1974										
17...	0815	26.5	65	6.9	--	7.3	5	10	.01	--
AUG.										
28...	0700	26.0	65	7.1	7.5	--	4	20	.00	--

## 01409414 - HAMMONTON C AT HAMMONTON NJ (LAT 39 37 57 LONG 074 45 39.01)

JULY, 1974										
17...	1000	20.0	159	6.1	5.8	--	7	30	.07	--
17...	1015	20.0	154	6.1	5.8	--	4	30	--	.10
AUG.										
28...	0830	20.9	127	6.2	5.3	--	3	--	--	.08
28...	0900	20.9	123	6.2	5.3	--	5	4	.09	--

## 01409415 - HAMMONTON C NR HAMMONTON NJ (LAT 39 38 09 LONG 074 44 30.01)

JULY, 1974										
17...	1130	20.0	140	6.2	4.2	--	3	20	.23	--
AUG.										
28...	0930	20.0	152	6.4	1.2	--	4	20	.04	--

## 01409416 - HAMMONTON C AT WESTCOATVILLE NJ (LAT 39 38 02 LONG 074 43 05.01)

JULY, 1974										
17...	1330	20.0	145	6.1	4.4	--	10	10	.10	--
AUG.										
28...	1030	21.0	137	6.4	2.8	--	4	20	.08	--

## 01409580 - UNION C AT EGG HARBOR CITY NJ (LAT 39 32 03 LONG 074 37 55)

JULY, 1974										
22...	0745	15.0	110	5.5	8.2	--	2	1	.01	--
SEP.										
06...	0730	16.5	86	6.0	>.9	--	3	0	.00	--

DATE	TOTAL NITRATE (N) (MG/L)	DIS- SOLVED NITRATE (N) (MG/L)	TOTAL KJEL- DAHL NITRO- GEN (N) (MG/L)	AMMONIA NITRO- GEN (N) (MG/L)	DIS- SOLVED AMMONIA NITRO- GEN (N) (MG/L)	TOTAL ORGANIC NITRO- GEN (N) (MG/L)	TOTAL NITRO- GEN (N) (MG/L)	TOTAL PHOS- PHORUS (P) (MG/L)	TOTAL ORTHOPHOS- PHORUS (P) (MG/L)	DIS- SOLVED ORTHOPHOS- PHORUS (P) (MG/L)
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## 01409412 - HAMMONTON C AT RT 30 AT HAMMONTON NJ (LAT 39 37 51 LONG 074 46 17.01)

JULY, 1974										
17...	.08	--	.46	.41	--	.05	.55	.02	.01	--
AUG.										
28...	.02	--	>.44	.44	--	.00	.26	.02	.01	--

## 01409414 - HAMMONTON C AT HAMMONTON NJ (LAT 39 37 57 LONG 074 45 39.01)

JULY, 1974										
17...	3.1	--	3.5	3.2	--	.30	6.7	2.3	1.8	--
17...	--	1.8	--	--	1.5	--	--	--	--	.76
AUG.										
28...	--	2.5	--	--	1.5	--	--	--	--	--
28...	2.7	--	1.9	1.7	--	.20	4.7	1.5	1.4	--

## 01409415 - HAMMONTON C NR HAMMONTON NJ (LAT 39 38 09 LONG 074 44 30.01)

JULY, 1974										
17...	2.2	--	>4.1	4.1	--	.00	4.8	2.2	1.9	--
AUG.										
28...	1.9	--	>3.2	3.2	--	.00	5.0	2.0	1.8	--

## 01409416 - HAMMONTON C AT WESTCOATVILLE NJ (LAT 39 38 02 LONG 074 43 05.01)

JULY, 1974										
17...	2.0	--	>4.1	4.1	--	.00	4.8	2.6	2.6	--
AUG.										
28...	2.1	--	3.4	3.0	--	.40	5.6	1.6	1.4	--

## 01409580 - UNION C AT EGG HARBOR CITY NJ (LAT 39 32 03 LONG 074 37 55)

JULY, 1974										
22...	1.1	--	.17	.15	--	.02	1.3	.01	.01	--
SEP.										
06...	.87	--	.18	.02	--	.16	1.1	.01	.01	--



## ANALYSES OF SAMPLES COLLECTED AT WATER-QUALITY PARTIAL-RECORD STATIONS--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DATE	TOTAL ORGANIC CARBON (C) (MG/L)	DIS- SOL- VED ORGANIC CARBON (C) (MG/L)	ALKA- LINIT AS CACO3 (MG/L)	CAR- BONATE (CO3) (MG/L)	BICAR- BONATE (HCO3) (MG/L)	CARBON DIOXIDE (CO2) (MG/L)	TOTAL CAL- CIUM (CA) (MG/L)	TOTAL MAG- NE- SIUM (MG)	TOTAL SODIUM (NA) (MG/L)	TOTAL PO- TAS- SIUM (K) (MG/L)
------	---	---	---	-----------------------------------	--------------------------------------	--------------------------------------	---	--------------------------------------	-----------------------------------	---

## 01409412 - HAMMONTON C AT RT 30 AT HAMMONTON NJ (LAT 39 37 51 LONG 074 46 17.01)

JULY, 1974										
17...	9.2	4.2	16	0	19	3.8	8.6	1.8	5.3	1.1
AUG.										
28...	27	9.4	14	--	17	2.2	3.5	2.0	5.4	1.0

## 01409414 - HAMMONTON C AT HAMMONTON NJ (LAT 39 37 57 LONG 074 45 39.01)

JULY, 1974										
17...	15	13	14	0	17	22	7.5	2.1	17	3.7
17...	--	--	14	--	17	22	--	--	--	--
AUG.										
28...	--	--	15	--	18	18	--	--	--	--
28...	16	16	3	--	4	4.0	4.0	2.0	12	2.5

## 01409415 - HAMMONTON C NR HAMMONTON NJ (LAT 39 38 09 LONG 074 44 30.01)

JULY, 1974										
17...	12	10	21	0	26	26	7.8	1.8	15	3.3
AUG.										
28...	15	12	7	--	9	5.7	4.2	1.9	16	2.8

## 01409416 - HAMMONTON C AT WESTCOATVILLE NJ (LAT 39 38 02 LONG 074 43 05.01)

JULY, 1974										
17...	15	15	19	0	23	29	10	1.7	14	3.5
AUG.										
28...	11	11	12	--	15	9.6	6.0	1.6	13	2.8

## 01409580 - UNION C AT EGG HARBOR CITY NJ (LAT 39 32 03 LONG 074 37 55)

JULY, 1974										
22...	--	11	1	0	1	5.1	5.0	1.8	4.0	.7
SEP.										
06...	8.1	3.7	5	--	6	9.6	7.0	1.9	4.5	1.3

DATE	DIS- SOLVED CHLO- RIDE (CL) (MG/L)	DIS- SOLVED SULFATE (SO4) (MG/L)	TOTAL FLUO- RIDE (F) (MG/L)	DIS- SOLVED SILICA (SiO2) (MG/L)	DIS- SOLVED SOLIDS (RESI- DUE AT 180 C) (MG/L)	DIS- SOLVED SOLIDS (TONS PER AC-FT)	TOTAL IRON (FE) (UG/L)	DIS- SOLVED IRON (FE) (UG/L)	TOTAL MAN- GANESE (MN) (UG/L)	DIS- SOLVED MAN- GANESE (MN) (UG/L)
------	---	--	---	--	--	--	---------------------------------	--	---	--

## 01409412 - HAMMONTON C AT RT 30 AT HAMMONTON NJ (LAT 39 37 51 LONG 074 46 17.01)

JULY, 1974										
17...	7.2	4.9	.1	3.1	30	.04	1400	--	30	--
AUG.										
28...	7.3	2.5	.1	4.1	51	.07	2300	--	190	--

## 01409414 - HAMMONTON C AT HAMMONTON NJ (LAT 39 37 57 LONG 074 45 39.01)

JULY, 1974										
17...	25	14	.3	8.3	106	.14	1100	--	60	--
17...	13	7.8	--	6.3	78	.11	--	720	--	30
AUG.										
28...	14	7.5	--	7.1	83	.11	--	640	--	80
28...	14	7.8	.2	7.2	96	.13	1300	--	80	--

## 01409415 - HAMMONTON C NR HAMMONTON NJ (LAT 39 38 09 LONG 074 44 30.01)

JULY, 1974										
17...	18	12	.2	7.0	79	.11	580	--	60	--
AUG.										
28...	17	8.7	.2	7.7	89	.12	800	--	220	--

## 01409416 - HAMMONTON C AT WESTCOATVILLE NJ (LAT 39 38 02 LONG 074 43 05.01)

JULY, 1974										
17...	18	14	.4	6.4	82	.11	1500	--	20	--
AUG.										
28...	15	10	.1	7.0	81	.11	830	--	480	--

## 01409580 - UNION C AT EGG HARBOR CITY NJ (LAT 39 32 03 LONG 074 37 55)

JULY, 1974										
22...	7.4	9.7	.1	9.3	60	.08	390	--	50	--
SEP.										
06...	8.0	15	.3	7.5	73	.10	320	--	20	--

## MULLICA RIVER BASIN

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ANALYSES OF SAMPLES COLLECTED AT WATER-QUALITY PARTIAL-RECORD STATIONS--Continued  
WATER QUALITY DATA, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DATE	TIME	TEMPER- ATURE (DEG C)	SPE- CIFIC CON- DUCT- ANCE (MICRO- MHOS)	PH (UNITS)	DIS- SOLVED OXYGEN (MG/L)	BIO- CHEM- ICAL OXYGEN DEMAND 5 DAY (MG/L)	TUR- BID- ITY (JTU)	COLOR (PLAT- INUM- COBALT UNITS)	TOTAL NITRITE (N) (MG/L)	DIS- SOLVED NITRITE (N) (MG/L)
01409585 - UNION C AT MOSS MILL RD AT EGG HARBOR CITY NJ (LAT 39 32 39 LONG 074 37 40)										
JULY, 1974										
22...	1000	17.0	141	6.7	4.7	--	5	3	--	.13
22...	1030	17.0	147	6.7	4.7	--	6	5	.11	--
SEP.										
06...	0930	18.0	--	6.5	5.6	--	--	1	--	.05
06...	1015	18.0	140	6.5	5.6	--	7	7	.04	--

01409590 - LANDING C AT EGG HARBOR CITY NJ (LAT 39 33 09 LONG 074 36 51)										
JULY, 1974										
22...	1130	16.0	103	6.7	6.6	--	4	3	.06	--
SEP.										
06...	1115	17.0	73	5.5	6.4	--	6	40	.00	--

01409600 - LANDING C NR EGG HARBOR CITY NJ (LAT 39 33 25 LONG 074 36 10)										
JULY, 1974										
22...	1400	17.0	85	6.4	6.6	--	4	40	.02	--
SEP.										
06...	1215	17.0	69	5.5	6.4	--	4	30	.01	--

DATE	TOTAL NITRATE (N) (MG/L)	DIS- SOLVED NITRATE (N) (MG/L)	TOTAL KJEL- DAHL NITRO- GEN (N) (MG/L)	AMMONIA NITRO- GEN (N) (MG/L)	DIS- SOLVED AMMONIA NITRO- GEN (N) (MG/L)	TOTAL ORGANIC NITRO- GEN (N) (MG/L)	TOTAL NITRO- GEN (N) (MG/L)	TOTAL PHOS- PHORUS (P) (MG/L)	TOTAL ORTHO PHOS- PHORUS (P) (MG/L)	DIS- SOLVED ORTHO PHOS- PHORUS (P) (MG/L)
------	-----------------------------------	--	--	---	---	--	---	---	--	---

01409585 - UNION C AT MOSS MILL RD AT EGG HARBOR CITY NJ (LAT 39 32 39 LONG 074 37 40)										
JULY, 1974										
22...	--	1.2	--	--	1.0	--	--	--	--	1.7
22...	1.4	--	1.5	1.4	--	.10	3.0	2.3	2.2	--
SEP.										
06...	--	.66	--	--	.43	--	--	--	--	.91
06...	.75	--	.93	.70	--	.23	1.7	1.3	1.1	--

01409590 - LANDING C AT EGG HARBOR CITY NJ (LAT 39 33 09 LONG 074 36 51)										
JULY, 1974										
22...	.93	--	>.99	.99	--	.00	1.7	.96	.87	--
SEP.										
06...	.04	--	.09	.07	--	.02	.13	.31	.05	--

01409600 - LANDING C NR EGG HARBOR CITY NJ (LAT 39 33 25 LONG 074 36 10)										
JULY, 1974										
22...	.82	--	>.98	.98	--	.00	1.4	.71	.63	--
SEP.										
06...	.45	--	.42	.41	--	.01	.88	.31	.23	--

## MULICA RIVER BASIN

ANALYSES OF SAMPLES COLLECTED AT WATER-QUALITY PARTIAL-RECORD STATIONS--Continued  
 WATER QUALITY DATA, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DATE	TOTAL ORGANIC CARBON (C) (MG/L)	DIS- SOL- VED ORGANIC CARBON (C) (MG/L)	ALKA- LINITY AS CACO3 (MG/L)	CAR- BONATE (CO3) (MG/L)	BICAR- BONATE (HCO3) (MG/L)	CARBON DIOXIDE (CO2) (MG/L)	TOTAL CAL- CIUM (CA) (MG/L)	TOTAL MAG- NE- SIUM (MG)	TOTAL SODIUM (NA) (MG/L)	TOTAL PO- TAS- SIUM (K) (MG/L)
------	---	---	--	-----------------------------------	--------------------------------------	--------------------------------------	---	--------------------------------------	-----------------------------------	---

## 01409585 - UNION C AT MOSS MILL RD AT EGG HARBOR CITY NJ (LAT 39 32 39 LONG 074 37 40)

JULY, 1974										
22...	--	--	13	--	16	5.1	--	--	--	--
22...	4.7	--	14	0	17	5.4	9.0	1.9	15	2.8
SEP.										
06...	--	--	14	--	17	8.6	--	--	--	--
06...	11	--	19	--	23	12	8.7	2.5	13	2.0

## 01409590 - LANDING C AT EGG HARBOR CITY NJ (LAT 39 33 09 LONG 074 36 51)

JULY, 1974										
22...	11	4.1	7	0	8	2.6	8.0	1.7	10	1.7
SEP.										
06...	11	10	4	--	5	25	3.4	1.3	6.0	1.4

## 01409600 - LANDING C NR EGG HARBOR CITY NJ (LAT 39 33 25 LONG 074 36 10)

JULY, 1974										
22...	8.0	7.5	3	0	4	2.5	.5	1.4	8.0	1.2
SEP.										
06...	14	9.4	2	--	3	15	5.2	1.2	5.5	1.0

DATE	DIS- SOLVED CHLO- RIDE (CL) (MG/L)	DIS- SOLVED SULFATE (SO4) (MG/L)	TOTAL FLUO- RIDE (F) (MG/L)	DIS- SOLVED SILICA (SIO2) (MG/L)	DIS- SOLVED SOLIDS (RESI- DUE AT 180 C) (MG/L)	DIS- SOLVED SOLIDS (TONS PER AC-FT)	TOTAL IRON (FE) (UG/L)	DIS- SOLVED IRON (FE) (UG/L)	TOTAL MAN- GANESE (MN) (UG/L)	DIS- SOLVED MAN- GANESE (MN) (UG/L)
------	---	--	---	--	--	--	---------------------------------	--	---	--

## 01409585 - UNION C AT MOSS MILL RD AT EGG HARBOR CITY NJ (LAT 39 32 39 LONG 074 37 40)

JULY, 1974										
22...	16	15	--	19	103	.14	--	370	--	40
22...	16	15	.6	20	111	.15	570	--	40	--
SEP.										
06...	11	13	--	6.8	108	.15	--	450	--	40
06...	10	13	.7	11	81	.11	590	--	20	--

## 01409590 - LANDING C AT EGG HARBOR CITY NJ (LAT 39 33 09 LONG 074 36 51)

JULY, 1974										
22...	12	12	.3	17	81	.11	1200	--	30	--
SEP.										
06...	9.1	11	.3	11	73	.10	1200	--	20	--

## 01409600 - LANDING C NR EGG HARBOR CITY NJ (LAT 39 33 25 LONG 074 36 10)

JULY, 1974										
22...	11	12	.3	15	76	.10	1200	--	10	--
SEP.										
06...	8.3	8.9	.3	5.4	48	.07	1100	--	20	--

LOCATION.--Lat 39°44'02", long 74°57'06", Camden County, at bridge on Sicklerville-New Freedom Road (Spur 536) and 1.5 mi (2.4 km) northeast of Sicklerville.

PERIOD OF RECORD.--Chemical analyses: Water years 1971-72 (partial-record station), October 1972 to September 1974.

REMARKS.--Miscellaneous storm sediment samples collected during water year 1974.

## WATER QUALITY DATA, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

[illegible][illegible]

01410784 GREAT EGG HARBOR RIVER NEAR SICKLERVILLE, N. J.--Continued

[illegible][illegible]

## GREAT EGG HARBOR RIVER BASIN

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01410784 GREAT EGG HARBOR RIVER NEAR SICKLERVILLE, N. J.--Continued

## WATER QUALITY DATA, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DATE	DIS- SOLVED SODIUM (NA) (MG/L)	DIS- SOLVED PO- TAS- SIUM (K) (MG/L)	DIS- SOLVED SOLIDS (RESI- DUE AT 180 C) (MG/L)	DIS- SOLVED SOLIDS (SUM OF CONSTI- TUENTS) (MG/L)	DIS- SOLVED SOLIDS (TONS PER AC-FT)	TOTAL PO- TAS- SIUM (K) (MG/L)	DIS- SOLVED CHLO- RIDE (CL) (MG/L)	DIS- SOLVED SULFATE (SO4) (MG/L)	DIS- SOLVED FLUO- RIDE (F) (MG/L)	TOTAL FLUO- RIDE (F) (MG/L)	DIS- SOLVED SILICA (SiO2) (MG/L)
MAR. 27...	7.3	2.0	--	49	.07	--	9.2	15	.1	--	4.8
APR. 09...	--	--	--	--	--	--	--	--	--	--	--
09...	--	--	--	--	--	--	--	--	--	--	--
09...	--	--	--	--	--	--	--	--	--	--	--
25...	8.0	2.2	63	48	.09	--	9.9	14	.1	--	3.8
MAY 30...	--	--	79	--	.11	2.3	10	13	--	.2	6.8
JUNE 29...	--	--	--	--	--	--	--	--	--	--	--
JULY 17...	--	--	--	--	--	--	--	--	--	--	--
26...	--	--	104	--	.14	3.7	14	24	--	.2	4.0
AUG. 07...	--	--	--	--	--	--	--	--	--	--	--
08...	--	--	--	--	--	--	--	--	--	--	--
21...	--	--	--	--	--	--	--	--	--	--	--
23...	--	--	--	--	--	--	--	--	--	--	--
23...	--	--	--	--	--	--	--	--	--	--	--
SEP. 04...	--	--	--	--	--	--	--	--	--	--	--
04...	--	--	--	--	--	--	--	--	--	--	--
04...	--	--	--	--	--	--	--	--	--	--	--
07...	--	--	--	--	--	--	--	--	--	--	--
27...	--	--	--	--	--	--	--	--	--	--	--
29...	--	--	--	--	--	--	--	--	--	--	--
29...	--	--	--	--	--	--	--	--	--	--	--

DATE	TOTAL IRON (FE) (UG/L)	TOTAL IRON IN BOTTOM DE- POSITS (UG/G)	TOTAL MAN- GANESE (MN) (UG/L)	TOTAL MANGA- NESE IN BOTTOM DE- POSITS (UG/G)	TOTAL ARSENIC (AS) (UG/L)	DIS- SOLVED ARSENIC (AS) (UG/L)	TOTAL ARSENIC IN BOTTOM DE- POSITS (UG/G)	TOTAL CAD- MIUM (CD) (UG/L)	DIS- SOLVED CAD- MIUM (CD) (UG/L)	TOTAL CADMIUM IN BOTTOM DE- POSITS (UG/G)	TOTAL CHRO- MIUM (CR) (UG/L)
MAR. 27...	400	--	30	--	--	--	--	--	--	--	--
APR. 25...	--	--	--	--	--	1	--	--	0	--	--
MAY 30...	900	1000	40	30	--	--	0	--	--	0	--
JUNE 29...	--	--	--	--	1	--	--	0	--	--	10
JULY 26...	360	--	470	--	0	--	--	3	--	--	0
SEP. 07...	--	--	--	--	0	0	--	1	0	--	0

DATE	DIS- SOLVED CHRO- MIUM (CR) (UG/L)	TOTAL CHRO- MIUM IN BOTTOM DE- POSITS (UG/G)	TOTAL COBALT (CO) (UG/L)	TOTAL COBALT IN BOTTOM DE- POSITS (UG/G)	DIS- SOLVED COBALT (CO) (UG/L)	TOTAL COPPER (CU) (UG/L)	TOTAL COPPER IN BOTTOM DE- POSITS (UG/G)	DIS- SOLVED COPPER (CU) (UG/L)	TOTAL LEAD (PB) (UG/L)	DIS- SOLVED LEAD (PB) (UG/L)
MAR. 27...	--	--	--	--	--	--	--	--	--	--
APR. 25...	--	--	--	--	--	--	--	0	--	1
MAY 30...	--	0	--	0	--	--	1	--	--	--
JUNE 29...	--	--	0	--	--	0	--	--	3	--
JULY 26...	--	--	0	--	--	10	--	--	1	--
SEP. 07...	0	--	1	--	0	0	--	10	4	2



## GREAT EGG HARBOR RIVER BASIN

01410784 GREAT EGG HARBOR RIVER NEAR SICKLERVILLE, N. J.--Continued

## WATER QUALITY DATA, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DATE	TOTAL LEAD IN BOTTOM DE-POSITS (UG/G)	TOTAL NICKEL (NI) (UG/L)	DIS-SOLVED NICKEL (NI) (UG/L)	TOTAL NICKEL IN BOTTOM DE-POSITS (UG/G)	TOTAL ZINC (ZN) (UG/L)	DIS-SOLVED ZINC (ZN) (UG/L)	TOTAL ZINC IN BOTTOM DE-POSITS (UG/G)	TOTAL MERCURY (HG) (UG/L)	DIS-SOLVED MERCURY (HG) (UG/L)	TOTAL MERCURY IN BOTTOM DE-POSITS (UG/G)
MAR. 27...	--	--	--	--	--	--	--	--	--	--
APR. 25...	--	--	--	--	--	30	--	--	<.5	--
MAY 30...	110	--	--	5	--	--	6	--	--	.0
JUNE 29...	--	1	--	--	20	--	--	<.5	--	--
JULY 26...	--	1	--	--	0	--	--	<.5	--	--
SEP. 07...	--	1	5	--	20	20	--	<.5	.5	--

DATE	ALDRIN (UG/L)	ALDRIN IN BOTTOM DE-POSITS (UG/KG)	LINDANE (UG/L)	LINDANE IN BOTTOM DE-POSITS (UG/KG)	CHLOR-DANE (UG/L)	CHLOR-DANE IN BOTTOM DE-POSITS (UG/KG)	DDD (UG/L)	DDD IN BOTTOM DE-POSITS (UG/KG)	DDE (UG/L)	DDE IN BOTTOM DE-POSITS (UG/KG)	DDT (UG/L)	DDT IN BOTTOM DE-POSITS (UG/KG)
MAY 30...	.00	.0	.00	.0	.0	29	.00	26	.00	5.8	.00	.43
JUNE 29...	.00	--	.00	--	.0	--	.00	--	.00	--	.00	--

DATE	DI-ELDRIN (UG/L)	DI-ELDRIN IN BOTTOM DE-POSITS (UG/KG)	ENDRIN (UG/L)	ENDRIN IN BOTTOM DE-POSITS (UG/KG)	ETHION (UG/L)	TOX-APHENE (UG/L)	TOX-APHENE IN BOTTOM DE-POSITS (UG/KG)	HEPTA-CHLOR (UG/L)	HEPTA-CHLOR IN BOTTOM DE-POSITS (UG/KG)	HEPTA-CHLOR EPOXIDE (UG/L)	HEPTA-CHLOR EPOXIDE IN BOTTOM DE-POSITS (UG/KG)
MAY 30...	.00	.4	.00	.0	.00	0	0	.00	.0	.00	.0
JUNE 29...	.00	--	.00	--	.00	0	--	.00	--	.00	--

DATE	PCB (UG/L)	PCB IN BOTTOM DE-POSITS (UG/KG)	MALATHION (UG/L)	PARATHION (UG/L)	DI-AZINON (UG/L)	METHYL PARATHION (UG/L)	2,4-D (UG/L)	2,4,5-T (UG/L)	SILVEX (UG/L)	TRI-THION (UG/L)	METHYL TRI-THION (UG/L)
MAY 30...	.0	0	.00	.00	.00	.00	.03	.00	.01	.00	.00
JUNE 29...	.0	--	.00	.00	.00	.00	.00	.00	.00	.00	.00

## SUSPENDED-SEDIMENT DISCHARGE, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DATE	TIME	TEMPERATURE (DEG C)	INSTANTANEOUS DISCHARGE (CFS)	SUSPENDED SEDIMENT (MG/L)	SUSPENDED SEDIMENT DISCHARGE (T/DAY)
MAR. 27...	0945	5.0	16	9	.39
APR. 09...	0945	--	35	9	.85
09...	1250	10.3	35	7	.66
09...	1300	--	35	7	.66
JULY 17...	1240	19.0	4.9	4	.05
AUG. 07...	1515	18.5	34	13	1.2
08...	1800	20.0	33	7	.62
21...	1030	18.7	5.2	3	.04
23...	0925	--	34	21	1.9
23...	1710	--	35	22	2.1
SEP. 04...	1245	18.8	36	16	1.6
04...	1430	19.4	34	17	1.6
04...	1600	19.4	34	18	1.7
27...	1305	15.0	5.9	3	.05
29...	1230	18.8	11	6	.18
29...	1445	18.9	11	7	.21

## GREAT EGG HARBOR RIVER BASIN

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01410787 GREAT EGG HARBOR RIVER TRIBUTARY AT SICKLERVILLE, N. J.

LOCATION.--Lat 39°43'31", long 74°57'39", Camden County at gaging station at bridge on Blackwood-New Brooklyn Road, 0.8 mi (1.3 km) northeast of Sicklerville, and 0.8 mi (1.3 km) upstream from mouth.

DRAINAGE AREA.--1.64 mi<sup>2</sup> (4.25 km<sup>2</sup>).

PERIOD OF RECORD.--Chemical analyses: January 1972 to September 1974.

Sediment analyses: April to September 1974.

REMARKS.--Miscellaneous storm sediment samples collected during water years 1972-74.

## WATER QUALITY DATA, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DATE	TIME	INSTAN- TANEOUS DIS- CHARGE (CFS)	TEMPER- ATURE (DEG C)	SPE- CIFIC CON- DUCT- ANCE (MICRO- MHOS)	PH (UNITS)	DIS- SOLVED OXYGEN (MG/L)	BIO- CHEM- ICAL OXYGEN DEMAND 5 DAY (MG/L)	TUR- BID- ITY (JTU)	COLOR (PLAT- INUM- COBALT UNITS)	TOTAL NITRITE (N) (MG/L)	DIS- SOLVED NITRITE (N) (MG/L)	TOTAL NITRATE (N) (MG/L)
MAR.												
01...	0900	1.4	--	--	--	--	--	--	--	--	--	--
27...	0845	1.4	6.8	77	6.3	10.8	1.4	--	--	.05	--	.55
APR.												
25...	1100	1.6	14.0	95	6.6	10.1	1.1	30	40	.02	--	.98
MAY												
30...	0945	.92	18.4	97	6.8	8.5	1.5	80	50	.04	--	.72
JUNE												
29...	1340	.75	22.1	122	7.5	7.9	2.4	--	--	.05	--	.65
JULY												
26...	1015	.40	22.5	151	8.5	9.9	4.0	30	4	.04	--	.25
SEP.												
04...	1415	1.7	--	--	--	--	--	--	--	--	--	--
07...	0930	6.1	--	98	7.4	--	1.8	--	--	.05	.01	.42
07...	1130	4.4	--	--	--	--	1.5	--	--	.03	.01	.50
07...	1630	2.5	--	--	--	--	1.3	--	--	.03	.01	.45

DATE	DIS- SOLVED NITRATE (N) (MG/L)	TOTAL KJEL- DAHL NITRO- GEN (N) (MG/L)	DIS- SOLVED KJEL. NITRO- GEN (N) (MG/L)	TOTAL KJEL. NITRO- GEN IN BOTTOM DEP. (MG/KG)	AMMONIA NITRO- GEN (N) (MG/L)	DIS- SOLVED AMMONIA NITRO- GEN (N) (MG/L)	TOTAL AMMONIA NITRO- GEN IN BOTTOM DEP. (MG/KG)	ORGANIC NITRO- GEN (N) (MG/L)	DIS- SOLVED ORGANIC NITRO- GEN (N) (MG/L)	TOTAL NITRO- GEN (N) (MG/L)	TOTAL PHOS- PHORUS (P) (MG/L)
MAR.											
01...	--	--	--	--	--	--	--	--	--	--	--
27...	--	.64	--	--	.48	--	--	.16	--	1.2	.09
APR.											
25...	--	.26	--	--	.14	--	--	.12	--	1.3	.03
MAY											
30...	--	.49	--	270	.08	--	3.5	.41	--	1.3	.07
JUNE											
29...	--	.69	--	--	.17	--	--	.52	--	1.4	.09
JULY											
26...	--	.32	--	102	.25	--	8.0	.07	--	.61	.07
SEP.											
04...	--	--	--	--	--	--	--	--	--	--	--
07...	.45	--	.30	--	.74	.18	--	--	.12	--	.13
07...	.53	.72	.52	--	.52	.18	--	.20	.34	1.3	.10
07...	.48	51	.43	--	.48	.20	--	51	.23	51	.10

WATER QUALITY DATA, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

[illegible]

## GREAT EGG HARBOR RIVER BASIN

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01410787 GREAT EGG HARBOR RIVER TRIBUTARY AT SICKLERVILLE, N. J.--Continued

## WATER QUALITY DATA, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DATE	TOTAL IRON (FE) (UG/L)	TOTAL IRON IN BOTTOM DE-POSITS (UG/G)	TOTAL MANGANESE (MN) (UG/L)	TOTAL MANGANESE IN BOTTOM DE-POSITS (UG/G)	TOTAL ARSENIC (AS) (UG/L)	DIS-SOLVED ARSENIC (AS) (UG/L)	TOTAL ARSENIC IN BOTTOM DE-POSITS (UG/G)	TOTAL CADMIUM (CD) (UG/L)	DIS-SOLVED CADMIUM (CD) (UG/L)	TOTAL CADMIUM IN BOTTOM DE-POSITS (UG/G)	TOTAL CHROMIUM (CR) (UG/L)
MAR. 27...	2400	--	50	--	--	--	--	--	--	--	--
APR. 25...	--	--	--	--	--	1	--	--	0	--	--
MAY 30...	3700	1800	70	12	--	--	2	--	--	0	--
JUNE 29...	--	--	--	--	3	--	--	0	--	--	10
JULY 26...	660	1200	20	250	0	--	1	0	--	0	<10
SEP. 07...	--	--	--	--	3	1	--	1	0	--	10

DATE	DIS-SOLVED CHROMIUM (CR) (UG/L)	TOTAL CHROMIUM IN BOTTOM DE-POSITS (UG/G)	TOTAL COBALT (CO) (UG/L)	TOTAL COBALT IN BOTTOM DE-POSITS (UG/G)	DIS-SOLVED COBALT (CO) (UG/L)	TOTAL COPPER (CU) (UG/L)	TOTAL COPPER IN BOTTOM DE-POSITS (UG/G)	DIS-SOLVED COPPER (CU) (UG/L)	TOTAL LEAD (PB) (UG/L)	DIS-SOLVED LEAD (PB) (UG/L)
MAR. 27...	--	--	--	--	--	--	--	--	--	--
APR. 25...	--	--	--	--	--	--	--	0	--	0
MAY 30...	--	0	--	5	--	--	2	--	--	--
JUNE 29...	--	--	0	--	--	10	--	--	--	7
JULY 26...	--	4	0	0	--	10	1	--	2	--
SEP. 07...	0	--	1	--	0	10	--	10	12	1

DATE	TOTAL LEAD IN BOTTOM DE-POSITS (UG/G)	TOTAL NICKEL (NI) (UG/L)	DIS-SOLVED NICKEL (NI) (UG/L)	TOTAL NICKEL IN BOTTOM DE-POSITS (UG/G)	TOTAL ZINC (ZN) (UG/L)	DIS-SOLVED ZINC (ZN) (UG/L)	TOTAL ZINC IN BOTTOM DE-POSITS (UG/G)	TOTAL MERCURY (HG) (UG/L)	DIS-SOLVED MERCURY (HG) (UG/L)	TOTAL MERCURY IN BOTTOM DE-POSITS (UG/G)
MAR. 27...	--	--	--	--	--	--	--	--	--	--
APR. 25...	--	--	--	--	--	20	--	--	<.5	--
MAY 30...	150	--	--	5	--	--	11	--	--	.0
JUNE 29...	--	1	--	--	30	--	--	<.0	--	--
JULY 26...	61	4	--	1	280	--	18	<.5	--	.1
SEP. 07...	--	29	5	--	30	20	--	.5	<.5	--

DATE	ALDRIN (UG/L)	ALDRIN IN BOTTOM DE-POSITS (UG/KG)	LINDANE (UG/L)	LINDANE IN BOTTOM DE-POSITS (UG/KG)	CHLORDANE (UG/L)	CHLORDANE IN BOTTOM DE-POSITS (UG/KG)	DDD (UG/L)	DDD IN BOTTOM DE-POSITS (UG/KG)	DDE (UG/L)	DDE IN BOTTOM DE-POSITS (UG/KG)	DDT (UG/L)	DDT IN BOTTOM DE-POSITS (UG/KG)
MAR. 27...	.00	.0	.00	.0	.0	1	.00	.6	.00	.6	.00	1.9
MAY 30...	.00	.0	.00	.0	.0	10	.00	2.2	.00	.8	.00	1.7
JUNE 29...	.00	--	.00	--	.0	--	.00	--	.00	--	.00	--
JULY 26...	--	.0	--	.0	--	8	--	9.3	--	.8	--	1.8

## GREAT EGG HARBOR RIVER BASIN

01410787 GREAT EGG HARBOR RIVER TRIBUTARY AT SICKLERVILLE, N. J.--Continued

## WATER QUALITY DATA, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DATE	DI-ELDRIN (UG/L)	DI-ELDRIN IN BOTTOM DE- POSITS (UG/KG)	ENDRIN (UG/L)	ENDRIN IN BOTTOM DE- POSITS (UG/KG)	ETHION (UG/L)	TOX- APHENE (UG/L)	TOX- APHENE IN BOTTOM DE- POSITS (UG/KG)	HEPTA- CHLOR (UG/L)	HEPTA- CHLOR IN BOTTOM DE- POSITS (UG/KG)	HEPTA- CHLOR EPOXIDE (UG/L)	HEPTA- CHLOR EPOXIDE IN BOT- TOM DE- POSITS (UG/KG)
MAR. 27...	.00	.1	.00	.0	.00	0	0	.00	.0	.00	.0
MAY 30...	.00	.3	.00	.0	.00	0	0	.00	.0	.00	.0
JUNE 29...	.00	--	.00	--	.00	0	--	.00	--	.00	--
JULY 26...	--	.2	--	.0	--	--	0	--	.0	--	.0

DATE	PCB (UG/L)	PCB IN BOTTOM DE- POSITS (UG/KG)	MALA- THION (UG/L)	PARA- THION (UG/L)	DI- AZINON (UG/L)	METHYL PARA- THION (UG/L)	2,4-D (UG/L)	2,4,5-T (UG/L)	SILVEX (UG/L)	TRI- THION (UG/L)	METHYL TRI- THION (UG/L)
MAR. 27...	.0	0	.00	.00	.00	.00	.00	.00	.00	.00	.00
MAY 30...	.0	0	.00	.00	.00	.00	.06	.00	.03	.00	.00
JUNE 29...	.0	--	.00	.00	.27	.00	.15	.00	.24	.00	.00
JULY 26...	--	3	--	--	--	--	--	--	--	--	--

## SUSPENDED-SEDIMENT DISCHARGE MEASUREMENTS, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DATE	TIME	TEMPER- ATURE (DEG C)	INSTAN- TANEOUS DIS- CHARGE (CFS)	SUS- PEN- DED SEDI- MENT (MG/L)	SUS- PEN- DED SEDI- MENT DIS- CHARGE (T/DAY)	SUS. SED. FALL DIAM. % FINER THAN .004 MM	SUS. SED. FALL DIAM. % FINER THAN .008 MM	SUS. SED. FALL DIAM. % FINER THAN .016 MM	SUS. SED. FALL DIAM. % FINER THAN .031 MM	SUS. SED. FALL DIAM. % FINER THAN .062 MM	SUS. SED. FALL DIAM. % FINER THAN .125 MM
MAR. 01...	0900	--	1.4	21	.08	--	--	--	--	--	--
27...	0845	6.8	1.3	44	.15	--	--	--	--	--	--
SEP. 04...	1415	--	1.7	116	.53	96	98	99	99	99	100

## 01410787 GREAT EGG HARBOR RIVER TRIBUTARY AT SICKLERVILLE, N. J.--Continued

## SUSPENDED-SEDIMENT DISCHARGE, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	APRIL			MAY			JUNE		
	MEAN DISCHARGE (CFS)	MEAN CONCEN- TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN- TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN- TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)
1	5.7	--	--	.98	23	.06	.86	28	.07
2	3.8	--	--	.92	21	.05	2.6	92	.65
3	3.1	--	--	3.4	84	.77	2.4	74	.48
4	4.7	98	1.2	2.3	60	.37	1.3	41	.14
5	4.0	107	1.2	1.6	50	.22	.92	33	.08
6	3.1	80	.67	2.2	67	.40	.80	31	.07
7	2.4	46	.30	2.1	68	.39	.75	32	.06
8	2.6	39	.27	1.5	55	.22	.75	30	.06
9	7.5	86	1.7	1.7	72	.33	.57	20	.03
10	4.1	65	.72	2.7	83	.61	.86	19	.04
11	2.8	45	.34	2.0	57	.31	.44	21	.02
12	2.4	30	.19	3.8	150	1.5	.47	24	.03
13	4.0	62	.67	4.3	290	3.4	.47	17	.02
14	3.6	48	.47	2.7	170	1.2	.63	9	.02
15	3.1	48	.40	1.7	110	.50	.40	14	.02
16	2.2	29	.17	1.4	80	.30	.44	21	.02
17	2.0	20	.11	1.2	55	.18	.51	17	.02
18	1.7	19	.09	1.2	45	.15	.40	18	.02
19	1.7	16	.07	.98	35	.09	.37	24	.02
20	1.7	11	.05	1.0	24	.06	.33	21	.02
21	1.7	8	.04	.75	22	.04	.57	18	.03
22	1.9	8	.04	.75	19	.04	1.7	91	.42
23	2.4	56	.36	3.0	71	.58	5.3	460	6.6
24	2.0	40	.22	3.2	110	.95	1.5	290	1.2
25	1.6	13	.06	2.7	200	1.5	.80	150	.32
26	1.5	10	.04	1.5	115	.47	.69	160	.30
27	1.4	10	.04	1.2	84	.27	.57	95	.15
28	1.4	12	.05	1.5	67	.27	.92	87	.22
29	1.5	16	.06	.92	58	.14	.80	65	.14
30	.98	19	.05	.86	49	.11	.57	58	.09
31	--	--	--	.80	36	.08	--	--	--
TOTAL	82.58	--	9.58	56.86	--	15.56	29.69	--	11.36

DAY	JULY			AUGUST			SEPTEMBER		
	MEAN DISCHARGE (CFS)	MEAN CONCEN- TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN- TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN- TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)
1	1.2	58	.19	.33	33	.03	.37	32	.03
2	.44	55	.07	.51	35	.05	.40	37	.04
3	.40	46	.05	.57	41	.06	2.4	170	1.1
4	.37	40	.04	.75	60	.12	3.0	400	3.2
5	.29	43	.03	2.7	310	2.3	.69	190	.35
6	11	240	7.1	.51	120	.17	.63	160	.27
7	1.7	110	.50	2.0	104	.56	4.2	110	1.2
8	1.1	84	.25	.80	95	.21	1.1	50	.15
9	.63	70	.12	.69	84	.16	.92	47	.12
10	.51	74	.10	.69	72	.13	.63	44	.07
11	.44	83	.10	.40	65	.07	.57	39	.06
12	.40	85	.09	.51	61	.08	.51	34	.05
13	.40	81	.09	.29	57	.04	.47	28	.04
14	.37	72	.07	.29	50	.04	.69	27	.05
15	.57	74	.11	.29	52	.04	.51	20	.03
16	.37	71	.07	.29	60	.05	.92	20	.05
17	.37	62	.06	.33	76	.07	.40	16	.02
18	.37	49	.05	.33	76	.07	.40	13	.01
19	.37	40	.04	.51	66	.09	.40	12	.01
20	.37	47	.05	.26	75	.05	.40	17	.02
21	.33	38	.03	.22	61	.04	.57	17	.03
22	.51	27	.04	11	290	8.6	.75	18	.04
23	.33	26	.02	3.7	370	3.7	.69	19	.04
24	.47	30	.04	.98	190	.50	.40	17	.02
25	.47	27	.03	.57	120	.18	.40	17	.02
26	.40	25	.03	.86	105	.24	.40	18	.02
27	.40	25	.03	.40	101	.11	.40	12	.01
28	.40	21	.02	.51	103	.14	.80	7	.02
29	.37	29	.03	.40	77	.08	1.5	21	.09
30	.63	36	.07	.44	63	.07	.98	43	.11
31	.37	36	.04	.40	47	.05	--	--	--
TOTAL	26.35	--	9.56	32.53	--	18.10	26.50	--	7.27



## GREAT EGG HARBOR RIVER BASIN

01410788 GREAT EGG HARBOR RIVER AT WINSLOW CROSSING, N. J.

LOCATION.--Lat 39°42'06", long 74°56'16", Camden County, below New Brooklyn Lake at bridge on New Brooklyn Road.

DRAINAGE AREA.--22 mi<sup>2</sup> (57 km<sup>2</sup>).

PERIOD OF RECORD.--Chemical analyses: August 1972 to September 1973 (partial-record station), October 1973 to September 1974.

## WATER QUALITY DATA, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DATE	TIME	TEMPERATURE (DEG C)	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)	DISSOLVED OXYGEN (MG/L)	BIOCHEMICAL OXYGEN DEMAND 5 DAY (MG/L)	TURBIDITY (JTU)	COLOR (PLATINUM-COBALT UNITS)	TOTAL NITRITE (N) (MG/L)	DISSOLVED NITRITE (N) (MG/L)	TOTAL NITRATE (N) (MG/L)
MAR. 27...	1445	7.8	67	5.9	10.6	1.7	--	--	.04	--	.52
APR. 25...	1445	13.9	73	6.3	7.5	1.6	3	80	.01	--	.79
MAY 30...	1015	17.4	72	6.2	5.2	.6	5	70	.02	--	1.1
JUNE 29...	1400	20.0	81	6.9	9.0	1.4	--	--	.02	--	1.1
JULY 26...	1300	21.0	116	5.8	9.1	1.8	4	30	.08	--	1.6
SEP. 07...	1530	--	71	6.9	--	1.6	--	--	.01	.00	.39

DATE	DISSOLVED NITRATE (N) (MG/L)	TOTAL KJELDAHL NITROGEN (N) (MG/L)	DISSOLVED KJEL. NITROGEN (N) (MG/L)	TOTAL KJEL. NITROGEN IN BOTTOM DEP. (MG/KG)	AMMONIA NITROGEN (N) (MG/L)	DISSOLVED AMMONIA NITROGEN (N) (MG/L)	TOTAL AMMONIA NITROGEN IN BOTTOM DEP. (MG/KG)	ORGANIC NITROGEN (N) (MG/L)	DISSOLVED ORGANIC NITROGEN (N) (MG/L)	TOTAL NITROGEN (MG/L)	TOTAL PHOSPHORUS (P) (MG/L)
MAR. 27...	--	.41	--	--	.27	--	--	.14	--	.97	.21
APR. 25...	--	.44	--	--	.44	--	--	.00	--	1.2	.29
MAY 30...	--	.79	--	300	.09	--	2.6	.70	--	1.9	.39
JUNE 29...	--	.42	--	--	.06	--	--	.36	--	1.5	.38
JULY 26...	--	.57	--	--	.41	--	--	.16	--	2.3	.69
SEP. 07...	.44	.58	.34	--	.49	.36	--	.09	.00	.98	.25

DATE	DISSOLVED PHOSPHORUS (P) (MG/L)	TOTAL PHOSPHORUS IN BOTTOM DEPOSITS (MG/KG)	TOTAL ORTHO PHOSPHORUS (P) (MG/L)	DISSOLVED ORTHO PHOSPHORUS (P) (MG/L)	TOTAL ORGANIC CARBON (C) (MG/L)	IN-ORGANIC CARBON IN BED MATERIAL (G/KG)	ORGANIC CARBON IN BED MATERIAL (G/KG)	IMMEDIATE COLIFORM PER 100 ML	FECAL COLIFORM (COL. PER 100 ML)	STREPTOCOCCI (COLONIES PER 100 ML)	ALKALINITY AS CaCO3 (MG/L)
MAR. 27...	--	--	--	.18	--	--	--	72	4	16	4
APR. 25...	--	--	.27	--	10	--	--	408	32	40	6
MAY 30...	--	8	.35	--	--	.0	1.6	2180	144	1600	5
JUNE 29...	--	--	.30	--	--	--	--	1500	180	550	--
JULY 26...	--	--	.57	--	6.9	--	--	--	--	--	16
SEP. 07...	.20	--	.19	.17	22	--	--	--	375	--	--

## GREAT EGG HARBOR RIVER BASIN

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01410788 GREAT EGG HARBOR RIVER AT WINSLOW CROSSING, N. J.--Continued

## WATER QUALITY DATA, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DATE	CAR- BONATE (CO3) (MG/L)	BICAR- BONATE (HCO3) (MG/L)	CARBON DIOXIDE (CO2) (MG/L)	HARD- NESS (CA, MG) (MG/L)	NON- CAR- BONATE HARD- NESS (MG/L)	DIS- SOLVED CAL- CIUM (CA) (MG/L)	TOTAL CAL- CIUM (CA) (MG/L)	DIS- SOLVED MAG- NE- SIUM (MG) (MG/L)	TOTAL MAG- NE- SIUM (MG) (MG/L)	TOTAL SODIUM (NA) (MG/L)	DIS- SOLVED SODIUM (NA) (MG/L)
MAR. 27...	0	5	10	13	9	3.3	--	1.2	--	--	5.3
APR. 25...	0	7	5.6	17	11	4.0	--	1.6	--	--	6.0
MAY 30...	0	6	6.1	--	--	--	4.8	--	1.7	7.2	--
JUNE 29...	--	--	--	--	--	--	--	--	--	--	--
JULY 26...	0	20	51	--	--	--	4.7	--	1.6	13	--
SEP. 07...	--	--	--	--	--	--	--	--	--	--	--

DATE	DIS- SOLVED PO- TAS- SIUM (K) (MG/L)	DIS- SOLVED SOLIDS (RESI- DUE AT 180 C) (MG/L)	DIS- SOLVED SOLIDS (SUM OF CONSTI- TUENTS) (MG/L)	DIS- SOLVED SOLIDS (TONS PER AC-FT)	TOTAL PO- TAS- SIUM (K) (MG/L)	DIS- SOLVED CHLO- RIDE (CL) (MG/L)	DIS- SOLVED SULFATE (SO4) (MG/L)	DIS- SOLVED FLUO- RIDE (F) (MG/L)	TOTAL FLUO- RIDE (F) (MG/L)	DIS- SOLVED SILICA (SI02) (MG/L)
MAR. 27...	1.6	--	39	.05	--	7.5	13	.0	--	3.8
APR. 25...	1.9	57	40	.08	--	8.5	12	.1	--	2.7
MAY 30...	--	75	--	.10	2.0	9.6	12	--	.2	4.9
JUNE 29...	--	--	--	--	--	--	--	--	--	--
JULY 26...	--	67	--	.09	2.8	11	12	--	.1	2.4
SEP. 07...	--	--	--	--	--	--	--	--	--	--

DATE	TOTAL IRON (FE) (UG/L)	TOTAL IRON IN BOTTOM DE- POSITS (UG/G)	TOTAL MAN- GANESE (MN) (UG/L)	TOTAL MANGA- NESE IN BOTTOM DE- POSITS (UG/G)	TOTAL ARSENIC (AS) (UG/L)	DIS- SOLVED ARSENIC (AS) (UG/L)	TOTAL ARSENIC IN BOTTOM DE- POSITS (UG/G)	TOTAL CAD- MIUM (CD) (UG/L)	DIS- SOLVED CAD- MIUM (CD) (UG/L)	TOTAL CADMIUM IN BOTTOM DE- POSITS (UG/G)	TOTAL CHRO- MIUM (CR) (UG/L)
MAR. 27...	450	--	30	--	--	--	--	--	--	--	--
APR. 25...	--	--	--	--	--	2	--	--	0	--	--
MAY 30...	900	1400	40	0	--	--	1	--	--	0	--
JUNE 29...	--	--	--	--	1	--	--	0	--	--	0
JULY 26...	340	--	0	--	0	--	--	0	--	--	<10
SEP. 07...	--	--	--	--	<1	0	--	1	0	--	0

DATE	DIS- SOLVED CHRO- MIUM (CR) (UG/L)	TOTAL CHRO- MIUM IN BOTTOM DE- POSITS (UG/G)	TOTAL COBALT (CO) (UG/L)	TOTAL COBALT IN BOTTOM DE- POSITS (UG/G)	DIS- SOLVED COBALT (CO) (UG/L)	TOTAL COPPER (CU) (UG/L)	TOTAL COPPER IN BOTTOM DE- POSITS (UG/G)	DIS- SOLVED COPPER (CU) (UG/L)	TOTAL LEAD (PB) (UG/L)	DIS- SOLVED LEAD (PB) (UG/L)
MAR. 27...	--	--	--	--	--	--	--	--	--	--
APR. 25...	--	--	--	--	--	--	--	0	--	1
MAY 30...	--	0	--	0	--	--	0	--	--	--
JUNE 29...	--	--	0	--	--	0	--	--	2	--
JULY 26...	--	--	0	--	--	10	--	--	0	--
SEP. 07...	0	--	1	--	0	10	--	0	4	1

## GREAT EGG HARBOR RIVER BASIN

01410788 GREAT EGG HARBOR RIVER AT WINSLOW CROSSING, N. J.--Continued

## WATER QUALITY DATA, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DATE	TOTAL LEAD IN BOTTOM DE-POSITS (UG/G)	TOTAL NICKEL (NI) (UG/L)	DIS-SOLVED NICKEL (NI) (UG/L)	TOTAL NICKEL IN BOTTOM DE-POSITS (UG/G)	TOTAL ZINC (ZN) (UG/L)	DIS-SOLVED ZINC (ZN) (UG/L)	TOTAL ZINC IN BOTTOM DE-POSITS (UG/G)	TOTAL MERCURY (HG) (UG/L)	DIS-SOLVED MERCURY (HG) (UG/L)	TOTAL MERCURY IN BOTTOM DE-POSITS (UG/G)
MAR. 27...	--	--	--	--	--	--	--	--	--	--
APR. 25...	--	--	--	--	--	20	--	--	<.5	--
MAY 30...	<10	--	--	5	--	--	2	--	--	.0
JUNE 29...	--	0	--	--	30	--	--	<.5	--	--
JULY 26...	--	3	--	--	510	--	--	<.5	--	--
SEP. 07...	--	6	5	--	20	20	--	<.5	<.5	--

DATE	ALDRIN (UG/L)	ALDRIN IN BOTTOM DE-POSITS (UG/KG)	LINDANE (UG/L)	LINDANE IN BOTTOM DE-POSITS (UG/KG)	CHLOR-DANE (UG/L)	CHLOR-DANE IN BOTTOM DE-POSITS (UG/KG)	DDD (UG/L)	DDD IN BOTTOM DE-POSITS (UG/KG)	DDE (UG/L)	DDE IN BOTTOM DE-POSITS (UG/KG)	DDT (UG/L)	DDT IN BOTTOM DE-POSITS (UG/KG)
MAY 30...	.00	.0	.00	.0	.0	0	.00	.3	.00	.2	.00	.0
JUNE 29...	.00	--	.00	--	.0	--	.00	--	.00	--	.00	--

DATE	DI-ELDRIN (UG/L)	DI-ELDRIN IN BOTTOM DE-POSITS (UG/KG)	ENDRIN (UG/L)	ENDRIN IN BOTTOM DE-POSITS (UG/KG)	ETHION (UG/L)	TOX-APHENE (UG/L)	TOX-APHENE IN BOTTOM DE-POSITS (UG/KG)	HEPTA-CHLOR (UG/L)	HEPTA-CHLOR IN BOTTOM DE-POSITS (UG/KG)	HEPTA-CHLOR EPOXIDE (UG/L)	HEPTA-CHLOR EPOXIDE IN BOTTOM DE-POSITS (UG/KG)
MAY 30...	.00	.0	.00	.0	.00	0	0	.00	.0	.00	.0
JUNE 29...	.00	--	.00	--	.00	0	--	.00	--	.00	--

DATE	PCB (UG/L)	PCB IN BOTTOM DE-POSITS (UG/KG)	MALA-THION (UG/L)	PARA-THION (UG/L)	DI-AZINON (UG/L)	METHYL PARA-THION (UG/L)	2,4-D (UG/L)	2,4,5-T (UG/L)	SILVEX (UG/L)	TRI-THION (UG/L)	METHYL TRI-THION (UG/L)
MAY 30...	.0	0	.00	.00	.00	.00	.00	.00	.00	.00	.00
JUNE 29...	.0	--	.00	.00	.00	.00	.00	.00	.01	.00	.00

## GREAT EGG HARBOR RIVER BASIN

171

394222074570601 EAST STORM DRAIN-WINSLOW CROSSING NEAR SICKLERVILLE, N. J.

LOCATION.--39°42'42", long 74°57'06", Camden County, eastside of Sicklerville Road, 0.5 mi (0.8 km) N.W. of Sicklerville-New Brooklyn Road.

DRAINAGE AREA.--

PERIOD OF RECORD.--Chemical analyses: May 1973 to September 1973 (partial-record station), October 1973 to September 1974.

## WATER QUALITY DATA, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DATE	TIME	TEMPER- ATURE (DEG C)	SPE- CIFIC CON- DUCT- ANCE (MICRO- MHOS)	PH (UNITS)	DIS- SOLVED OXYGEN (MG/L)	BIO- CHEM- ICAL OXYGEN DEMAND 5 DAY (MG/L)	TUR- BID- ITY (JTU)	COLOR (PLAT- INUM- COBALT UNITS)	TOTAL NITRITE (N) (MG/L)	DIS- SOLVED NITRITE (N) (MG/L)	TOTAL NITRATE (N) (MG/L)
MAR. 27...	1245	6.8	193	6.6	10.2	1.2	--	--	.02	--	.90
APR. 26...	1030	13.3	192	6.8	8.6	2.5	20	40	.03	--	1.1
MAY 04...	0130	15.5	--	--	6.7	--	--	--	--	--	--
04...	0730	--	130	--	--	2.8	--	--	.02	--	.46
04...	0830	12.3	--	--	6.3	--	--	--	--	--	--
04...	0930	12.8	155	--	6.7	2.0	--	--	.03	--	.57
04...	1045	14.0	--	--	6.2	--	--	--	--	--	--
04...	1200	15.0	163	--	6.6	2.4	--	--	.02	--	.62
04...	1435	16.5	151	--	7.6	3.8	--	--	.03	--	.65
04...	1545	17.0	--	--	7.5	--	--	--	--	--	--
04...	1645	17.5	172	--	7.8	2.5	--	--	.04	--	.70
04...	1745	17.5	--	--	7.6	--	--	--	--	--	--
04...	1830	17.0	180	--	8.7	2.4	--	--	.03	--	.73
31...	0915	18.3	183	7.1	5.3	1.8	20	20	.05	--	.83
JUNE 29...	1100	17.8	197	7.5	4.0	2.7	--	--	.04	--	.63
JULY 26...	1100	23.8	208	6.0	5.3	5.0	30	30	5.0	--	.61
AUG. 14...	--	--	--	8.2	--	--	--	--	.21	--	4.6
SEP. 07...	0800	--	65	6.9	--	2.7	--	--	.01	.00	.12

DATE	DIS- SOLVED NITRATE (N) (MG/L)	TOTAL KJEL- DAHL NITRO- GEN (N) (MG/L)	DIS- SOLVED KJEL- NITRO- GEN (N) (MG/L)	TOTAL KJEL- NITRO- GEN IN BOTTOM DEP. (MG/KG)	AMMONIA NITRO- GEN (N) (MG/L)	DIS- SOLVED AMMONIA NITRO- GEN (N) (MG/L)	TOTAL AMMONIA NITRO- GEN IN BOTTOM DEP. (MG/KG)	ORGANIC NITRO- GEN (N) (MG/L)	DIS- SOLVED ORGANIC NITRO- GEN (N) (MG/L)	TOTAL NITRO- GEN (N) (MG/L)	TOTAL PHOS- PHORUS (P) (MG/L)
MAR. 27...	--	.24	--	620	.12	--	150	.12	--	1.2	.03
APR. 26...	--	.32	--	--	.20	--	--	.12	--	1.4	.02
MAY 04...	--	--	--	--	--	--	--	--	--	--	--
04...	--	.50	--	--	.00	--	--	.50	--	.98	.07
04...	--	--	--	--	--	--	--	--	--	--	--
04...	--	.52	--	--	.01	--	--	.51	--	1.1	.07
04...	--	--	--	--	--	--	--	--	--	--	--
04...	--	.57	--	--	.00	--	--	.57	--	1.2	.08
04...	--	.53	--	--	.00	--	--	.53	--	1.2	.05
04...	--	--	--	--	--	--	--	--	--	--	--
04...	--	.54	--	--	.03	--	--	.51	--	1.3	.06
04...	--	--	--	--	--	--	--	--	--	--	--
04...	--	.70	--	--	.01	--	--	.69	--	1.5	.06
31...	--	.51	--	440	.10	--	11	.41	--	1.4	.03
JUNE 29...	--	.94	--	--	.38	--	--	.56	--	1.6	.11
JULY 26...	--	.79	--	38	.24	--	5.0	.55	--	1.5	7.0
AUG. 14...	--	--	--	--	--	--	--	--	--	--	.68
SEP. 07...	.13	.49	.37	--	.36	.24	--	.13	.13	.62	.20

WATER QUALITY DATA, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

[illegible]

## GREAT EGG HARBOR RIVER BASIN

173

394222074570601 EAST STORM DRAIN-WINSLOW CROSSING NEAR SICKLERVILLE, N. J.--Continued

## WATER QUALITY DATA, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DATE	DIS-SOLVED PO- SIUM (K) (MG/L)	DIS-SOLVED SOLIDS (RESI- DUE AT 180 C) (MG/L)	DIS-SOLVED SOLIDS (SUM OF TUENTS) (MG/L)	DIS-SOLVED SOLIDS (TONS PER AC-FT)	TOTAL PO- SIUM (K) (MG/L)	DIS-SOLVED CHLO- RIDE (CL) (MG/L)	DIS-SOLVED SULFATE (SO4) (MG/L)	DIS-SOLVED FLUO- RIDE (F) (MG/L)	TOTAL FLUO- RIDE (F) (MG/L)	DIS-SOLVED SILICA (SI02) (MG/L)
MAR. 27...	1.6	--	100	.14	--	7.7	22	.1	--	3.8
APR. 26...	1.8	109	99	.15	--	7.5	22	.2	--	3.7
MAY 04...	--	--	--	--	--	--	--	--	--	--
04...	--	--	--	--	--	--	--	--	--	--
04...	--	--	--	--	--	--	--	--	--	--
04...	--	--	--	--	--	--	--	--	--	--
04...	--	--	--	--	--	--	--	--	--	--
04...	--	--	--	--	--	--	--	--	--	--
04...	--	--	--	--	--	--	--	--	--	--
04...	--	--	--	--	--	--	--	--	--	--
04...	--	--	--	--	--	--	--	--	--	--
04...	--	--	--	--	--	--	--	--	--	--
31...	--	130	--	.18	1.6	9.3	19	--	.3	3.6
JUNE 29...	--	--	--	--	--	--	--	--	--	--
JULY 26...	--	133	--	.18	2.0	7.7	22	--	.1	3.1
AUG. 14...	--	--	--	--	--	23	--	--	--	--
SEP. 07...	--	--	--	--	--	--	--	--	--	--

DATE	TOTAL IRON (FE) (UG/L)	TOTAL IRON IN BOTTOM DE- POSITS (UG/G)	TOTAL MAN- GANESE (MN) (UG/L)	TOTAL MANGA- NESE IN BOTTOM DE- POSITS (UG/G)	TOTAL ARSENIC (AS) (UG/L)	DIS- SOLVED ARSENIC (AS) (UG/L)	TOTAL ARSENIC IN BOTTOM DE- POSITS (UG/G)	TOTAL CAD- MIUM (CD) (UG/L)	DIS- SOLVED CAD- MIUM (CU) (UG/L)	TOTAL CADMIUM IN BOTTOM DE- POSITS (UG/G)	TOTAL CHRO- MIUM (CR) (UG/L)
MAR. 27...	3900	--	80	--	--	--	--	--	--	--	--
APR. 26...	--	--	--	--	--	<1	--	--	0	--	--
MAY 31...	3700	2300	70	6	--	--	2	--	--	0	--
JUNE 29...	--	--	--	--	6	--	--	1	--	--	10
JULY 26...	2700	560	40	200	0	--	0	0	--	0	0
SEP. 07...	--	--	--	--	4	2	--	1	0	--	0

DATE	DIS- SOLVED CHRO- MIUM (CR) (UG/L)	TOTAL CHRO- MIUM IN BOTTOM DE- POSITS (UG/G)	TOTAL COBALT (CO) (UG/L)	TOTAL COBALT IN BOTTOM DE- POSITS (UG/G)	DIS- SOLVED COBALT (CO) (UG/L)	TOTAL COPPER (CU) (UG/L)	TOTAL COPPER IN BOTTOM DE- POSITS (UG/G)	DIS- SOLVED COPPER (CU) (UG/L)	TOTAL LEAD (PB) (UG/L)	DIS- SOLVED LEAD (PB) (UG/L)
MAR. 27...	--	--	--	--	--	--	--	--	--	--
APR. 26...	--	--	--	--	--	--	--	0	--	1
MAY 31...	--	1	--	0	--	--	0	--	--	--
JUNE 29...	--	--	0	--	--	10	--	--	12	--
JULY 26...	--	1	0	0	--	10	1	--	9	--
SEP. 07...	0	--	1	--	0	0	--	10	11	0



WATER QUALITY DATA, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

[illegible]

## GREAT EGG HARBOR RIVER BASIN

175

01410789 GREAT EGG HARBOR RIVER TRIBUTARY NO. 2 AT WINSLOW CROSSING, N. J.

LOCATION.--Lat 39°42'20", long 74°57'07", Camden County, on Sicklerville Road, 1.2 mi (1.9 km) southeast of Winslow Crossing at head of storm sewer which runs into Great Egg Harbor River 0.7 mi (1.1 km) downstream.

DRAINAGE AREA.--0.23 mi<sup>2</sup> (0.60 km<sup>2</sup>).

PERIOD OF RECORD.--Chemical analyses: Water year 1972 (partial-record station), October 1972 to September 1974.

REMARKS.--Miscellaneous storm sediment samples collected during water years 1973-74.

## WATER QUALITY DATA, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DATE	TIME	INSTAN- TANEOUS DIS- CHARGE (CFS)	TEMPER- ATURE (DEG C)	SPE- CIFIC CON- DUCT- ANCE (MICRO- MHOS)	PH (UNITS)	DIS- SOLVED OXYGEN (MG/L)	BIO- CHEM- ICAL OXYGEN DEMAND 5 DAY (MG/L)	TUR- BID- ITY (JTU)	COLOR (PLAT- INUM- COBALT UNITS)	TOTAL NITRITE (N) (MG/L)
MAR.										
01...	0920	1.7	--	--	--	--	--	--	--	--
27...	1315	1.4	7.0	182	6.8	11.7	9.0	--	--	.02
APR.										
09...	1010	12	--	--	--	--	--	--	--	--
09...	1020	12	--	--	--	--	--	--	--	--
09...	1400	5.6	--	--	--	--	--	--	--	--
26...	1100	--	13.0	165	6.9	11.0	2.0	4	4	.01
MAY										
04...	0745	--	--	150	--	--	.7	--	--	.03
04...	0845	--	11.0	--	--	9.2	--	--	--	--
04...	0945	--	11.5	150	--	9.0	.6	--	--	.02
04...	1100	--	13.0	--	--	9.4	--	--	--	--
04...	1215	--	15.0	151	--	11.4	.9	--	--	.03
04...	1345	--	18.5	--	--	9.4	--	--	--	--
04...	1445	--	19.0	150	--	10.1	.7	--	--	.02
04...	1600	--	20.5	--	--	10.5	--	--	--	--
04...	1655	--	19.5	129	--	10.0	.9	--	--	.02
04...	1750	--	20.0	--	--	11.0	--	--	--	--
04...	1840	--	--	152	--	--	--	--	--	.03
31...	0815	--	14.8	175	6.8	7.7	1.3	60	2	.02
JUNE										
07...	2010	--	18.4	--	7.0	8.5	--	--	--	--
07...	2115	--	18.2	--	7.0	8.6	--	--	--	--
07...	2230	--	17.9	194	7.0	7.5	4.2	--	--	.07
08...	0030	--	17.5	--	6.8	6.9	--	--	--	--
08...	0145	--	17.3	--	6.9	6.8	--	--	--	--
08...	0320	.83	16.9	188	6.7	--	2.9	--	--	.09
08...	0700	--	16.8	--	6.7	6.2	--	--	--	--
08...	0800	--	16.7	--	6.7	6.4	--	--	--	--
08...	0850	--	16.8	--	6.5	6.5	--	--	--	--
08...	0945	--	17.0	191	6.5	7.0	1.3	--	--	.08
08...	1040	--	17.5	--	6.0	7.5	--	--	--	--
08...	1150	--	18.3	--	7.8	9.0	--	--	--	--
08...	1250	--	19.2	--	6.3	9.7	--	--	--	--
08...	1345	.84	20.9	--	6.8	11.8	--	--	--	--
08...	1440	--	22.7	175	7.4	13.9	1.1	--	--	.06
08...	1545	--	24.5	--	7.2	14.8	--	--	--	--
08...	1645	--	25.2	--	7.2	14.7	--	--	--	--
08...	1740	--	25.4	--	7.0	14.0	--	--	--	--
29...	0950	--	17.8	196	8.4	8.6	1.1	--	--	.06

## WATER QUALITY DATA, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DATE	TOTAL NITRATE (N) (MG/L)	TOTAL KJEL- DAHL NITRO- GEN (N) (MG/L)	TOTAL KJEL- NITRO- GEN IN BOTTOM DEP. (MG/KG)	AMMONIA NITRO- GEN (N) (MG/L)	TOTAL AMMONIA NITRO- GEN IN BOTTOM DEP. (MG/KG)	ORGANIC NITRO- GEN (N) (MG/L)	TOTAL NITRO- GEN (N) (MG/L)	TOTAL PHOS- PHORUS (P) (MG/L)	TOTAL PHOS- PHORUS IN BOT- TOM DE- POSITS (MG/KG)	TOTAL ORTHO PHOS- PHORUS (P) (MG/L)
MAR.										
01...	--	--	--	--	--	--	--	--	--	--
27...	2.6	.47	1050	.13	290	.34	3.1	.02	181	--
APR.										
09...	--	--	--	--	--	--	--	--	--	--
09...	--	--	--	--	--	--	--	--	--	--
09...	--	--	--	--	--	--	--	--	--	--
26...	3.3	.14	--	.02	--	.12	3.4	.01	--	.00
MAY										
04...	2.4	.36	--	.03	--	.33	2.8	.03	--	.01
04...	--	--	--	--	--	--	--	--	--	--
04...	2.5	.36	--	.02	--	.34	2.9	.03	--	.01
04...	--	--	--	--	--	--	--	--	--	--
04...	2.5	.29	--	.01	--	.28	2.8	.03	--	.01
04...	--	--	--	--	--	--	--	--	--	--
04...	2.6	.37	--	.01	--	.36	3.0	.03	--	.01
04...	--	--	--	--	--	--	--	--	--	--
04...	2.5	.32	--	.01	--	.31	2.8	.03	--	.01
04...	--	--	--	--	--	--	--	--	--	--
04...	2.5	.32	--	.02	--	.30	2.8	.04	--	.01
31...	3.1	.31	230	.10	6.9	.21	3.4	.04	19	.01
JUNE										
07...	--	--	--	--	--	--	--	--	--	--
07...	--	--	--	--	--	--	--	--	--	--
07...	3.1	1.1	--	.44	--	.66	4.3	.23	--	.14
08...	--	--	--	--	--	--	--	--	--	--
08...	--	--	--	--	--	--	--	--	--	--
08...	3.1	.97	--	.46	--	.51	4.2	.16	--	.10
08...	--	--	--	--	--	--	--	--	--	--
08...	--	--	--	--	--	--	--	--	--	--
08...	--	--	--	--	--	--	--	--	--	--
08...	2.9	.90	--	.46	--	.44	3.9	.17	--	.08
08...	--	--	--	--	--	--	--	--	--	--
08...	--	--	--	--	--	--	--	--	--	--
08...	--	--	--	--	--	--	--	--	--	--
08...	3.0	.66	--	.14	--	.52	3.8	.11	--	.07
08...	--	--	--	--	--	--	--	--	--	--
08...	--	--	--	--	--	--	--	--	--	--
08...	--	--	--	--	--	--	--	--	--	--
29...	2.7	.35	--	.04	--	.31	3.2	.06	--	.01

DATE	TOTAL ORGANIC CARBON (C) (MG/L)	DIS- SOL- VED ORGANIC CARBON (C) (MG/L)	IN- ORGANIC CARBON IN BED MA- TERIAL (G/KG)	ORGANIC CARBON IN BED MA- TERIAL (C) (G/KG)	IMME- DIATE COLI- FORM (COL. PER 100 ML)	FECAL COLI- FORM (COL. PER 100 ML)	STREP- TOCOCCI (COL- ONIES PER 100 ML)	ALKA- LITY AS CACO3 (MG/L)	CAR- BONATE (CO3) (MG/L)	BICAR- BONATE (HCO3) (MG/L)
MAR.										
01...	--	--	--	--	--	--	--	--	--	--
27...	--	--	.4	8.8	13	0	7	0	0	56
APR.										
09...	--	--	--	--	--	--	--	--	--	--
09...	--	--	--	--	--	--	--	--	--	--
09...	--	--	--	--	--	--	--	--	--	--
26...	--	--	--	--	44	8	0	39	0	48
MAY										
04...	3.1	--	--	--	--	--	--	--	--	--
04...	--	--	--	--	--	--	--	--	--	--
04...	2.9	--	--	--	--	--	--	--	--	--
04...	--	--	--	--	--	--	--	--	--	--
04...	2.7	--	--	--	--	--	--	--	--	--
04...	--	--	--	--	--	--	--	--	--	--
04...	--	--	--	--	--	--	--	--	--	--
04...	--	--	--	--	--	--	--	--	--	--
04...	--	--	--	--	--	--	--	--	--	--
04...	--	--	--	--	--	--	--	--	--	--
04...	3.6	--	--	--	--	--	--	--	--	--
31...	2.7	--	.2	2.4	4	248	2800	40	0	49
JUNE										
07...	--	--	--	--	--	--	--	--	--	--
07...	--	--	--	--	--	--	--	--	--	--
07...	6.2	--	--	--	--	--	--	--	--	--
08...	--	--	--	--	--	--	--	--	--	--
08...	--	--	--	--	--	--	--	--	--	--
08...	4.9	--	--	--	--	--	--	--	--	--
08...	--	--	--	--	--	--	--	--	--	--
08...	--	--	--	--	--	--	--	--	--	--
08...	3.7	--	--	--	--	--	--	--	--	--
08...	--	--	--	--	--	--	--	--	--	--
08...	--	--	--	--	--	--	--	--	--	--
08...	--	--	--	--	--	--	--	--	--	--
08...	2.0	--	--	--	--	--	--	--	--	--
08...	--	--	--	--	--	--	--	--	--	--
08...	--	--	--	--	--	--	--	--	--	--
08...	--	--	--	--	--	--	--	--	--	--
29...	--	5.2	--	--	1100	1120	350	--	--	--

WATER QUALITY DATA, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

[illegible][illegible]

01410789 GREAT EGG HARBOR RIVER TRIBUTARY No. 2 WINSLOW CROSSING, N. J.--Continued

[illegible][illegible]

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WATER QUALITY DATA, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

[illegible][illegible]



01410789 GREAT EGG HARBOR RIVER TRIBUTARY No. 2 WINSLOW CROSSING, N. J.--Continued

## WATER QUALITY DATA, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DATE	TOTAL IRON (FE) (UG/L)	TOTAL IRON IN BOTTOM DE-POSITS (UG/G)	TOTAL MANGANESE (MN) (UG/L)	TOTAL MANGANESE IN BOTTOM DE-POSITS (UG/G)	TOTAL ARSENIC (AS) (UG/L)	DIS-SOLVED ARSENIC (AS) (UG/L)	TOTAL ARSENIC IN BOTTOM DE-POSITS (UG/G)	TOTAL CADMIUM (CD) (UG/L)	DIS-SOLVED CADMIUM (CD) (UG/L)	TOTAL CADMIUM IN BOTTOM DE-POSITS (UG/G)	TOTAL CHROMIUM (CR) (UG/L)
APR. 26...	--	--	--	--	--	1	--	--	0	--	--
MAY 31...	2700	2300	110	6	--	--	1	--	--	0	--
JUNE 29...	--	--	--	--	0	--	--	0	--	--	<10
JULY 26...	1400	890	570	140	0	--	1	0	--	0	<10
SEP. 07...	--	--	--	--	3	1	--	1	0	--	0

DATE	DIS-SOLVED CHROMIUM (CR) (UG/L)	TOTAL CHROMIUM IN BOTTOM DE-POSITS (UG/G)	TOTAL COBALT (CO) (UG/L)	TOTAL COBALT IN BOTTOM DE-POSITS (UG/G)	DIS-SOLVED COBALT (CO) (UG/L)	TOTAL COPPER (CU) (UG/L)	TOTAL COPPER IN BOTTOM DE-POSITS (UG/G)	DIS-SOLVED COPPER (CU) (UG/L)	TOTAL LEAD (PB) (UG/L)	DIS-SOLVED LEAD (PB) (UG/L)
APR. 26...	--	--	--	--	--	--	--	0	--	0
MAY 31...	--	1	--	5	--	--	0	--	--	--
JUNE 29...	--	--	2	--	--	0	--	--	15	--
JULY 26...	--	6	0	0	--	10	1	--	9	--
SEP. 07...	0	--	1	--	1	0	--	10	12	13

DATE	TOTAL LEAD IN BOTTOM DE-POSITS (UG/G)	TOTAL NICKEL (NI) (UG/L)	DIS-SOLVED NICKEL (NI) (UG/L)	TOTAL NICKEL IN BOTTOM DE-POSITS (UG/G)	TOTAL ZINC (ZN) (UG/L)	DIS-SOLVED ZINC (ZN) (UG/L)	TOTAL ZINC IN BOTTOM DE-POSITS (UG/G)	TOTAL MERCURY (HG) (UG/L)	DIS-SOLVED MERCURY (HG) (UG/L)	TOTAL MERCURY IN BOTTOM DE-POSITS (UG/G)
APR. 26...	--	--	--	--	--	0	--	--	<.5	--
MAY 31...	<10	--	--	5	--	--	12	--	--	.0
JUNE 29...	--	1	--	--	10	--	--	<.5	--	--
JULY 26...	6	3	--	5	0	--	3	<.5	--	270
SEP. 07...	--	5	5	--	20	20	--	<.5	<.5	--

DATE	ALDRIN (UG/L)	ALDRIN IN BOTTOM DE-POSITS (UG/KG)	LINDANE (UG/L)	LINDANE IN BOTTOM DE-POSITS (UG/KG)	CHLORDANE (UG/L)	CHLORDANE IN BOTTOM DE-POSITS (UG/KG)	DDD (UG/L)	DDD IN BOTTOM DE-POSITS (UG/KG)	DDE (UG/L)	DDE IN BOTTOM DE-POSITS (UG/KG)	DDT (UG/L)	DDT IN BOTTOM DE-POSITS (UG/KG)
MAR. 27...	.00	.0	.00	.0	.0	16	.00	55	.00	18	.00	35
MAY 31...	--	.0	--	.0	--	25	--	13	--	5.0	--	6.3
JUNE 29...	.00	--	.00	--	.0	--	<.01	--	.00	--	.00	--
JULY 26...	--	.0	--	.0	--	5	--	2.4	--	.4	--	1.3

## GREAT EGG HARBOR RIVER BASIN

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01410789 GREAT EGG HARBOR RIVER TRIBUTARY No. 2 WINSLOW CROSSING, N. J.--Continued

## WATER QUALITY DATA, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DATE	DI-ELDRIN (UG/L)	DI-ELDRIN IN BOTTOM DE- POSITS (UG/KG)	ENDRIN (UG/L)	ENDRIN IN BOTTOM DE- POSITS (UG/KG)	ETHION (UG/L)	TOX- APHENE (UG/L)	TOX- APHENE IN BOTTOM DE- POSITS (UG/KG)	HEPTA- CHLOR (UG/L)	HEPTA- CHLOR IN BOTTOM DE- POSITS (UG/KG)	HEPTA- CHLOR EPOXIDE (UG/L)	HEPTA- CHLOR EPOXIDE IN BOT- TOM DE- POSITS (UG/KG)
MAR. 27...	.00	3.6	.00	2.4	.00	0	0	.00	.0	.00	.4
MAY 31...	--	1.3	--	.6	--	--	0	--	.0	--	.0
JUNE 29...	<.01	--	.00	--	.00	0	--	.00	--	.00	--
JULY 26...	--	.2	--	.0	--	--	0	--	.0	--	.0

DATE	PCB (UG/L)	PCB IN BOTTOM DE- POSITS (UG/KG)	MALA- THION (UG/L)	PARA- THION (UG/L)	DI- AZINON (UG/L)	METHYL PARA- THION (UG/L)	2,4-D (UG/L)	2,4,5-T (UG/L)	SILVEX (UG/L)	TRI- THION (UG/L)	METHYL TRI- THION (UG/L)
MAR. 27...	.0	5	.00	--	.00	.00	.25	.27	.00	--	.00
MAY 31...	--	0	--	--	--	--	.00	.00	.01	--	--
JUNE 29...	.0	--	.00	.00	.00	.00	.08	.00	.04	.00	.00
JULY 26...	--	0	--	--	--	--	--	--	--	--	--

## SUSPENDED-SEDIMENT DISCHARGE MEASUREMENTS, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DATE	TIME	TEMPER- ATURE (DEG C)	INSTAN- TANEOUS DIS- CHARGE (CFS)	SUS- PEN- DED SEDIM- ENT DIS- CHARGE (MG/L)	SUS- PEN- DED SEDIM- ENT DIS- CHARGE (T/DAY)
MAR. 01...	0920	--	1.7	2	.01
MAR. 27...	1315	7.0	1.4	12	.05
APR. 09...	1010	--	12	46	1.5
APR. 09...	1020	--	12	44	1.4
APR. 09...	1400	--	5.6	38	.57
JULY 17...	1340	27.2	1.2	35	.11
AUG. 07...	1445	20.6	4.7	80	1.0
AUG. 08...	1845	24.0	2.4	43	.28
AUG. 21...	0945	21.2	1.2	35	.11
AUG. 23...	0905	--	3.3	72	.64
AUG. 23...	1640	--	3.1	51	.43
SEP. 27...	1335	20.7	.86	15	.03
SEP. 29...	1330	22.8	5.7	28	.43
SEP. 29...	1455	23.8	5.7	26	.40

## GREAT EGG HARBOR RIVER BASIN

01410803 FOURMILE BRANCH AT WINSLOW CROSSING, N.J.

LOCATION.--Lat 39°42'07", long 74°58'11", Camden County, at partial-record gaging station at bridge on Andrews Road, 1.4 mi (2.2 km) northeast of Williamstown.

DRAINAGE AREA.--6.19 mi<sup>2</sup> (21.8 km<sup>2</sup>).

PERIOD OF RECORD.--Chemical analyses: January 1972 to September 1974.

## WATER QUALITY DATA: WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DATE	TIME	INSTANTANEOUS DIS- CHARGE (CFS)	TEMPER- ATURE (DEG C)	SPE- CIFIC CON- DUCT- ANCE (MICRO- MHOS)	PH (UNITS)	DIS- SOLVED OXYGEN (MG/L)	BIO- CHEM- ICAL OXYGEN DEMAND 5 DAY (MG/L)	TUR- BID- ITY (JTU)	COLOR (PLAT- INUM- COBALT UNITS)	TOTAL NITRITE (N) (MG/L)
MAR.										
27...	1215	--	7.2	57	5.0	10.0	1.8	--	--	.01
APR.										
25...	1245	--	13.0	54	4.9	.8	.8	3	50	.01
MAY										
30...	1430	--	16.3	45	5.5	8.8	1.5	40	60	.01
JUNE										
07...	1940	--	14.4	--	5.4	8.2	--	--	--	--
07...	2040	5.8	14.5	--	5.4	8.1	--	--	--	--
07...	2215	--	14.0	45	5.3	8.0	.8	--	--	.04
07...	2400	--	13.8	--	5.2	7.8	--	--	--	--
08...	0115	--	14.2	--	5.3	7.4	--	--	--	--
08...	0230	--	13.8	--	5.2	7.6	--	--	--	--
08...	0340	--	13.6	48	5.3	7.5	.7	--	--	.02
08...	0650	--	13.7	--	5.0	8.4	--	--	--	--
08...	0740	--	13.9	--	5.0	8.6	--	--	--	--
08...	0830	--	13.9	--	5.2	8.6	--	--	--	--
08...	0930	--	14.1	--	5.6	8.6	--	--	--	--
08...	1020	--	14.3	43	5.6	9.0	.4	--	--	.01
08...	1135	--	15.0	--	5.8	9.2	--	--	--	--
08...	1230	--	15.9	--	4.9	9.2	--	--	--	--
08...	1325	--	16.5	--	5.7	9.3	--	--	--	--
08...	1415	--	16.9	--	5.9	9.2	--	--	--	--
08...	1525	6.8	17.1	43	5.7	9.2	.3	--	--	.01
08...	1620	--	17.0	--	6.2	9.0	--	--	--	--
08...	1720	--	16.6	--	6.1	8.9	--	--	--	--
29...	1600	--	17.9	49	6.0	10.0	.3	--	--	.01
JULY										
26...	1545	--	17.2	48	5.2	9.2	.4	2	5	.01
AUG.										
14...	0725	--	15.5	--	5.6	8.2	--	--	--	.00
14...	0930	--	16.7	--	5.8	8.2	--	--	--	--
14...	1100	--	17.7	--	7.4	8.8	--	--	--	.00
14...	1515	--	20.2	--	7.2	9.6	--	--	--	.00
14...	1630	--	19.6	--	6.9	9.4	--	--	--	--
14...	1830	--	18.1	--	5.4	8.4	--	--	--	--
14...	2030	--	17.4	--	5.4	--	--	--	--	.00
14...	2225	--	17.2	--	5.3	8.0	--	--	--	--
15...	0025	--	16.3	--	4.9	7.4	--	--	--	.00
15...	0220	--	15.8	--	4.8	7.4	--	--	--	--
15...	0415	--	15.4	--	4.8	7.4	--	--	--	.00

WATER QUALITY DATA, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DATE	TOTAL NITRATE (N) (MG/L)	TOTAL KJEL- DAHL NITRO- GEN (N) (MG/L)	TOTAL KJEL- NITRO- GEN IN BOTTOM DEP. (MG/KG)	AMMONIA NITRO- GEN (N) (MG/L)	TOTAL AMMONIA NITRO- GEN IN BOTTOM DEP. (MG/KG)	ORGANIC NITRO- GEN (N) (MG/L)	TOTAL NITRO- GEN (N) (MG/L)	TOTAL PHOS- PHORUS (P) (MG/L)	TOTAL PHOS- PHORUS IN BOT- TOM DE- POSITS (MG/KG)	TOTAL ORTHO PHOS- PHORUS (P) (MG/L)
MAR.										
27...	.91	.19	--	.08	--	.11	1.1	.02	--	--
APR.										
25...	1.2	.30	--	.21	--	.09	1.5	.01	--	.01
MAY										
30...	1.3	6.6	380	.05	2.7	6.5	7.9	.20	12	.01
JUNE										
07...	--	--	--	--	--	--	--	--	--	--
07...	--	--	--	--	--	--	--	--	--	--
07...	1.5	.27	--	.03	--	.24	1.8	.03	--	.03
07...	--	--	--	--	--	--	--	--	--	--
08...	--	--	--	--	--	--	--	--	--	--
08...	--	--	--	--	--	--	--	--	--	--
08...	1.5	.25	--	.03	--	.22	1.8	.02	--	.02
08...	--	--	--	--	--	--	--	--	--	--
08...	--	--	--	--	--	--	--	--	--	--
08...	--	--	--	--	--	--	--	--	--	--
08...	1.5	.24	--	.02	--	.22	1.7	.02	--	.01
08...	--	--	--	--	--	--	--	--	--	--
08...	--	--	--	--	--	--	--	--	--	--
08...	--	--	--	--	--	--	--	--	--	--
08...	1.5	.21	--	.01	--	.20	1.7	.02	--	.01
08...	--	--	--	--	--	--	--	--	--	--
08...	--	--	--	--	--	--	--	--	--	--
29...	1.2	.30	--	.03	--	.27	1.5	.02	--	.02
JULY										
26...	1.5	.13	348	.11	7.0	.02	1.6	.01	47	.01
AUG.										
14...	1.7	.26	--	.22	--	.04	2.0	.02	--	.01
14...	--	--	--	--	--	--	--	--	--	--
14...	1.7	.26	--	.18	--	.08	2.0	.01	--	.01
14...	1.7	.49	--	.25	--	.24	2.2	.03	--	.01
14...	--	--	--	--	--	--	--	--	--	--
14...	--	--	--	--	--	--	--	--	--	--
14...	1.7	.33	--	.23	--	.10	2.0	.01	--	.01
14...	--	--	--	--	--	--	--	--	--	--
15...	2.0	.32	--	.25	--	.07	2.3	.02	--	.02
15...	--	--	--	--	--	--	--	--	--	--
15...	1.8	.33	--	.13	--	.20	2.1	.01	--	.01

[illegible]

GREAT EGG HARBOR RIVER BASIN

01410803 FOURMILE BRANCH AT WINSLOW CROSSING, N. J.--Continued

## WATER QUALITY DATA, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

[illegible][illegible]

01410803 FOURMILE BRANCH AT WINSLOW CROSSING, N. J.--Continued

## WATER QUALITY DATA, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DATE	TIME	SPE- CIFIC CON- DUCT- ANCE (MICRO- MHOS)	PH (UNITS)	BIO- CHEM- ICAL OXYGEN DEMAND 5 DAY (MG/L)	TOTAL NITRITE (N) (MG/L)	TOTAL NITRATE (N) (MG/L)	TOTAL KJEL- DAHL NITRO- GEN (N) (MG/L)	DIS- SOLVED KJEL- NITRO- GEN (N) (MG/L)	AMMONIA NITRO- GEN (N) (MG/L)	ORGANIC NITRO- GEN (N) (MG/L)
SEP. 07...	1500	80	4.9	1.1	.01	.47	.62	.11	.38	.24

DATE	TOTAL NITRO- GEN (N) (MG/L)	TOTAL PHOS- PHORUS (P) (MG/L)	DIS- SOL- VED- PHOS- PHORUS (P) (MG/L)	TOTAL ORTHO PHOS- PHORUS (P) (MG/L)	DIS- SOLVED ORTHO. PHOS- PHORUS (P) (MG/L)	TOTAL ORGANIC CARBON (C) (MG/L)	DIS- SOL- VED ORGANIC CARBON (C) (MG/L)	FECAL COLI- FORM (COL. PER 100 ML)	STREP- TOCOCCI (COL- ONIES PER 100 ML)
SEP. 07...	1.1	.05	.02	.04	.02	26	22	2200	2920

DATE	TOTAL IRON (FE) (UG/L)	TOTAL IRON IN BOTTOM DE- POSITS (UG/G)	TOTAL MAN- GANESE (MN) (UG/L)	TOTAL MANGA- NESE IN BOTTOM DE- POSITS (UG/G)	TOTAL ARSENIC (AS) (UG/L)	DIS- SOLVED ARSENIC (AS) (UG/L)	TOTAL ARSENIC IN BOTTOM DE- POSITS (UG/G)	TOTAL CAD- MIUM (CD) (UG/L)	DIS- SOLVED CAD- MIUM (CD) (UG/L)	TOTAL CADMIUM IN BOTTOM DE- POSITS (UG/G)	TOTAL CHRO- MIUM (CR) (UG/L)
MAR. 27...	280	--	20	--	--	--	--	--	--	--	--
APR. 25...	--	--	--	--	--	1	--	--	0	--	--
MAY 30...	90000	1500	250	4	--	--	2	--	--	0	--
JUNE 29...	--	--	--	--	1	--	--	0	--	--	10
JULY 26...	170	2000	10	50	3	--	1	12	--	0	10
SEP. 07...	--	--	--	--	1	0	--	1	0	--	0

DATE	DIS- SOLVED CHRO- MIUM (CR) (UG/L)	TOTAL CHRO- MIUM IN BOTTOM DE- POSITS (UG/G)	TOTAL COBALT (CO) (UG/L)	TOTAL COBALT IN BOTTOM DE- POSITS (UG/G)	DIS- SOLVED COBALT (CO) (UG/L)	TOTAL COPPER (CU) (UG/L)	TOTAL COPPER IN BOTTOM DE- POSITS (UG/G)	DIS- SOLVED COPPER (CU) (UG/L)	TOTAL LEAD (PB) (UG/L)	DIS- SOLVED LEAD (PB) (UG/L)
MAR. 27...	--	--	--	--	--	--	--	--	--	--
APR. 25...	--	--	--	--	--	--	--	0	--	0
MAY 30...	--	0	--	0	--	--	0	--	--	--
JUNE 29...	--	--	0	--	--	0	--	--	3	--
JULY 26...	--	2	0	1	--	20	3	--	1	--
SEP. 07...	0	--	1	--	0	10	--	0	7	2

DATE	TOTAL LEAD IN BOTTOM DE- POSITS (UG/G)	TOTAL NICKEL (NI) (UG/L)	DIS- SOLVED NICKEL (NI) (UG/L)	TOTAL NICKEL IN BOTTOM DE- POSITS (UG/G)	TOTAL ZINC (ZN) (UG/L)	DIS- SOLVED ZINC (ZN) (UG/L)	TOTAL ZINC IN BOTTOM DE- POSITS (UG/G)	TOTAL MERCURY (HG) (UG/L)	DIS- SOLVED MERCURY (HG) (UG/L)	TOTAL MERCURY IN BOTTOM DE- POSITS (UG/G)
MAR. 27...	--	--	--	--	--	--	--	--	--	--
APR. 25...	--	--	--	--	--	10	--	--	<.5	--
MAY 30...	<10	--	--	5	--	--	5	--	--	.0
JUNE 29...	--	0	--	--	10	--	--	<.5	--	--
JULY 26...	18	9	--	2	40	--	45	<.5	--	.0
SEP. 07...	--	7	4	--	30	30	--	<.5	<.5	--



WATER QUALITY DATA, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DATE	DI-ELDRIN (UG/L)	DI-ELDRIN IN BOTTOM DE- POSITS (UG/KG)	ENDRIN (UG/L)	ENDRIN IN BOTTOM DE- POSITS (UG/KG)	ETHION (UG/L)	TOX- APHENE (UG/L)	TOX- APHENE IN- BOTTOM DE- POSITS (UG/KG)	HEPTA- CHLOR (UG/L)	HEPTA- CHLOR IN BOTTOM DE- POSITS (UG/KG)	HEPTA- CHLOR EPOXIDE (UG/L)	HEPTA- CHLOR EPOXIDE IN BOT- TOM DE- POSITS (UG/KG)
MAY 30...	.00	1.0	.00	.0	.00	0	0	.00	.0	.00	.0
JUNE 29...	.00	--	.00	--	.00	0	--	.00	--	.00	--
JULY 26...	--	1.5	--	.0	--	--	0	--	.0	--	.0

[illegible]

## GREAT EGG HARBOR RIVER BASIN

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01410810 FOURMILE BRANCH AT NEW BROOKLYN, N. J.

LOCATION.--Lat 39°41'47", long 74°56'25", Camden County, at gaging station at bridge on Malaga Road, 0.3 mi (0.5 km) northeast of New Brooklyn and 0.3 mi (0.5 km) upstream from mouth.

DRAINAGE AREA.--7.74 mi<sup>2</sup> (20.0 km<sup>2</sup>).

PERIOD OF RECORD.--Chemical analyses: January 1972 to September 1974.  
Sediment analyses: April to September 1974.

REMARKS.--Miscellaneous storm sediment samples collected during water years 1972-74.

## WATER QUALITY DATA, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DATE	TIME	INSTAN- TANEOUS DIS- CHARGE (CFS)	TEMPER- ATURE (DEG C)	SPE- CIFIC CON- DUCT- ANCE (MICRO- MHOS)	PH (UNITS)	DIS- SOLVED OXYGEN (MG/L)	BIO- CHEM- ICAL OXYGEN DEMAND 5 DAY (MG/L)	TUR- BID- ITY (JTU)	COLOR (PLAT- INUM- COBALT UNITS)	TOTAL NITRITE (N) (MG/L)
MAR.										
01...	0930	11	--	--	--	--	--	--	--	--
27...	1530	12	9.5	68	5.2	10.6	1.0	--	--	.01
APR.										
25...	1415	E16	15.0	71	5.0	10.1	1.0	4	40	.01
MAY										
04...	0715	15	--	57	--	--	.5	--	--	.02
04...	0815	15	11.5	--	--	8.4	--	--	--	--
04...	0915	15	12.0	63	--	9.0	.6	--	--	.02
04...	1030	14	14.0	--	--	8.9	--	--	--	--
04...	1130	14	13.0	64	--	8.8	.5	--	--	.02
04...	1315	14	14.5	--	--	10.0	--	--	--	--
04...	1425	14	15.0	62	--	9.3	.7	--	--	.01
04...	1530	14	15.5	--	--	9.6	--	--	--	--
04...	1630	13	15.5	63	--	9.1	.8	--	--	.01
04...	1730	13	15.0	--	--	9.4	--	--	--	--
04...	1815	13	15.0	62	--	9.2	.8	--	--	.02
30...	1615	9.3	16.7	54	5.3	3.7	.5	3	10	.01
JUNE										
07...	1915	8.1	14.7	--	5.6	3.5	--	--	--	--
07...	2025	8.1	14.7	--	5.5	7.3	--	--	--	--
07...	2200	8.1	14.2	50	5.4	7.5	.7	--	--	.01
07...	2320	8.1	14.8	--	5.4	7.7	--	--	--	--
08...	0100	8.1	15.2	--	5.6	7.6	--	--	--	--
08...	0215	8.2	15.2	--	5.5	5.4	--	--	--	--
08...	0400	8.2	15.2	51	5.5	5.8	.8	--	--	.03
08...	0620	8.2	14.5	--	5.5	8.9	--	--	--	--
08...	0720	8.2	14.3	--	5.8	9.1	--	--	--	--
08...	0810	8.2	14.4	--	5.6	9.6	--	--	--	--
08...	0910	8.2	14.5	--	5.6	9.6	--	--	--	--
08...	1010	8.2	14.8	51	5.7	10.0	.5	--	--	.02
08...	1120	8.2	15.6	--	5.9	10.1	--	--	--	--
08...	1220	8.2	16.6	--	5.2	10.4	--	--	--	--
08...	1305	8.2	17.1	--	5.7	10.5	--	--	--	--
08...	1400	8.2	17.5	--	6.2	10.3	--	--	--	--
08...	1500	8.2	17.7	49	6.0	10.2	.7	--	--	.02
08...	1555	8.2	17.5	--	6.2	10.0	--	--	--	--
08...	1655	8.2	17.1	--	6.5	9.8	--	--	--	--
29...	1515	8.2	19.7	58	6.8	10.0	--	--	--	.01
JULY										
26...	1515	5.7	18.0	57	6.1	10.0	.7	3	5	.02

## WATER QUALITY DATA, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DATE	TOTAL NITRATE (N) (MG/L)	TOTAL KJEL- DAHL NITRO- GEN (N) (MG/L)	TOTAL KJEL- NITRO- GEN IN BOTTOM DEP. (N) (MG/KG)	AMMONIA NITRO- GEN (N) (MG/L)	TOTAL AMMONIA NITRO- GEN IN BOTTOM DEP. (N) (MG/KG)	ORGANIC NITRO- GEN (N) (MG/L)	TOTAL NITRO- GEN (N) (MG/L)	TOTAL PHOS- PHORUS (P) (MG/L)	TOTAL PHOS- PHORUS IN BOT- TOM DE- POSITS (MG/KG)	TOTAL ORTHO PHOS- PHORUS (P) (MG/L)
MAR.										
01...	--	--	--	--	--	--	--	--	--	--
27...	1.1	.34	214	.09	14	.25	1.4	.15	49	--
APR.										
25...	2.4	.49	--	.19	--	.30	2.9	.47	--	.45
MAY										
04...	.94	.45	--	.02	--	.43	1.4	.07	--	.04
04...	--	--	--	--	--	--	--	--	--	--
04...	.96	.43	--	.02	--	.41	1.4	.07	--	.04
04...	--	--	--	--	--	--	--	--	--	--
04...	.98	.49	--	.04	--	.45	1.5	.07	--	.04
04...	--	--	--	--	--	--	--	--	--	--
04...	1.1	.40	--	.02	--	.38	1.5	.07	--	.04
04...	--	--	--	--	--	--	--	--	--	--
04...	1.1	.44	--	.02	--	.42	1.5	.06	--	.04
04...	--	--	--	--	--	--	--	--	--	--
04...	1.1	.38	--	.02	--	.36	1.5	.07	--	.04
30...	1.7	.72	270	.04	1.6	.68	2.4	.11	7	.05
JUNE										
07...	--	--	--	--	--	--	--	--	--	--
07...	--	--	--	--	--	--	--	--	--	--
07...	1.8	.28	--	.02	--	.26	2.1	.07	--	.05
07...	--	--	--	--	--	--	--	--	--	--
08...	--	--	--	--	--	--	--	--	--	--
08...	--	--	--	--	--	--	--	--	--	--
08...	1.8	.34	--	.03	--	.31	2.1	.08	--	.06
08...	--	--	--	--	--	--	--	--	--	--
08...	--	--	--	--	--	--	--	--	--	--
08...	--	--	--	--	--	--	--	--	--	--
08...	1.8	.33	--	.02	--	.31	2.1	.07	--	.05
08...	--	--	--	--	--	--	--	--	--	--
08...	--	--	--	--	--	--	--	--	--	--
08...	--	--	--	--	--	--	--	--	--	--
08...	1.8	.29	--	.01	--	.28	2.1	.07	--	.06
08...	--	--	--	--	--	--	--	--	--	--
08...	--	--	--	--	--	--	--	--	--	--
29...	1.5	.34	--	.04	--	.30	1.8	.09	--	.07
JULY										
26...	1.6	.10	121	.09	7.0	.01	1.7	.10	90	.08

DATE	DIS- SOLVED ORTHO. PHOS- PHORUS (P) (MG/L)	TOTAL ORGANIC CARBON (C) (MG/L)	IN- ORGANIC CARBON IN BED MA- TERIAL (G/KG)	ORGANIC CARBON IN BED MA- TERIAL (C) (G/KG)	IMME- DIATE COLI- FORM (COL. PER 100 ML)	FECAL COLI- FORM (COL. PER 100 ML)	STREP- TOCOCCI (COL- ONIES PER 100 ML)	ALKA- LINITY AS CAC03 (MG/L)	CAR- BONATE (C03) (MG/L)	BICAR- BONATE (HC03) (MG/L)
MAR.										
01...	--	--	--	--	--	--	--	--	--	--
27...	.14	--	.1	4.8	27	0	13	2	0	3
APR.										
25...	--	6.0	--	--	168	36	4	2	0	2
MAY										
04...	--	12	--	--	--	--	--	--	--	--
04...	--	--	--	--	--	--	--	--	--	--
04...	--	10	--	--	--	--	--	--	--	--
04...	--	--	--	--	--	--	--	--	--	--
04...	--	11	--	--	--	--	--	--	--	--
04...	--	--	--	--	--	--	--	--	--	--
04...	--	11	--	--	--	--	--	--	--	--
04...	--	--	--	--	--	--	--	--	--	--
04...	--	10	--	--	--	--	--	--	--	--
04...	--	--	--	--	--	--	--	--	--	--
04...	--	9.7	--	--	--	--	--	--	--	--
30...	--	15	.0	5.4	190	60	32	1	0	1
JUNE										
07...	--	--	--	--	--	--	--	--	--	--
07...	--	--	--	--	--	--	--	--	--	--
07...	--	3.9	--	--	--	--	--	--	--	--
07...	--	--	--	--	--	--	--	--	--	--
08...	--	--	--	--	--	--	--	--	--	--
08...	--	--	--	--	--	--	--	--	--	--
08...	--	4.8	--	--	--	--	--	--	--	--
08...	--	--	--	--	--	--	--	--	--	--
08...	--	--	--	--	--	--	--	--	--	--
08...	--	--	--	--	--	--	--	--	--	--
08...	--	5.1	--	--	--	--	--	--	--	--
08...	--	--	--	--	--	--	--	--	--	--
08...	--	--	--	--	--	--	--	--	--	--
08...	--	--	--	--	--	--	--	--	--	--
08...	--	4.4	--	--	--	--	--	--	--	--
08...	--	--	--	--	--	--	--	--	--	--
08...	--	--	--	--	--	--	--	--	--	--
29...	--	6.5	--	--	330	120	220	--	--	--
JULY										
26...	--	4.9	.3	3.8	--	--	--	4	0	5

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## WATER QUALITY DATA, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

[illegible]

DATE	DIS- SOLVED SOLIDS (RESTI- DUE AT 180 C) (MG/L)	DIS- SOLVED SOLIDS (SUM OF CONSTITUENTS) (MG/L)	DIS- SOLVED SOLIDS (TONS PER AC-FT)	TOTAL PO- TAS- SIUM (K) (MG/L)	DIS- SOLVED CHLO- RIDE (CL) (MG/L)	DIS- SOLVED SULFATE (SO4) (MG/L)	DIS- SOLVED FLUO- RIDE (F) (MG/L)	TOTAL FLUO- RIDE (F) (MG/L)	DIS- SOLVED SILICA (SiO2) (MG/L)
MAR.	--	--	--	--	--	--	--	--	--
01....	--	--	--	--	--	--	--	--	--
27....	--	34	.05	--	7.5	8.1	.0	--	6.0
APR.									
25....	58	35	.08	--	8.1	8.2	.2	--	4.8
MAY									
04....	--	--	--	--	--	--	--	--	--
04....	--	--	--	--	--	--	--	--	--
04....	--	--	--	--	--	--	--	--	--
04....	--	--	--	--	--	--	--	--	--
04....	--	--	--	--	--	--	--	--	--
04....	--	--	--	--	--	--	--	--	--
04....	--	--	--	--	--	--	--	--	--
04....	--	--	--	--	--	--	--	--	--
04....	--	--	--	--	--	--	--	--	--
04....	--	--	--	--	--	--	--	--	--
30....	45	--	.06	1.2	7.0	5.6	--	.2	6.8
JUNE									
07....	--	--	--	--	--	--	--	--	--
07....	--	--	--	--	--	--	--	--	--
07....	--	--	--	--	--	--	--	--	--
07....	--	--	--	--	--	--	--	--	--
08....	--	--	--	--	--	--	--	--	--
08....	--	--	--	--	--	--	--	--	--
08....	--	--	--	--	--	--	--	--	--
08....	--	--	--	--	--	--	--	--	--
08....	--	--	--	--	--	--	--	--	--
08....	--	--	--	--	--	--	--	--	--
08....	--	--	--	--	--	--	--	--	--
08....	--	--	--	--	--	--	--	--	--
08....	--	--	--	--	--	--	--	--	--
08....	--	--	--	--	--	--	--	--	--
08....	--	--	--	--	--	--	--	--	--
08....	--	--	--	--	--	--	--	--	--
08....	--	--	--	--	--	--	--	--	--
08....	--	--	--	--	--	--	--	--	--
09....	--	--	--	--	--	--	--	--	--
29....	--	--	--	--	--	--	--	--	--
JULY									
26....	33	--	.04	--	6.2	8.0	--	.1	6.6

## GREAT EGG HARBOR RIVER BASIN

01410810 FOURMILE BRANCH AT NEW BROOKLYN, N. J.--Continued

## WATER QUALITY DATA, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DATE	TIME	TEMPER- ATURE (DEG C)	SPE- CIFIC CON- DUCT- ANCE (MICRO- MHOS)	PH (UNITS)	DIS- SOLVED OXYGEN (MG/L)	BIO- CHEM- ICAL OXYGEN DEMAND 5 DAY (MG/L)	TOTAL NITRITE (N) (MG/L)	DIS- SOLVED NITRITE (N) (MG/L)
AUG.								
14...	0700	16.5	--	6.3	9.4	--	.02	--
14...	0900	17.3	--	5.7	9.6	--	--	--
14...	1040	18.8	--	7.3	10.6	--	.01	--
14...	1500	22.0	--	7.2	10.6	--	.01	--
14...	1615	20.7	--	7.3	9.6	--	--	--
14...	1715	20.5	--	7.3	9.6	--	--	--
14...	2000	18.7	--	5.8	8.6	--	.01	--
14...	2200	18.3	--	5.6	8.0	--	--	--
14...	2350	18.2	--	5.2	--	--	.01	--
15...	0150	17.8	--	4.9	8.2	--	--	--
15...	0350	17.2	--	5.0	8.6	--	.00	--
15...	0550	16.5	--	5.2	8.4	--	--	--
SEP.								
07...	0845	--	71	6.1	--	1.5	.00	.00
07...	1230	--	--	--	--	1.0	.01	.00
07...	1600	--	--	--	--	.8	.02	.00

DATE	TOTAL NITRATE (N) (MG/L)	DIS- SOLVED NITRATE (N) (MG/L)	TOTAL KJEL- DAHL NITRO- GEN (N) (MG/L)	DIS- SOLVED KJEL. NITRO- GEN (N) (MG/L)	AMMONIA NITRO- GEN (N) (MG/L)	DIS- SOLVED AMMONIA NITRO- GEN (N) (MG/L)	ORGANIC NITRO- GEN (N) (MG/L)	DIS- SOLVED ORGANIC NITRO- GEN (N) (MG/L)	TOTAL NITRO- GEN (N) (MG/L)
AUG.									
14...	2.1	--	.56	--	.49	--	.07	--	2.7
14...	--	--	--	--	--	--	--	--	--
14...	2.1	--	.50	--	.42	--	.08	--	2.6
14...	2.1	--	.27	--	.20	--	.07	--	2.4
14...	--	--	--	--	--	--	--	--	--
14...	--	--	--	--	--	--	--	--	--
14...	2.1	--	.32	--	.23	--	.09	--	2.4
14...	--	--	--	--	--	--	--	--	--
14...	2.1	--	.51	--	.45	--	.06	--	2.6
15...	--	--	--	--	--	--	--	--	--
15...	2.0	--	.55	--	.46	--	.09	--	2.6
15...	--	--	--	--	--	--	--	--	--
SEP.									
07...	.90	.88	.40	.38	.33	.16	.07	.22	1.3
07...	.89	.90	.42	.24	.42	.11	.00	.13	1.3
07...	.61	.64	.53	.30	.50	.12	.03	.18	1.2

DATE	TOTAL PHOS- PHORUS (P) (MG/L)	DIS- SOL- VED- PHOS- PHORUS (P) (MG/L)	TOTAL ORTHO PHOS- PHORUS (P) (MG/L)	DIS- SOLVED ORTHO. PHOS- PHORUS (P) (MG/L)	TOTAL ORGANIC CARBON (C) (MG/L)	DIS- SOL- VED ORGANIC CARBON (C) (MG/L)	FECAL COLI- FORM (COL. PER 100 ML)	STREP- TOCOCCI (COL- ONIES PER 100 ML)
AUG.								
14...	.20	--	.17	--	--	--	--	--
14...	--	--	--	--	--	--	--	--
14...	.17	--	.15	--	--	--	--	--
14...	.16	--	.11	--	--	--	--	--
14...	--	--	--	--	--	--	--	--
14...	--	--	--	--	--	--	--	--
14...	.18	--	.11	--	--	--	--	--
14...	--	--	--	--	--	--	--	--
14...	.19	--	.11	--	--	--	--	--
15...	--	--	--	--	--	--	--	--
15...	.17	--	.15	--	--	--	--	--
15...	--	--	--	--	--	--	--	--
SEP.								
07...	.13	.08	.09	.06	13	12	3600	1440
07...	.11	.06	.11	.04	18	16	--	--
07...	.11	.04	.08	.03	24	11	--	--

01410810 FOURMILE BRANCH AT NEW BROOKLYN, N. J.--Continued

## WATER QUALITY DATA, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DATE	TOTAL IRON (FE) (UG/L)	TOTAL IRON IN BOTTOM DE-POSITS (UG/G)	TOTAL MANGANESE (MN) (UG/L)	TOTAL MANGANESE IN BOTTOM DE-POSITS (UG/G)	TOTAL ARSENIC (AS) (UG/L)	DIS-SOLVED ARSENIC (AS) (UG/L)	TOTAL ARSENIC IN BOTTOM DE-POSITS (UG/G)	TOTAL CADMIUM (CD) (UG/L)	DIS-SOLVED CADMIUM (CD) (UG/L)	TOTAL CADMIUM IN BOTTOM DE-POSITS (UG/G)	TOTAL CHROMIUM (CR) (UG/L)
MAR. 27...	340	--	30	--	--	--	--	--	--	--	--
APR. 25...	--	--	--	--	--	<1	--	--	0	--	--
MAY 30...	3200	600	30	1	--	--	0	--	--	0	--
JUNE 29...	--	--	--	--	1	--	--	0	--	--	10
JULY 26...	390	840	20	60	0	--	1	0	--	0	<10
SEP. 07...	--	--	--	--	1	0	--	1	0	--	0

DATE	DIS-SOLVED CHROMIUM (CR) (UG/L)	TOTAL CHROMIUM IN BOTTOM DE-POSITS (UG/G)	TOTAL COBALT (CO) (UG/L)	TOTAL COBALT IN BOTTOM DE-POSITS (UG/G)	DIS-SOLVED COBALT (CO) (UG/L)	TOTAL COPPER (CU) (UG/L)	TOTAL COPPER IN BOTTOM DE-POSITS (UG/G)	DIS-SOLVED COPPER (CU) (UG/L)	TOTAL LEAD (PB) (UG/L)	DIS-SOLVED LEAD (PB) (UG/L)
MAR. 27...	--	--	--	--	--	--	--	--	--	--
APR. 25...	--	--	--	--	--	--	--	0	--	0
MAY 30...	--	0	--	0	--	--	0	--	--	--
JUNE 29...	--	--	0	--	--	0	--	--	0	--
JULY 26...	--	1	0	0	--	10	0	--	0	--
SEP. 07...	0	--	1	--	0	0	--	10	4	13

DATE	TOTAL LEAD IN BOTTOM DE-POSITS (UG/G)	TOTAL NICKEL (NI) (UG/L)	DIS-SOLVED NICKEL (NI) (UG/L)	TOTAL NICKEL IN BOTTOM DE-POSITS (UG/G)	TOTAL ZINC (ZN) (UG/L)	DIS-SOLVED ZINC (ZN) (UG/L)	TOTAL ZINC IN BOTTOM DE-POSITS (UG/G)	TOTAL MERCURY (HG) (UG/L)	DIS-SOLVED MERCURY (HG) (UG/L)	TOTAL MERCURY IN BOTTOM DE-POSITS (UG/G)
MAR. 27...	--	--	--	--	--	--	--	--	--	--
APR. 25...	--	--	--	--	--	10	--	--	<.5	--
MAY 30...	<10	--	--	5	--	--	5	--	--	.0
JUNE 29...	--	23	--	--	10	--	--	<.5	--	--
JULY 26...	1	5	--	1	0	--	0	<.5	--	.0
SEP. 07...	--	1	5	--	40	20	--	<.5	<.5	--

DATE	ALDRIN (UG/L)	ALDRIN IN BOTTOM DE-POSITS (UG/KG)	LINDANE (UG/L)	LINDANE IN BOTTOM DE-POSITS (UG/KG)	CHLOR-DANE (UG/L)	CHLOR-DANE IN BOTTOM DE-POSITS (UG/KG)	DDD (UG/L)	DDD IN BOTTOM DE-POSITS (UG/KG)	DDE (UG/L)	DDE IN BOTTOM DE-POSITS (UG/KG)	DDT (UG/L)	DDT IN BOTTOM DE-POSITS (UG/KG)
MAR. 27...	.00	.0	.00	.0	.0	0	.00	.2	.00	.2	.00	.0
MAY 30...	.00	.0	.00	.0	.0	0	.00	10	.00	.8	.00	.0
JUNE 29...	.00	--	.00	--	.0	--	.00	--	.00	--	.00	--
JULY 26...	--	.0	--	.0	--	0	--	.3	--	.0	--	.0

DATE	DI-ELDRIN (UG/L)	DI-ELDRIN IN BOTTOM DE-POSITS (UG/KG)	ENDRIN (UG/L)	ENDRIN IN BOTTOM DE-POSITS (UG/KG)	ETHION (UG/L)	TOX-APHENE (UG/L)	TOX-APHENE IN BOTTOM DE-POSITS (UG/KG)	HEPTA-CHLOR (UG/L)	HEPTA-CHLOR IN BOTTOM DE-POSITS (UG/KG)	HEPTA-CHLOR EPOXIDE (UG/L)	HEPTA-CHLOR EPOXIDE IN BOTTOM DE-POSITS (UG/KG)
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GREAT EGG HARBOR RIVER BASIN  
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WATER QUALITY DATA, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DATE	PCB (UG/L)	PCB IN BOTTOM DE- POSITS (UG/KG)	MALA- THION (UG/L)	PARA- THION (UG/L)	DI- AZINON (UG/L)	METHYL PARA- THION (UG/L)	2,4-D (UG/L)	2,4,5-T (UG/L)	SILVEX (UG/L)	TRI- THION (UG/L)	METHYL TRI- THION (UG/L)
MAR. 27...	.0	0	.00	.00	.00	.00	.00	.00	.00	.00	.00
MAY 30...	.0	0	.00	.00	.00	.00	.00	.00	.00	.00	.00
JUNE 29...	.0	--	.00	.00	.00	.00	.00	.00	.00	.00	.00
JULY 26...	--	0	--	--	--	--	--	--	--	--	--

SUSPENDED-SEDIMENT DISCHARGE MEASUREMENTS, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DATE	TIME	TEMPER- ATURE (DEG C)	INSTAN- TANEOUS DIS- CHARGE (CFS)	SUS- PENDE SEDI- MENT DIS- CHARGE (MG/L)	SUS- PENDE SEDI- MENT DIS- CHARGE (T/DAY)
MAR. 01...	0930	--	11	15	.45
27...	1530	9.5	11	28	.83



01410810 FOURMILE BRANCH AT NEW BROOKLYN, N. J.--Continued

## SUSPENDED-SEDIMENT DISCHARGE, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	APRIL			MAY			JUNE		
	MEAN DISCHARGE (CFS)	MEAN CONCENTRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCENTRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCENTRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)
1	55	--	--	10	9	.24	9.4	15	.38
2	24	--	--	8.7	11	.26	11	17	.50
3	17	--	--	12	35	1.1	14	19	.72
4	17	15	.69	14	33	1.2	11	16	.48
5	19	23	1.2	12	25	.81	9.8	18	.48
6	16	16	.69	11	21	.62	8.8	17	.40
7	14	13	.49	12	20	.65	7.9	18	.38
8	13	13	.46	11	10	.30	8.2	17	.38
9	22	45	2.7	10	15	.41	7.8	17	.36
10	23	23	1.4	12	28	.91	7.2	15	.29
11	16	18	.78	12	34	1.1	6.6	16	.29
12	21	24	1.4	12	37	1.2	6.5	14	.25
13	21	14	.79	18	57	2.8	6.3	10	.17
14	25	17	1.1	14	24	.91	6.0	13	.21
15	25	20	1.4	12	15	.49	5.8	14	.22
16	20	13	.70	11	13	.39	6.0	10	.16
17	16	11	.48	9.9	21	.56	6.2	8	.13
18	14	11	.42	9.8	19	.50	6.0	6	.10
19	13	14	.49	9.3	18	.45	5.7	7	.11
20	12	16	.52	8.4	14	.32	5.7	5	.08
21	11	19	.56	7.8	11	.23	5.8	4	.06
22	11	17	.50	7.5	14	.28	6.9	7	.13
23	13	15	.53	9.4	32	.81	13	31	1.1
24	16	11	.48	12	43	1.4	11	18	.53
25	16	8	.35	14	57	2.2	8.5	17	.39
26	13	7	.25	12	34	1.1	7.8	6	.13
27	12	8	.26	10	24	.65	7.3	7	.14
28	11	7	.21	10	17	.46	7.6	8	.16
29	10	7	.19	9.7	14	.37	8.2	6	.13
30	10	9	.24	9.4	12	.30	7.3	5	.10
31	--	--	--	9.2	12	.30	--	--	--
TOTAL	526	--	19.28	340.1	--	23.32	239.3	--	8.96

DAY	JULY			AUGUST			SEPTEMBER		
	MEAN DISCHARGE (CFS)	MEAN CONCENTRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCENTRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCENTRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)
1	7.3	7	.14	5.2	8	.11	6.0	7	.11
2	6.9	8	.15	5.4	12	.17	5.8	4	.06
3	6.5	7	.12	6.0	15	.24	6.6	8	.14
4	6.2	5	.08	5.8	18	.28	15	38	1.5
5	6.0	6	.10	9.9	45	1.2	11	7	.21
6	18	33	1.6	7.2	8	.16	8.7	9	.21
7	21	29	1.6	9.3	17	.43	13	39	1.4
8	9.9	14	.37	9.6	23	.60	14	32	1.2
9	7.9	10	.21	8.4	20	.45	9.6	11	.29
10	7.0	9	.17	8.7	25	.59	8.2	10	.22
11	6.6	9	.16	6.9	19	.35	7.5	8	.16
12	6.3	11	.19	6.1	39	.64	7.0	6	.11
13	6.6	11	.20	5.8	37	.58	6.8	6	.11
14	5.8	10	.16	5.8	27	.42	6.9	4	.07
15	5.8	10	.16	5.6	23	.35	6.8	7	.13
16	5.7	8	.12	5.4	17	.25	6.5	10	.18
17	5.5	4	.06	5.2	14	.20	6.2	9	.15
18	5.4	5	.07	5.2	11	.15	6.1	11	.18
19	5.4	6	.09	5.1	12	.17	5.8	8	.13
20	5.5	5	.07	5.0	11	.15	5.8	10	.16
21	5.4	4	.06	4.9	11	.15	5.8	9	.14
22	5.4	3	.04	10	78	2.1	6.3	10	.17
23	5.4	3	.04	22	40	2.4	6.0	11	.18
24	5.5	5	.07	13	20	.70	5.7	7	.11
25	6.0	9	.15	8.8	12	.29	5.7	5	.08
26	5.6	6	.09	7.2	10	.19	5.7	3	.05
27	5.5	7	.10	6.6	11	.20	5.6	6	.09
28	5.4	5	.07	6.5	9	.16	5.7	6	.09
29	5.5	6	.09	6.3	7	.12	7.9	23	.49
30	5.5	7	.10	6.0	7	.11	6.9	11	.20
31	5.5	7	.10	6.0	11	.18	--	--	--
TOTAL	216.0	--	6.73	228.9	--	14.09	224.6	--	8.32

## GREAT EGG HARBOR RIVER BASIN

01410820 GREAT EGG HARBOR RIVER NEAR BLUE ANCHOR, N. J.

LOCATION.--Lat 39°40'09", long 74°54'49", Camden County, gaging station at bridge on Broad Lane Road, 2.1 mi (3.4 km) downstream from confluence of Fourmile Branch and 1.9 mi (3.0 km) southwest of Blue Anchor.

DRAINAGE AREA.--37.3 mi<sup>2</sup> (96.6 km<sup>2</sup>).

PERIOD OF RECORD.--Chemical analyses: February 1972 to September 1974.

REMARKS.--Miscellaneous storm sediment samples collected during water years 1972-74.

## WATER QUALITY DATA, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DATE	TIME	INSTANTANEOUS DIS- CHARGE (CFS)	TEMPER- ATURE (DEG C)	SPE- CIFIC CON- DUCT- ANCE (MICRO- MHOS)	PH (UNITS)	DIS- SOLVED OXYGEN (MG/L)	BIO- CHEM- ICAL OXYGEN DEMAND 5 DAY (MG/L)	TUR- BID- ITY (JTU)	COLOR (PLAT- INUM- COBALT UNITS)	TOTAL NITRITE (N) (MG/L)
MAR.										
01...	0945	53	--	--	--	--	--	--	--	--
27...	1630	60	7.5	65	5.4	10.5	1.5	--	--	.01
APR.										
04...	1230	112	--	--	--	--	--	--	--	--
09...	1055	92	--	--	--	--	--	--	--	--
09...	1415	99	--	--	--	--	--	--	--	--
26...	1000	53	12.0	64	5.6	8.8	2.5	4	70	.02
MAY										
04...	0800	69	12.6	402	--	7.4	.4	--	--	.02
04...	0900	69	12.3	--	--	7.4	--	--	--	--
04...	1015	70	13.0	63	--	7.4	.7	--	--	.01
04...	1115	69	12.8	--	--	7.4	--	--	--	--
04...	1255	70	13.0	64	--	7.8	1.0	--	--	.02
04...	1405	69	14.0	--	--	7.5	--	--	--	--
04...	1505	69	14.0	65	--	7.6	.5	--	--	.01
04...	1610	69	14.0	--	--	7.7	--	--	--	--
04...	1715	69	14.0	63	--	7.8	1.1	--	--	.01
04...	1800	69	14.0	--	--	7.8	--	--	--	--
30...	1530	45	15.8	60	5.7	7.0	.4	5	70	.02
JUNE										
29...	1635	45	17.0	65	6.7	8.5	1.0	--	--	.01
JULY										
17...	1420	26	19.0	--	--	--	--	--	--	--
26...	1630	27	18.0	78	6.2	8.3	1.5	4	10	.02
29...	1000	24	--	--	--	--	--	--	--	--
AUG.										
07...	1415	48	18.5	--	--	--	--	--	--	--
08...	1915	46	19.0	--	--	--	--	--	--	--
14...	0800	33	18.0	--	5.9	8.4	--	--	--	.00
14...	1000	33	18.8	--	7.4	8.4	--	--	--	--
14...	1130	32	18.2	--	7.3	8.4	--	--	--	.00
14...	1530	31	19.1	--	7.3	8.8	--	--	--	.00
14...	1645	31	19.3	--	7.4	8.6	--	--	--	--
14...	1900	31	19.5	--	6.1	8.0	--	--	--	--
14...	2100	30	19.8	--	6.6	8.0	--	--	--	.00
14...	2255	30	19.7	--	5.9	7.8	--	--	--	--
15...	0100	31	19.3	--	5.6	8.2	--	--	--	.00
15...	0250	31	18.9	--	5.7	8.2	--	--	--	--
15...	0455	31	18.5	--	5.7	8.8	--	--	--	.00
21...	0915	25	18.7	--	--	--	--	--	--	--

WATER QUALITY DATA, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

[illegible][illegible]

GREAT EGG HARBOR RIVER BASIN

01410820 GREAT EGG HARBOR RIVER NEAR BLUE ANCHOR, N. J.--Continued

## WATER QUALITY DATA, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

[illegible][illegible]

## GREAT EGG HARBOR RIVER BASIN

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01410820 GREAT EGG HARBOR RIVER NEAR BLUE ANCHOR, N. J.--Continued

## WATER QUALITY DATA, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DATE	TIME	INSTANTANEOUS DIS- CHARGE (CFS)	TEMPER- ATURE (DEG C)	SPE- CIFIC CON- DUCT- ANCE (MICRO- MHOS)	PH (UNITS)	BIO- CHEM- ICAL OXYGEN DEMAND 5 DAY (MG/L)	TOTAL NITRITE (N) (MG/L)	DIS- SOLVED NITRITE (N) (MG/L)	TOTAL NITRATE (N) (MG/L)	DIS- SOLVED NITRATE (N) (MG/L)	TOTAL KJEL- DAHL NITRO- GEN (N) (MG/L)	DIS- SOLVED KJEL- DAHL NITRO- GEN (N) (MG/L)
AUG.												
23...	0845	234	--	--	--	--	--	--	--	--	--	--
23...	1655	198	--	--	--	--	--	--	--	--	--	--
SEP.												
04...	1125	107	18.8	--	--	--	--	--	--	--	--	--
04...	1345	106	19.1	--	--	--	--	--	--	--	--	--
04...	1550	104	18.8	--	--	--	--	--	--	--	--	--
07...	1530	--	--	59	5.0	1.1	.01	.00	.41	.43	.69	.55
27...	1415	27	15.0	--	--	--	--	--	--	--	--	--

DATE	AMMONIA NITRO- GEN (N) (MG/L)	DIS- SOLVED AMMONIA NITRO- GEN (N) (MG/L)	ORGANIC NITRO- GEN (N) (MG/L)	DIS- SOLVED ORGANIC NITRO- GEN (N) (MG/L)	TOTAL NITRO- GEN (N) (MG/L)	TOTAL PHOS- PHORUS (P) (MG/L)	DIS- SOL- VED- PHOS- PHORUS (P) (MG/L)	TOTAL ORTHO PHOS- PHORUS (P) (MG/L)	DIS- SOLVED ORTHO PHOS- PHORUS (P) (MG/L)	TOTAL ORGANIC CARBON (C) (MG/L)	FECAL COLI- FORM (COL. PER 100 ML)	STREP- TOCOCCI (COL- ONIES PER 100 ML)
AUG.												
23...	--	--	--	--	--	--	--	--	--	--	--	--
23...	--	--	--	--	--	--	--	--	--	--	--	--
SEP.												
04...	--	--	--	--	--	--	--	--	--	--	--	--
04...	--	--	--	--	--	--	--	--	--	--	--	--
04...	--	--	--	--	--	--	--	--	--	--	--	--
07...	.50	.38	.19	.17	1.1	.14	.11	.11	.09	20	2000	7100
27...	--	--	--	--	--	--	--	--	--	--	--	--

DATE	TOTAL IRON (FE) (UG/L)	TOTAL IRON IN BOTTOM DE- POSITS (UG/G)	TOTAL MAN- GANESE (MN) (UG/L)	TOTAL MANGA- NESE IN BOTTOM DE- POSITS (UG/G)	TOTAL ARSENIC (AS) (UG/L)	DIS- SOLVED ARSENIC (AS) (UG/L)	TOTAL ARSENIC IN BOTTOM DE- POSITS (UG/G)	TOTAL CAD- MIUM (CD) (UG/L)	DIS- SOLVED CAD- MIUM (CD) (UG/L)	TOTAL CADMIUM IN BOTTOM DE- POSITS (UG/G)	TOTAL CHRO- MIUM (CR) (UG/L)
MAR.											
27...	280	--	40	--	--	--	--	--	--	--	--
APR.											
26...	--	--	--	--	--	<1	--	--	0	--	--
MAY											
30...	5400	810	50	11	--	--	1	--	--	0	--
JUNE											
29...	--	--	--	--	1	--	--	0	--	--	10
JULY											
26...	380	--	0	--	0	--	--	3	--	--	<10
29...	--	250	--	20	--	--	0	--	--	0	--
SEP.											
07...	--	--	--	--	1	0	--	1	0	--	<10

DATE	DIS- SOLVED CHRO- MIUM (CR) (UG/L)	TOTAL CHRO- MIUM IN BOTTOM DE- POSITS (UG/G)	TOTAL COBALT (CO) (UG/L)	TOTAL COBALT IN BOTTOM DE- POSITS (UG/G)	DIS- SOLVED COBALT (CO) (UG/L)	TOTAL COPPER (CU) (UG/L)	TOTAL COPPER IN BOTTOM DE- POSITS (UG/G)	DIS- SOLVED COPPER (CU) (UG/L)	TOTAL LEAD (PB) (UG/L)	DIS- SOLVED LEAD (PB) (UG/L)
MAR.										
27...	--	--	--	--	--	--	--	--	--	--
APR.										
26...	--	--	--	--	--	--	--	0	--	1
MAY										
30...	--	0	--	0	--	--	1	--	--	--
JUNE										
29...	--	--	0	--	--	0	--	--	2	--
JULY										
26...	--	--	0	--	--	10	--	--	79	--
29...	--	8	--	0	--	--	3	--	--	--
SEP.										
07...	0	--	1	--	0	0	--	0	4	3

01410820 GREAT EGG HARBOR RIVER NEAR BLUE ANCHOR, N. J.--Continued

[illegible]

## GREAT EGG HARBOR RIVER BASIN

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01410820 GREAT EGG HARBOR RIVER NEAR BLUE ANCHOR, N. J.--Continued

SUSPENDED-SEDIMENT DISCHARGE MEASUREMENTS, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DATE	TIME	TEMPER- ATURE (DEG C)	INSTAN- TANEOUS DIS- CHARGE (CFS)	SUS- PEN- DED SEDI- MENT (MG/L)	SUS- PEN- DED SEDI- MENT DIS- CHARGE (T/DAY)
MAR.					
01...	0945	--	53	6	.86
27...	1630	7.5	60	9	1.5
APR.					
04...	1230	--	114	3	.92
09...	1055	--	92	12	3.0
09...	1415	--	100	14	3.8
JULY					
17...	1420	19.0	26	5	.35
AUG.					
07...	1415	18.5	49	22	2.9
08...	1915	19.0	46	12	1.5
21...	0915	18.7	25	8	.54
23...	0845	--	210	29	16
23...	1655	--	172	19	8.8
SEP.					
04...	1125	18.8	90	59	14
04...	1345	19.1	89	32	7.7
04...	1550	18.8	88	20	4.8
27...	1415	15.0	28	6	.45



01411000 GREAT EGG HARBOR RIVER AT FOLSOM, N. J.

LOCATION.--Lat 39°35'42", long 74°51'06", Atlantic County, water-quality recorder at gaging station on N.J. Route 54 bridge, 1.0 mi (1.6 km) south of Folsom.

DRAINAGE AREA.--56.3 mi<sup>2</sup> (146 km<sup>2</sup>).

PERIOD OF RECORD.--Chemical analyses: Water years 1962-68 (partial-record station), December 1968 to September 1974.

Water temperatures: October 1960 to September 1974.

Sediment records: July 1963 to September 1970.

EXTREMES.--1973-74:

Specific conductance: Maximum, 130 micromhos Oct. 31; minimum, 65 micromhos June 4, 5.

Specific conductance: Maximum, 130 micromhos Oct. 31; minimum, 65 micromhos June 4, 5.  
Water temperatures: Maximum, 23.0°C July 9, 10, minimum, freezing point on several days during winter months.

Period of record:

Specific conductance: (1969-74) Maximum, 130 micromhos Oct. 31, 1973; minimum, 41 micromhos July 14, 1972.

Water temperatures: Maximum, 24.0°C July 23-24, 1972; minimum, freezing point on many days during winter months.

REMARKS.--Miscellaneous storm sediment samples collected during water years 1971-74. Missing continuous water-quality records are the result of malfunction of sensor or sampling mechanism.

## WATER QUALITY DATA, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DATE	TIME	INSTANTANEOUS DIS-CHARGE (CFS)	ELEV. OF LAND SURFACE DATUM (FT. ABOVE MSL)	TEMPERATURE (DEG C)	SPECIFIC CONDUCTANCE (MICRO-MHOS)	PH (UNITS)	TOTAL ACIDITY AS H+ (MG/L)	DISSOLVED OXYGEN (MG/L)	BIO-CHEMICAL OXYGEN DEMAND 5 DAY (MG/L)	TURBIDITY (JTU)	COLOR (PLATINUM-COBALT UNITS)
MAR.											
01...	1015	81	53	--	--	--	--	--	--	--	--
27...	1715	117	53	7.0	74	4.5	.3	11.0	1.2	--	--
APR.											
09...	1150	115	53	--	--	--	--	--	--	--	--
09...	1500	115	53	10.5	--	--	--	--	--	--	--
26...	0845	95	53	11.4	75	5.0	--	8.6	1.7	4	80
MAY											
31...	1030	75	53	15.2	73	5.6	--	7.6	1.0	20	30
JUNE											
29...	1715	68	53	16.6	74	6.1	--	8.7	1.0	--	--
JULY											
17...	1500	42	53	19.4	--	--	--	--	--	--	--
26...	1655	42	53	17.9	95	5.1	--	8.3	.3	--	--
AUG.											
07...	1545	72	53	18.0	--	--	--	--	--	--	--
08...	1930	80	53	18.0	--	--	--	--	--	--	--
20...	1455	42	53	18.8	77	6.2	--	8.9	1.4	--	--
20...	1530	42	53	27.4	--	--	--	--	--	--	--
21...	0845	40	53	18.4	--	--	--	--	--	--	--
23...	1000	73	53	--	--	--	--	--	--	--	--
23...	1610	88	53	--	--	--	--	--	--	--	--
SEP.											
04...	1115	85	53	19.1	--	--	--	--	--	--	--
04...	1530	95	53	19.2	--	--	--	--	--	--	--
11...	1545	100	53	--	66	4.7	--	6.4	1.0	3	90
27...	1440	44	53	14.7	--	--	--	--	--	--	--
29...	1315	47	53	17.9	--	--	--	--	--	--	--

[illegible]

WATER QUALITY DATA, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

[illegible][illegible]

## GREAT EGG HARBOR RIVER BASIN

01411000 GREAT EGG HARBOR RIVER AT FOLSOM, N. J.--Continued

## WATER QUALITY DATA, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DATE	DIS-SOLVED ARSENIC (AS) (UG/L)	DIS-SOLVED BARIUM (BA) (UG/L)	DIS-SOLVED BERYLLIUM (BE) (UG/L)	DIS-SOLVED BISMUTH (BI) (UG/L)	DIS-SOLVED BORON (B) (UG/L)	DIS-SOLVED CADMIUM (CD) (UG/L)	DIS-SOLVED CHROMIUM (CR) (UG/L)	DIS-SOLVED COBALT (CO) (UG/L)
APR. 26...	2	--	--	--	--	0	--	--
SEP. 11...	1	30	0	0	45	<1	4	3

DATE	DIS-SOLVED COPPER (CU) (UG/L)	DIS-SOLVED LEAD (PB) (UG/L)	DIS-SOLVED MOLYBDENUM (MO) (UG/L)	DIS-SOLVED NICKEL (NI) (UG/L)	DIS-SOLVED SILVER (AG) (UG/L)	DIS-SOLVED STRONTIUM (SR) (UG/L)	DIS-SOLVED VANADIUM (V) (UG/L)	DIS-SOLVED ZINC (ZN) (UG/L)	DIS-SOLVED TIN (SN) (UG/L)
APR. 26...	90	3	--	--	--	--	--	50	--
SEP. 11...	40	4	0	32	0	24	1.0	30	0

DATE	DIS-SOLVED ALUMINUM (AL) (UG/L)	DIS-SOLVED GALLIUM (GA) (UG/L)	DIS-SOLVED GERMANIUM (GE) (UG/L)	DIS-SOLVED LITHIUM (LI) (UG/L)	DIS-SOLVED SELENIUM (SE) (UG/L)	DIS-SOLVED TITANIUM (TI) (UG/L)	DIS-SOLVED ZIRCONIUM (ZR) (UG/L)	DIS-SOLVED MERCURY (HG) (UG/L)
APR. 26...	--	--	--	--	--	--	--	<.5
SEP. 11...	500	0	0	1	3	2	0	<.5

## SUSPENDED-SEDIMENT DISCHARGE MEASUREMENTS, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DATE	TIME	TEMPERATURE (DEG C)	INSTANTANEOUS DISCHARGE (CFS)	SUSPENDED SEDIMENT (MG/L)	SUSPENDED SEDIMENT DISCHARGE (T/DAY)
MAR. 01...	1015	--	81	3	.66
MAR. 27...	1715	7.0	115	46	14
APR. 09...	1150	--	149	8	3.2
APR. 09...	1500	10.5	149	6	2.4
JULY 17...	1500	19.4	42	16	1.8
AUG. 07...	1545	18.0	72	11	2.1
AUG. 08...	1930	18.0	75	15	3.0
AUG. 20...	1530	27.4	42	14	1.6
AUG. 21...	0845	18.4	41	15	1.7
AUG. 23...	1000	--	72	17	3.3
AUG. 23...	1610	--	85	15	3.4
SEP. 04...	1115	19.1	85	16	3.7
SEP. 04...	1530	19.2	95	18	4.6
SEP. 27...	1440	14.7	45	12	1.5
SEP. 29...	1315	17.9	47	14	1.8

## GREAT EGG HARBOR RIVER BASIN

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01411000 GREAT EGG HARBOR RIVER AT FOLSOM, N. J.--Continued

SPECIFIC CONDUCTANCE (MICROMHOS AT 25°C), WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCTOBER			NOVEMBER			DECEMBER			JANUARY		
	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	94	92	93	127	120	124	84	83	84	---	---	---
2	95	92	93	120	112	116	---	---	---	---	---	---
3	99	87	94	112	103	108	85	83	---	---	---	---
4	91	88	89	103	93	98	84	83	83	90	85	88
5	89	86	88	92	87	89	85	83	84	87	80	84
6	90	85	87	86	82	84	83	82	82	86	78	82
7	87	84	85	83	81	82	82	80	80	89	79	85
8	84	83	83	82	76	79	81	80	80	89	80	82
9	84	83	83	83	79	81	84	79	82	88	77	82
10	86	83	85	82	79	80	82	78	79	93	79	83
11	87	85	86	82	80	81	89	82	86	86	81	84
12	86	84	85	81	80	81	90	88	89	85	81	83
13	87	84	86	81	80	81	---	---	---	85	82	83
14	86	84	85	82	80	81	89	84	86	91	85	88
15	87	84	86	81	80	81	84	83	---	92	91	92
16	85	84	85	81	79	80	87	84	85	92	88	90
17	85	83	84	80	79	79	97	86	89	92	86	88
18	85	84	84	80	79	80	91	84	---	86	80	83
19	85	83	85	81	79	80	---	---	---	89	80	85
20	86	85	85	81	80	80	---	---	---	84	81	82
21	86	84	85	82	80	81	---	---	---	84	81	81
22	86	84	85	83	80	82	---	---	---	81	75	78
23	85	84	85	82	81	82	---	---	---	79	75	77
24	86	84	85	82	81	82	---	---	---	81	78	79
25	87	86	86	83	82	82	---	---	---	82	78	80
26	86	85	85	81	80	81	---	---	---	79	78	79
27	86	84	85	82	80	81	---	---	---	81	74	77
28	85	84	85	85	82	83	---	---	---	79	76	77
29	108	85	94	83	80	82	---	---	---	79	75	76
30	123	103	115	83	80	82	---	---	---	76	74	75
31	130	123	126	---	---	---	---	---	---	75	73	74
MONTH	130	83	89	127	76	85	---	---	---	93	73	82

DAY	FEBRUARY			MARCH			APRIL			MAY		
	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	74	73	74	80	79	80	76	72	73	84	80	82
2	75	73	74	80	78	79	79	76	78	84	80	82
3	76	74	74	79	78	78	81	79	80	83	72	80
4	81	73	75	79	78	78	85	80	82	72	70	70
5	78	74	76	79	78	79	80	78	79	70	69	70
6	87	75	79	80	78	79	78	77	77	73	69	71
7	89	76	83	79	78	78	79	77	78	72	70	71
8	79	75	77	81	79	80	80	78	79	73	70	71
9	82	74	78	81	79	80	81	76	79	76	71	74
10	78	74	76	80	76	78	76	74	75	76	72	74
11	80	75	78	78	76	77	78	75	77	73	71	72
12	83	76	80	79	77	78	80	78	79	75	71	72
13	86	80	83	79	77	78	81	79	80	72	67	69
14	84	79	81	82	78	79	79	77	78	69	66	68
15	81	78	80	84	79	80	77	76	77	70	67	69
16	89	78	82	88	79	83	77	76	76	78	70	75
17	86	78	81	78	72	74	76	74	75	75	70	72
18	80	78	79	76	72	74	78	75	77	77	75	76
19	84	78	80	78	76	77	77	76	76	80	76	79
20	92	78	84	78	75	77	78	75	76	83	78	80
21	79	77	78	78	70	74	78	75	76	85	79	82
22	83	78	79	71	68	69	78	76	77	87	82	84
23	78	77	77	75	70	73	81	74	78	89	77	85
24	78	76	77	77	75	76	74	72	74	75	71	72
25	87	77	81	78	76	77	74	72	73	72	70	71
26	78	76	77	78	76	77	78	74	76	70	68	69
27	83	76	79	82	79	81	79	76	77	70	68	69
28	82	80	81	81	78	79	81	77	79	74	69	72
29	---	---	---	82	78	80	84	80	82	75	72	74
30	---	---	---	83	77	81	83	80	81	78	75	76
31	---	---	---	76	72	74	---	---	---	79	77	78
MONTH	92	73	79	88	68	78	85	72	77	89	66	74

## GREAT EGG HARBOR RIVER BASIN

01411000 GREAT EGG HARBOR RIVER AT FOLSOM, N. J.--Continued

SPECIFIC CONDUCTANCE (MICROMHOS AT 25°C), WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	JUNE			JULY			AUGUST			SEPTEMBER		
	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	82	78	79	83	80	82	102	97	100	---	---	---
2	88	76	83	87	80	84	103	97	99	---	---	---
3	75	67	70	91	84	87	105	92	96	---	---	---
4	67	65	66	96	88	92	97	93	95	---	---	---
5	68	65	67	95	91	93	100	86	92	---	---	---
6	72	67	70	99	73	87	91	83	87	78	77	---
7	75	72	74	75	70	73	95	90	92	78	73	75
8	78	75	77	75	73	75	88	83	85	73	70	---
9	83	77	80	75	71	73	85	83	84	75	73	74
10	86	80	83	84	76	80	87	78	82	74	71	73
11	88	83	85	91	83	87	85	82	83	73	69	71
12	89	84	86	93	88	91	90	84	87	76	69	74
13	90	85	87	96	91	94	93	87	90	80	78	78
14	90	86	88	106	95	101	93	91	91	85	81	84
15	90	88	89	102	98	100	95	92	93	85	82	84
16	89	88	88	104	96	99	98	93	95	90	86	88
17	89	87	87	102	96	98	98	94	96	95	91	93
18	89	86	87	103	97	100	100	96	98	98	94	96
19	92	87	89	103	98	101	102	97	100	95	88	92
20	90	87	89	104	97	101	106	98	101	95	92	93
21	94	88	90	103	97	100	109	102	106	98	94	96
22	91	84	87	101	97	100	107	103	105	100	88	94
23	92	82	88	103	96	100	105	81	89	97	91	94
24	83	75	79	102	98	100	91	87	89	100	95	98
25	84	69	77	101	96	99	91	88	90	102	98	100
26	73	70	71	99	96	97	88	80	84	102	99	101
27	74	73	74	103	98	99	81	78	80	103	99	101
28	79	74	77	106	96	103	84	81	82	104	102	103
29	78	76	77	101	99	100	---	---	---	105	97	101
30	82	76	79	104	96	100	---	---	---	99	95	97
31	---	---	---	106	99	102	---	---	---	---	---	---
MONTH	94	65	81	106	70	93	109	78	92	105	69	---

TEMPERATURE (°C) OF WATER, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCTOBER			NOVEMBER			DECEMBER			JANUARY		
	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	13.0	11.5	12.0	9.0	8.0	8.5	8.0	7.0	7.5	---	---	---
2	13.0	12.0	12.5	8.5	7.5	8.0	---	---	---	---	---	---
3	14.0	13.0	13.5	9.0	8.5	8.5	6.0	5.0	---	---	---	---
4	14.5	13.5	14.0	8.5	7.0	7.5	7.0	5.5	6.0	3.0	2.5	3.0
5	15.0	14.0	14.5	6.5	5.5	6.0	10.5	7.0	9.0	2.5	1.5	2.0
6	14.0	12.0	13.0	5.5	4.5	5.0	11.0	9.5	10.5	2.0	1.5	2.0
7	12.0	11.0	11.5	4.5	4.0	4.5	9.5	7.0	8.0	3.5	2.0	3.0
8	12.0	11.0	11.5	7.0	6.0	6.5	7.0	6.5	7.0	4.0	1.0	2.5
9	11.5	11.0	11.5	8.5	7.5	7.5	8.0	7.0	7.5	1.0	0.5	1.0
10	12.0	11.5	12.0	7.5	6.0	6.5	8.0	6.5	7.0	1.5	0.5	1.0
11	12.0	11.0	11.5	5.5	4.5	5.0	6.5	4.5	5.5	2.0	1.5	1.5
12	11.0	9.5	10.0	6.5	5.0	6.0	---	---	---	2.0	1.0	1.5
13	10.5	9.5	10.0	8.5	6.5	7.5	4.5	2.5	3.0	0.5	0.0	0.0
14	12.0	11.0	11.5	10.0	8.5	9.0	6.0	4.5	5.5	0.0	0.0	0.0
15	11.5	10.5	11.0	11.0	9.5	10.0	5.5	4.5	---	1.0	0.0	0.5
16	11.5	11.0	11.5	12.5	11.0	11.5	4.5	3.5	4.0	2.5	0.5	1.5
17	10.5	8.5	9.5	10.5	8.0	9.5	3.0	2.5	3.0	3.0	2.0	2.5
18	8.5	8.0	8.0	7.5	6.5	7.0	2.5	1.5	---	2.0	0.5	1.0
19	8.0	7.5	8.0	8.5	7.0	8.0	---	---	---	2.5	0.5	2.0
20	8.5	7.0	8.0	8.0	7.0	7.5	---	---	---	3.0	2.0	2.5
21	9.0	8.0	8.5	8.0	6.5	7.0	---	---	---	6.0	3.0	4.5
22	8.5	7.0	8.0	10.0	8.0	9.5	---	---	---	6.0	5.0	5.5
23	8.5	7.0	8.0	9.0	9.5	9.5	---	---	---	7.0	4.5	5.5
24	9.0	7.5	8.5	10.5	9.5	10.0	---	---	---	7.0	6.0	6.5
25	10.0	8.5	9.0	12.0	10.5	11.0	---	---	---	6.5	5.5	6.0
26	10.5	9.5	10.0	12.0	11.0	11.5	---	---	---	5.0	4.0	4.5
27	10.5	9.5	10.0	11.5	11.0	11.0	---	---	---	9.0	5.0	7.5
28	9.5	8.5	9.0	12.5	11.5	12.0	---	---	---	8.5	7.5	8.0
29	11.0	9.5	10.0	12.0	9.5	11.0	---	---	---	9.0	8.0	8.5
30	10.5	8.5	9.5	9.5	8.0	8.5	---	---	---	8.5	7.5	8.0
31	8.5	7.5	8.0	---	---	---	---	---	---	8.0	6.5	7.0
MONTH	15.0	7.0	10.5	12.5	4.0	8.5	---	---	---	9.0	0.0	3.5

## GREAT EGG HARBOR RIVER BASIN

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01411000 GREAT EGG HARBOR RIVER AT FOLSOM, N. J.--Continued

TEMPERATURE (°C) OF WATER, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

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

DAY	JUNE			JULY			AUGUST			SEPTEMBER		
	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	16.5	16.0	16.0	19.5	17.5	18.5	19.5	18.5	19.0	---	---	---
2	16.5	16.0	16.0	20.0	18.0	19.0	20.0	18.5	19.0	---	---	---
3	16.0	15.0	15.5	20.5	19.0	19.5	20.0	19.0	19.5	---	---	---
4	16.5	15.0	15.5	21.5	19.5	20.5	20.5	20.0	20.0	---	---	---
5	17.5	15.5	16.5	21.0	20.0	20.5	20.5	19.5	20.0	---	---	---
6	17.5	15.5	16.5	20.5	19.5	20.0	20.0	19.0	19.5	17.5	17.0	---
7	17.0	16.0	16.5	22.0	20.0	21.0	19.0	18.0	18.5	17.0	16.5	16.5
8	17.0	16.0	16.5	22.0	20.5	21.5	18.0	17.0	18.0	17.5	16.5	17.0
9	18.0	16.0	17.0	23.0	20.5	22.0	19.0	17.5	18.0	18.0	16.5	17.5
10	20.0	17.5	18.5	23.0	20.5	21.5	19.5	18.0	18.5	18.5	17.5	18.0
11	20.0	19.0	19.5	21.5	20.5	21.0	18.5	17.0	18.0	19.0	18.0	18.5
12	19.5	17.5	18.0	20.5	18.5	19.0	18.0	16.5	17.5	19.5	18.0	19.0
13	17.5	16.5	17.0	19.0	17.5	18.5	17.5	16.5	17.0	20.0	18.5	19.0
14	17.0	15.5	16.0	20.0	18.0	19.0	18.5	17.0	18.0	20.0	18.5	19.0
15	17.5	16.0	16.5	20.5	19.0	20.0	19.0	18.0	18.5	18.5	16.5	17.0
16	18.0	17.0	17.5	20.5	20.0	20.5	19.5	18.0	19.0	16.5	15.5	16.0
17	18.0	17.5	17.5	20.0	18.5	19.5	19.5	18.5	19.0	16.5	15.5	16.0
18	17.5	17.0	17.5	19.5	18.5	19.0	19.5	19.0	19.5	17.0	16.0	16.5
19	17.5	16.5	17.0	20.0	19.0	19.5	19.5	18.5	19.0	16.5	16.0	16.5
20	18.5	17.0	18.0	20.0	19.0	19.5	19.5	18.0	19.0	17.5	16.5	17.0
21	19.0	18.0	18.5	19.5	18.0	18.5	19.0	18.0	18.5	18.0	17.0	17.5
22	19.5	18.5	19.0	18.0	17.0	17.5	19.0	18.5	18.5	18.0	16.5	17.0
23	19.5	18.5	19.0	17.5	16.5	17.0	21.0	19.0	20.0	16.0	14.5	15.0
24	18.5	17.5	18.0	17.5	17.0	17.0	21.5	21.0	21.5	14.0	12.5	13.0
25	17.5	17.0	17.5	18.0	17.0	17.5	22.0	21.0	21.5	13.0	11.5	12.5
26	17.0	16.0	16.5	18.0	17.0	17.5	21.5	20.5	21.0	13.5	12.0	13.0
27	17.5	16.0	16.5	19.0	17.5	18.0	21.0	20.0	20.5	14.0	12.5	13.5
28	17.0	16.0	16.0	19.5	18.5	19.0	21.0	20.0	20.5	15.5	14.0	14.5
29	17.0	15.5	16.0	20.0	19.0	19.5	---	---	---	17.0	15.5	16.5
30	18.5	16.0	17.5	20.5	19.0	20.0	---	---	---	16.5	15.5	16.0
31	---	---	---	20.0	19.0	19.5	---	---	---	---	---	---
MONTH	20.0	15.0	17.0	23.0	16.5	19.5	22.0	16.5	19.0	20.0	11.5	16.5



## GREAT EGG HARBOR RIVER BASIN

## ANALYSES OF SAMPLES COLLECTED AT WATER-QUALITY PARTIAL-RECORD STATIONS

WATER QUALITY DATA, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DATE	TIME	TEMPER- ATURE (DEG C)	SPE- CIFIC CON- DUCT- ANCE (MICRO- MHOS)	PH (UNITS)	DIS- SOLVED OXYGEN (MG/L)	BIO- CHEM- ICAL OXYGEN DEMAND 5 DAY (MG/L)	TUR- BID- ITY (JTU)	COLOR (PLAT- INUM- COBALT UNITS)	TOTAL NITRITE (N) (MG/L)	DIS- SOLVED NITRITE (N) (MG/L)
------	------	-----------------------------	--	---------------	------------------------------------	--	------------------------------	--	-----------------------------------	--

## 01410850 - SQUANKUM B AT WILLIAMSTOWN (LAT 39 40 52 LONG 074 59 02)

AUG., 1974										
05...	0730	19.0	128	6.5	5.0	--	6	30	.05	--
SEP.										
10...	0700	22.0	306	6.3	4.7	4.7	4	1	.04	--

## 01410865 - SQUANKUM B AT MALAGA RD NR WILLIAMSTOWN NJ (LAT 39 40 04 LONG 074 57 39)

AUG., 1974										
05...	0915	17.0	148	5.9	5.0	--	6	10	.12	--
05...	0930	17.0	145	5.9	5.0	--	--	5	--	.08
SEP.										
10...	0930	19.0	304	6.7	2.2	--	10	6	.00	--
10...	0935	19.0	280	6.7	2.2	--	4	7	--	.00

## 01410870 - SQUANKUM B NR CECIL NJ (LAT 39 39 42 LONG 074 56 22)

AUG., 1974										
05...	1100	18.0	116	6.1	1.5	--	20	50	.08	--
SEP.										
10...	1000	21.0	247	6.7	1.1	--	6	30	.01	--

## 01410875 - SQUANKUM B AT CECIL NJ (LAT 39 39 27 LONG 074 56 11)

AUG., 1974										
05...	1200	17.0	118	6.3	--	--	8	50	.05	--
SEP.										
10...	1100	--	210	6.7	2.4	--	6	30	.12	--

DATE	TOTAL NITRATE (N) (MG/L)	DIS- SOLVED NITRATE (N) (MG/L)	TOTAL KJEL- DAHL NITRO- GEN (N) (MG/L)	AMMONIA NITRO- GEN (N) (MG/L)	DIS- SOLVED AMMONIA NITRO- GEN (N) (MG/L)	TOTAL ORGANIC NITRO- GEN (N) (MG/L)	TOTAL NITRO- GEN (N) (MG/L)	TOTAL PHOS- PHORUS (P) (MG/L)	TOTAL ORTHO- PHOS- PHORUS (P) (MG/L)	DIS- SOLVED ORTHO- PHOS- PHORUS (P) (MG/L)
------	-----------------------------------	--	--	---	---	--	---	---	---	--

## 01410850 - SQUANKUM B AT WILLIAMSTOWN (LAT 39 40 52 LONG 074 59 02)

AUG., 1974										
05...	1.1	--	.72	.44	--	.28	1.8	.22	.18	--
SEP.										
10...	1.8	--	.38	.19	--	.19	2.2	.04	.01	--

## 01410865 - SQUANKUM B AT MALAGA RD NR WILLIAMSTOWN NJ (LAT 39 40 04 LONG 074 57 39)

AUG., 1974										
05...	2.0	--	3.8	3.8	--	.00	5.9	1.2	1.2	--
05...	--	2.0	--	--	3.0	--	--	--	--	.89
SEP.										
10...	.02	--	>12	12	--	.00	9.7	3.4	2.9	--
10...	--	.02	--	--	9.7	--	--	--	--	2.4

## 01410870 - SQUANKUM B NR CECIL NJ (LAT 39 39 42 LONG 074 56 22)

AUG., 1974										
05...	.21	--	4.0	3.7	--	.30	4.3	1.2	.93	--
SEP.										
10...	.03	--	>11	11	--	.00	8.6	3.6	3.2	--

## 01410875 - SQUANKUM B AT CECIL NJ (LAT 39 39 27 LONG 074 56 11)

AUG., 1974										
05...	.09	--	4.5	4.3	--	.20	4.6	1.2	1.1	--
SEP.										
10...	.13	--	>8.9	8.9	--	.00	8.7	3.0	2.6	--



## GREAT EGG HARBOR RIVER BASIN

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## ANALYSES OF SAMPLES COLLECTED AT WATER-QUALITY PARTIAL-RECORD STATIONS--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DATE	TOTAL ORGANIC CARBON (C) (MG/L)	DIS- SOL- VED ORGANIC CARBON (C) (MG/L)	ALKA- LITY AS CACO3 (MG/L)	BICAR- BONATE (HCO3) (MG/L)	CARBON DIOXIDE (CO2) (MG/L)	TOTAL CAL- CIUM (CA) (MG/L)	TOTAL MAG- NE- SIUM (MG) (MG/L)	TOTAL SODIUM (NA) (MG/L)	TOTAL PO- TAS- SIUM (K) (MG/L)	DIS- SOLVED CHLO- RIDE (CL) (MG/L)
------	---	---	--	--------------------------------------	--------------------------------------	---	--	-----------------------------------	---	---

## 01410850 - SQUANKUM B AT WILLIAMSTOWN (LAT 39 40 52 LONG 074 59 02)

AUG., 1974										
05...	--	11	25	31	16	11	3.3	5.5	3.8	6.3
SEP.										
10...	--	9.2	50	61	49	26	8.0	14	5.8	15

## 01410865 - SQUANKUM B AT MALAGA RD NR WILLIAMSTOWN NJ (LAT 39 40 04 LONG 074 57 39)

AUG., 1974										
05...	--	14	28	34	68	7.0	3.1	13	3.5	14
05...	--	--	27	33	66	--	--	--	--	14
SEP.										
10...	9.6	5.0	79	96	31	16	4.8	25	8.0	23
10...	--	--	85	104	33	--	--	--	--	23

## 01410870 - SQUANKUM B NR CECIL NJ (LAT 39 39 42 LONG 074 56 22)

AUG., 1974										
05...	20	18	17	21	27	5.3	2.5	11	3.2	10
SEP.										
10...	18	16	66	80	26	13	4.0	25	4.8	19

## 01410875 - SQUANKUM B AT CECIL NJ (LAT 39 39 27 LONG 074 56 11)

AUG., 1974										
05...	11	--	23	28	22	4.3	2.2	12	3.3	10
SEP.										
10...	21	13	59	72	23	7.0	4.0	23	5.0	17

DATE	DIS- SOLVED SULFATE (SO4) (F) (MG/L)	TOTAL FLUO- RIDE (F) (MG/L)	DIS- SOLVED SILICA (SiO2) (MG/L)	DIS- SOLVED SOLIDS (RESI- DUE AT 180 C) (MG/L)	DIS- SOLVED SOLIDS (TONS PER AC-FT)	TOTAL IRON (FE) (UG/L)	DIS- SOLVED IRON (FE) (UG/L)	TOTAL MAN- GANESE (MN) (UG/L)	DIS- SOLVED MAN- GANESE (MN) (UG/L)
------	---	---	--	--	--	---------------------------------	--	---	--

## 01410850 - SQUANKUM B AT WILLIAMSTOWN (LAT 39 40 52 LONG 074 59 02)

AUG., 1974									
05...	21	.3	3.2	106	.14	320	--	70	--
SEP.									
10...	51	.2	5.4	188	.26	1000	--	110	--

## 01410865 - SQUANKUM B AT MALAGA RD NR WILLIAMSTOWN NJ (LAT 39 40 04 LONG 074 57 39)

AUG., 1974									
05...	14	.2	5.9	116	.16	240	--	60	--
05...	15	--	5.8	103	.14	--	170	--	310
SEP.									
10...	13	.3	8.1	153	.21	300	--	30	--
10...	15	--	8.3	156	.21	--	270	--	60

## 01410870 - SQUANKUM B NR CECIL NJ (LAT 39 39 42 LONG 074 56 22)

AUG., 1974									
05...	24	.4	4.7	106	.14	900	--	90	--
SEP.									
10...	17	.2	8.9	130	.18	490	--	30	--

## 01410875 - SQUANKUM B AT CECIL NJ (LAT 39 39 27 LONG 074 56 11)

AUG., 1974									
05...	20	.3	4.7	100	.14	740	--	90	--
SEP.									
10...	15	.3	8.5	127	.17	2500	--	80	--

## GREAT EGG HARBOR RIVER BASIN

## ANALYSES OF SAMPLES COLLECTED AT WATER-QUALITY PARTIAL-RECORD STATIONS

WATER QUALITY DATA, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DATE	TIME	TEMPER- ATURE (DEG C)	SPE- CIFIC CON- DUCT- ANCE (MICRO- MHOS)	PH (UNITS)	DIS- SOLVED OXYGEN (MG/L)	BIO- CHEM- ICAL OXYGEN DEMAND 5 DAY (MG/L)	TUR- BID- ITY (JTU)	COLOR (PLAT- INUM- COBALT UNITS)	TOTAL NITRITE (N) (MG/L)	TOTAL NITRATE (N) (MG/L)	TOTAL KJEL- DAHL NITRO- GEN (N) (MG/L)
394200074565901 - INFILTRATION POND STP AT WINSLOW CROSSING NJ (LAT 39 42 00 LONG 074 56 59.01)											
AUG., 1974											
19...	1100	26.1	422	7.3	--	--	3	6	.11	.65	2.0
394203074562901 - W OUTLET NEW BROOKLYN L AT WINSLOW CROSSING NJ (LAT 39 42 03 LONG 074 56 29.01)											
MAR., 1974											
27...	1415	8.3	69	5.6	13.4	1.7	--	--	.01	.66	.95
APR.											
25...	1515	16.2	71	6.2	10.2	1.7	4	70	.02	.75	--
JULY											
26...	1445	24.2	64	8.1	14.6	>9.8	10	20	.02	.81	1.4
DATE	AMMONIA NITRO- GEN (N) (MG/L)	ORGANIC NITRO- GEN (N) (MG/L)	TOTAL NITRO- GEN (N) (MG/L)	TOTAL PHOS- PHORUS (P) (MG/L)	TOTAL ORTHO PHOS- PHORUS (P) (MG/L)	DIS- SOLVED ORTHO. PHOS- PHORUS (P) (MG/L)	TOTAL ORGANIC CARBON (C) (MG/L)	IMME- DIATE COLI- FORM (COL. PER 100 ML)	FECAL COLI- FORM (COL. PER 100 ML)	STREP- TOCOCCI (COL- ONIES PER 100 ML)	ALKA- LINITY AS CAC03 (MG/L)
394200074565901 - INFILTRATION POND STP AT WINSLOW CROSSING NJ (LAT 39 42 00 LONG 074 56 59.01)											
AUG., 1974											
19...	1.7	.30	2.8	12	12	--	--	--	--	--	80
394203074562901 - W OUTLET NEW BROOKLYN L AT WINSLOW CROSSING NJ (LAT 39 42 03 LONG 074 56 29.01)											
MAR., 1974											
27...	.47	.48	1.6	.14	--	.12	--	0	0	4	2
APR.											
25...	.56	--	--	.26	.21	--	9.0	216	28	0	4
JULY											
26...	.42	.98	2.2	.15	.04	--	12	--	--	--	7
DATE	CAR- BONATE (CO3) (MG/L)	BICAR- BONATE (HCO3) (MG/L)	CARBON DIOXIDE (CO2) (MG/L)	HARD- NESS (CA,MG) (MG/L)	NON- CAR- BONATE HARD- NESS (MG/L)	DIS- SOLVED CAL- CIUM (CA) (MG/L)	TOTAL CAL- CIUM (CA) (MG/L)	DIS- SOLVED MAG- NE- SIUM (MG) (MG/L)	TOTAL MAG- NE- SIUM (MG) (MG/L)	TOTAL SODIUM (NA) (MG/L)	DIS- SOLVED SODIUM (NA) (MG/L)
394200074565901 - INFILTRATION POND STP AT WINSLOW CROSSING NJ (LAT 39 42 00 LONG 074 56 59.01)											
AUG., 1974											
19...	0	98	7.9	46	0	13	12	3.4	3.6	62	62
394203074562901 - W OUTLET NEW BROOKLYN L AT WINSLOW CROSSING NJ (LAT 39 42 03 LONG 074 56 29.01)											
MAR., 1974											
27...	0	2	8.0	15	13	3.5	--	1.4	--	--	5.0
APR.											
25...	0	5	5.0	17	12	4.0	--	1.6	--	--	5.5
JULY											
26...	0	9	.1	--	--	--	2.9	--	2.1	4.2	--

## GREAT EGG HARBOR RIVER BASIN

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ANALYSES OF SAMPLES COLLECTED AT WATER-QUALITY PARTIAL-RECORD STATIONS--Continued  
 WATER QUALITY DATA, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DATE	DIS- SOLVED PO- TAS- SIUM (K) (MG/L)	DIS- SOLVED SOLIDS (RESI- DUE AT 180 C) (MG/L)	DIS- SOLVED SOLIDS (SUM OF CONSTITUENTS) (MG/L)	DIS- SOLVED SOLIDS (TONS PER AC-FT)	TOTAL PO- TAS- SIUM (K) (MG/L)	DIS- SOLVED CHLO- RIDE (CL) (MG/L)	DIS- SOLVED SULFATE (SO4) (MG/L)	DIS- SOLVED FLUO- RIDE (F) (MG/L)	TOTAL FLUO- RIDE (F) (MG/L)	DIS- SOLVED SILICA (SI02) (MG/L)
394200074565901 - INFILTRATION POND STP AT WINSLOW CROSSING NJ (LAT 39 42 00 LONG 074 56 59.01)										
AUG., 1974										
19...	13	270	233	.37	13	40	38	--	.6	15
394203074562901 - W OUTLET NEW BROOKLYN L AT WINSLOW CROSSING NJ (LAT 39 42 03 LONG 074 56 29.01)										
MAR., 1974										
27...	1.7	--	38	.05	--	7.8	14	.1	--	3.0
APR.										
25...	2.0	57	37	.08	--	8.1	12	.1	--	1.0
JULY										
26...	--	47	--	.06	1.6	7.8	6.4	--	.2	2.3

DATE	TOTAL IRON (FE) (UG/L)	DIS- SOLVED IRON (FE) (UG/L)	TOTAL MAN- GANESE (MN) (UG/L)	DIS- SOLVED MAN- GANESE (MN) (UG/L)	TOTAL ARSENIC (AS) (UG/L)	DIS- SOLVED ARSENIC (AS) (UG/L)	TOTAL CAD- MIUM (CD) (UG/L)	DIS- SOLVED CAD- MIUM (CD) (UG/L)	TOTAL CHRO- MIUM (CR) (UG/L)	TOTAL COBALT (CO) (UG/L)
394200074565901 - INFILTRATION POND STP AT WINSLOW CROSSING NJ (LAT 39 42 00 LONG 074 56 59.01)										
AUG., 1974										
19...	220	90	100	10	1	--	0	--	0	0
394203074562901 - W OUTLET NEW BROOKLYN L AT WINSLOW CROSSING NJ (LAT 39 42 03 LONG 074 56 29.01)										
MAR., 1974										
27...	430	--	50	--	--	--	--	--	--	--
APR.										
25...	--	--	--	--	--	1	--	0	--	--
JULY										
26...	1500	--	30	--	1	--	0	--	0	0

DATE	TOTAL COPPER (CU) (UG/L)	DIS- SOLVED COPPER (CU) (UG/L)	TOTAL LEAD (PB) (UG/L)	DIS- SOLVED LEAD (PB) (UG/L)	TOTAL NICKEL (NI) (UG/L)	TOTAL ZINC (ZN) (UG/L)	DIS- SOLVED ZINC (ZN) (UG/L)	TOTAL MERCURY (HG) (UG/L)	DIS- SOLVED MERCURY (HG) (UG/L)
394200074565901 - INFILTRATION POND STP AT WINSLOW CROSSING NJ (LAT 39 42 00 LONG 074 56 59.01)									
AUG., 1974									
19...	30	--	1	--	0	220	--	<.5	--
394203074562901 - W OUTLET NEW BROOKLYN L AT WINSLOW CROSSING NJ (LAT 39 42 03 LONG 074 56 29.01)									
MAR., 1974									
27...	--	--	--	--	--	--	--	--	--
APR.									
25...	--	10	--	0	--	--	20	--	<.5
JULY									
26...	10	--	2	--	4	0	--	<.5	--

## MAURICE RIVER BASIN

01411500 MAURICE RIVER AT NORMA, N. J.

LOCATION.--Lat 39°29'42", long 75°04'38", Salem County, at bridge on Almond Road at Norma, 0.8 mi (1.3 km) downstream from Blackwater Branch.

DRAINAGE AREA.--113 mi<sup>2</sup> (293 km<sup>2</sup>).

PERIOD OF RECORD.--Chemical analyses: Water years 1966-72 (partial-record station), October 1972 to September 1974.  
Water temperatures: October 1960 to January 1968.  
Sediment records: February 1965 to January 1968.

## WATER QUALITY DATA, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DATE	TIME	INSTANTANEOUS DIS-CHARGE (CFS)	ELEV. OF LAND SURFACE DATUM (FT. ABOVE MSL)	TEMPERATURE (DEG C)	SPECIFIC CONDUCTANCE (MICRO-MHOS)	PH (UNITS)	DIS-SOLVED OXYGEN (MG/L)	CHEMICAL OXYGEN DEMAND 5 DAY (MG/L)	TURBIDITY (JTU)	COLOR (PLATINUM-COBALT UNITS)	TOTAL NITRITE (N) (MG/L)	TOTAL NITRATE (N) (MG/L)
NOV. 28...	1200	80	46	13.7	86	7.0	9.6	.0	--	--	.00	1.9
FEB. 12...	1210	E150	46	3.6	79	6.8	12.8	.7	--	--	.00	1.9
APR. 18...	1145	229	46	14.0	79	6.7	9.6	1.0	--	--	--	--
MAY 16...	1240	E185	46	20.5	67	5.5	8.2	1.2	--	--	.02	.95
JUNE 19...	1515	E91	46	21.8	86	6.0	7.6	--	--	--	--	--
JULY 19...	1145	72	46	28.0	95	7.1	7.4	.7	--	--	--	--
AUG. 20...	1400	61	46	22.0	90	5.9	8.2	1.4	--	--	--	--
SEP. 11...	1430	159	46	--	73	6.9	8.6	.7	2	50	.01	.78

DATE	TOTAL KJEL-DAHL NITROGEN (N) (MG/L)	AMMONIA NITROGEN (N) (MG/L)	ORGANIC NITROGEN (N) (MG/L)	TOTAL NITROGEN (N) (MG/L)	TOTAL PHOSPHORUS (P) (MG/L)	TOTAL ORTHO PHOSPHORUS (P) (MG/L)	DIS-SOLVED ORTHO PHOSPHORUS (P) (MG/L)	TOTAL ORGANIC CARBON (C) (MG/L)	IMMEDIATE COLIFORM (COL. PER 100 ML)	FECAL COLIFORM (COL. PER 100 ML)	STREPTOCOCCI (COLONIES PER 100 ML)
NOV. 28...	.61	.22	.39	2.5	.04	.04	.04	--	610	4	100
FEB. 12...	.49	.11	.38	2.4	.03	.02	.02	4.5	16	2	4
APR. 18...	--	--	--	--	--	--	--	--	94	26	18
MAY 16...	.44	.07	.37	1.4	.05	.03	--	--	92	46	112
JUNE 19...	--	--	--	--	--	--	--	--	300	70	2600
JULY 19...	--	--	--	--	--	--	--	--	450	270	550
AUG. 20...	--	--	--	--	--	--	--	--	520	140	4820
SEP. 11...	--	.48	--	--	.06	.03	--	13	430	165	500

DATE	ALKALINITY AS CaCO <sub>3</sub> (MG/L)	BICARBONATE (HCO <sub>3</sub> ) (MG/L)	CARBON DIOXIDE (CO <sub>2</sub> ) (MG/L)	DIS-SOLVED CHLORIDE (CL) (MG/L)	DIS-SOLVED SULFATE (SO <sub>4</sub> ) (MG/L)	TOTAL FLUORIDE (F) (MG/L)	DIS-SOLVED SILICA (SiO <sub>2</sub> ) (MG/L)	DIS-SOLVED SOLIDS (RESIDUE AT 180 C) (MG/L)	DIS-SOLVED SOLIDS (TONS PER AC-FT)	TOTAL IRON (FE) (UG/L)	TOTAL MANGANESE (MN) (UG/L)
NOV. 28...	--	--	--	--	--	--	--	--	--	--	--
FEB. 12...	--	--	--	--	--	--	--	--	--	--	--
APR. 18...	--	--	--	--	--	--	--	--	--	--	--
MAY 16...	--	--	--	--	--	--	--	--	--	--	--
JUNE 19...	--	--	--	--	--	--	--	--	--	--	--
JULY 19...	--	--	--	--	--	--	--	--	--	--	--
AUG. 20...	--	--	--	--	--	--	--	--	--	--	--
SEP. 11...	5	6	1.2	7.4	9.0	.2	6.9	64	.09	1000	90

## 01412350 DELAWARE BAY AT SHIP JOHN SHOAL LIGHTHOUSE, N. J.

LOCATION.--Lat 39°18'19", long 75°22'37", Cumberland County, water-quality recorder on light ship in bay opposite Bombay Hook Island, Del., and 3.0 mi (4.8 km) south southwest of mouth of Cohansey River, N.J.

PERIOD OF RECORD.--Chemical analyses: April 1969 to September 1974.

Water temperatures: October 1970 to September 1974.

## EXTREMES.--1973-74:

Specific conductance: Maximum, 30,010 micromhos July 17; minimum, 3,500 micromhos Dec. 30.

Water temperatures: Maximum, 28.0°C several days in Aug. and Sept.; minimum, 2.0°C Feb. 18, 19.

Period of record:

Specific conductance: Maximum, 52,800 micromhos Feb. 10, 1970; minimum, 570 micromhos Dec. 17, 1972.

Water temperatures: Maximum, 30.0°C Aug. 1, 1970; minimum, freezing point Feb. 18, 19, 1973.

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

## SPECIFIC CONDUCTANCE (MICROMHOS AT 25°C), WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCTOBER			NOVEMBER			DECEMBER			JANUARY		
	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	24920	17360	---	23080	15640	20550	25080	16130	21200	12300	5090	9100
2	---	---	---	20690	14680	18360	26710	19430	22770	12680	5550	9430
3	---	---	---	20920	15080	18600	26540	17990	22760	15710	5020	10490
4	---	---	---	22480	16360	19360	26200	18980	22920	14560	7400	11900
5	---	---	---	22840	15220	20060	26710	22360	24670	17630	8700	14190
6	---	---	---	24460	14320	22100	25400	19700	23280	19250	11150	15790
7	---	---	---	23900	18710	22260	24040	18710	22570	20580	12620	17150
8	---	---	---	26370	20470	23800	26540	19610	23780	18980	12300	15390
9	---	---	---	26540	22000	23950	29420	20800	24970	20250	12920	16330
10	---	---	---	26370	21160	23550	24760	18080	21830	20470	12860	16720
11	---	---	---	27220	22240	24540	25240	17270	20890	20250	12920	16940
12	---	---	---	27220	21760	24930	23760	16520	20320	17810	12050	15270
13	---	---	---	26880	21520	24500	24460	16760	20570	17090	9120	13960
14	---	---	---	27050	20360	23850	22720	16060	19690	17810	11060	14840
15	---	---	---	27220	20690	---	20360	13500	17720	16060	10220	13520
16	26880	22360	---	25080	19520	22590	19810	14260	17750	16760	8520	13330
17	26540	22000	24090	24760	18530	22260	23080	11720	19760	18530	12400	15490
18	26540	21520	24180	25400	18440	22780	19700	13900	17590	19070	12250	15840
19	27390	20470	24350	24760	20470	23030	21400	14740	18460	19520	8670	15740
20	26040	21760	24410	27050	21160	24560	23340	16360	20220	19250	12400	---
21	26710	22000	24470	27730	22240	25500	23200	13040	18580	20920	14620	18020
22	26540	22960	24760	27050	22600	25210	15010	6350	11130	19700	14140	17270
23	26710	22000	24470	27390	22240	25190	13450	5520	9890	19160	14380	16990
24	26710	22720	24600	27900	22120	25400	13960	5520	9700	19520	13150	16580
25	28280	23200	25560	27050	21280	24510	13600	6040	10290	18440	12860	16010
26	29610	24760	26930	28280	22120	24790	14680	6960	10800	17360	11680	15160
27	26880	22840	25300	27900	21640	25590	12920	5520	9380	16760	10460	13740
28	28280	23620	25900	27050	21760	24810	13200	5330	9400	16130	9420	13680
29	29800	25400	27230	24760	18350	---	13350	4870	8770	15430	8390	13000
30	26040	20250	23800	23200	16130	21190	10540	3500	7550	23480	8700	13550
31	24760	18890	22440	---	---	---	11760	4680	8160	16360	8800	12810
MONTH	---	---	---	28280	14320	23140	29420	3500	17330	23480	5020	14610

DAY	FEBRUARY			MARCH			APRIL			MAY		
	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	14380	7800	10530	17810	13150	15560	15290	7140	11810	17810	12740	15960
2	15500	6040	12170	19250	11960	16200	16760	10580	13610	19160	12620	16630
3	19250	11150	15190	19920	10940	16940	16060	10220	13720	19160	13720	16760
4	18980	12860	16770	20690	13300	17360	15780	9290	13240	20140	13100	16030
5	20250	14320	17000	17720	12560	15660	13500	7530	11040	20470	13250	16970
6	22120	14320	18120	18800	12450	15890	13350	5740	9590	20580	14800	17800
7	22000	15640	18520	20250	10780	16680	13500	5590	8910	19920	13100	16800
8	22600	15780	19200	18890	10940	15910	10740	4730	7550	19920	14260	17060
9	23200	14260	19080	19430	12860	16620	12050	5170	8860	20800	14320	17140
10	20690	14320	18220	19810	12500	15710	9920	3930	7320	18620	12680	16090
11	21160	11760	16870	18620	11060	15200	11250	4870	7770	17360	11500	15190
12	19520	11300	16190	19160	11100	15220	10900	4680	8100	19160	13150	16160
13	19520	12400	16910	16920	8770	14220	11500	4350	8510	17270	11020	14020
14	19700	13040	16630	17090	9670	13320	11550	6350	9030	16200	9060	13200
15	20140	13600	17460	19520	11020	14720	11640	5850	8310	14680	8330	12210
16	19520	11840	16780	18620	12450	15580	13550	4430	8470	14940	7880	11910
17	22360	14440	18490	17990	11960	14710	15290	5040	10070	15500	7610	12320
18	22960	15990	20120	15990	9250	12570	16200	7990	12590	17000	9190	12950
19	23340	17540	20950	19520	8890	14950	18980	10740	14740	17630	9960	13990
20	22840	19520	21160	19920	14380	17080	18260	13040	15860	18890	11720	14590
21	23080	18080	20710	21640	15290	17850	16920	11600	14730	18710	12800	14900
22	23620	18710	20830	18620	11300	15620	16060	10030	12870	19340	12680	15250
23	20920	13780	16770	18890	12980	16120	16200	10740	13000	20470	12680	15890
24	19250	14200	16510	18530	12980	16290	17540	10380	13480	19520	10940	16270
25	19810	13960	17570	17810	11400	15170	18980	10780	15180	19700	10940	16460
26	19520	13450	16870	17810	11200	15130	20250	12620	16640	21040	12150	16610
27	20030	12920	17070	16840	10620	14080	19520	12300	16460	21160	10940	17660
28	19430	12680	16420	17090	9880	14020	18710	11550	15810	20360	13600	18010
29	---	---	---	18260	12920	15920	17270	11840	15340	20470	12500	17250
30	---	---	---	19920	14940	17490	17990	12500	15380	21040	14080	17940
31	---	---	---	18710	8990	14270	---	---	---	22000	14680	17990
MONTH	23620	6040	17470	21640	8770	15550	20250	3930	11930	22000	7610	15740

## DELAWARE RIVER BASIN

01412350 DELAWARE BAY AT SHIP JOHN SHOAL LIGHTHOUSE, N. J.--Continued

SPECIFIC CONDUCTANCE (MICROMHOS AT 25°C), WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	JUNE			JULY			AUGUST			SEPTEMBER		
	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	20140	13500	17650	23900	19340	21660	26880	24180	---	27390	22000	24370
2	21520	14620	17660	23760	17450	21600	---	---	---	27390	22000	24300
3	21160	14380	18110	23340	18890	21190	---	---	---	26880	21280	24750
4	21520	14740	17850	23620	17990	21040	---	---	---	24760	20250	23000
5	20030	14440	17520	23480	17900	21020	25880	21520	---	25560	20920	23700
6	20580	13040	17250	23480	19340	21350	26880	22120	24570	26040	21400	24290
7	20580	16680	18520	23480	18530	21390	26370	21040	24030	26200	19920	23690
8	22240	15220	18900	23620	18440	21430	25720	21640	23790	25080	16280	22190
9	21760	13250	18440	23900	18710	21670	28850	22960	25470	25400	17180	21500
10	20800	14140	18220	24180	18440	21780	28090	23480	25930	24760	15990	21240
11	21640	16360	19220	24040	20920	22670	26880	22120	---	24920	15430	21400
12	22360	17810	19670	24920	21280	23450	26880	20920	---	25560	17000	22270
13	22240	17360	20010	26540	19920	23770	27730	21040	24920	25720	19160	22420
14	23620	17900	21390	27730	21040	24710	28470	22480	25620	26040	18800	22450
15	24760	19340	22070	28090	22600	25520	29420	23080	26010	26880	19520	23440
16	24040	19610	21900	28850	23080	25810	29420	23620	26460	26040	18800	22690
17	23760	19610	21600	30010	24600	26960	28470	20470	25800	26200	19250	22720
18	24320	19250	21460	28850	23760	26590	28660	23200	26090	25560	19340	22670
19	23900	18620	21300	28090	23340	25820	29230	22840	26190	25560	19340	22670
20	23200	18260	20630	28280	23620	26090	29230	22960	26150	25080	17630	22210
21	22840	17270	20320	29610	24040	27090	29040	23900	26500	24040	18170	21410
22	23080	17990	20650	29610	24180	26860	29040	23620	26340	24180	16840	20240
23	24040	18890	21460	28850	24180	26710	27560	22120	25130	23760	16200	20960
24	25080	19810	22550	28470	24320	26590	25880	20580	23790	26540	18170	21980
25	25560	20030	22940	28660	24320	26270	26710	20580	23740	27560	18890	23060
26	24460	20030	22820	28280	24180	26410	27220	20140	23940	27050	18800	23150
27	24320	16680	21470	27730	23760	25800	26370	21040	23830	27220	21040	24260
28	24920	20920	22820	27900	22960	25600	25240	19430	23150	28280	21640	24960
29	23900	18620	21940	28470	22600	25760	25720	19520	23200	26710	20470	24600
30	23620	18170	21330	27900	23480	25880	25880	20690	23180	24040	18890	22100
31	---	---	---	27730	22840	25580	26540	21400	23950	---	---	---
MONTH	25560	13040	20250	30010	17450	24320	29420	19430	---	28280	15430	22820

TEMPERATURE (°C) OF WATER, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCTOBER			NOVEMBER			DECEMBER			JANUARY		
	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	23.0	21.0	21.5	15.5	15.0	15.0	10.5	9.5	10.0	5.0	4.5	4.5
2	---	---	---	15.5	14.5	15.0	9.5	8.5	9.0	4.5	4.0	4.5
3	---	---	---	15.0	14.5	15.0	9.5	8.5	9.0	4.5	4.0	4.0
4	---	---	---	14.5	14.0	14.5	9.5	9.0	9.5	4.5	4.0	4.5
5	---	---	---	14.5	13.5	14.0	10.0	9.5	10.0	4.5	4.0	4.0
6	---	---	---	13.5	13.0	---	10.0	9.5	10.0	4.5	4.0	4.0
7	---	---	---	13.0	12.0	---	10.0	9.5	9.5	4.5	4.0	4.5
8	---	---	---	13.0	12.0	12.5	9.5	9.0	9.5	4.5	4.0	4.0
9	---	---	---	12.0	11.5	---	9.5	8.5	9.0	4.5	4.0	4.0
10	---	---	---	11.5	10.5	11.0	9.0	8.5	9.0	4.5	4.0	4.0
11	---	---	---	11.0	10.0	10.0	8.5	8.0	8.0	4.5	4.0	4.0
12	---	---	---	10.5	9.5	10.0	8.0	8.0	8.0	4.0	3.5	3.5
13	---	---	---	10.0	9.5	---	8.0	8.0	8.0	3.5	3.0	3.0
14	---	---	---	10.0	9.5	10.0	8.0	8.0	8.0	3.0	3.0	3.0
15	---	---	---	10.5	10.0	---	8.0	7.0	7.5	3.0	3.0	3.0
16	20.0	19.5	---	10.5	10.0	10.0	8.0	6.5	7.0	3.5	3.0	3.0
17	19.0	17.0	18.5	10.0	9.5	9.5	6.5	5.0	6.0	3.5	3.0	3.0
18	18.5	18.0	18.0	9.5	9.0	---	5.5	4.5	5.0	3.0	3.0	3.0
19	18.0	17.0	17.5	10.0	9.5	9.5	5.0	4.0	4.5	3.0	3.0	3.0
20	17.0	16.5	17.0	10.0	9.5	9.5	5.0	4.5	4.5	3.0	3.0	3.0
21	17.0	16.5	17.0	9.5	9.5	---	5.0	4.5	5.0	3.5	3.0	3.0
22	17.0	16.5	17.0	10.0	9.5	---	4.5	4.5	4.5	4.0	3.0	3.5
23	17.0	16.5	17.0	10.0	10.0	---	4.5	4.0	4.5	4.0	3.0	3.5
24	18.0	16.5	17.0	10.0	10.0	---	4.5	4.0	4.5	4.0	4.0	4.0
25	17.0	16.5	17.0	10.5	10.0	---	4.5	4.0	4.0	4.5	4.0	4.0
26	17.0	16.5	17.0	11.0	10.5	---	4.5	4.0	4.5	4.5	4.0	4.0
27	17.0	16.5	16.5	11.0	10.5	---	5.0	4.5	4.5	5.5	4.5	5.0
28	16.5	16.0	16.5	11.5	11.0	---	5.5	4.5	5.0	5.0	5.0	5.0
29	16.5	16.0	16.5	11.5	10.5	11.0	5.0	4.5	5.0	5.5	5.0	5.0
30	16.5	15.5	15.5	10.5	10.0	---	5.0	4.5	5.0	6.0	5.0	5.0
31	15.5	15.0	15.5	---	---	---	5.0	4.5	4.5	6.0	5.5	5.5
MONTH	---	---	---	15.5	9.0	---	10.5	4.0	7.0	6.0	3.0	4.0



## DELAWARE RIVER BASIN

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01412350 DELAWARE BAY AT SHIP JOHN SHOAL LIGHTHOUSE, N. J.--Continued

TEMPERATURE (°C) OF WATER, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

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

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



LOCATION.--Lat 41°06'24", long 74°57'09", Sussex County, on right bank at gaging station 1 mi (1.6 km) upstream from Flatbrookville, 1.5 (2.4 km) upstream from mouth.

DRAINAGE AREA.--65.1 mi<sup>2</sup> (169 km<sup>2</sup>).

PERIOD OF RECORD.--Chemical analyses: Water years 1963-72 (partial-record station), October 1972 to September 1974.

REMARKS.--Miscellaneous storm sediment samples collected during water years 1968, 69, 71-74.

## WATER QUALITY DATA, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DATE	TIME	INSTANTANEOUS DIS-CHARGE (CFS)	ELEV. OF LAND SURFACE DATUM (FT. ABOVE MSL)	TEMPER-ATURE (DEG C)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	PH (UNITS)	DIS-SOLVED OXYGEN (MG/L)	810-CHEM-ICAL OXYGEN DEMAND 5 DAY (MG/L)	TUR-BID-ITY (JTU)	COLOR (PLAT-INUM-COBALT UNITS)
DEC.										
04...	0930	44	348	3.5	143	7.6	14.2	.7	--	--
JAN.										
23...	1345	261	348	2.8	--	--	--	--	--	--
FEB.										
12...	1300	103	348	.9	150	7.4	14.8	.8	--	--
APR.										
05...	1115	435	348	11.0	--	--	--	--	--	--
09...	1315	520	348	5.0	--	--	--	--	--	--
18...	0845	233	348	9.4	123	8.2	10.8	.5	--	--
MAY										
21...	1330	109	348	16.8	131	9.2	10.6	.6	--	--
21...	1345	109	348	16.8	--	--	--	--	--	--
JUNE										
27...	1500	71	348	18.8	145	8.4	9.7	2.0	--	--
JULY										
17...	1200	20	348	20.2	229	10.1	9.6	.1	--	--
24...	1800	21	348	16.9	--	--	--	--	--	--
AUG.										
21...	1745	25	348	23.3	186	8.8	10.2	1.1	1	4
21...	1830	24	348	23.3	--	--	--	--	--	--
23...	1315	21	348	22.0	--	--	--	--	--	--
SEP.										
13...	1315	43	348	21.3	164	8.3	11.8	1.0	--	--
16...	1920	56	348	16.3	--	--	--	--	--	--
30...	1525	265	348	15.2	--	--	--	--	--	--

[illegible]

WATER QUALITY DATA, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

[illegible][illegible]

## DELAWARE RIVER BASIN

01440000 FLAT BROOK NEAR FLATBROOKVILLE, N. J.--Continued

## SUSPENDED-SEDIMENT DISCHARGE MEASUREMENTS, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DATE	TIME	TEMPER- ATURE (DEG C)	INSTAN- TANEOUS DIS- CHARGE (CFS)	SUS- PEN- DED SEDI- MENT (MG/L)	SUS- PEN- DED SEDI- MENT DIS- CHARGE (T/DAY)
JAN. 23...	1345	2.8	270	148	108
APR. 05...	1115	11.0	427	13	15
09...	1315	5.0	506	24	33
MAY 21...	1345	16.8	108	8	2.3
JUNE 27...	1500	18.8	67	9	1.6
JULY 24...	1800	16.9	22	4	.24
AUG. 21...	1830	23.3	25	3	.20
23...	1315	22.0	21	2	.11
SEP. 16...	1920	16.3	53	5	.72
30...	1525	15.2	270	9	6.6

01440090 DELAWARE RIVER NEAR EAST STROUDSBURG, PA. (NEAR DUNNFIELD, N. J.)

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

DRAINAGE AREA.--3,830 mi<sup>2</sup> (9,920 km<sup>2</sup>), approximately.

PERIOD OF RECORD.--Chemical analyses: October 1966 to September 1974.  
Water temperatures: October 1966 to September 1974.

## EXTREMES.--1973-74:

Specific conductance: Maximum, 99 micromhos Aug. 16; minimum, 54 micromhos Dec. 22.  
Dissolved oxygen: Maximum, 18.3 mg/l Mar. 30; minimum, 6.0 mg/l Aug. 24.  
Water temperatures: Maximum, 25°C Aug. 15; minimum, 0.5°C on many days during winter months.  
pH: Maximum, 8.7 Oct. 22; minimum, 6.0 Dec. 21-23.

## Period of record:

Specific conductance: Maximum, 222 micromhos Jan. 27, 1972; minimum, 44 micromhos Dec. 9, 1969.  
Dissolved oxygen: Maximum, 18.4 mg/l Feb. 28, 1973; minimum, 6.0 mg/l Sept. 22, 1967, Aug. 15, 1971 and Aug. 24, 1974.  
Water temperatures: Maximum, 29.0°C July 17, 18, 1968; minimum, freezing point on many days during winter months.  
pH: Maximum, 7.5 Mar. 2-5, 1973; minimum, 6.6 Jan. 29, 1973.

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

## WATER QUALITY DATA, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	TEMPERATURE (DEG C)	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)	DISSOLVED OXYGEN (MG/L)	BIOCHEMICAL OXYGEN DEMAND 5 DAY (MG/L)	TURBIDITY (JTU)	TOTAL NITRITE (N) (MG/L)	DISSOLVED NITRATE (N) (MG/L)	TOTAL NITRATE (N) (MG/L)
JAN.											
30...	1240	23500	2.5	70	6.6	13.7	.8	7	--	--	.50
FEB.											
13...	1320	6320	1.0	85	7.1	14.5	--	2	--	--	.50
20...	1215	6480	3.0	85	--	14.5	--	2	--	--	.50
MAR.											
06...	1445	11800	5.5	58	6.8	12.7	--	3	.01	--	.41
27...	1245	12200	4.5	55	6.4	13.6	.6	--	--	--	.20
APR.											
10...	1455	20600	11.5	80	6.6	12.3	1.4	3	--	.00	.33
24...	1530	--	11.5	64	7.3	10.6	1.5	2	--	--	--
30...	1350	4320	--	67	--	--	--	2	--	--	--
MAY											
15...	1330	17600	14.5	60	7.0	10.2	1.0	6	--	--	--
29...	1415	3830	16.0	90	7.7	9.0	1.0	3	--	--	--
JUNE											
05...	1500	6240	20.0	78	7.1	9.0	.8	3	--	--	--
19...	1200	6860	21.0	80	--	8.4	1.6	4	--	--	--
JULY											
02...	1700	2720	23.0	95	--	8.2	1.0	2	--	--	--
08...	1400	2720	26.5	85	--	7.4	1.2	2	--	--	--
23...	1530	2090	23.5	85	7.8	8.9	1.2	2	--	--	--
AUG.											
06...	1430	3620	23.3	85	7.3	8.2	.2	2	--	--	--
14...	1445	1930	24.5	95	8.5	8.6	1.8	2	--	--	--
28...	1320	2120	23.5	85	7.4	8.0	1.0	1	--	--	--
SEP.											
11...	1430	5930	19.0	79	6.4	8.8	5.0	3	--	--	--
18...	1240	3110	19.0	90	--	9.3	1.2	1	--	--	--

DATE	TOTAL KJEL-DAHL NITROGEN (N) (MG/L)	AMMONIA NITROGEN (N) (MG/L)	TOTAL ORGANIC NITROGEN (N) (MG/L)	TOTAL NITROGEN (N) (MG/L)	TOTAL PHOSPHORUS (P) (MG/L)	TOTAL ORTHO PHOSPHORUS (P) (MG/L)	TOTAL ORGANIC CARBON (C) (MG/L)	FECAL COLIFORM (COL. PER 100 ML)	STREPTOCOCCI (COL. PER 100 ML)	ALKALINITY AS CaCO3 (MG/L)	CARBONATE (CO3) (MG/L)
JAN.											
30...	.40	.13	.27	.90	.06	.01	4.0	200	180	--	--
FEB.											
13...	.39	.10	.29	.89	.01	--	.0	--	300	--	--
20...	1.0	.10	.93	1.5	.02	--	1.0	50	1000	--	--
MAR.											
06...	.01	.06	--	.43	.71	--	1.5	--	--	10	0
27...	.43	.19	.24	.63	.02	--	4.0	0	7	--	--
APR.											
10...	.11	.08	.03	.44	.01	--	3.0	E6	--	--	--
24...	.19	.08	.11	.49	.02	--	6.0	13	--	--	--
30...	.25	.11	.14	.50	.01	--	8.0	--	--	--	--
MAY											
15...	.69	.18	.51	.97	.04	--	4.0	76	13	--	--
29...	.15	.03	.12	.39	.02	--	2.4	8	16	--	--
JUNE											
05...	.11	.01	.10	.31	.03	--	3.2	22	14	13	0
19...	.43	.06	.37	.70	.05	--	3.4	--	100	--	--
JULY											
02...	.24	.10	.14	.35	.03	--	2.2	E42	--	--	--
08...	.38	.11	.27	.44	.03	--	7.0	E820	--	--	--
23...	.30	.13	.17	.43	.05	--	1.9	--	--	--	--
AUG.											
06...	.36	.22	.14	.52	.04	--	3.7	--	--	--	--
14...	.27	.19	.08	.29	.03	--	2.5	210	1200	--	--
28...	.19	.12	.07	.42	.02	--	--	E60	E13	--	--
SEP.											
11...	.15	.11	.04	.28	.03	--	5.1	--	--	--	--
18...	.16	.09	.07	.22	.01	--	3.9	570	E64	--	--

WATER QUALITY DATA, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

[illegible]

## DELAWARE RIVER BASIN

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01440090 DELAWARE RIVER NEAR EAST STROUDSBURG, PA. (NEAR DUNNFIELD, N. J.)--Continued

SPECIFIC CONDUCTANCE (MICROMHOS AT 25°C), WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCTOBER			NOVEMBER			DECEMBER			JANUARY		
	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	---	---	---	89	70	80	75	72	74	75	73	74
2	---	---	---	77	70	73	72	70	71	76	74	75
3	---	---	---	80	72	77	71	69	70	78	75	77
4	---	---	---	81	77	79	72	70	71	80	78	79
5	---	---	---	83	72	78	72	70	71	84	79	81
6	---	---	---	86	71	81	71	68	70	85	80	82
7	---	---	---	86	78	82	72	67	69	84	82	83
8	---	---	---	85	81	83	70	64	67	84	84	84
9	---	---	---	85	81	82	64	62	63	86	84	85
10	---	---	---	81	80	81	64	60	62	88	85	86
11	---	---	---	81	80	80	61	58	59	85	82	84
12	---	---	---	81	80	81	59	57	58	84	83	84
13	---	---	---	81	70	78	61	58	60	93	84	86
14	---	---	---	77	70	74	63	60	62	91	87	89
15	---	---	---	77	70	73	63	61	62	91	85	89
16	---	---	---	76	69	73	64	62	63	85	81	83
17	---	---	---	75	69	72	63	62	62	93	81	87
18	---	---	---	76	68	72	65	62	64	93	89	91
19	87	87	---	79	69	74	68	65	67	94	90	92
20	87	84	86	77	71	74	69	67	68	94	91	92
21	86	84	85	76	71	74	67	58	63	93	89	91
22	86	85	86	82	75	77	59	54	56	92	87	90
23	86	79	85	86	71	77	64	57	61	89	85	87
24	86	82	84	78	72	75	67	64	66	87	85	86
25	83	82	83	82	71	78	70	67	69	86	84	85
26	83	82	83	88	76	81	72	70	71	83	82	83
27	85	83	84	87	77	80	74	71	72	84	81	83
28	85	85	85	81	79	80	71	63	67	82	77	79
29	85	80	84	80	75	77	66	63	65	76	72	74
30	84	75	79	76	74	75	72	65	68	73	71	72
31	87	68	77	---	---	---	72	67	69	73	71	72
MONTH	---	---	---	89	68	77	75	54	66	94	71	83

DAY	FEBRUARY			MARCH			APRIL			MAY		
	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	74	72	73	82	80	81	82	80	81	93	90	92
2	75	73	74	83	81	82	82	80	81	91	86	88
3	77	75	75	82	81	82	82	77	79	90	86	88
4	78	76	77	85	82	83	80	75	78	89	88	88
5	81	78	79	85	83	84	75	72	73	87	85	86
6	87	82	84	85	80	82	72	69	70	87	85	86
7	90	82	85	81	74	78	74	69	72	87	85	86
8	87	82	84	75	73	74	77	74	75	85	80	82
9	87	84	85	75	73	74	78	76	77	82	79	81
10	86	85	85	77	74	75	78	71	75	82	79	81
11	86	85	85	77	75	76	75	71	73	80	78	79
12	87	85	86	80	77	79	77	74	75	81	79	80
13	87	85	86	80	77	79	78	76	77	79	67	74
14	87	85	86	80	78	79	76	74	75	65	61	64
15	86	85	85	80	80	80	75	70	73	67	62	64
16	87	86	87	83	80	81	72	69	71	72	67	69
17	89	87	88	82	77	80	72	68	69	75	72	74
18	90	88	89	80	77	79	74	69	71	79	74	77
19	91	89	90	80	77	78	76	73	75	80	78	79
20	91	88	90	79	77	78	77	75	76	84	79	81
21	90	86	88	81	78	80	79	77	78	83	80	82
22	89	86	88	80	76	79	82	78	80	83	81	82
23	86	77	81	79	76	77	84	81	82	84	82	83
24	79	75	76	80	77	79	84	81	83	87	83	85
25	75	72	73	78	76	77	84	82	83	87	84	86
26	76	73	75	79	76	77	86	83	84	89	86	88
27	79	75	77	79	76	78	87	85	86	90	88	89
28	81	78	79	80	77	78	89	86	87	91	90	91
29	---	---	---	79	78	79	91	88	89	93	90	91
30	---	---	---	80	77	78	92	90	91	92	90	91
31	---	---	---	82	79	81	---	---	---	91	89	90
MONTH	91	72	83	85	73	79	92	68	78	93	61	82

## DELAWARE RIVER BASIN

01440090 DELAWARE RIVER NEAR EAST STROUDSBURG, PA. (NEAR DUNNFIELD, N. J.)--Continued

SPECIFIC CONDUCTANCE (MICROMHOS AT 25°C), WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	JUNE			JULY			AUGUST			SEPTEMBER		
	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	91	89	90	---	---	---	---	---	---	82	67	74
2	---	---	---	---	---	---	---	---	---	74	68	70
3	---	---	---	---	---	---	---	---	---	74	65	68
4	---	---	---	---	---	---	---	---	---	69	66	68
5	---	---	---	---	---	---	---	---	---	70	68	69
6	---	---	---	---	---	---	---	---	---	70	64	67
7	---	---	---	---	---	---	---	---	---	69	66	67
8	---	---	---	---	---	---	---	---	---	69	67	68
9	---	---	---	---	---	---	---	---	---	70	68	69
10	---	---	---	---	---	---	---	---	---	72	70	70
11	---	---	---	---	---	---	---	---	---	72	57	66
12	---	---	---	---	---	---	---	---	---	62	56	59
13	---	---	---	---	---	---	---	---	---	64	56	60
14	---	---	---	---	---	---	---	---	---	---	---	---
15	---	---	---	---	---	---	---	---	---	---	---	---
16	---	---	---	---	---	---	99	95	---	---	---	---
17	---	---	---	---	---	---	95	90	93	---	---	---
18	---	---	---	---	---	---	92	86	89	---	---	---
19	---	---	---	---	---	---	85	77	83	---	---	---
20	---	---	---	---	---	---	76	73	75	---	---	---
21	---	---	---	---	---	---	78	75	76	---	---	---
22	---	---	---	---	---	---	79	77	78	---	---	---
23	---	---	---	---	---	---	80	78	79	---	---	---
24	---	---	---	---	---	---	81	79	81	---	---	---
25	---	---	---	---	---	---	83	81	82	---	---	---
26	---	---	---	---	---	---	85	82	83	---	---	---
27	---	---	---	---	---	---	89	84	86	---	---	---
28	---	---	---	---	---	---	89	83	86	---	---	---
29	---	---	---	---	---	---	85	76	84	---	---	---
30	---	---	---	---	---	---	81	78	79	---	---	---
31	---	---	---	---	---	---	81	77	78	---	---	---
MONTH	---	---	---	---	---	---	---	---	---	---	---	---

DISSOLVED OXYGEN (DO), IN MILLIGRAMS PER LITER, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCTOBER			NOVEMBER			DECEMBER			JANUARY		
	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	---	---	---	12.4	11.8	12.1	13.5	13.1	---	9.9	9.4	9.7
2	---	---	---	12.8	12.2	12.5	---	---	---	11.0	9.6	10.4
3	---	---	---	13.1	12.2	12.7	---	---	---	11.6	10.7	11.2
4	10.9	10.4	---	---	---	---	---	---	---	12.4	11.4	11.7
5	11.3	10.3	10.9	---	---	---	14.0	12.4	---	14.1	11.7	13.2
6	11.9	11.2	11.5	---	---	---	12.3	11.8	12.0	13.9	12.6	13.2
7	12.6	11.6	12.0	---	---	---	12.5	11.9	12.1	12.7	11.6	12.1
8	12.4	11.3	11.9	---	---	---	14.0	12.3	13.2	14.3	12.2	13.4
9	11.9	10.5	11.1	13.3	13.2	---	14.9	14.1	14.6	14.7	13.6	14.1
10	11.1	10.5	10.8	14.7	13.3	14.0	14.6	10.7	13.3	14.6	13.5	---
11	11.2	10.6	---	15.9	15.0	15.4	11.0	10.1	10.4	---	---	---
12	---	---	---	16.4	15.4	16.1	11.4	10.3	10.8	---	---	---
13	---	---	---	16.0	13.0	14.7	12.6	11.2	12.0	---	---	---
14	---	---	---	12.9	11.0	12.0	12.4	10.8	11.7	---	---	---
15	---	---	---	11.0	9.6	10.6	12.1	11.1	11.5	---	---	---
16	---	---	---	9.8	9.4	9.6	---	---	---	---	---	---
17	---	---	---	11.0	9.7	10.4	12.8	11.8	---	---	---	---
18	---	---	---	12.5	10.9	11.9	---	---	---	---	---	---
19	12.5	12.1	---	13.0	12.3	12.6	---	---	---	---	---	---
20	12.4	11.6	12.0	13.3	12.6	13.0	---	---	---	---	---	---
21	12.8	11.8	12.2	14.3	13.1	13.7	16.5	14.5	---	---	---	---
22	12.6	12.0	12.3	13.8	13.0	13.5	16.3	13.9	15.3	---	---	---
23	12.7	12.0	12.3	13.5	12.9	13.3	14.1	12.4	13.4	---	---	---
24	12.3	11.5	12.0	13.1	12.1	12.7	13.5	12.5	13.0	---	---	---
25	12.1	11.1	11.6	12.2	11.3	11.9	15.1	13.2	14.6	---	---	---
26	12.1	10.7	11.3	12.2	11.3	11.7	14.7	11.7	13.2	---	---	---
27	12.1	10.6	11.4	12.2	11.6	11.9	11.3	10.1	10.7	---	---	---
28	13.0	11.4	12.0	11.9	11.2	11.6	10.3	8.8	9.6	---	---	---
29	12.9	11.6	12.1	12.0	11.2	11.5	9.6	9.0	9.2	---	---	---
30	12.6	11.7	12.1	13.2	12.0	12.6	9.1	8.3	8.8	---	---	---
31	12.6	12.0	12.2	---	---	---	9.8	9.0	9.4	---	---	---
MONTH	---	---	---	16.4	9.4	12.6	---	---	---	---	---	---



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DISSOLVED OXYGEN (DO), IN MILLIGRAMS PER LITER, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

[illegible]

## DELAWARE RIVER BASIN

01440090 DELAWARE RIVER NEAR EAST STROUDSBURG, PA. (NEAR DUNNFIELD, N. J.)--Continued

TEMPERATURE (°C), OF WATER, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCTOBER			NOVEMBER			DECEMBER			JANUARY		
	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	---	---	---	11.0	10.0	10.5	6.5	6.0	6.5	3.0	3.0	3.0
2	---	---	---	10.5	9.5	10.0	6.0	5.0	5.5	3.0	2.0	2.0
3	---	---	---	10.5	10.0	10.0	5.0	4.5	4.5	2.0	1.5	2.0
4	19.0	18.5	---	9.5	8.5	9.0	5.0	4.0	4.5	2.0	1.5	1.5
5	19.5	18.0	18.5	8.5	8.0	8.5	7.0	5.0	6.0	1.5	1.0	1.0
6	18.5	17.0	17.5	8.0	6.0	6.5	8.0	7.0	7.0	1.0	1.0	1.0
7	17.0	16.0	16.5	6.5	5.5	6.0	7.0	6.5	6.5	1.5	1.0	1.5
8	18.0	16.0	16.5	5.5	5.0	5.5	6.5	5.5	6.0	1.5	0.5	1.0
9	17.0	16.0	16.5	5.5	4.5	5.0	5.5	5.0	5.0	1.0	0.5	0.5
10	18.0	16.0	16.5	4.5	4.0	4.5	5.5	5.0	5.0	1.0	0.5	0.5
11	16.5	16.0	---	4.5	3.5	4.0	5.0	5.0	5.0	1.0	0.5	0.5
12	---	---	---	4.0	3.5	3.5	5.0	4.0	4.5	1.0	0.5	0.5
13	---	---	---	5.0	3.5	4.5	4.0	3.5	3.5	1.0	0.5	1.0
14	---	---	---	7.0	5.0	6.0	4.0	3.5	4.0	1.0	0.5	0.5
15	---	---	---	9.0	7.0	8.0	4.0	3.5	4.0	0.5	0.5	0.5
16	---	---	---	9.5	9.0	9.0	3.5	0.5	3.0	1.0	0.5	0.5
17	---	---	---	9.0	7.0	8.5	2.0	0.5	1.0	1.0	0.5	0.5
18	---	---	---	7.0	6.0	6.5	1.0	0.5	0.5	1.0	1.0	1.0
19	11.5	10.5	---	6.5	6.0	6.0	1.0	0.5	0.5	1.0	0.5	0.5
20	11.5	10.5	11.0	6.5	6.0	6.0	1.0	0.5	0.5	1.0	0.5	0.5
21	11.5	10.5	11.0	6.5	5.5	6.0	1.5	0.5	1.0	1.0	0.5	0.5
22	12.0	10.5	11.0	8.0	6.0	6.5	1.0	0.5	1.0	1.0	0.5	1.0
23	11.5	10.5	11.0	8.0	6.5	7.0	1.5	1.0	1.0	1.5	1.0	1.0
24	12.0	11.0	11.5	8.0	7.0	7.5	1.5	1.0	1.5	1.5	1.0	1.0
25	13.0	11.5	12.0	8.5	8.0	8.0	1.0	1.0	1.0	2.0	1.5	1.5
26	13.5	12.0	12.5	8.5	8.0	8.5	2.0	1.0	1.5	2.0	1.5	1.5
27	13.5	12.0	12.5	8.5	8.0	8.0	3.0	0.5	2.5	4.0	2.0	3.0
28	11.5	11.0	11.5	8.5	8.0	8.0	3.5	0.5	3.5	4.0	2.0	3.0
29	11.0	10.5	10.5	8.5	8.0	8.5	3.5	3.5	3.5	3.5	2.0	3.0
30	10.5	10.0	10.0	8.0	6.5	7.0	4.0	3.5	3.5	4.0	3.0	3.5
31	11.0	10.0	10.0	---	---	---	3.5	3.0	3.0	4.0	3.5	3.5
MONTH	---	---	---	11.0	3.5	7.0	8.0	0.5	3.5	4.0	0.5	1.5

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

## DELAWARE RIVER BASIN

223

01440090 DELAWARE RIVER NEAR EAST STROUDSBURG, PA. (NEAR DUNNFIELD, N. J.)--Continued

TEMPERATURE (°C), OF WATER, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

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

pH (UNITS), WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCTOBER			NOVEMBER			DECEMBER			JANUARY		
	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	---	---	---	7.1	6.9	7.1	6.9	6.8	6.9	6.4	6.4	6.4
2	---	---	---	7.2	6.9	7.0	7.0	6.8	6.9	6.5	6.4	6.4
3	---	---	---	7.3	7.0	7.1	7.0	6.8	6.9	6.5	6.5	6.5
4	7.8	6.6	---	7.4	7.1	7.2	7.1	6.8	6.9	6.6	6.5	6.5
5	7.8	6.5	7.1	7.5	7.1	7.3	7.3	6.8	7.1	6.7	6.5	6.6
6	7.6	6.9	7.2	7.6	7.1	7.3	7.3	7.1	7.2	6.6	6.6	6.6
7	7.9	6.8	7.2	7.9	7.2	7.4	7.2	7.1	7.1	6.6	6.6	6.6
8	8.3	6.8	7.5	7.8	7.2	7.4	7.1	7.1	7.1	6.7	6.6	6.7
9	7.9	6.8	7.3	7.8	7.3	7.5	7.1	7.0	7.1	6.7	6.6	6.7
10	8.0	7.0	7.3	7.8	7.3	7.5	7.1	6.9	7.0	6.8	6.6	6.7
11	7.4	7.0	---	8.2	7.3	7.6	6.9	6.9	6.9	6.6	6.6	6.6
12	---	---	---	7.8	7.2	7.5	7.0	6.9	7.0	6.6	6.6	6.6
13	---	---	---	7.6	7.1	7.4	7.0	7.0	7.0	6.8	6.6	6.7
14	---	---	---	7.6	7.1	7.3	7.0	6.9	7.0	6.7	6.6	6.7
15	---	---	---	7.8	7.1	7.3	6.9	6.8	6.9	6.7	6.6	6.7
16	---	---	---	7.4	7.1	7.2	6.9	6.8	6.9	6.7	6.6	6.7
17	---	---	---	7.9	7.1	7.3	6.8	6.7	6.8	6.8	6.7	6.7
18	---	---	---	7.8	7.2	7.4	6.7	6.6	6.7	6.8	6.7	6.7
19	8.2	7.5	---	7.9	7.2	7.4	6.6	6.5	6.6	6.7	6.7	6.7
20	8.3	7.3	7.7	8.0	7.2	7.5	6.5	6.4	6.5	6.7	6.7	6.7
21	8.4	7.3	7.8	7.5	7.0	7.3	6.4	6.0	6.3	6.7	6.7	6.7
22	8.7	7.6	8.1	7.8	7.0	7.3	6.6	6.0	6.2	6.7	6.7	6.7
23	8.6	7.7	8.1	8.2	6.9	7.4	6.3	6.0	6.1	6.7	6.7	6.7
24	8.6	7.8	8.1	7.9	7.0	7.3	6.3	6.1	6.2	6.7	6.6	6.7
25	8.4	7.4	7.9	7.2	6.9	7.1	6.4	6.2	6.2	6.6	6.6	6.6
26	8.6	7.3	7.8	7.3	6.9	7.0	6.3	6.2	6.3	6.6	6.6	6.6
27	8.5	7.3	7.8	7.1	6.8	6.9	6.4	6.2	6.3	6.7	6.6	6.6
28	8.5	7.4	7.9	6.9	6.8	6.8	6.4	6.2	6.3	6.7	6.6	6.6
29	7.6	7.3	7.5	6.8	6.7	6.8	6.3	6.3	6.3	6.6	6.5	6.5
30	7.3	7.0	7.1	6.9	6.7	6.8	6.4	6.2	6.3	6.5	6.4	6.5
31	7.2	7.0	7.1	---	---	---	6.4	6.3	6.4	6.5	6.4	6.5
MONTH	---	---	---	8.2	6.7	7.2	7.3	6.0	6.7	6.8	6.4	6.6

pH (UNITS), WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	JUNE			JULY			AUGUST			SEPTEMBER		
	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	7.4	7.0	7.2	---	---	---	---	---	---	7.2	6.7	7.0
2	---	---	---	---	---	---	---	---	---	6.9	6.7	6.8
3	---	---	---	---	---	---	---	---	---	6.7	6.5	6.6
4	---	---	---	---	---	---	---	---	---	6.7	6.6	6.6
5	---	---	---	---	---	---	---	---	---	6.8	6.6	6.7
6	---	---	---	---	---	---	---	---	---	---	---	---
7	---	---	---	---	---	---	---	---	---	6.8	6.2	6.4
8	---	---	---	---	---	---	---	---	---	6.4	6.2	6.3
9	---	---	---	---	---	---	---	---	---	6.4	6.2	6.3
10	---	---	---	---	---	---	---	---	---	6.4	6.2	6.3
11	---	---	---	---	---	---	---	---	---	---	---	---
12	---	---	---	---	---	---	---	---	---	6.6	6.2	6.4
13	---	---	---	---	---	---	---	---	---	6.7	6.1	6.4
14	---	---	---	---	---	---	---	---	---	6.8	6.1	6.4
15	---	---	---	---	---	---	8.3	7.7	---	---	---	---
16	---	---	---	---	---	---	8.4	7.3	7.9	---	---	---
17	---	---	---	---	---	---	8.1	7.2	7.7	---	---	---
18	---	---	---	---	---	---	7.6	6.9	7.1	---	---	---
19	---	---	---	---	---	---	7.3	6.7	7.0	---	---	---
20	---	---	---	---	---	---	7.5	6.7	7.0	---	---	---
21	---	---	---	---	---	---	7.7	6.6	7.1	---	---	---
22	---	---	---	---	---	---	8.3	7.3	7.8	---	---	---
23	---	---	---	---	---	---	7.6	7.0	7.3	---	---	---
24	---	---	---	---	---	---	7.7	6.8	7.1	---	---	---
25	---	---	---	---	---	---	7.6	6.7	7.1	---	---	---
26	---	---	---	---	---	---	7.9	6.7	7.2	---	---	---
27	---	---	---	---	---	---	---	---	---	---	---	---
28	---	---	---	---	---	---	7.4	6.9	7.1	---	---	---
29	---	---	---	---	---	---	7.7	7.0	7.3	---	---	---
30	---	---	---	---	---	---	7.9	7.0	7.4	---	---	---
31	---	---	---	---	---	---	8.0	7.0	7.3	---	---	---
MONTH	---	---	---	---	---	---	7.2	7.0	7.1	---	---	---
	---	---	---	---	---	---	7.2	6.9	7.0	---	---	---

## DELAWARE RIVER BASIN

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01442750 DELAWARE RIVER AT DUNNFIELD, N. J. (DELAWARE WATER GAP, PA.)

LOCATION.--Lat 41°58'40", long 75°08'10", Warren County, at bridge on Interstate Highway 80, 4.0 mi (6.4 km) downstream from gaging station, in Dunnfield.

DRAINAGE AREA.--4,150 mi<sup>2</sup> (10,749 km<sup>2</sup>), approximately.

PERIOD OF RECORD.--Chemical analyses: Water years 1965-74 (partial-record station).

Water temperatures: October 1966 to September 1974.

Sediment records: July 1964 to September 1974.

## EXTREMES.--1973-74:

Water temperatures: Maximum daily, 26.0°C on several days during August; minimum daily, freezing point on several days during January.

Sediment concentrations: Maximum daily, 169 mg/l Dec. 22; minimum daily, 1 mg/l on many days.

Sediment discharge: Maximum daily, 32,000 tons Dec. 22; minimum daily, 4.2 tons Nov. 23.

## Period of record:

Water temperatures: Maximum daily, 28.0°C July 28, 1968; minimum daily, freezing point on many days during winter months.

Sediment concentrations: Maximum daily, 640 mg/l June 30, 1973; minimum daily, less than 0.5 mg/l on many days.

Sediment discharge: Maximum daily, 165,000 tons June 30, 1973; minimum daily, less than 0.05 tons on many days.

REMARKS.--Records of discharge are given for 01440200 Delaware River below Tocks Island damsite, near Delaware Water Gap, Pa. No suspended-sediment concentration data available for the period of Oct. 11 to Dec. 28, 1973. Daily mean concentration was estimated for this period by use of a suspended-sediment transport curve. Estimated data rated fair-poor. Sediment records published for 1964 water year given for 01440200.

## WATER QUALITY DATA, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	TEMPERATURE (DEG C)	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)	DISSOLVED OXYGEN (MG/L)	BIOCHEMICAL OXYGEN DEMAND 5 DAY (MG/L)	TURBIDITY (JTU)	COLOR (PLATINUM-COBALT UNITS)	TOTAL NITRITE (N) (MG/L)	TOTAL NITRATE (N) (MG/L)	TOTAL KjELDAHL NITROGEN (N) (MG/L)
DEC. 04...	1030	--	4.0	66	6.7	13.4	1.1	--	--	.00	.29	.11
DEC. 22...	1510	70470	2.0	--	--	--	--	--	--	--	--	--
FEB. 12...	1400	--	.1	65	7.1	14.8	.3	--	--	.00	.39	.15
APR. 18...	0945	--	8.9	55	7.0	11.4	.5	--	--	--	--	--
MAY 21...	1430	--	18.3	68	8.0	10.1	1.3	--	--	.01	.20	.19
JUNE 27...	1415	--	--	76	8.2	10.0	1.6	--	--	--	--	--
JULY 17...	1115	--	24.4	94	9.6	9.2	1.0	--	--	--	--	--
AUG. 21...	1700	--	26.5	71	8.9	11.6	2.4	2	4	--	--	--
SEP. 13...	1230	--	22.5	67	8.3	10.4	1.0	--	--	--	--	--

DATE	AMMONIA NITROGEN (N) (MG/L)	ORGANIC NITROGEN (N) (MG/L)	TOTAL NITROGEN (N) (MG/L)	TOTAL PHOSPHORUS (P) (MG/L)	TOTAL ORTHO PHOSPHORUS (P) (MG/L)	DISSOLVED ORTHO PHOSPHORUS (P) (MG/L)	TOTAL ORGANIC CARBON (C) (MG/L)	IMMEDIATE COLIFORMS (COL. PER 100 ML)	FECAL COLIFORMS (COL. PER 100 ML)	STREPTOCOCCI (COLONIES PER 100 ML)	ALKALINITY AS CaCO3 (MG/L)
DEC. 04...	.03	.08	.41	.01	.00	.00	--	0	5	1	--
DEC. 22...	--	--	--	--	--	--	--	--	--	--	--
FEB. 12...	.05	.10	.54	.01	.01	.01	2.0	2	0	2	--
APR. 18...	--	--	--	--	--	--	--	60	40	14	--
MAY 21...	.04	.15	.40	.04	.02	--	--	0	50	6	--
JUNE 27...	--	--	--	--	--	--	--	0	170	200	--
JULY 17...	--	--	--	--	--	--	--	10	92	28	--
AUG. 21...	--	--	--	--	--	--	4.0	24	16	472	14
SEP. 13...	--	--	--	--	--	--	--	24	--	32	--

WATER QUALITY DATA, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

[illegible]

TEMPERATURE (°C) OF WATER, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974  
(ONCE DAILY MEASUREMENT BETWEEN 0800 AND 1000)

[illegible]

## DELAWARE RIVER BASIN

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01442750 DELAWARE AT DUNNFIELD, N. J. (DELAWARE WATER GAP)--Continued

SUSPENDED-SEDIMENT DISCHARGE MEASUREMENTS, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DATE	TIME	TEMPER- ATURE (DEG C)	INSTAN- TANEOUS DIS- CHARGE (CFS)	SUS- PENDED SEDI- MENT DIS- CHARGE (MG/L)	SUS- PENDED SEDI- MENT DIS- CHARGE (T/DAY)	SUS. SED. FALL DIAM. % FINER THAN .004 MM	SUS. SED. FALL DIAM. % FINER THAN .008 MM	SUS. SED. FALL DIAM. % FINER THAN .016 MM	SUS. SED. FALL DIAM. % FINER THAN .031 MM	SUS. SED. FALL DIAM. % FINER THAN .062 MM	SUS. SED. FALL DIAM. % FINER THAN .125 MM
DEC. 22...	1510	2.0	70470	169	32200	38	54	69	82	91	100



## DELAWARE RIVER BASIN

01442750 DELAWARE AT DUNNFIELD, N. J. (DELAWARE WATER GAP)--Continued

## SUSPENDED-SEDIMENT DISCHARGE, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCTOBER			NOVEMBER			DECEMBER		
	MEAN DISCHARGE (CFS)	MEAN CONCENTRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCENTRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCENTRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)
1	2000	1	5.4	4130	13	145	6210	14	235
2	2000	1	5.4	3590	8	78	5160	11	153
3	2300	1	6.2	3080	2	17	4560	9	111
4	2300	1	6.2	2780	2	15	4220	5	57
5	3000	3	24	2600	2	14	4190	3	34
6	3700	35	350	2180	1	5.9	7500	10	203
7	2600	13	91	1930	1	5.2	12600	27	919
8	1900	5	26	2300	1	6.2	10100	21	573
9	2600	4	28	2450	1	6.6	8980	12	291
10	2800	3	23	2690	2	15	19900	25	1340
11	2480	2	13	2600	1	7.0	21800	26	1530
12	1850	1	5.0	2690	2	15	14900	15	603
13	2000	1	5.4	2790	2	15	11700	9	284
14	2700	2	15	2960	2	16	11100	7	210
15	2400	2	13	2990	1	8.1	11700	6	190
16	2200	2	12	2870	2	15	10300	5	139
17	2200	1	5.9	2960	1	8.0	8940	5	121
18	2200	1	5.9	3080	2	17	8140	5	110
19	2300	1	6.2	3020	2	16	7020	4	76
20	2150	1	5.8	2960	1	8.0	7100	4	77
21	2210	1	6.0	2810	1	7.6	29900	34	2740
22	2180	1	5.9	2240	1	6.0	71700	169	32700
23	2570	2	14	1560	1	4.2	36500	22	2170
24	2630	3	21	1600	1	4.3	23800	19	1220
25	2750	2	15	2420	3	20	16600	16	717
26	2210	1	6.0	3080	2	17	13600	22	808
27	2120	1	5.7	4460	5	60	21200	46	2630
28	2150	1	5.8	4560	6	74	36800	24	2380
29	2270	3	18	6860	13	241	31200	17	1430
30	4950	27	361	7460	16	322	23000	10	621
31	5300	29	415	--	--	--	18200	6	295
TOTAL	79020	--	1525.8	93700	--	1189.1	518620	--	54967

DAY	JANUARY			FEBRUARY			MARCH		
	MEAN DISCHARGE (CFS)	MEAN CONCENTRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCENTRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCENTRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)
1	15300	4	165	16700	6	271	9110	7	172
2	13900	3	113	14600	2	79	8470	5	114
3	12500	1	34	12700	1	34	8200	6	133
4	11500	1	31	11000	2	59	7520	11	223
5	10000	1	27	10000	3	81	8100	10	219
6	8660	1	23	9340	3	76	10900	8	235
7	7820	1	21	8950	6	145	14200	19	728
8	7950	2	43	8000	9	194	13100	13	460
9	7330	2	40	7400	6	120	13300	10	359
10	6690	3	54	7000	5	95	13900	7	263
11	8000	2	43	6640	3	54	12400	6	201
12	8000	4	86	6300	5	85	11800	5	159
13	7000	3	57	6210	3	50	10100	11	300
14	5700	1	15	5940	3	48	9330	15	378
15	5600	1	15	5600	3	45	8110	17	372
16	6000	2	32	5440	5	73	7880	18	383
17	6400	1	17	5200	6	84	9400	11	279
18	6000	1	16	4900	4	53	13900	9	338
19	5800	1	16	4970	11	148	12500	7	236
20	5600	1	15	6010	9	146	11400	5	154
21	5810	1	16	6320	8	137	10500	6	170
22	8640	5	117	5880	9	143	13800	7	261
23	11800	11	350	12300	21	697	17600	10	475
24	12300	17	565	21500	68	3950	14600	8	315
25	11600	5	157	15500	41	1720	13200	6	214
26	10800	3	87	13700	27	999	13200	5	178
27	9630	3	78	11500	18	559	12000	5	162
28	19500	31	1630	9370	11	278	10900	5	147
29	24600	39	2590	--	--	--	9850	6	160
30	23900	24	1550	--	--	--	9610	3	78
31	19300	12	625	--	--	--	9340	2	50
TOTAL	323630	--	8628	258970	--	10423	348220	--	7916

01442750 DELAWARE AT DUNNFIELD, N. J. (DELAWARE WATER GAP)--Continued

## SUSPENDED-SEDIMENT DISCHARGE, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	APRIL			MAY			JUNE		
	MEAN DISCHARGE (CFS)	MEAN CONCEN- TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN- TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN- TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)
1	10800	2	58	4920	6	80	4360	4	47
2	13200	28	998	5940	7	112	7570	11	225
3	15200	23	944	6440	6	104	7430	8	160
4	17900	19	918	6220	7	118	5610	7	106
5	22500	16	972	6450	5	87	5330	5	72
6	26800	18	1300	5840	6	95	5540	4	60
7	27500	18	1340	5940	5	80	5210	4	56
8	22300	12	723	6580	4	71	4400	5	59
9	19200	11	570	6210	2	34	3530	6	57
10	20800	11	618	6000	2	32	3290	7	62
11	17600	9	428	6640	3	54	3580	8	77
12	16200	7	306	6690	6	108	3700	10	100
13	15600	6	253	17700	23	1100	3000	9	73
14	15900	7	301	25600	56	3870	2470	8	53
15	19300	10	521	18300	28	1380	1890	7	36
16	24700	41	2730	14600	18	710	2680	9	65
17	20600	9	501	12200	12	395	4930	15	200
18	16800	8	363	11200	9	272	6800	22	404
19	14700	8	318	8960	8	194	5400	7	102
20	13500	6	219	7780	7	147	3400	6	55
21	11100	7	210	7150	5	97	3200	5	43
22	9840	7	186	6130	4	66	3000	5	41
23	8760	7	166	6460	5	87	3700	6	60
24	7920	6	128	6050	5	82	3500	4	38
25	7480	6	121	5860	5	79	3100	2	17
26	6740	5	91	5080	4	55	3000	3	24
27	6250	6	101	4500	4	49	3100	4	33
28	5800	5	78	4270	3	35	3700	12	120
29	5360	5	72	3700	3	30	4000	7	76
30	4720	5	64	3770	2	20	2800	5	38
31	--	--	--	4330	1	12	--	--	--
TOTAL	445070	--	15598	247510	--	9655	123220	--	2559

DAY	JULY			AUGUST			SEPTEMBER		
	MEAN DISCHARGE (CFS)	MEAN CONCEN- TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN- TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN- TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)
1	3100	2	17	5100	9	124	4200	2	23
2	4100	9	100	3700	7	70	7500	19	385
3	3500	5	47	3400	6	55	10000	30	810
4	3600	4	39	2900	11	86	12600	33	1120
5	3300	4	36	2800	11	83	12000	30	972
6	3300	3	27	2600	9	63	8400	25	567
7	2500	2	14	2300	5	31	7800	21	442
8	2300	1	6.2	2000	5	27	7700	15	312
9	3000	8	65	1700	4	18	6800	13	239
10	3200	5	43	1600	4	17	5600	11	166
11	2600	4	28	1700	5	23	5370	9	130
12	1700	3	14	1800	7	34	4630	8	100
13	1900	3	15	2000	8	43	4300	6	70
14	2250	4	24	2100	7	40	4120	5	56
15	2060	6	33	2200	6	36	3270	3	26
16	3170	7	60	2200	7	42	2950	3	24
17	2600	4	28	2300	6	37	3110	3	25
18	1800	2	9.7	3170	4	34	2880	1	7.8
19	2000	1	5.4	4560	4	49	2740	2	15
20	2440	2	13	3400	5	46	2770	1	7.5
21	2140	2	12	2900	6	47	2790	2	15
22	2000	1	5.4	2500	5	34	2220	1	6.0
23	1900	5	26	2400	5	32	3030	4	33
24	2100	7	40	2300	6	37	3980	7	75
25	2400	4	26	2200	5	30	3510	5	47
26	2500	2	14	2200	5	30	3140	3	25
27	2500	1	6.8	2400	4	26	2340	2	13
28	2500	4	27	2300	2	12	2470	2	13
29	2900	8	63	2500	3	20	4880	11	145
30	6290	7	119	3200	4	35	11100	20	599
31	7300	--	--	4200	--	--	--	--	--
TOTAL	88950	--	963.5	82630	--	1261	158200	--	6468.3

LOCATION.--Lat 40°49'43", long 74°58'45", Warren County, at gaging station 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.

PERIOD OF RECORD.--Chemical analyses: Water years 1963-72 (partial-record station), October 1972 to September 1974.

DATE	TIME	INSTANTANEOUS DIS-CHARGE (CFS)	ELEV. OF LAND SURFACE DATUM (FT. ABOVE MSL)	TEMPERATURE (DEG C)	SPECIFIC CONDUCTANCE (MICRO-MHOS)	PH (UNITS)	DISSOLVED OXYGEN (MG/L)	BIO-CHEMICAL OXYGEN DEMAND 5 DAY (MG/L)	TUR-BID-ITY (JTU)	COLOR (PLAT-INUM-COBALT UNITS)
DEC. 04...	1130	94	399	5.6	454	8.2	12.6	2.3	--	--
FEB. 12...	1430	175	399	2.6	400	8.2	13.6	1.1	--	--
APR. 18...	1030	337	399	11.5	383	8.2	10.6	1.0	--	--
MAY 21...	1515	169	399	17.6	355	8.6	10.8	1.2	--	--
JUNE 27...	1115	92	399	16.5	423	8.6	9.7	1.6	--	--
JULY 17...	1030	45	399	16.4	452	9.1	9.8	.5	--	--
AUG. 21...	1545	56	399	22.0	436	8.4	9.8	1.3	3	6
SEP. 13...	1145	137	399	20.7	445	8.0	10.0	1.5	--	--

[illegible]

WATER QUALITY DATA, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DATE	IMME- DIATE COLI- FORM (COL. PER 100 ML)	FECAL COLI- FORM (COL. PER 100 ML)	STREP- TOCOCCI (COL- ONIES PER 100 ML)	ALKA- LILITY AS CAC03 (MG/L)	CAR- BONATE (C03) (MG/L)	BICAR- BONATE (HC03) (MG/L)	CARBON DIOXIDE (C02) (MG/L)	TOTAL CAL- CIUM (CA) (MG/L)	TOTAL MAG- NE- SIUM (MG) (MG/L)	TOTAL SODIUM (NA) (MG/L)
DEC.										
04...	0	140	4	--	--	--	--	--	--	--
FEB.										
12...	8	2	6	--	--	--	--	--	--	--
APR.										
18...	152	1200	20	--	--	--	--	--	--	--
MAY										
21...	0	--	124	--	--	--	--	--	--	--
JUNE										
27...	370	60	412	--	--	--	--	--	--	--
JULY										
17...	820	150	390	--	--	--	--	--	--	--
AUG.										
21...	180	80	680	174	0	212	1.4	43	24	7.9
SEP.										
13...	2900	--	190	--	--	--	--	--	--	--

[illegible]

## DELAWARE RIVER BASIN

01446550 DELAWARE RIVER NEAR MARTINS CREEK, PA. (ROXBURG, N. J.)

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

DRAINAGE AREA.--4,546 mi<sup>2</sup> (11,774 km<sup>2</sup>), approximately.

PERIOD OF RECORD.--Chemical analyses: July 1969 to September 1974.

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

## WATER QUALITY DATA, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	TEMPERATURE (DEG C)	SPECIFIC CONDUCTANCE (MICRO-MHOS)	PH (UNITS)	DISSOLVED OXYGEN (MG/L)	BIOCHEMICAL OXYGEN DEMAND 5 DAY (MG/L)	TURBIDITY (JTU)	TOTAL NITRITE (N) (MG/L)	TOTAL NITRATE (N) (MG/L)	TOTAL KJELDAHL NITROGEN (N) (MG/L)
JAN.											
30...	1045	29800	2.5	95	6.6	14.2	.8	15	--	.30	.95
FEB.											
13...	1130	7460	1.5	110	--	15.0	--	2	--	.60	.66
20...	1020	8220	3.5	135	--	14.0	--	3	--	.60	1.2
MAR.											
06...	1215	13400	5.5	76	6.9	13.0	--	1	.01	.41	.14
27...	1025	14200	4.0	75	6.4	13.2	.8	3	--	.00	.46
APR.											
10...	1300	26500	5.5	95	--	12.2	2.8	2	.01	.35	.14
24...	1100	10300	12.0	109	6.6	10.6	2.8	1	--	--	.32
30...	1155	6180	--	136	--	10.0	3.0	3	--	--	.97
MAY											
15...	1045	22300	16.5	95	--	9.6	.8	7	--	--	.61
29...	1150	4740	20.0	110	--	8.4	--	3	--	--	.23
JUNE											
05...	1045	6240	20.5	80	7.2	8.8	3.0	4	--	--	.26
19...	0930	6450	23.0	100	--	8.6	4.0	5	--	--	.48
JULY											
02...	1500	5400	23.5	120	--	8.0	3.0	3	--	--	.24
08...	1130	2700	35.0	135	--	6.9	4.8	3	--	--	.97
23...	1330	2280	28.0	120	7.8	7.8	3.8	1	--	--	.54
AUG.											
06...	1725	3320	27.8	130	7.2	8.3	2.0	2	--	--	.59
14...	1220	2060	30.0	120	8.2	7.4	5.6	2	--	--	1.3
28...	1010	2460	33.0	130	6.8	6.4	2.0	8	--	--	.68
SEP.											
11...	1200	5790	21.0	120	7.8	7.7	6.3	3	--	--	.91
18...	0710	3760	19.0	130	--	8.5	3.0	2	--	--	.59

DATE	AMMONIA NITROGEN (N) (MG/L)	TOTAL ORGANIC NITROGEN (N) (MG/L)	TOTAL NITROGEN (N) (MG/L)	TOTAL PHOSPHORUS (P) (MG/L)	TOTAL ORTHO PHOSPHORUS (P) (MG/L)	TOTAL ORGANIC CARBON (C) (MG/L)	DISSOLVED ORGANIC CARBON (C) (MG/L)	FECAL COLIFORM (COL. PER 100 ML)	STREPTOCOCCI (COL. PER 100 ML)	ALKALINITY AS CaCO3 (MG/L)	CARBONATE (CO3) (MG/L)
JAN.											
30...	.31	.64	1.2	.10	.02	23	--	110	380	--	--
FEB.											
13...	.20	.46	1.3	.03	--	4.0	--	--	100	--	--
20...	.23	1.0	1.8	.09	--	2.5	--	440	1500	--	--
MAR.											
06...	.12	.02	.56	.57	--	3.0	--	--	--	14	0
27...	.18	.28	.46	.03	--	5.0	--	25	7	--	--
APR.											
10...	.09	.05	.50	.02	--	6.5	--	E19	--	--	--
24...	.15	.17	.69	.03	--	14	--	74	--	--	--
30...	.30	.67	1.3	.04	--	10	--	8	--	--	--
MAY											
15...	.11	.50	.88	.04	--	6.0	--	91	84	--	--
29...	.02	.21	.53	.03	--	--	--	24	94	--	--
JUNE											
05...	.01	.25	.46	.03	--	2.9	--	44	44	23	0
19...	.05	.43	.74	.09	--	4.6	--	--	56	--	--
JULY											
02...	.09	.15	.39	.03	--	7.4	--	2200	--	--	--
08...	.26	.71	1.1	.03	--	--	--	<2	--	--	--
23...	.30	.24	.73	.03	--	1.7	--	--	--	--	--
AUG.											
06...	.37	.22	.76	.03	--	4.7	--	150	--	--	--
14...	.42	.88	1.4	.03	--	5.6	--	E35	E1000	--	--
28...	.31	.37	.86	.05	--	--	--	E100	--	--	--
SEP.											
11...	.34	.57	1.1	.03	--	7.8	7.8	--	--	--	--
18...	.32	.27	.72	.02	--	5.2	--	E2000	180	--	--

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01446550 DELAWARE RIVER NEAR MARTINS CREEK, PA. (ROXBURG, N. J.)--Continued

[illegible]

01446700 DELAWARE RIVER AT EASTON, PA. (PHILLIPSBURG, N. J.)

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

DRAINAGE AREA.--4,640 mi<sup>2</sup> (12,000 km<sup>2</sup>).

PERIOD OF RECORD.--Chemical analyses: October 1947 to September 1951, October 1957 to September 1958, November 1967 to September 1974.

Water temperatures: October 1947 to September 1949, October 1957 to September 1958, October 1963 to September 1964, November 1967 to September 1974.

## EXTREMES.--1973-74:

Specific conductance: Maximum, 198 micromhos Dec. 10; minimum, 98 micromhos Sept. 5.

Dissolved oxygen: Maximum, 14.5 mg/l Nov. 21; minimum, 6.1 mg/l Aug. 27.

Water temperatures: Maximum, 28.0°C Aug. 29; minimum, 5.0°C Dec. 4.

pH: Maximum, 9.7 Nov. 15; minimum, 6.5 Aug. 25-27.

## Period of record:

Specific conductance (1967-74): Maximum, 499 micromhos Nov. 26, 1970; minimum, 40 micromhos Apr. 6, 1970.

Dissolved oxygen (1967-74): Maximum, 15.9 mg/l Dec. 17-19, 1972; minimum, 5.7 mg/l July 19-20, 24, 1968.

Water temperatures: Maximum, 30.5°C July 27, 28, Sept. 2-4, 1973; minimum, freezing point on many days during winter months.

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

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

SPECIFIC CONDUCTANCE (MICROMHOS AT 25°C), WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCTOBER			NOVEMBER			DECEMBER			JANUARY		
	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	---	---	---	160	150	157	120	115	116	---	---	---
2	---	---	---	160	158	159	120	115	116	---	---	---
3	---	---	---	160	159	159	130	120	123	---	---	---
4	---	---	---	160	159	160	135	125	129	---	---	---
5	---	---	---	160	160	160	135	120	129	---	---	---
6	---	---	---	160	160	160	130	125	129	---	---	---
7	---	---	---	167	160	162	189	125	144	---	---	---
8	---	---	---	170	163	166	190	149	167	---	---	---
9	150	146	---	170	169	170	189	159	168	---	---	---
10	150	145	---	169	163	167	198	188	---	---	---	---
11	---	---	---	163	153	159	---	---	---	---	---	---
12	---	---	---	157	145	151	---	---	---	---	---	---
13	---	---	---	146	141	144	---	---	---	---	---	---
14	---	---	---	141	132	137	---	---	---	---	---	---
15	---	---	---	138	130	134	---	---	---	---	---	---
16	---	---	---	138	135	137	---	---	---	---	---	---
17	144	140	---	137	135	136	---	---	---	---	---	---
18	155	145	151	137	135	135	---	---	---	---	---	---
19	156	154	---	137	135	137	---	---	---	---	---	---
20	---	---	---	140	137	138	---	---	---	---	---	---
21	---	---	---	141	130	134	---	---	---	---	---	---
22	---	---	---	135	130	131	---	---	---	---	---	---
23	---	---	---	135	131	133	---	---	---	---	---	---
24	---	---	---	139	132	137	---	---	---	---	---	---
25	149	149	---	141	135	139	---	---	---	---	---	---
26	149	145	148	140	131	135	---	---	---	---	---	---
27	149	149	149	135	120	126	---	---	---	---	---	---
28	150	149	149	125	120	123	---	---	---	---	---	---
29	160	150	150	120	115	119	---	---	---	---	---	---
30	160	160	160	120	115	118	---	---	---	---	---	---
31	160	160	160	---	---	---	---	---	---	---	---	---
MONTH	---	---	---	170	115	144	---	---	---	---	---	---

DAY	JUNE			JULY			AUGUST			SEPTEMBER		
	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	---	---	---	---	---	---	---	---	---	134	109	123
2	---	---	---	---	---	---	---	---	---	158	113	128
3	---	---	---	---	---	---	---	---	---	137	99	107
4	---	---	---	---	---	---	---	---	---	123	107	115
5	---	---	---	---	---	---	---	---	---	119	98	109
6	---	---	---	---	---	---	---	---	---	121	102	107
7	---	---	---	---	---	---	---	---	---	118	99	113
8	---	---	---	---	---	---	---	---	---	116	111	113
9	---	---	---	---	---	---	---	---	---	113	111	112
10	---	---	---	---	---	---	---	---	---	115	113	114
11	---	---	---	---	---	---	---	---	---	125	115	119
12	---	---	---	---	---	---	---	---	---	127	116	121
13	---	---	---	---	---	---	---	---	---	122	115	119
14	---	---	---	---	---	---	---	---	---	130	117	123
15	---	---	---	---	---	---	---	---	---	131	125	128
16	---	---	---	---	---	---	---	---	---	142	133	139
17	---	---	---	---	---	---	---	---	---	155	135	140
18	---	---	---	---	---	---	---	---	---	148	135	139
19	---	---	---	---	---	---	---	---	---	151	140	144
20	---	---	---	---	---	---	---	---	---	154	143	149
21	---	---	---	---	---	---	---	---	---	155	148	150
22	---	---	---	---	---	---	---	---	---	158	151	154
23	---	---	---	---	---	---	---	---	---	165	150	160
24	---	---	---	---	---	---	130	123	---	150	134	142
25	---	---	---	---	---	---	135	125	129	133	121	126
26	---	---	---	---	---	---	157	129	134	136	123	129
27	---	---	---	---	---	---	156	126	131	146	136	141
28	---	---	---	---	---	---	129	119	124	160	146	152
29	---	---	---	---	---	---	134	125	---	171	155	162
30	---	---	---	---	---	---	149	125	---	159	108	130
31	---	---	---	---	---	---	157	136	140	---	---	---
MONTH	---	---	---	---	---	---	---	---	---	171	98	130



## DELAWARE RIVER BASIN

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01446700 DELAWARE RIVER AT EASTON, PA. (PHILLIPSBURG, N. J.)--Continued

DISSOLVED OXYGEN (DO), IN MILLIGRAMS PER LITER, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCTOBER			NOVEMBER			DECEMBER			JANUARY		
	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	---	---	---	11.1	10.6	10.8	12.9	12.1	12.5	---	---	---
2	---	---	---	11.8	10.8	11.2	13.5	12.5	13.0	---	---	---
3	---	---	---	11.9	10.8	11.3	13.8	12.9	13.2	---	---	---
4	---	---	---	---	---	---	13.9	12.8	13.3	---	---	---
5	---	---	---	---	---	---	12.8	12.5	---	---	---	---
6	---	---	---	---	---	---	---	---	---	---	---	---
7	---	---	---	---	---	---	---	---	---	---	---	---
8	---	---	---	---	---	---	---	---	---	---	---	---
9	11.8	9.7	---	---	---	---	---	---	---	---	---	---
10	9.5	8.1	---	---	---	---	---	---	---	---	---	---
11	---	---	---	---	---	---	---	---	---	---	---	---
12	---	---	---	---	---	---	---	---	---	---	---	---
13	---	---	---	---	---	---	---	---	---	---	---	---
14	---	---	---	14.0	12.5	---	---	---	---	---	---	---
15	---	---	---	13.9	11.8	12.7	---	---	---	---	---	---
16	---	---	---	11.9	10.8	11.4	---	---	---	---	---	---
17	12.2	10.5	---	12.7	10.8	11.6	---	---	---	---	---	---
18	11.8	10.1	10.9	12.9	11.2	11.9	---	---	---	---	---	---
19	13.0	10.5	---	13.4	11.4	12.3	---	---	---	---	---	---
20	---	---	---	14.1	12.0	12.9	---	---	---	---	---	---
21	---	---	---	14.5	12.7	13.3	---	---	---	---	---	---
22	---	---	---	14.4	12.3	13.1	---	---	---	---	---	---
23	---	---	---	14.5	12.3	13.2	---	---	---	---	---	---
24	---	---	---	13.6	11.9	12.6	---	---	---	---	---	---
25	13.3	11.2	---	12.9	11.4	11.9	---	---	---	---	---	---
26	13.1	10.5	11.6	13.0	11.4	12.1	---	---	---	---	---	---
27	12.8	10.0	11.3	12.2	11.6	11.8	---	---	---	---	---	---
28	13.2	10.1	11.5	12.0	11.3	11.6	---	---	---	---	---	---
29	11.2	10.3	10.7	11.8	11.2	11.5	---	---	---	---	---	---
30	10.6	9.9	10.4	12.3	11.7	12.1	---	---	---	---	---	---
31	11.1	10.5	10.8	---	---	---	---	---	---	---	---	---
MONTH	---	---	---	---	---	---	---	---	---	---	---	---

DAY	JUNE			JULY			AUGUST			SEPTEMBER		
	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	---	---	---	---	---	---	---	---	---	8.3	7.4	7.8
2	---	---	---	---	---	---	---	---	---	7.8	7.5	7.7
3	---	---	---	---	---	---	---	---	---	8.1	7.4	7.8
4	---	---	---	---	---	---	---	---	---	8.0	7.5	---
5	---	---	---	---	---	---	---	---	---	---	---	---
6	---	---	---	---	---	---	---	---	---	9.0	8.9	---
7	---	---	---	---	---	---	---	---	---	9.1	8.9	9.0
8	---	---	---	---	---	---	---	---	---	9.0	8.8	8.9
9	---	---	---	---	---	---	---	---	---	8.8	8.5	8.7
10	---	---	---	---	---	---	---	---	---	8.7	8.3	8.5
11	---	---	---	---	---	---	---	---	---	8.7	8.0	8.4
12	---	---	---	---	---	---	---	---	---	8.2	7.7	8.0
13	---	---	---	---	---	---	---	---	---	8.3	7.5	7.8
14	---	---	---	---	---	---	---	---	---	8.4	7.3	7.8
15	---	---	---	---	---	---	---	---	---	8.9	7.7	8.2
16	---	---	---	---	---	---	---	---	---	9.4	7.9	8.6
17	---	---	---	---	---	---	---	---	---	9.9	8.0	8.8
18	---	---	---	---	---	---	---	---	---	10.0	8.3	9.0
19	---	---	---	---	---	---	---	---	---	10.2	8.2	9.0
20	---	---	---	---	---	---	---	---	---	9.9	8.1	8.8
21	---	---	---	---	---	---	---	---	---	9.5	8.0	8.6
22	---	---	---	---	---	---	---	---	---	10.3	8.2	9.2
23	---	---	---	---	---	---	---	---	---	10.8	8.6	9.7
24	---	---	---	---	---	---	9.1	7.5	---	11.3	9.4	10.2
25	---	---	---	---	---	---	8.8	6.3	7.7	10.6	9.3	10.0
26	---	---	---	---	---	---	8.0	6.8	7.4	10.6	9.1	9.7
27	---	---	---	---	---	---	8.2	6.1	7.2	10.7	8.9	9.7
28	---	---	---	---	---	---	7.8	6.3	7.1	9.2	8.4	8.7
29	---	---	---	---	---	---	7.7	6.5	6.8	8.8	8.0	8.5
30	---	---	---	---	---	---	7.6	6.7	7.3	8.9	8.6	---
31	---	---	---	---	---	---	7.9	7.0	7.4	---	---	---
MONTH	---	---	---	---	---	---	---	---	---	11.3	7.3	8.7

## DELAWARE RIVER BASIN

01446700 DELAWARE RIVER AT EASTON, PA. (PHILLIPSBURG, N. J.)--Continued

TEMPERATURE (°C) OF WATER, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCTOBER			NOVEMBER			DECEMBER			JANUARY		
	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	---	---	---	12.0	11.5	11.5	7.0	6.5	7.0	---	---	---
2	---	---	---	11.5	11.0	11.0	6.5	5.5	6.0	---	---	---
3	---	---	---	11.5	11.0	11.5	6.0	5.5	5.5	---	---	---
4	---	---	---	11.5	10.5	11.0	6.0	5.0	5.5	---	---	---
5	---	---	---	11.0	10.0	10.5	8.5	6.0	7.0	---	---	---
6	---	---	---	10.0	8.5	9.5	9.0	8.0	8.5	---	---	---
7	---	---	---	9.5	8.5	8.5	8.0	7.0	7.0	---	---	---
8	---	---	---	8.5	8.0	8.5	7.0	6.5	7.0	---	---	---
9	19.5	19.0	---	8.5	7.0	8.0	7.0	6.5	6.5	---	---	---
10	21.0	18.5	---	7.0	6.5	6.5	7.0	7.0	---	---	---	---
11	---	---	---	6.5	5.5	6.0	---	---	---	---	---	---
12	---	---	---	6.5	5.5	6.0	---	---	---	---	---	---
13	---	---	---	8.0	6.5	7.0	---	---	---	---	---	---
14	---	---	---	8.5	7.0	7.5	---	---	---	---	---	---
15	---	---	---	9.5	8.0	8.5	---	---	---	---	---	---
16	---	---	---	10.0	9.5	9.5	---	---	---	---	---	---
17	16.0	14.5	---	9.0	8.5	9.0	---	---	---	---	---	---
18	14.5	13.5	14.0	8.5	8.0	8.0	---	---	---	---	---	---
19	14.0	12.0	---	8.5	8.0	8.0	---	---	---	---	---	---
20	---	---	---	8.5	7.0	8.0	---	---	---	---	---	---
21	---	---	---	8.0	7.0	7.0	---	---	---	---	---	---
22	---	---	---	8.5	8.0	8.0	---	---	---	---	---	---
23	---	---	---	8.5	7.0	8.0	---	---	---	---	---	---
24	---	---	---	9.0	8.5	8.5	---	---	---	---	---	---
25	14.0	13.5	---	9.5	9.0	9.5	---	---	---	---	---	---
26	14.5	13.5	14.0	9.5	9.0	9.0	---	---	---	---	---	---
27	15.5	14.0	14.5	9.0	9.0	9.0	---	---	---	---	---	---
28	14.5	14.0	14.0	10.0	9.0	9.0	---	---	---	---	---	---
29	14.0	13.5	13.5	9.5	8.5	9.0	---	---	---	---	---	---
30	13.5	11.5	12.0	8.5	7.0	8.0	---	---	---	---	---	---
31	12.0	11.0	11.5	---	---	---	---	---	---	---	---	---
MONTH	---	---	---	12.0	5.5	8.5	---	---	---	---	---	---

DAY	JUNE			JULY			AUGUST			SEPTEMBER		
	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	---	---	---	---	---	---	---	---	---	23.5	21.0	22.5
2	---	---	---	---	---	---	---	---	---	22.0	19.0	20.5
3	---	---	---	---	---	---	---	---	---	19.0	16.5	17.5
4	---	---	---	---	---	---	---	---	---	---	---	---
5	---	---	---	---	---	---	---	---	---	---	---	---
6	---	---	---	---	---	---	---	---	---	18.5	18.0	---
7	---	---	---	---	---	---	---	---	---	18.0	17.0	17.5
8	---	---	---	---	---	---	---	---	---	20.0	18.0	18.5
9	---	---	---	---	---	---	---	---	---	20.5	19.5	20.0
10	---	---	---	---	---	---	---	---	---	23.0	20.5	21.5
11	---	---	---	---	---	---	---	---	---	22.0	20.5	21.0
12	---	---	---	---	---	---	---	---	---	23.0	20.0	21.5
13	---	---	---	---	---	---	---	---	---	24.5	21.5	23.0
14	---	---	---	---	---	---	---	---	---	23.5	22.0	23.0
15	---	---	---	---	---	---	---	---	---	21.5	20.0	21.0
16	---	---	---	---	---	---	---	---	---	21.0	19.0	20.0
17	---	---	---	---	---	---	---	---	---	20.0	18.0	19.0
18	---	---	---	---	---	---	---	---	---	21.0	19.0	20.0
19	---	---	---	---	---	---	---	---	---	21.5	19.5	20.5
20	---	---	---	---	---	---	---	---	---	21.5	20.0	21.0
21	---	---	---	---	---	---	---	---	---	21.0	19.5	20.5
22	---	---	---	---	---	---	---	---	---	19.5	18.0	19.0
23	---	---	---	---	---	---	---	---	---	18.0	15.0	16.5
24	---	---	---	---	---	---	26.5	25.0	---	15.5	13.5	14.5
25	---	---	---	---	---	---	26.5	24.0	25.0	16.5	13.5	15.0
26	---	---	---	---	---	---	24.5	23.5	24.0	18.0	15.0	16.5
27	---	---	---	---	---	---	26.0	24.0	24.5	19.0	15.5	17.0
28	---	---	---	---	---	---	26.0	24.5	25.0	18.5	18.0	18.0
29	---	---	---	---	---	---	28.0	23.5	25.0	18.5	17.0	18.0
30	---	---	---	---	---	---	27.0	24.0	25.5	17.0	16.0	16.0
31	---	---	---	---	---	---	24.0	21.5	23.0	---	---	---
MONTH	---	---	---	---	---	---	---	---	---	24.5	13.5	19.0

## DELAWARE RIVER BASIN

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01446700 DELAWARE RIVER AT EASTON, PA. (PHILLIPSBURG, N. J.)--Continued

pH (UNITS), WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCTOBER			NOVEMBER			DECEMBER			JANUARY		
	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	---	---	---	7.4	7.0	7.2	7.7	7.4	7.5	---	---	---
2	---	---	---	7.7	7.1	7.3	7.9	7.4	7.6	---	---	---
3	---	---	---	7.7	7.1	7.4	8.1	7.5	7.7	---	---	---
4	---	---	---	7.6	7.0	7.3	8.4	7.5	7.9	---	---	---
5	---	---	---	7.6	7.2	7.3	7.6	7.4	7.5	---	---	---
6	---	---	---	7.9	7.2	7.4	7.9	7.6	7.7	---	---	---
7	---	---	---	8.0	7.4	7.6	7.8	7.5	7.6	---	---	---
8	---	---	---	8.1	7.3	7.6	7.7	7.6	7.6	---	---	---
9	9.2	7.9	---	8.0	7.3	7.7	7.6	7.5	7.5	---	---	---
10	7.9	7.5	---	8.2	7.3	7.7	7.7	7.6	---	---	---	---
11	---	---	---	8.4	7.5	7.9	---	---	---	---	---	---
12	---	---	---	8.7	7.5	8.0	---	---	---	---	---	---
13	---	---	---	8.8	7.7	8.1	---	---	---	---	---	---
14	---	---	---	9.3	7.4	8.2	---	---	---	---	---	---
15	---	---	---	9.7	7.3	8.4	---	---	---	---	---	---
16	---	---	---	8.4	7.5	8.0	---	---	---	---	---	---
17	8.9	7.7	---	8.9	7.7	8.2	---	---	---	---	---	---
18	8.3	7.3	7.8	8.8	7.7	8.1	---	---	---	---	---	---
19	8.8	7.3	---	9.0	7.5	8.1	---	---	---	---	---	---
20	---	---	---	9.0	7.6	8.1	---	---	---	---	---	---
21	---	---	---	8.8	7.4	7.9	---	---	---	---	---	---
22	---	---	---	9.5	7.4	8.1	---	---	---	---	---	---
23	---	---	---	9.3	7.4	8.1	---	---	---	---	---	---
24	---	---	---	8.8	7.4	7.9	---	---	---	---	---	---
25	9.0	7.5	---	8.4	7.5	7.7	---	---	---	---	---	---
26	9.1	7.2	8.0	8.5	7.5	7.9	---	---	---	---	---	---
27	9.0	7.1	8.0	7.6	7.4	7.6	---	---	---	---	---	---
28	8.9	7.2	8.0	7.7	7.4	7.5	---	---	---	---	---	---
29	7.5	7.0	7.2	7.8	7.6	7.7	---	---	---	---	---	---
30	7.2	6.9	7.1	7.8	7.5	7.6	---	---	---	---	---	---
31	7.3	6.9	7.1	---	---	---	---	---	---	---	---	---
MONTH	---	---	---	9.7	7.0	7.8	---	---	---	---	---	---

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

01457000 MUSCONETCONG RIVER NEAR BLOOMSBURY, N. J.

LOCATION.--Lat 40°40'20", long 75°03'40", Warren County, at bridge at gaging station 1.5 mi (2.4 km) upstream from  
Bloomsbury, and 9.5 mi (15.3 km) upstream from mouth.

DRAINAGE AREA.--143 mi<sup>2</sup> (370 km<sup>2</sup>).

PERIOD OF RECORD.--Chemical analyses: Water years 1963-72 (partial-record station), October 1972 to September 1974.

REMARKS.--Miscellaneous storm sediment samples collected during water years 1971-74.

## WATER QUALITY DATA, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DATE	TIME	INSTANTANEOUS DIS-CHARGE (CFS)	ELEV. OF LAND SURFACE DATUM (FT. ABOVE MSL)	TEMPER-ATURE (DEG C)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	PH (UNITS)	DIS-SOLVED OXYGEN (MG/L)	BIO-CHEM-ICAL OXYGEN DEMAND 5 DAY (MG/L)	TUR-BID-ITY (JTU)	COLOR (PLAT-INUM-COBALT UNITS)
DEC.										
04...	1315	234	275	5.8	233	8.1	13.4	.8	--	--
JAN.										
23...	0930	416	275	3.7	--	--	--	--	--	--
FEB.										
12...	1600	316	275	3.4	235	8.2	14.6	1.6	--	--
APR.										
04...	0830	775	275	11.6	--	--	--	--	--	--
04...	1145	805	275	12.4	--	--	--	--	--	--
09...	1430	720	275	7.5	--	--	--	--	--	--
17...	0730	520	275	9.4	--	--	--	--	--	--
17...	0745	520	275	9.4	235	7.8	10.4	1.4	--	--
MAY										
16...	0945	460	275	17.5	204	7.0	9.9	1.6	--	--
16...	1015	460	275	17.5	--	--	--	--	--	--
JUNE										
27...	1000	198	275	16.8	277	8.0	9.9	1.2	--	--
27...	1100	195	275	16.8	--	--	--	--	--	--
JULY										
17...	1415	880	275	21.0	318	10.1	12.6	1.7	--	--
AUG.										
21...	1330	110	275	21.8	283	8.6	11.4	1.1	4	1
23...	1430	148	275	21.5	--	--	--	--	--	--
SEP.										
04...	1620	710	275	17.7	--	--	--	--	--	--
13...	1015	260	275	20.2	253	7.9	10.4	1.3	--	--
23...	1240	201	275	14.2	--	--	--	--	--	--
30...	1700	8380	275	15.9	--	--	--	--	--	--

[illegible]

WATER QUALITY DATA, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

[illegible]

DELAWARE RIVER BASIN  
01457000 MUSCONETCONG RIVER NEAR BLOOMSBURY, N. J.--Continued

SUSPENDED-SEDIMENT DISCHARGE MEASUREMENTS, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DATE	TIME	TEMPER- ATURE (DEG C)	INSTAN- TANEOUS DIS- CHARGE (CFS)	SUS- PENDE SED- IMENT (MG/L)	SUS- PENDE SED- IMENT DIS- CHARGE (T/DAY)	SUS. SED. FALL DIAM. % FINER THAN .004 MM	SUS. SED. FALL DIAM. % FINER THAN .008 MM	SUS. SED. FALL DIAM. % FINER THAN .016 MM
JAN.								
23...	0930	3.7	420	16	18	--	--	--
APR.								
04...	0830	11.6	770	98	204	42	54	65
04...	1145	12.4	810	19	42	--	--	--
09...	1430	7.5	720	62	121	--	--	--
17...	0730	9.4	520	22	31	--	--	--
MAY								
16...	1015	17.5	460	33	41	--	--	--
JUNE								
27...	1100	16.8	201	21	11	--	--	--
AUG.								
21...	1330	21.8	110	10	3.0	--	--	--
23...	1430	21.5	148	20	8.0	--	--	--
SEP.								
04...	1620	17.7	710	81	155	26	38	49
23...	1240	14.2	201	10	5.4	--	--	--
30...	1700	15.9	404	25	27	--	--	--

DATE	SUS. SED. FALL DIAM. % FINER THAN .031 MM	SUS. SED. SIEVE DIAM. % FINER THAN .062 MM	SUS. SED. SIEVE DIAM. % FINER THAN .125 MM	SUS. SED. SIEVE DIAM. % FINER THAN .250 MM	SUS. SED. SIEVE DIAM. % FINER THAN .500 MM	SUS. SED. SIEVE DIAM. % FINER THAN 1.00 MM	SUS. SED. SIEVE DIAM. % FINER THAN 2.00 MM
JAN.							
23...	--	--	--	--	--	--	--
APR.							
04...	77	87	94	97	100	--	--
04...	--	--	--	--	--	--	--
09...	--	--	--	--	--	--	--
17...	--	--	--	--	--	--	--
MAY							
16...	--	--	--	--	--	--	--
JUNE							
27...	--	--	--	--	--	--	--
AUG.							
21...	--	--	--	--	--	--	--
23...	--	--	--	--	--	--	--
SEP.							
04...	60	70	78	84	91	96	100
23...	--	--	--	--	--	--	--
30...	--	--	--	--	--	--	--

01457500 DELAWARE RIVER AT RIEGELSVILLE, N. J. (RIEGELSVILLE, PA.)

LOCATION.--Lat 40°35'36", long 75°11'17", Warren County, at partial-record gaging station at suspension bridge 600 ft (183 m) upstream from Musconetcong River, at Riegelsville.

DRAINAGE AREA.--6,328 mi<sup>2</sup> (16,390 km<sup>2</sup>), includes that of Musconetcong River.

PERIOD OF RECORD.--Chemical analyses: July 1969 to September 1974.

REMARKS.--Discharge records include flow of Musconetcong River. Water-quality records at periods of base flow probably are influenced by inflow from the Musconetcong River. Operated as part of the USGS-EPA Surveillance Network.

## WATER QUALITY DATA, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	STAGE (FT ABOVE DATUM)	ELEV. OF LAND SURFACE DATUM (FT. ABOVE MSL)	TEMPERATURE (DEG C)	SPECIFIC CONDUCTANCE (MICRO-MHOS)	PH (UNITS)	TOTAL ACIDITY AS H <sup>+</sup> (MG/L)	DISSOLVED OXYGEN (MG/L)	BIO-CHEMICAL OXYGEN DEMAND 5 DAY (MG/L)	TURBIDITY (JTU)
OCT.											
25...	1000	--	3.21	125	13.0	205	7.5	--	9.0	1.6	2
NOV.											
08...	1035	--	--	125	--	--	6.2	--	--	--	--
29...	1210	--	4.90	125	9.5	165	6.8	--	10.2	2.4	--
DEC.											
04...	1345	--	--	125	--	--	6.5	--	--	--	--
10...	1300	--	--	125	8.5	--	7.8	--	--	--	--
27...	1430	--	11.75	125	4.5	110	7.5	.1	15.2	.6	11
JAN.											
02...	1105	--	--	125	--	--	6.0	--	--	--	--
03...	1220	--	--	125	6.0	--	8.0	--	--	--	--
23...	1130	--	--	125	--	--	8.7	--	--	--	--
23...	1230	--	--	125	10.0	650	7.6	--	--	--	--
31...	1220	--	--	125	--	--	6.3	--	--	--	--
FEB.											
14...	1100	--	--	125	9.5	--	8.0	--	--	--	--
19...	1010	--	--	125	--	--	7.3	--	--	--	--
MAR.											
14...	1410	--	--	125	--	--	6.5	--	--	--	--
APR.											
02...	1015	30	--	125	--	--	4.1	--	--	--	--
11...	1105	--	--	125	--	--	6.0	--	--	--	--
MAY											
09...	1145	--	--	125	--	--	6.5	--	--	--	--
23...	1200	--	--	125	--	--	--	--	--	--	--
JUNE											
19...	1315	--	--	125	--	210	7.8	--	--	--	5
19...	1415	--	--	125	--	800	8.0	--	--	--	15
19...	1745	--	--	125	--	700	8.3	--	--	--	5
19...	1930	--	--	125	--	1100	8.0	--	--	--	20
20...	1235	--	--	125	--	300	8.0	--	--	--	6
27...	1000	--	--	125	--	--	5.5	--	--	--	--
SEP.											
09...	1500	--	--	125	--	130	7.1	--	9.0	--	7
16...	1115	--	--	125	--	--	3.0	--	--	--	--
25...	1700	--	--	125	--	--	6.5	--	--	--	>1

DATE	COLOR (PLAT-INUM-COBALT UNITS)	TOTAL NITRITE (N) (MG/L)	TOTAL NITRATE (N) (MG/L)	TOTAL KJELDAHL NITROGEN (N) (MG/L)	AMMONIA NITROGEN (N) (MG/L)	TOTAL ORGANIC NITROGEN (N) (MG/L)	TOTAL PHOSPHORUS (P) (MG/L)	TOTAL ORTHO PHOSPHORUS (P) (MG/L)	TOTAL ORGANIC CARBON (C) (MG/L)	IMMEDIATE COLIFORM (COL. PER 100 ML)	FECAL COLIFORM (COL. PER 100 ML)
OCT.											
25...	--	--	--	--	--	--	--	--	--	3100	400
NOV.											
08...	--	--	--	--	--	--	--	--	--	--	--
29...	--	--	--	--	--	--	--	--	--	8200	1000
DEC.											
04...	--	--	--	--	--	--	--	--	--	--	--
10...	--	--	--	--	--	--	--	--	--	--	--
27...	--	--	.70	.41	.12	.29	.07	.04	3.0	4300	630
JAN.											
02...	--	--	--	--	--	--	--	--	--	--	--
03...	--	.06	1.1	--	.40	--	--	--	--	--	--
23...	--	--	--	--	--	--	--	--	--	--	--
23...	--	.04	2.0	--	.30	--	--	--	--	--	--
31...	--	--	--	--	--	--	--	--	--	--	--
FEB.											
14...	--	--	--	--	--	--	--	--	--	--	--
19...	--	--	--	--	--	--	--	--	--	--	--
MAR.											
14...	--	--	--	--	--	--	--	--	--	--	--
APR.											
02...	--	--	--	--	--	--	--	--	--	--	--
11...	--	--	--	--	--	--	--	--	--	--	--
MAY											
09...	--	--	--	--	--	--	--	--	--	--	--
23...	--	--	--	--	--	--	--	--	--	--	--
JUNE											
19...	--	--	--	--	--	--	--	--	--	--	--
19...	--	--	--	--	--	--	--	--	--	--	--
19...	--	--	--	--	--	--	--	--	--	--	--
20...	--	--	--	--	--	--	--	--	--	--	--
27...	--	--	--	--	--	--	--	--	--	--	--
SEP.											
09...	--	.05	1.0	--	.19	--	.06	--	--	--	--
16...	--	--	--	--	--	--	--	--	--	--	--
25...	0	.01	5.0	--	.04	--	--	.00	--	--	--



## DELAWARE RIVER BASIN

01457500 DELAWARE RIVER AT RIEGELSVILLE, N. J. (RIEGELSVILLE, PA.)--Continued

## WATER QUALITY DATA, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DATE	ALKA- LINIT AS CACO <sub>3</sub> (MG/L)	BICAR- BONATE (HCO <sub>3</sub> ) (MG/L)	CARBON DIOXIDE (CO <sub>2</sub> ) (MG/L)	TOTAL ACIDITY AS CACO <sub>3</sub> (MG/L)	DIS- SOLVED CHLO- RIDE (CL) (MG/L)	DIS- SOLVED SULFATE (SO <sub>4</sub> ) (MG/L)	TOTAL FLUO- RIDE (F) (MG/L)	DIS- SOLVED SOLIDS (RESI- DUE AT 180 C) (MG/L)	DIS- SOLVED SOLIDS (TONS PER AC-FT)	TOTAL IRON (FE) (UG/L)	TOTAL MAN- GANESE (MN) (UG/L)
OCT. 25...	--	--	--	--	--	--	--	117	.16	--	--
NOV. 08...	20	--	--	--	--	41	--	--	--	146	--
29...	--	--	--	--	--	--	--	103	.14	--	--
DEC. 04...	40	--	--	--	--	20	--	--	--	0	--
10...	45	--	--	--	--	30	--	--	--	3450	--
27...	18	22	1.1	5.0	--	17	--	82	.11	630	130
JAN. 02...	36	--	--	--	--	32	--	--	--	146	--
03...	40	--	--	--	10	720	--	--	--	3300	500
23...	60	--	--	--	--	1020	--	--	--	2700	--
23...	45	--	--	--	25	660	--	--	--	1140	540
31...	46	--	--	--	--	32	--	--	--	146	--
FEB. 14...	30	--	--	--	--	955	--	--	--	2500	--
19...	150	--	--	--	--	85	--	--	--	0	--
MAR. 14...	30	--	--	--	--	35	--	--	--	0	--
APR. 02...	2	--	--	--	--	--	--	--	--	11200	--
11...	34	--	--	--	--	20	--	--	--	9000	--
MAY 09...	94	--	--	--	--	45	--	--	--	100	--
23...	--	--	--	--	--	--	--	--	--	--	--
JUNE 19...	50	--	--	--	--	25	--	--	--	700	60
19...	180	--	--	--	--	140	--	--	--	1750	120
19...	155	--	--	--	--	88	--	--	--	540	70
19...	255	--	--	--	--	155	--	--	--	2500	170
20...	70	--	--	--	--	60	--	--	--	440	50
27...	--	--	--	--	--	--	--	--	--	--	--
SEP. 09...	35	--	--	--	8.0	6.0	--	--	--	220	70
16...	0	--	--	--	--	2400	--	--	--	117000	--
25...	19	--	--	--	18	24	>.1	--	--	>10	100

## DELAWARE RIVER BASIN

243

01463500 DELAWARE RIVER AT TRENTON, N. J. (MORRISVILLE, PA.)  
(International Hydrological Decade River Station and radiochemical station)

LOCATION.--Lat 40°13'18", long 74°46'42", Mercer County, water-quality recorder located at raw-water intake of the Trenton Water Department and at gaging station, about 600 ft (183 m) upstream from bridge on Calhoun Street in Trenton.

DRAINAGE AREA.--6,780 mi<sup>2</sup> (17,560 km<sup>2</sup>).

PERIOD OF RECORD.--Chemical analyses: October 1944 to September 1974.

Water temperatures: October 1944 to September 1974.

Sediment records: September 1949 to September 1974.

## EXTREMES.--1973-74:

Specific conductance: Maximum, 223 micromhos Aug. 17; minimum, 89 micromhos Dec. 22, 23.

Dissolved oxygen: Maximum, 17.3 mg/l July 9; minimum, 5.3 mg/l July 19.

Water temperatures: Maximum, 32.0°C July 9, 10; minimum, freezing point on Dec. 19, Feb. 6.

pH: Maximum, 10.2 June 14, 15; minimum, 5.5 Jan. 27.

Sediment concentrations: Maximum daily, 915 mg/l Dec. 22; minimum daily, 1 mg/l on many days during Nov., Jan. and Feb.

Sediment discharge: Maximum daily, 264,000 tons, Dec. 22, minimum daily, 11.0 tons Nov. 24, 25.

## Period of record:

Specific conductance: Maximum, 400 micromhos Jan. 24, 1959; minimum, 50 micromhos Mar. 19, 1945.

Dissolved oxygen (1962-74): Maximum, 17.3 mg/l July 9, 1974; minimum, 4.0 mg/l Nov. 9, 1972.

Water temperatures: Maximum, 34.0°C June 18, 1957; minimum, freezing point on many days during winter months.

pH (1968-74): Maximum, 10.2 July 5, 6, 1971, June 14, 15, 1974; minimum, 5.3 June 22, 1972.

Sediment concentrations (1949-74): 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 discharge (1949-74): Maximum daily, 1,087,000 tons Aug. 20, 1955; minimum daily, less than 0.5 tons

Oct. 21, 1952.

REMARKS.--Operated as part of the USGS-EPA Surveillance Network. Missing continuous water-quality records are the result of malfunction of sensor or sampling mechanism. No suspended-sediment concentration data available for the period of Nov. 13 to Dec. 23, 1973. Concentration was estimated for this period by use of a suspended-sediment transport curve. Estimated data rated fair-poor. Nutrient analysis of bed material at 1100 hours on June 26, 1974 is for New Jersey side of river. Similar analysis at 1200 hours on June 26, 1974 is for Pennsylvania side of river.

## WATER QUALITY DATA, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	ELEV. OF LAND SURFACE DATUM (FT. ABOVE MSL)	TEMPERATURE (DEG C)	AIR TEMPERATURE (DEG C)	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)	DISSOLVED OXYGEN (MG/L)	BIO-CHEMICAL OXYGEN DEMAND 5 DAY (MG/L)	TURBIDITY (JTU)	COLOR (PLATINUM-COBALT UNITS)
OCT. 31...	1130	14920	7.7	12.0	10.0	181	9.0	9.3	2.4	6	--
NOV. 27...	1310	5540	7.7	9.9	--	189	7.1	12.2	2.6	2	--
DEC. 21...	1700	70100	7.7	3.5	--	--	--	--	--	--	--
MAR. 25...	1000	22980	7.7	4.6	-4.4	110	7.6	11.2	1.4	--	--
APR. 19...	0900	24980	7.7	11.6	15.0	110	7.5	10.6	1.0	5	7
MAY 16...	1030	25880	7.7	20.0	29.3	102	7.0	9.4	4.8	7	4
23-31	--	--	7.7	--	--	--	--	--	--	--	--
JUNE 01-30	--	--	7.7	--	--	--	--	--	--	--	--
JULY 01-05	--	--	7.7	--	--	--	--	--	--	--	--
JUNE 26...	1100	6850	7.7	20.5	18.2	175	9.1	8.8	1.5	3	3
26...	1200	6800	7.7	--	--	--	--	--	--	--	--
JULY 29...	1000	4012	7.7	25.5	--	194	9.2	8.6	2.5	3	--
AUG. 28...	1000	4272	7.7	25.8	--	210	8.2	8.4	1.8	3	1
SEP. 03...	1030	184000	7.7	19.0	--	151	7.7	--	--	--	--
26...	1100	E6590	7.7	17.5	--	172	8.5	10.2	2.0	2	--

## DELAWARE RIVER BASIN

01463500 DELAWARE RIVER AT TRENTON, N. J. (MORRISVILLE, PA.)--Continued

## WATER QUALITY DATA, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DATE	TOTAL NITRITE (N) (MG/L)	DIS- SOLVED NITRITE (N) (MG/L)	TOTAL NITRATE (N) (MG/L)	DIS- SOLVED NITRATE (N) (MG/L)	TOTAL KJEL- DAHL NITRO- GEN (N) (MG/L)	DIS- SOLVED KJEL. NITRO- GEN (N) (MG/L)	TOTAL KJEL. NITRO- GEN IN BOTTOM DEP. (N) (MG/KG)	AMMONIA NITRO- GEN (N) (MG/L)	DIS- SOLVED AMMONIA NITRO- GEN (N) (MG/L)	TOTAL AMMONIA NITRO- GEN IN BOTTOM DEP. (N) (MG/KG)	ORGANIC NITRO- GEN (N) (MG/L)
OCT. 31...	.00	--	1.5	--	--	--	--	.09	--	--	--
NOV. 27...	.04	--	1.2	--	--	--	--	.22	--	--	--
DEC. 21...	--	--	--	--	--	--	--	--	--	--	--
MAR. 25...	.02	--	.71	--	.64	--	--	--	--	--	--
APR. 19...	.01	--	.62	--	.27	--	--	.11	--	--	.16
MAY 16...	.03	--	.56	--	.46	--	--	.12	--	--	.34
23-31	--	--	--	--	--	--	--	--	--	--	--
JUNE 01-30	--	--	--	--	--	--	--	--	--	--	--
JULY 01-05	--	--	--	--	--	--	--	--	--	--	--
JUNE 26...	--	.07	--	2.1	--	.31	125	.01	.03	19	--
26...	--	--	--	--	--	--	249	--	--	23	--
JULY 29...	.05	--	.91	--	.27	--	--	.07	--	--	.20
AUG. 28...	.04	--	1.2	--	.43	--	--	.10	--	--	.33
SEP. 03...	.02	.04	.74	.74	.81	.38	--	.24	.20	--	.57
26...	.03	--	.71	--	.33	--	--	.15	--	--	.18

DATE	DIS- SOLVED ORGANIC NITRO- GEN (N) (MG/L)	TOTAL NITRO- GEN (N) (MG/L)	TOTAL PHOS- PHORUS (P) (MG/L)	DIS- SOL- VED- PHOS- PHORUS (P) (MG/L)	TOTAL PHOS- PHORUS IN HOT- TOM DE- POSITS (MG/KG)	TOTAL ORTHO PHOS- PHORUS (P) (MG/L)	DIS- SOLVED ORTHO. PHOS- PHORUS (P) (MG/L)	TOTAL ORGANIC CARBON (C) (MG/L)	DIS- SOL- VED ORGANIC CARBON (C) (MG/L)	IN- ORGANIC CARBON IN BED MA- TERIAL (G/KG)
OCT. 31...	--	--	.17	--	--	--	--	5.0	--	--
NOV. 27...	--	--	.12	--	--	--	.10	--	--	--
DEC. 21...	--	--	--	--	--	--	--	--	--	--
MAR. 25...	--	1.4	.05	--	--	--	--	6.0	--	--
APR. 19...	--	.90	.06	--	--	.03	--	--	--	--
MAY 16...	--	1.1	.08	--	--	.03	--	28	--	--
23-31	--	--	--	--	--	--	--	--	--	--
JUNE 01-30	--	--	--	--	--	--	--	--	--	--
JULY 01-05	--	--	--	--	--	--	--	--	--	--
JUNE 26...	.28	--	.12	.08	250	.07	.07	5.7	--	.4
26...	--	--	--	--	250	--	--	--	--	.4
JULY 29...	--	1.2	.14	--	--	.10	--	6.9	--	--
AUG. 28...	--	1.6	.11	--	--	.08	--	3.3	--	--
SEP. 03...	.18	1.6	.28	.08	--	.06	.06	16	7.2	--
26...	--	1.1	.09	--	--	.06	--	5.6	--	--

## DELAWARE RIVER BASIN

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01463500 DELAWARE RIVER AT TRENTON, N. J. (MORRISVILLE, PA.)--Continued

## WATER QUALITY DATA, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DATE	ORGANIC CARBON IN BED MA- TERIAL (C) (G/KG)	IMME- DIATE COLI- FORM (COL. PER 100 ML)	FECAL COLI- FORM (COL. PER 100 ML)	STREP- TOCOCCI (COL- ONIES PER 100 ML)	TOTAL PHYTO- PLANK- TON (CELLS PER ML)	PERI- PHYTON CHLORO- PHYLL A MG/SQ M	CHLORO- PHYLL A (UG/L)	CHLORO- PHYLL B (UG/L)	PERI- PHYTON BIOMASS ASH WEIGHT G/SQ M	ALKA- LINITY AS CAC03 (MG/L)
OCT. 31...	--	10400	5000	9000	900	--	--	--	--	37
NOV. 27...	--	1410	196	204	4000	--	5.6	--	--	43
DEC. 21...	--	--	--	--	--	--	--	--	--	--
MAR. 25...	--	488	80	148	--	--	3.3	--	--	20
APR. 19...	--	900	1000	32	1300	--	.0	.0	--	22
MAY 16...	--	1180	380	28	2200	--	3.7	8.0	--	25
23-31	--	--	--	--	--	3.8	--	--	2.3	--
JUNE 01-30	--	--	--	--	--	3.8	--	--	2.3	--
JULY 01-05	--	--	--	--	--	3.8	--	--	2.3	--
JUNE 26...	12	600	120	128	15000	--	44	8.6	--	38
26...	11	--	--	--	--	--	--	--	--	--
JULY 29...	--	1060	10	440	11000	--	--	--	--	43
AUG. 28...	--	100	40	515	27000	--	--	--	--	58
SEP. 03...	--	--	--	--	--	--	--	--	--	--
26...	--	800	484	250	4100	--	--	--	--	38

DATE	CAR- BONATE (CO3) (MG/L)	BICAR- BONATE (HCO3) (MG/L)	CARBON DIOXIDE (CO2) (MG/L)	HARD- NESS (CA+MG) (MG/L)	NON- CAR- BONATE HARD- NESS (MG/L)	DIS- SOLVED CAL- CIUM (CA) (MG/L)	DIS- SOLVED MAG- NE- SIUM (MG) (MG/L)	DIS- SOLVED PO- TAS- SIUM (K) (MG/L)	DIS- SOLVED SOLIDS (RESI- DUE AT 180 C) (MG/L)	DIS- SOLVED SOLIDS (SUM OF CONSTITUENTS) (MG/L)
OCT. 31...	0	45	.1	65	29	16	6.2	3.5	--	95
NOV. 27...	0	53	6.7	70	26	17	6.6	2.3	117	98
DEC. 21...	--	--	--	--	--	--	--	--	--	--
MAR. 25...	0	24	1.0	41	21	11	3.3	1.0	69	58
APR. 19...	0	27	1.4	50	28	14	3.6	1.2	69	65
MAY 16...	0	31	5.0	40	14	11	3.0	1.0	66	59
23-31	--	--	--	--	--	--	--	--	--	--
JUNE 01-30	--	--	--	--	--	--	--	--	--	--
JULY 01-05	--	--	--	--	--	--	--	--	--	--
JUNE 26...	0	46	.1	69	32	18	5.9	1.6	109	102
26...	--	--	--	--	--	--	--	--	--	--
JULY 29...	0	52	.1	75	33	20	6.2	1.9	117	104
AUG. 28...	8	54	.7	88	30	21	8.6	2.2	144	118
SEP. 03...	--	--	--	--	--	--	--	--	--	--
26...	--	46	.2	70	32	18	6.0	1.8	101	89

## DELAWARE RIVER BASIN

01463500 DELAWARE RIVER AT TRENTON, N. J. (MORRISVILLE, PA.)--Continued

## WATER QUALITY DATA, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DATE	DIS- SOLVED SOLIDS (TONS PER AC-FT)	LOSS ON IGNI- TION (MG/L)	TOTAL FILT- RABLE RESIDUE (MG/L)	TOTAL NON- FILT- RABLE RESIDUE (MG/L)	DIS- SOLVED CHLO- RIDE (CL) (MG/L)	DIS- SOLVED SULFATE (SO <sub>4</sub> ) (MG/L)	DIS- SOLVED FLUO- RIDE (F) (MG/L)	TOTAL FLUO- RIDE (F) (MG/L)	DIS- SOLVED SILICA (SiO <sub>2</sub> ) (MG/L)	TOTAL IRON (FE) (UG/L)	DIS- SOLVED IRON (FE) (UG/L)	TOTAL MAN- GANESE (MN) (UG/L)
OCT. 31...	.13	--	--	--	10	27	.3	--	3.5	--	--	--
NOV. 27...	.16	--	--	--	11	25	.3	--	1.2	250	70	50
MAR. 25...	.09	22	71	10	6.7	16	.1	--	3.6	290	60	50
APR. 19...	.09	--	--	--	6.9	19	.3	--	3.0	--	--	--
MAY 16...	.09	--	--	--	5.8	15	.1	--	3.5	230	60	60
JUNE 26...	.15	--	--	--	9.0	24	.2	--	4.2	410	50	70
JULY 29...	.16	--	--	--	11	28	.1	--	2.7	--	--	--
AUG. 28...	.20	--	130	9	11	30	.1	.2	3.6	200	100	40
SEP. 03...	--	--	--	--	--	--	--	--	--	--	--	--
26...	.14	--	--	--	9.1	22	.2	--	2.1	350	50	60

DATE	DIS- SOLVED MAN- GANESE (MN) (UG/L)	SUS- PENDE D MAN- GANESE (UG/L)	TOTAL ARSENIC (AS) (UG/L)	DIS- SOLVED ARSENIC (AS) (UG/L)	SUS- PENDE D ARSENIC (AS) (UG/L)	DIS- SOLVED BARIUM (BA) (UG/L)	DIS- SOLVED BERYL- LIUM (BE) (UG/L)	DIS- SOLVED BISMUTH (BI) (UG/L)	DIS- SOLVED BORON (B) (UG/L)	TOTAL CAD- MIUM (CD) (UG/L)	DIS- SOLVED CAD- MIUM (CD) (UG/L)	SUS- PENDE D CAD- MIUM (CD) (UG/L)
OCT. 31...	--	--	--	--	--	--	--	--	--	--	--	--
NOV. 27...	30	--	1	1	--	--	--	--	--	1	1	--
MAR. 25...	30	--	2	--	--	--	--	--	--	2	0	--
APR. 19...	--	--	--	--	--	--	--	--	--	--	--	--
MAY 16...	10	50	4	2	2	--	--	--	--	1	0	1
JUNE 26...	10	60	<1	<1	<0	--	--	--	--	0	0	0
JULY 29...	--	--	--	--	--	--	--	--	--	--	--	--
AUG. 28...	20	20	1	0	1	--	--	--	--	0	0	0
SEP. 03...	--	--	3	2	--	--	--	--	--	2	0	--
26...	10	50	<1	2	0	27	0	0	20	1	<1	0

DATE	TOTAL CHRO- MIUM (CR) (UG/L)	DIS- SOLVED CHRO- MIUM (CR) (UG/L)	SUS- PENDE D CHRO- MIUM (CR) (UG/L)	TOTAL COBALT (CO) (UG/L)	DIS- SOLVED COBALT (CO) (UG/L)	SUS- PENDE D COBALT (CO) (UG/L)	TOTAL COPPER (CU) (UG/L)	DIS- SOLVED COPPER (CU) (UG/L)	SUS- PENDE D COPPER (CU) (UG/L)	TOTAL LEAD (PB) (UG/L)	DIS- SOLVED LEAD (PB) (UG/L)	SUS- PENDE D LEAD (PB) (UG/L)
OCT. 31...	--	--	--	--	--	--	--	--	--	--	0	--
NOV. 27...	<10	<10	--	3	2	--	10	0	--	5	1	--
MAR. 25...	10	0	--	2	0	--	10	0	--	3	2	--
APR. 19...	--	--	--	--	--	--	--	--	--	--	5	--
MAY 16...	<10	<10	<0	3	1	2	10	10	0	6	5	1
JUNE 26...	<10	0	<10	0	0	0	80	20	60	26	0	26
JULY 29...	--	--	--	--	--	--	--	--	--	--	--	--
AUG. 28...	<10	0	<10	0	0	0	20	10	10	11	3	8
SEP. 03...	<10	0	--	3	0	--	20	20	--	43	2	--
26...	0	--	0	2	0	2	40	10	0	15	3	9

## DELAWARE RIVER BASIN

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01463500 DELAWARE RIVER AT TRENTON, N. J. (MORRISVILLE, PA.)--Continued

## WATER QUALITY DATA, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DATE	DIS- SOLVED MOLYB- DENUM (MO) (UG/L)	TOTAL NICKEL (NI) (UG/L)	DIS- SOLVED NICKEL (NI) (UG/L)	DIS- SOLVED SILVER (AG) (UG/L)	DIS- SOLVED STRON- TIUM (SR) (UG/L)	DIS- SOLVED VANA- DIUM (V) (UG/L)	TOTAL ZINC (ZN) (UG/L)	DIS- SOLVED ZINC (ZN) (UG/L)	SUS- PENDED ZINC (ZN) (UG/L)	DIS- SOLVED TIN (SN) (UG/L)	DIS- SOLVED ALUM- INUM (AL) (UG/L)	DIS- SOLVED GALLIUM (GA) (UG/L)
OCT. 31...	--	--	--	--	--	--	--	--	--	--	--	--
NOV. 27...	--	--	--	--	--	--	110	40	--	--	--	--
MAR. 25...	--	--	--	--	--	--	60	60	--	--	--	--
APR. 19...	--	--	--	--	--	--	--	--	--	--	--	--
MAY 16...	--	--	--	--	--	--	40	20	20	--	--	--
JUNE 26...	--	--	--	--	--	--	70	20	50	--	--	--
JULY 29...	--	--	--	--	--	--	--	--	--	--	--	--
AUG. 28...	--	--	--	--	--	--	50	30	20	--	--	--
SEP. 03...	--	11	5	--	--	--	190	20	--	--	--	--
26...	0	--	5	0	78	<.7	70	20	50	0	60	0

DATE	DIS- SOLVED GER- MANIUM (GE) (UG/L)	DIS- SOLVED LITHIUM (LI) (UG/L)	TOTAL SELE- NIUM (SE) (UG/L)	DIS- SOLVED SELE- NIUM (SE) (UG/L)	SUS- PENDED SELE- NIUM (SE) (UG/L)	DIS- SOLVED TI- TANIUM (TI) (UG/L)	DIS- SOLVED ZIR- CONIUM (ZR) (UG/L)	TOTAL MERCURY (HG) (UG/L)	DIS- SOLVED MERCURY (HG) (UG/L)	SUS- PENDED MERCURY (HG) (UG/L)	DIS- SOLVED GROSS BETA AS CS-137 (PC/L)
OCT. 31...	--	--	--	--	--	--	--	--	--	--	--
NOV. 27...	--	--	--	--	--	--	--	<.5	<.5	--	--
MAR. 25...	--	--	2	--	--	--	--	<.5	<.5	--	2.7
APR. 19...	--	--	--	--	--	--	--	--	--	--	--
MAY 16...	--	--	0	0	0	--	--	<.5	<.5	<.0	--
JUNE 26...	--	--	2	1	1	--	--	<.5	<.5	<.0	--
JULY 29...	--	--	--	--	--	--	--	--	--	--	--
AUG. 28...	--	--	<2	<2	0	--	--	<.5	<.5	.0	3.9
SEP. 03...	--	--	--	--	--	--	--	1.0	<.5	--	--
26...	0	2	4	3	1	2	<1	.5	<.5	.0	--

DATE	SUS- PENDED GROSS BETA AS CS-137 (PC/L)	DIS- SOLVED RA-226 (RADON METHOD) (PC/L)	DIS- SOLVED URANIUM (U) (UG/L)	DIS- SOLVED GROSS ALPHA AS U-NAT. (UG/L)	SUS- PENDED GROSS ALPHA AS U-NAT. (UG/L)	DIS- SOLVED GROSS BETA AS SR90 /Y90 (PC/L)	SUS- PENDED GROSS BETA AS SR90 /Y90 (PC/L)	ALDRIN (UG/L)	ALDRIN IN BOTTOM DE- POSITS (UG/KG)	LINDANE (UG/L)	LINDANE IN BOTTOM DE- POSITS (UG/KG)
MAR. 25...	1.0	.03	.04	.7	.5	2.2	.9	--	--	--	--
MAY 16...	--	--	--	--	--	--	--	.00	.0	.00	.0
AUG. 28...	.8	.03	.08	2.2	<.4	3.1	.7	--	--	--	--

## DELAWARE RIVER BASIN

01463500 DELAWARE RIVER AT TRENTON, N. J. (MORRISVILLE, PA.)--Continued

## WATER QUALITY DATA, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DATE	CHLOR-DANE (UG/L)	CHLOR-DANE IN BOTTOM DE- POSITS (UG/KG)	DDD (UG/L)	DDD IN BOTTOM DE- POSITS (UG/KG)	DDE (UG/L)	DDE IN BOTTOM DE- POSITS (UG/KG)	DDT (UG/L)	DDT IN BOTTOM DE- POSITS (UG/KG)	DI- ELDRIN (UG/L)	DI- ELDRIN IN BOTTOM DE- POSITS (UG/KG)
MAR. 25...	--	--	--	--	--	--	--	--	--	--
MAY 16...	.0	0	.00	.4	.00	.1	.00	.6	.00	.0
AUG. 28...	--	--	--	--	--	--	--	--	--	--

DATE	ENDRIN (UG/L)	ENDRIN IN BOTTOM DE- POSITS (UG/KG)	ETHION (UG/L)	TOX- APHENE (UG/L)	TOX- APHENE IN BOTTOM DE- POSITS (UG/KG)	HEPTA- CHLOR (UG/L)	HEPTA- CHLOR IN BOTTOM DE- POSITS (UG/KG)	HEPTA- CHLOR EPOXIDE (UG/L)	HEPTA- CHLOR EPOXIDE IN BOT- TOM DE- POSITS (UG/KG)	PCB (UG/L)
MAR. 25...	--	--	--	--	--	--	--	--	--	--
MAY 16...	.00	.0	.00	0	0	.00	.0	.00	.0	.0
AUG. 28...	--	--	--	--	--	--	--	--	--	--

DATE	PCB IN BOTTOM DE- POSITS (UG/KG)	MALA- THION (UG/L)	PARA- THION (UG/L)	DI- AZINON (UG/L)	METHYL PARA- THION (UG/L)	2,4-D (UG/L)	2,4,5-T (UG/L)	SILVEX (UG/L)	TRI- THION (UG/L)	METHYL TRI- THION (UG/L)
MAR. 25...	--	--	--	--	--	--	--	--	--	--
MAY 16...	0	.00	.00	.00	.00	.01	.00	.00	.00	.00
AUG. 28...	--	--	--	--	--	--	--	--	--	--

## SUSPENDED-SEDIMENT DISCHARGE MEASUREMENTS, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DATE	TIME	TEMPER- ATURE (DEG C)	INSTAN- TANEOUS DIS- CHARGE (CFS)	SUS- PEN- DED SEDI- MENT CHARGE (MG/L)	SUS- PEN- DED SEDI- MENT DIS- CHARGE (T/DAY)	SUS. SED. FALL DIAM. % FINER THAN .004 MM	SUS. SED. FALL DIAM. % FINER THAN .008 MM
DEC. 21...	1700	3.5	70100	100	18900	39	50
MAR. 25...	1000	4.6	23000	14	869	--	--
APR. 19...	0900	11.6	25000	15	1010	--	--
MAY 16...	1030	20.0	25900	20	1400	--	--
JUNE 26...	1100	20.5	6850	11	203	--	--
JULY 29...	1000	25.5	4010	7	76	--	--
AUG. 28...	1000	25.8	4380	12	142	--	--
SEP. 04...	1030	19.0	26800	145	10500	36	55
26...	1100	17.5	6170	7	117	--	--



DELAWARE RIVER BASIN

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01463500 DELAWARE RIVER AT TRENTON, N. J. (MORRISVILLE, PA.)--Continued

SUSPENDED-SEDIMENT DISCHARGE MEASUREMENTS, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DATE	SUS. SED. FALL DIAM. % FINER THAN .016 MM	SUS. SED. FALL DIAM. % FINER THAN .031 MM	SUS. SED. FALL DIAM. % FINER THAN .062 MM	SUS. SED. FALL DIAM. % FINER THAN .125 MM	SUS. SED. FALL DIAM. % FINER THAN .250 MM	SUS. SED. FALL DIAM. % FINER THAN .500 MM	SUS. SED. FALL DIAM. % FINER THAN 1.00 MM
DEC. 21...	61	73	90	98	99	100	--
MAR. 25...	--	--	57	--	--	--	--
APR. 19...	--	--	78	--	--	--	--
MAY 16...	--	--	88	--	--	--	--
JUNE 26...	--	--	96	--	--	--	--
JULY 29...	--	--	83	--	--	--	--
AUG. 28...	--	--	100	--	--	--	--
SEP. 04...	69	80	88	95	98	99	100
26...	--	--	100	--	--	--	--

## DELAWARE RIVER BASIN

01463500 DELAWARE RIVER AT TRENTON, N. J. (MORRISVILLE, PA.)--Continued

## SUSPENDED-SEDIMENT DISCHARGE, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCTOBER			NOVEMBER			DECEMBER		
	MEAN DISCHARGE (CFS)	MEAN CONCENTRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCENTRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCENTRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)
1	5770	5	78	12300	40	1330	11300	41	1250
2	5070	5	68	10300	22	612	9520	32	823
3	5670	21	321	8470	19	435	8390	13	294
4	6200	7	117	7350	10	198	7660	5	103
5	5860	8	127	6760	6	110	8080	7	153
6	5060	7	96	6330	6	103	16400	95	4210
7	6290	13	221	5700	4	62	19400	83	4350
8	5380	5	73	5270	3	43	19800	64	3420
9	4270	2	23	5470	2	30	19900	44	2360
10	4250	12	138	5610	2	30	28000	39	2950
11	4840	4	52	5610	1	15	38000	77	7900
12	4560	3	37	5510	1	15	29300	45	3560
13	4000	2	22	5460	1	15	22900	23	1420
14	3520	2	19	5340	1	14	23400	19	1200
15	4230	9	103	5450	3	44	23600	13	828
16	4250	6	69	5430	2	29	21500	10	581
17	3850	3	31	5260	1	14	19400	9	471
18	3760	3	30	5270	1	14	17000	8	367
19	3920	3	32	5440	2	29	14700	7	278
20	3830	4	41	5370	1	14	13500	5	182
21	3760	3	30	5030	1	14	53900	530	77100
22	3800	2	21	4780	1	13	107000	915	264000
23	3730	2	20	4680	1	13	77300	240	50100
24	3850	2	21	4080	1	11	50200	33	4470
25	4110	3	33	3970	1	11	39400	16	1700
26	4140	3	34	5020	19	258	35900	26	2520
27	3780	2	20	5560	23	345	42500	42	4820
28	3660	2	20	7430	56	1120	52800	64	9120
29	4930	105	1400	9230	74	1840	54400	33	4850
30	13000	440	15400	11700	82	2590	42900	18	2080
31	15100	150	6120	--	--	--	35000	11	1040
TOTAL	158440	--	24817	189180	--	9371	963050	--	458500

DAY	JANUARY			FEBRUARY			MARCH		
	MEAN DISCHARGE (CFS)	MEAN CONCENTRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCENTRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCENTRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)
1	30100	8	650	28800	14	1090	15900	11	472
2	26900	6	436	25600	9	622	15400	9	374
3	24700	5	333	22900	5	309	14900	8	322
4	24000	5	324	20100	3	163	13900	10	375
5	20700	4	224	18200	4	197	13200	11	392
6	17600	4	190	16500	3	134	14900	11	443
7	16100	3	130	15100	2	82	18400	19	944
8	15600	3	126	14500	1	39	19000	14	718
9	16000	2	86	13700	1	37	20300	18	987
10	14300	3	116	12800	1	35	22300	17	1020
11	13600	2	73	12200	2	66	21900	17	1010
12	15600	7	295	11600	2	63	19800	12	642
13	14500	2	78	11400	2	62	18600	8	402
14	12300	1	33	11300	1	31	16600	4	179
15	10700	1	29	11100	6	180	14900	3	121
16	12200	2	66	10800	9	262	13800	4	149
17	12500	2	68	9930	9	241	18700	23	1160
18	12700	2	69	9480	8	205	22500	14	851
19	10800	1	29	9230	8	199	21100	9	513
20	11200	2	60	11600	14	438	19000	7	359
21	11600	7	219	13200	18	642	20400	110	6060
22	17200	36	1670	12300	16	531	26200	88	6230
23	21600	28	1630	18800	23	1170	29300	32	2530
24	23500	17	1080	31200	59	4970	25500	15	1030
25	22900	10	618	26400	37	2640	22900	9	556
26	21600	6	350	22800	21	1290	21000	7	397
27	20900	4	226	19500	13	684	19700	6	319
28	23500	6	381	17100	11	508	18100	5	244
29	35400	39	3730	--	--	--	16600	7	314
30	38600	39	4060	--	--	--	17000	5	230
31	33800	23	2100	--	--	--	25100	46	3120
TOTAL	602700	--	19479	458140	--	16890	596900	--	32463

## DELAWARE RIVER BASIN

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01463500 DELAWARE RIVER AT TRENTON, N. J. (MORRISVILLE, PA.)--Continued

## SUSPENDED-SEDIMENT DISCHARGE, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	APRIL			MAY			JUNE		
	MEAN DISCHARGE (CFS)	MEAN CONCEN- TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN- TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN- TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)
1	24200	23	1500	9870	8	213	8520	6	138
2	24300	15	984	10100	8	218	9770	8	211
3	26200	15	1060	11700	8	253	13000	20	702
4	31900	17	1460	12000	8	259	11700	18	569
5	40200	83	9010	11400	7	215	9830	17	451
6	44800	54	6530	11200	8	242	9300	16	402
7	43700	34	4010	11300	8	244	8410	15	341
8	36200	21	2050	11500	8	248	7840	14	296
9	37300	39	3930	11600	8	251	7230	15	293
10	37600	26	2640	13200	17	606	6330	14	239
11	32900	17	1510	12900	15	522	5690	14	215
12	28500	13	1000	13400	24	868	6070	15	246
13	27900	13	979	26700	220	15900	5890	14	223
14	27700	15	1120	40000	190	20500	5350	14	202
15	30800	68	5650	32600	70	6160	4720	13	166
16	35900	102	9890	25600	44	3040	4210	13	148
17	34400	68	6320	21700	33	1930	7880	21	447
18	29000	30	2350	19800	28	1500	10500	35	992
19	25300	16	1090	17600	26	1240	10100	27	736
20	23900	12	774	15000	29	1170	8100	24	525
21	21400	11	636	13500	33	1200	6650	21	377
22	18800	11	558	12500	32	1080	6240	14	236
23	17500	10	473	11600	27	846	6150	12	199
24	15900	10	429	11900	19	610	7830	17	359
25	14700	9	357	11100	12	360	7290	15	295
26	13800	8	298	10700	11	318	6750	14	255
27	12800	7	242	9590	11	285	6140	15	249
28	11900	5	161	8880	10	240	6240	13	219
29	11200	4	121	8480	9	206	6440	10	174
30	10700	7	202	7850	8	170	7640	10	206
31	--	--	--	7840	7	148	--	--	--
TOTAL	791400	--	67334	453110	--	61042	227810	--	10111

DAY	JULY			AUGUST			SEPTEMBER		
	MEAN DISCHARGE (CFS)	MEAN CONCEN- TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN- TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN- TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)
1	6430	10	174	9560	25	645	9230	57	1420
2	7030	10	190	8740	29	684	13500	103	3750
3	8110	10	219	8630	40	932	18400	140	6960
4	7310	9	178	6800	16	294	26400	150	10700
5	6720	8	145	6910	13	243	24900	100	6720
6	6080	9	148	6570	12	213	20400	50	2750
7	6380	9	155	5600	11	166	18200	41	2010
8	5270	8	114	4880	9	119	17600	36	1710
9	4510	7	85	4460	10	120	15600	30	1260
10	4840	15	196	5000	17	230	13600	27	991
11	5250	13	184	4270	17	196	11900	23	739
12	4880	12	158	3740	9	91	10500	23	652
13	3910	11	116	3610	7	68	9390	19	482
14	3350	9	81	3730	6	60	10400	18	505
15	3720	9	90	3810	5	51	10300	17	473
16	3620	10	98	3740	5	50	8730	15	354
17	3780	13	133	3940	6	64	7560	14	286
18	4400	13	154	10300	64	1780	7320	9	178
19	3350	10	90	7670	46	953	6830	6	111
20	2990	9	73	6790	35	642	6440	5	87
21	3770	9	92	6070	28	459	6410	5	87
22	3900	8	84	5460	22	324	6880	4	74
23	3500	7	66	5110	19	262	6270	5	85
24	3560	6	58	5370	16	232	6280	6	102
25	3680	6	60	4820	13	169	7200	5	97
26	3890	7	74	4310	9	105	6590	4	71
27	4100	7	77	4200	8	91	6050	3	49
28	4090	5	55	4570	9	111	5560	5	75
29	4030	6	65	5020	9	122	16500	360	16000
30	4400	7	83	5580	10	151	15900	95	4080
31	8740	25	590	8340	22	495	--	--	--
TOTAL	149590	--	4085	177600	--	10122	350840	--	62858

## DELAWARE RIVER BASIN

01463500 DELAWARE RIVER AT TRENTON, N. J. (MORRISVILLE, PA.)--Continued

SPECIFIC CONDUCTANCE (MICROMHOS AT 25°C), WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCTOBER			NOVEMBER			DECEMBER			JANUARY		
	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	---	---	---	---	---	---	150	136	140	---	---	---
2	---	---	---	---	---	---	136	127	135	---	---	---
3	---	---	---	---	---	---	141	135	138	---	---	---
4	191	184	---	---	---	---	146	141	142	---	---	---
5	187	180	183	---	---	---	149	142	147	---	---	---
6	183	174	180	165	163	---	---	---	---	---	---	---
7	189	172	180	170	159	166	---	---	---	---	---	---
8	173	150	165	176	170	174	127	113	117	---	---	---
9	168	153	163	181	176	179	119	113	116	---	---	---
10	179	167	172	184	179	182	128	111	119	---	---	---
11	192	175	186	180	175	177	118	96	103	---	---	---
12	184	165	179	177	171	174	102	97	100	---	---	---
13	183	163	178	172	169	171	107	102	105	---	---	---
14	195	176	185	172	169	171	120	108	114	---	---	---
15	208	196	202	176	173	175	121	118	120	---	---	---
16	207	187	196	176	174	175	119	116	117	---	---	---
17	187	175	181	176	173	175	122	116	118	---	---	---
18	190	184	186	178	173	176	128	116	123	163	160	---
19	195	182	192	175	173	174	136	127	131	168	158	163
20	198	179	191	177	170	173	161	137	143	180	168	173
21	183	150	173	---	---	---	149	104	122	183	166	174
22	177	145	157	178	174	176	129	89	99	182	150	163
23	177	163	173	180	176	178	97	89	93	181	156	163
24	173	160	168	186	179	181	114	97	105	158	142	148
25	174	158	168	190	178	186	113	106	109	142	138	139
26	169	154	162	195	185	192	110	108	---	139	136	137
27	187	160	165	193	181	187	---	---	---	139	135	138
28	196	184	191	182	167	175	---	---	---	140	137	139
29	200	191	---	173	162	165	---	---	---	136	114	120
30	---	---	---	---	---	---	---	---	---	114	102	107
31	---	---	---	---	---	---	---	---	---	108	102	105
MONTH	208	145	---	---	---	---	---	---	---	---	---	---

DAY	FEBRUARY			MARCH			APRIL			MAY		
	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	111	108	109	130	123	128	144	141	143	172	160	166
2	116	110	113	138	128	133	141	130	138	172	157	168
3	123	115	118	136	131	133	141	120	130	174	152	162
4	126	120	123	135	128	133	125	112	121	159	152	155
5	132	127	128	138	131	134	124	111	117	161	138	150
6	137	132	134	137	103	129	112	101	108	168	144	151
7	147	135	142	135	112	122	101	97	99	---	---	---
8	151	143	148	114	111	112	103	99	101	---	---	---
9	154	146	148	124	107	116	114	103	108	---	---	---
10	157	149	154	123	119	120	115	111	113	145	136	---
11	162	156	158	123	117	121	116	107	112	154	139	145
12	166	153	159	125	114	119	122	112	118	149	138	146
13	161	151	158	127	115	121	122	108	117	143	106	127
14	163	157	160	126	119	124	129	117	122	133	93	109
15	165	154	161	131	126	129	122	113	118	96	92	93
16	161	150	156	140	129	135	123	105	113	101	96	99
17	160	155	157	140	135	138	106	103	104	110	101	106
18	163	158	160	140	121	133	111	104	107	117	110	113
19	166	160	162	120	110	119	118	99	112	119	112	116
20	169	163	166	122	111	120	122	109	117	123	115	120
21	168	162	165	125	114	120	124	107	118	131	110	122
22	162	159	161	133	114	125	131	117	121	138	122	129
23	164	158	160	127	113	119	133	118	124	140	123	133
24	152	104	123	117	106	113	142	124	138	146	130	142
25	106	101	103	118	108	115	148	142	145	148	136	144
26	113	107	110	127	112	117	148	147	148	148	146	147
27	118	111	114	121	107	115	150	147	149	151	142	147
28	123	117	119	127	117	123	153	145	150	155	142	149
29	---	---	---	126	108	120	156	151	153	159	136	147
30	---	---	---	145	120	129	158	156	158	165	158	160
31	---	---	---	143	127	135	---	---	---	162	145	---
MONTH	169	101	142	145	103	124	158	97	124	174	92	136

01463500 DELAWARE RIVER AT TRENTON, N. J. (MORRISVILLE, PA.)--Continued  
SPECIFIC CONDUCTANCE (MICROMHOS AT 25°C), WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

[illegible]

DISSOLVED OXYGEN (DO), IN MILLIGRAMS PER LITER, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

[illegible]

## DELAWARE RIVER BASIN

01463500 DELAWARE RIVER AT TRENTON, N. J. (MORRISVILLE, PA.)--Continued

DISSOLVED OXYGEN (DO), IN MILLIGRAMS PER LITER, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	FEBRUARY			MARCH			APRIL			MAY		
	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	---	---	---	13.3	12.9	13.1	12.9	11.7	12.2	12.9	8.2	10.3
2	---	---	---	13.2	12.7	13.0	13.0	12.0	12.5	13.1	7.2	9.9
3	---	---	---	13.2	12.6	12.9	13.1	11.9	12.5	10.2	8.8	9.3
4	---	---	---	13.5	12.6	13.0	12.8	11.0	11.7	12.4	8.6	10.5
5	---	---	---	13.0	11.1	12.2	11.2	10.7	10.9	12.7	9.4	11.0
6	---	---	---	12.6	11.2	11.9	11.1	10.7	10.9	11.6	9.7	10.5
7	---	---	---	13.0	11.7	12.2	11.5	10.6	11.2	13.5	9.6	11.2
8	---	---	---	12.9	11.9	12.2	11.9	11.1	11.6	14.5	10.7	12.5
9	---	---	---	12.9	12.1	12.4	11.7	11.2	11.6	13.7	10.4	12.3
10	---	---	---	13.0	12.4	12.6	12.3	11.1	11.8	11.6	10.6	11.2
11	---	---	---	13.4	12.8	13.0	12.8	12.1	12.5	13.0	10.9	11.8
12	---	---	---	13.8	12.4	13.0	12.7	11.9	12.4	12.3	10.6	11.3
13	---	---	---	14.5	13.0	13.7	12.1	11.6	11.9	10.7	9.9	10.3
14	---	---	---	14.2	12.9	13.5	11.8	11.3	11.6	11.8	9.5	10.6
15	---	---	---	14.4	12.6	13.6	12.0	11.1	11.5	10.3	9.7	10.0
16	---	---	---	13.3	12.2	12.8	12.0	11.5	11.8	10.0	8.9	9.6
17	---	---	---	13.2	12.2	12.7	12.1	11.7	11.9	9.4	8.7	9.0
18	---	---	---	13.4	12.3	12.7	12.2	11.5	11.9	9.2	8.2	8.6
19	---	---	---	13.3	12.4	12.7	11.7	11.1	11.4	9.1	8.2	8.7
20	---	---	---	13.2	12.2	12.7	12.1	11.1	11.6	9.8	8.4	9.1
21	---	---	---	13.4	11.4	12.2	12.1	11.1	11.6	10.0	8.8	9.3
22	12.9	12.4	---	12.2	11.6	11.9	11.5	10.7	11.1	10.6	8.0	9.5
23	12.4	12.1	12.3	13.7	11.9	13.0	10.8	9.7	10.2	9.9	8.4	9.1
24	13.5	12.0	12.8	13.2	12.3	12.8	10.3	9.3	9.8	10.0	8.3	9.0
25	14.1	13.0	13.4	14.0	13.1	13.5	12.0	9.5	10.9	9.7	7.8	8.8
26	14.3	12.8	13.6	13.6	11.9	12.9	12.8	11.2	11.9	9.0	6.9	8.2
27	14.4	13.2	13.7	12.0	11.4	11.7	13.3	10.8	12.0	9.1	6.7	7.9
28	13.8	13.4	13.6	12.6	11.4	12.0	13.1	10.6	11.7	10.8	8.4	9.6
29	---	---	---	12.2	11.2	11.6	12.7	10.1	11.3	10.3	9.0	9.5
30	---	---	---	12.5	11.2	11.9	12.5	9.3	10.5	11.5	8.9	10.0
31	---	---	---	12.5	11.6	12.2	---	---	---	11.2	8.7	9.8
MONTH	---	---	---	14.5	11.1	12.6	13.3	9.3	11.5	14.5	6.7	9.9

DAY	JUNE			JULY			AUGUST			SEPTEMBER		
	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	10.5	8.3	9.3	11.3	8.4	9.7	11.6	7.1	9.1	---	---	---
2	8.8	7.6	8.4	11.8	9.5	10.4	12.0	8.6	10.1	---	---	---
3	9.5	7.6	8.5	12.9	8.8	10.8	10.7	9.0	9.8	---	---	---
4	10.0	8.0	8.8	13.6	8.9	11.1	12.9	8.9	10.5	---	---	---
5	10.4	6.8	8.7	12.4	7.1	9.9	13.4	9.2	11.1	---	---	---
6	11.1	7.3	9.1	12.6	6.4	9.4	11.5	8.1	10.0	---	---	---
7	8.4	6.8	7.5	15.7	9.9	12.6	9.1	6.4	7.7	---	---	---
8	---	---	---	16.2	10.5	13.4	11.8	6.8	9.2	---	---	---
9	---	---	---	17.3	10.8	13.8	12.6	7.0	8.9	---	---	---
10	15.0	10.6	13.4	16.1	11.0	13.4	13.1	6.5	9.3	---	---	---
11	15.2	8.4	11.5	13.9	10.2	---	10.9	7.4	8.4	---	---	---
12	12.4	8.1	10.1	12.4	7.2	9.9	---	---	---	---	---	---
13	14.3	8.2	11.0	13.4	7.4	9.9	11.7	7.7	10.2	---	---	---
14	15.4	8.5	12.0	13.8	6.3	9.6	12.6	8.1	10.0	---	---	---
15	15.7	9.0	12.3	---	---	---	13.6	8.3	---	---	---	---
16	13.8	8.9	11.0	13.7	10.1	12.7	11.2	8.2	---	---	---	---
17	9.8	6.5	8.5	14.2	7.6	10.7	---	---	---	---	---	---
18	7.0	6.0	6.5	13.3	7.4	9.8	---	---	---	---	---	---
19	7.0	5.9	6.5	13.5	5.3	8.9	---	---	---	---	---	---
20	7.2	6.3	6.8	12.5	7.2	9.7	---	---	---	12.3	9.2	---
21	8.7	7.1	7.7	13.7	7.5	10.4	---	---	---	11.3	8.6	9.1
22	10.0	7.7	8.7	12.7	8.1	10.4	---	---	---	12.2	9.0	10.5
23	8.9	8.1	8.4	9.4	5.4	7.7	---	---	---	12.9	9.7	11.1
24	9.6	8.6	---	7.1	5.8	6.1	---	---	---	13.3	10.6	11.7
25	---	---	---	8.6	5.6	7.0	---	---	---	12.9	10.7	11.7
26	11.5	8.1	---	8.3	5.4	6.8	---	---	---	13.3	11.0	11.8
27	11.1	6.7	9.4	8.3	5.5	6.6	---	---	---	13.4	10.5	11.9
28	8.5	7.0	7.7	8.4	5.5	6.7	---	---	---	13.3	10.8	11.9
29	9.9	7.7	8.7	9.8	6.0	7.5	---	---	---	10.7	9.6	10.1
30	10.1	8.1	8.9	11.8	6.8	8.9	---	---	---	10.5	9.6	10.0
31	---	---	---	9.8	7.3	7.7	---	---	---	---	---	---
MONTH	15.7	5.9	9.2	17.3	5.3	9.7	---	---	---	---	---	---



## DELAWARE RIVER BASIN

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01463500 DELAWARE RIVER AT TRENTON, N. J. (MORRISVILLE, PA.)--Continued

TEMPERATURE (°C) OF WATER, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCTOBER			NOVEMBER			DECEMBER			JANUARY		
	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	20.0	18.0	19.0	---	---	---	8.5	7.0	7.5	---	---	---
2	19.5	18.5	19.0	---	---	---	7.0	6.0	6.5	---	---	---
3	21.0	19.0	19.5	---	---	---	6.5	5.5	6.0	---	---	---
4	21.0	19.0	20.0	---	---	---	6.5	5.5	6.0	---	---	---
5	21.0	19.5	20.0	---	---	---	8.5	6.5	7.5	---	---	---
6	20.5	18.0	19.0	9.5	8.5	---	9.5	8.5	9.0	---	---	---
7	19.0	18.0	18.5	9.0	8.0	8.5	9.0	8.0	8.5	---	---	---
8	20.0	18.0	18.5	8.5	7.5	8.0	8.0	6.5	7.0	---	---	---
9	19.5	17.5	18.5	8.5	7.5	8.0	7.0	6.5	6.5	---	---	---
10	20.5	18.0	19.0	8.0	6.5	7.0	7.0	6.0	6.5	---	---	---
11	19.0	17.0	18.0	7.5	6.0	6.5	6.0	5.0	5.5	---	---	---
12	19.0	16.5	17.5	7.5	6.5	7.0	5.0	5.0	5.0	---	---	---
13	19.0	16.5	17.5	8.0	7.0	7.5	5.0	4.5	4.5	---	---	---
14	19.0	17.0	17.5	9.0	7.5	8.5	5.0	4.5	5.0	---	---	---
15	18.0	16.0	17.0	10.5	8.5	9.5	4.5	4.0	4.5	---	---	---
16	17.5	15.5	16.5	11.0	9.5	10.5	4.5	3.5	4.0	---	---	---
17	16.0	14.0	15.0	9.5	8.0	8.5	3.5	1.5	2.5	---	---	---
18	14.0	13.5	14.0	8.5	7.5	8.0	1.5	0.5	1.0	1.5	1.5	---
19	14.5	12.0	13.5	9.0	8.0	8.5	0.5	0.0	0.5	2.0	1.0	1.5
20	14.5	12.5	13.5	8.5	7.0	7.5	2.5	0.5	1.0	2.0	1.5	1.5
21	15.5	12.5	13.5	8.0	6.5	7.5	3.5	2.5	3.0	2.5	2.0	2.0
22	15.5	12.5	14.0	9.5	7.5	8.5	3.0	1.0	2.5	3.0	2.0	2.5
23	15.0	12.5	13.5	9.5	7.5	8.5	3.0	2.0	2.5	3.5	2.5	3.0
24	15.5	12.5	14.0	9.5	8.5	9.0	4.0	3.0	3.5	3.5	3.0	3.5
25	15.0	13.0	14.0	10.5	9.0	9.5	3.5	2.5	3.0	4.0	3.0	3.5
26	16.0	13.5	14.5	10.0	9.5	9.5	3.5	3.0	---	3.5	3.0	3.5
27	15.5	13.5	14.5	10.0	9.5	9.5	---	---	---	5.0	3.0	4.5
28	14.0	12.5	13.5	11.0	9.5	10.5	---	---	---	5.0	4.5	5.0
29	13.0	12.5	---	10.5	9.0	9.5	---	---	---	5.5	4.5	5.0
30	---	---	---	9.0	8.5	8.5	---	---	---	4.5	4.0	4.0
31	---	---	---	---	---	---	---	---	---	5.0	4.0	4.5
MONTH	21.0	12.0	16.5	11.0	6.0	8.5	9.5	0.0	5.0	---	---	---

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



## DELAWARE RIVER BASIN

01463500 DELAWARE RIVER AT TRENTON, N. J. (MORRISVILLE, PA.)--Continued

TEMPERATURE (°C) OF WATER, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

JUNE			JULY			AUGUST			SEPTEMBER			
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	20.0	19.0	19.5	25.0	22.5	23.5	28.0	25.5	26.5	---	---	---
2	19.5	19.0	19.5	26.0	23.5	24.5	28.5	23.5	25.5	---	---	---
3	20.5	18.0	19.0	26.5	25.0	25.5	25.5	22.5	24.5	23.0	22.0	---
4	21.5	19.0	20.0	29.0	26.0	27.5	27.0	25.0	24.5	22.0	19.5	20.5
5	22.5	20.0	21.5	28.0	27.0	27.5	26.5	24.0	25.5	19.5	18.5	19.0
6	23.5	21.0	22.0	29.0	26.5	27.5	26.5	24.0	26.5	19.0	18.0	18.5
7	22.5	21.5	---	30.0	27.0	28.5	26.5	25.0	25.5	18.0	17.5	18.0
8	---	---	---	31.0	27.5	29.0	26.0	24.0	25.0	19.0	17.5	18.5
9	---	---	---	32.0	28.0	30.0	27.0	24.5	25.5	20.0	18.5	19.0
10	---	---	---	32.0	29.0	30.5	27.0	25.0	26.0	21.0	19.5	20.0
11	27.0	25.0	25.5	30.0	27.0	29.0	27.5	24.5	25.5	21.5	20.5	21.0
12	25.5	24.0	24.5	28.0	25.0	26.5	28.0	23.5	26.0	22.5	21.0	21.5
13	25.5	23.0	24.0	28.5	24.5	26.5	27.5	24.5	26.0	24.5	22.0	23.0
14	26.0	22.5	24.0	29.5	25.0	26.5	28.0	25.0	26.5	23.5	22.0	23.0
15	25.5	22.5	24.0	29.0	27.0	27.5	29.0	24.5	26.5	22.0	21.0	21.5
16	25.0	23.0	23.5	---	---	---	29.0	25.5	27.0	22.0	20.5	21.0
17	24.5	22.5	23.5	29.0	25.0	27.0	27.5	26.0	26.5	21.5	20.0	20.5
18	24.5	23.0	23.5	28.5	26.0	27.0	---	---	---	22.0	20.0	21.0
19	24.5	22.5	23.5	29.5	26.0	27.5	---	---	---	22.0	20.0	21.0
20	25.0	23.0	24.0	28.5	24.5	26.5	---	---	---	23.0	20.5	21.0
21	25.5	24.0	24.5	28.5	24.5	26.0	---	---	---	23.0	21.0	22.0
22	26.5	23.5	25.0	29.0	24.5	26.5	---	---	---	21.5	19.5	20.5
23	25.0	23.0	24.0	26.5	23.5	25.5	---	---	---	19.5	17.5	19.0
24	23.5	22.5	23.0	24.5	22.5	23.5	---	---	---	18.0	16.0	17.0
25	---	---	---	24.5	21.5	23.0	---	---	---	17.0	16.0	16.5
26	22.0	21.5	---	24.5	22.0	23.0	---	---	---	17.0	15.5	16.0
27	22.0	21.0	21.5	26.5	22.5	24.0	---	---	---	18.5	15.5	17.0
28	21.0	20.0	20.5	27.5	24.0	25.5	---	---	---	18.5	17.0	17.5
29	22.0	20.0	21.0	28.5	24.5	26.0	---	---	---	19.0	18.0	18.5
30	23.5	21.0	22.5	28.5	24.0	26.5	---	---	---	18.5	17.0	17.5
31	---	---	---	27.5	25.5	26.5	---	---	---	---	---	---
MONTH	27.0	18.0	22.5	32.0	21.5	26.5	---	---	---	24.5	15.5	19.5

PH (UNITS), WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

[illegible]

DELAWARE RIVER BASIN

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DELAWARE RIVER AT TRENTON, N. J. (MORRISVILLE, PA.)--Continued  
pH (UNITS), WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	FEBRUARY			MARCH			APRIL			MAY		
	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	7.4	7.2	7.4	7.4	7.2	7.3	7.4	7.1	7.2	9.8	7.1	8.8
2	7.4	7.2	7.4	7.4	7.2	7.3	7.2	7.0	7.1	9.9	8.7	9.4
3	7.3	7.2	7.2	7.3	7.2	7.2	7.1	7.0	---	9.2	7.6	8.3
4	7.3	7.2	7.3	7.2	6.7	7.0	---	---	---	9.7	7.5	8.7
5	7.5	7.3	7.4	8.3	6.7	---	---	---	---	9.7	8.2	9.0
6	7.4	7.3	7.4	---	---	---	---	---	---	9.2	8.0	8.7
7	7.4	7.3	7.3	---	---	---	7.5	6.7	7.1	8.7	7.8	8.3
8	7.4	7.3	7.4	---	---	---	7.4	7.1	7.2	8.7	7.4	8.3
9	7.5	7.3	7.4	---	---	---	7.5	7.3	7.3	8.7	6.6	7.9
10	7.6	7.4	7.5	---	---	---	---	---	7.4	6.7	6.1	6.3
11	7.6	7.5	7.5	---	---	---	7.8	7.4	7.6	7.8	6.8	7.3
12	7.6	7.5	7.5	---	---	---	7.7	7.1	---	7.2	6.6	6.9
13	7.6	7.4	7.5	7.7	7.5	---	---	---	---	6.9	6.5	6.7
14	7.6	7.4	7.5	7.7	7.4	7.6	---	---	---	6.9	6.5	6.6
15	7.8	7.5	7.6	7.8	7.4	7.6	---	---	---	6.6	5.8	6.3
16	7.7	7.6	7.7	7.6	7.0	7.3	7.9	7.5	7.8	7.3	5.8	6.7
17	7.8	7.5	7.7	7.6	7.0	7.3	7.9	7.6	7.8	7.5	5.7	6.8
18	7.6	7.7	7.8	7.6	7.4	7.5	8.2	7.6	7.9	7.3	5.8	6.8
19	7.7	7.3	7.6	7.6	7.3	7.4	8.0	7.7	7.9	7.1	6.6	6.8
20	7.6	7.1	7.3	7.6	7.2	7.4	8.1	7.6	7.9	7.3	6.8	7.0
21	7.6	7.4	7.5	7.4	7.0	7.2	8.2	7.9	8.0	7.5	6.8	7.1
22	7.4	6.9	7.1	7.3	7.0	7.1	8.0	7.7	---	8.3	6.7	7.5
23	7.5	7.3	7.4	7.3	6.9	7.2	---	---	---	8.0	7.0	7.6
24	7.3	7.0	7.2	7.3	6.8	7.0	8.3	7.0	7.6	9.0	6.9	8.0
25	7.1	6.9	7.0	7.7	7.3	7.4	8.3	7.7	8.0	8.3	7.0	7.8
26	7.3	7.1	7.2	7.5	7.3	7.4	8.4	7.9	8.2	8.4	7.5	7.9
27	7.4	7.3	7.4	7.6	7.2	7.5	8.5	7.6	8.3	8.7	7.5	8.1
28	7.4	7.3	7.4	7.5	7.3	7.4	8.7	7.3	8.5	8.7	7.6	8.2
29	---	---	---	7.4	7.1	7.3	9.1	7.7	---	8.8	7.8	8.3
30	---	---	---	7.3	6.9	7.0	---	---	---	---	---	---
31	---	---	---	---	---	---	---	---	---	---	---	---
MONTH	7.8	6.9	7.4	---	---	---	---	---	---	9.9	5.7	7.7

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



## DELAWARE RIVER BASIN

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01464000 ASSUNPINK CREEK AT TRENTON, N. J.--Continued

## WATER QUALITY DATA, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DATE	BICARBONATE (HCO <sub>3</sub> ) (MG/L)	CARBON DIOXIDE (CO <sub>2</sub> ) (MG/L)	DIS- SOLVED CHLORIDE (CL) (MG/L)	DIS- SOLVED SULFATE (SO <sub>4</sub> ) (MG/L)	TOTAL FLUORIDE (F) (MG/L)	DIS- SOLVED SILICA (SiO <sub>2</sub> ) (MG/L)	DIS- SOLVED SOLIDS (RESIDUE AT 180 C) (MG/L)	DIS- SOLVED SOLIDS (TONS PER AC-FT)	TOTAL IRON (FE) (UG/L)	DIS- SOLVED IRON (FE) (UG/L)	TOTAL MANGANESE (MN) (UG/L)	DIS- SOLVED MANGANESE (MN) (UG/L)
NOV.												
28...	--	--	--	--	--	--	--	--	--	--	--	--
JAN.												
22...	--	--	--	--	--	--	--	--	--	--	--	--
FEB.												
12...	--	--	--	--	--	--	--	--	--	--	--	--
MAR.												
01...	--	--	--	--	--	--	--	--	--	--	--	--
APR.												
01...	--	--	--	--	--	--	--	--	--	--	--	--
17...	--	--	--	--	--	--	--	--	--	--	--	--
MAY												
16...	--	--	--	--	--	--	--	--	--	--	--	--
JUNE												
20...	--	--	--	--	--	--	--	--	--	--	--	--
JULY												
11...	--	--	--	--	--	--	--	--	--	--	--	--
11...	--	--	--	--	--	--	--	--	--	--	--	--
30...	--	--	--	--	--	--	--	--	--	--	--	--
AUG.												
07...	--	--	--	--	--	--	--	--	--	--	--	--
07...	--	--	--	--	--	--	--	--	--	--	--	--
10...	--	--	--	--	--	--	--	--	--	--	--	--
10...	--	--	--	--	--	--	--	--	--	--	--	--
12...	--	--	--	--	--	--	--	--	--	--	--	--
22...	--	--	--	--	--	--	--	--	--	--	--	--
23...	--	--	--	--	--	--	--	--	--	--	--	--
27...	--	--	--	--	--	--	--	--	--	--	--	--
SEP.												
04...	--	--	--	--	--	--	--	--	--	--	--	--
04...	--	--	--	--	--	--	--	--	--	--	--	--
04...	--	--	--	--	--	--	--	--	--	--	--	--
04...	--	--	--	--	--	--	--	--	--	--	--	--
26...	65	10	27	35	.5	9.6	192	.26	1400	210	230	160
27...	--	--	--	--	--	--	--	--	--	--	--	--

DATE	DIS- SOLVED ARSENIC (AS) (UG/L)	DIS- SOLVED BARIUM (BA) (UG/L)	DIS- SOLVED BERYL- LIUM (BE) (UG/L)	DIS- SOLVED BISMUTH (BI) (UG/L)	DIS- SOLVED BORON (B) (UG/L)	DIS- SOLVED CAD- MIUM (CD) (UG/L)	DIS- SOLVED CHRO- MIUM (CR) (UG/L)	DIS- SOLVED COBALT (CO) (UG/L)
SEP.								
26...	<1	70	0	<2	120	<3	2	<2

DATE	DIS- SOLVED COPPER (CU) (UG/L)	DIS- SOLVED LEAD (PB) (UG/L)	DIS- SOLVED MOLYB- DENUM (MO) (UG/L)	DIS- SOLVED NICKEL (NI) (UG/L)	DIS- SOLVED SILVER (AG) (UG/L)	DIS- SOLVED STRON- TIUM (SR) (UG/L)	DIS- SOLVED VANA- DIUM (V) (UG/L)	DIS- SOLVED ZINC (ZN) (UG/L)	DIS- SOLVED TIN (SN) (UG/L)
SEP.									
26...	15	4	0	10	0	120	<2.0	70	<2

DATE	DIS- SOLVED ALUM- INIUM (AL) (UG/L)	DIS- SOLVED GALLIUM (GA) (UG/L)	DIS- SOLVED GER- MANIUM (GE) (UG/L)	DIS- SOLVED LITHIUM (LI) (UG/L)	DIS- SOLVED SELE- NIUM (SE) (UG/L)	DIS- SOLVED TI- TANIUM (TI) (UG/L)	DIS- SOLVED ZIR- CONIUM (ZR) (UG/L)	DIS- SOLVED MERCURY (HG) (UG/L)
SEP.								
26...	35	0	<2	3	<2	<2	<2	<.5

## DELAWARE RIVER BASIN

01464000 ASSUNPINK CREEK AT TRENTON, N. J.--Continued

## SUSPENDED-SEDIMENT DISCHARGE MEASUREMENTS, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DATE	TIME	TEMPER- ATURE (DEG C)	INSTAN- TANEOUS DIS- CHARGE (CFS)	SUS- PEN- DED SEDI- MENT (MG/L)	SUS- PEN- DED SEDI- MENT DIS- CHARGE (T/DAY)
JAN.					
22...	0830	3.2	491	91	121
MAR.					
01...	0830	7.0	163	16	7.0
APR.					
01...	1000	6.5	467	28	35
JULY					
11...	1300	25.5	52	11	1.5
30...	1000	25.5	61	10	1.6
AUG.					
07...	1245	24.0	125	25	8.4
07...	1505	24.5	183	53	26
10...	1345	21.5	285	131	101
10...	1600	22.5	263	109	77
12...	1030	22.3	78	27	5.7
22...	1220	26.0	47	11	1.4
23...	0840	24.5	174	42	20
SEP.					
04...	0745	20.6	506	93	127
04...	0900	20.0	491	81	107
04...	1330	20.0	401	63	68
04...	1600	20.0	368	54	54
27...	0750	18.0	57	11	1.7

## 01464040 DELAWARE RIVER AT MARINE TERMINAL, TRENTON, N. J.

LOCATION.--Lat 40°11'21", long 74°45'22", Mercer County, on left bank at downstream end of wharf at Marine Terminal, Trenton, 1.6 mi (2.6 km) downstream from toll bridge on U.S. Highway 1, 2.0 mi (3.2 km) downstream from Assumpink Creek, and at mile 131.80 (212 km) upstream from Atlantic Ocean.

DRAINAGE AREA.--6,870 mi<sup>2</sup> (17,793 km<sup>2</sup>).

PERIOD OF RECORD.--Water temperatures: October 1972 to September 1974.

## EXTREMES.--1973-74:

Specific conductance: Maximum, 591 micromhos July 25; minimum, 106 micromhos Dec. 22, 23.

Water temperatures: Maximum, 30.0°C Aug. 29, 30; minimum, freezing point on many days during winter months.

## Period of record:

Specific conductance: Maximum, 722 micromhos Aug. 24, 1973; minimum, 90 micromhos Apr. 5, 1973.

Water temperatures: Maximum, 32.5°C Sept. 4, 1972; minimum, freezing point on many days during winter months.

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

## SPECIFIC CONDUCTANCE (MICROMHOS AT 25°C), WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

OCTOBER				NOVEMBER			DECEMBER			JANUARY		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	---	---	---	210	166	185	166	143	153	133	128	131
2	---	---	---	237	160	180	170	139	149	142	130	135
3	---	---	---	217	165	186	168	139	150	145	134	139
4	294	178	---	228	169	187	162	143	154	146	135	142
5	269	173	203	228	172	193	191	149	165	153	140	146
6	233	172	187	209	171	188	195	154	172	151	143	146
7	246	171	192	223	177	189	168	148	159	154	146	150
8	287	169	188	232	182	192	156	132	141	161	151	155
9	331	161	205	230	185	205	149	131	142	159	146	154
10	371	173	207	204	180	192	156	134	141	161	148	152
11	285	189	210	194	175	181	139	121	131	175	149	162
12	228	181	195	221	178	187	131	117	123	165	158	162
13	301	179	198	242	175	194	142	120	131	165	155	161
14	258	193	207	209	171	185	142	130	135	161	153	157
15	354	197	230	255	175	197	139	131	134	166	155	161
16	271	196	217	236	173	201	135	129	131	175	164	169
17	298	184	212	228	174	194	137	128	133	165	159	163
18	208	188	196	202	169	180	133	127	130	164	159	162
19	367	191	230	210	169	187	137	130	134	170	156	163
20	356	197	232	186	166	174	164	138	146	170	161	166
21	316	204	213	194	141	160	184	133	145	182	166	171
22	256	197	212	190	167	176	138	106	117	181	158	165
23	236	197	209	215	164	182	116	106	112	175	161	166
24	341	197	235	211	173	189	132	116	123	164	153	159
25	350	197	222	219	173	184	132	121	127	164	151	156
26	285	194	212	196	175	182	141	128	133	159	149	153
27	233	186	200	221	178	192	147	128	138	161	151	156
28	200	184	191	245	174	193	141	124	135	171	151	158
29	232	179	202	186	163	173	128	119	123	154	140	145
30	223	163	185	185	158	171	128	119	122	142	135	139
31	223	177	196	---	---	---	142	123	131	143	132	137
MONTH	371	161	207	255	141	186	195	106	137	182	128	154

FEBRUARY				MARCH			APRIL			MAY		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	149	132	139	147	135	141	145	135	140	---	---	---
2	145	138	142	154	142	147	146	133	139	---	---	---
3	142	137	140	153	140	146	145	125	136	---	---	---
4	144	139	141	162	141	148	137	124	131	---	---	---
5	144	138	141	161	143	150	138	114	126	---	---	---
6	150	141	146	167	143	152	137	111	119	---	---	---
7	162	146	154	155	132	145	136	110	119	---	---	---
8	158	148	153	156	130	135	140	118	125	---	---	---
9	163	150	156	148	132	136	170	120	140	---	---	---
10	159	151	155	150	134	139	152	119	127	---	---	---
11	165	154	159	147	136	141	164	115	129	---	---	---
12	165	155	160	145	136	139	151	132	143	---	---	---
13	170	159	164	141	133	136	145	117	129	---	---	---
14	169	161	165	146	136	140	140	118	126	---	---	---
15	169	158	163	151	137	144	125	117	121	---	---	---
16	166	158	162	180	147	157	130	114	123	154	122	137
17	165	156	161	159	142	150	176	127	149	151	128	140
18	169	156	162	153	141	147	252	135	193	149	130	138
19	169	163	166	146	136	140	231	124	177	153	135	142
20	174	163	168	146	136	141	184	120	143	185	137	156
21	175	167	172	153	140	145	152	127	138	173	147	157
22	171	161	166	159	140	149	147	126	138	179	148	160
23	174	158	166	155	141	147	163	134	145	184	155	166
24	161	129	143	156	140	148	146	129	136	185	159	171
25	132	123	128	148	133	141	150	134	143	182	159	167
26	137	125	131	133	122	126	171	132	147	180	162	169
27	145	129	136	139	118	126	179	137	151	194	166	175
28	147	131	138	138	125	129	178	142	153	227	169	198
29	---	---	---	132	124	127	178	153	169	226	170	188
30	---	---	---	139	126	132	---	---	---	265	174	202
31	---	---	---	137	128	133	---	---	---	248	187	204
MONTH	175	123	153	180	118	141	252	110	140	---	---	---



## DELAWARE RIVER BASIN

01464040 DELAWARE RIVER AT MARINE TERMINAL, TRENTON, N. J.--Continued  
 SPECIFIC CONDUCTANCE (MICROMHOS AT 25°C), WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	JUNE			JULY			AUGUST			SEPTEMBER		
	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	230	184	202	305	192	216	213	171	191	226	201	213
2	215	186	196	424	202	230	226	163	183	219	171	187
3	242	172	203	281	214	226	263	134	170	213	161	176
4	195	154	172	224	194	206	204	169	186	189	159	171
5	208	158	177	213	192	203	278	189	208	183	160	171
6	214	169	182	208	187	197	238	195	210	168	153	160
7	210	172	186	211	189	200	256	199	213	182	159	171
8	206	177	187	217	197	---	415	197	237	186	168	175
9	237	179	198	---	---	---	322	200	234	195	172	181
10	213	182	195	---	---	---	234	193	209	245	172	191
11	216	189	199	---	---	---	406	209	260	204	177	189
12	234	202	212	---	---	---	292	229	245	245	182	205
13	239	204	222	---	---	---	350	233	255	351	194	230
14	243	204	218	---	---	---	445	226	275	248	202	215
15	234	211	222	---	---	---	296	219	251	250	206	224
16	240	212	227	311	239	---	267	224	234	258	211	231
17	348	231	254	291	203	246	267	226	235	287	219	238
18	265	208	232	265	224	237	263	206	233	331	218	244
19	237	185	201	318	215	237	388	216	236	295	218	240
20	207	160	187	249	211	226	495	205	250	286	213	239
21	225	187	202	295	225	249	242	195	215	295	218	239
22	245	197	211	303	212	256	347	211	236	258	216	233
23	233	204	216	304	231	247	302	208	229	407	215	249
24	278	208	226	267	226	241	306	211	234	277	214	235
25	248	196	218	591	228	293	291	221	236	280	209	226
26	263	195	219	390	229	268	345	223	240	352	203	235
27	266	200	221	407	234	283	468	214	267	311	199	218
28	289	214	230	317	226	244	387	219	249	266	199	221
29	308	217	245	381	217	243	257	216	229	224	170	197
30	278	208	220	265	219	233	257	215	230	221	200	209
31	---	---	---	243	209	221	233	213	226	---	---	---
MONTH	348	154	209	---	---	---	495	134	229	407	153	210

TEMPERATURE (°C) OF WATER, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

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



## DELAWARE RIVER BASIN

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01464040 DELAWARE RIVER AT MARINE TERMINAL, TRENTON, N. J.--Continued

TEMPERATURE (°C) OF WATER, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

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

DAY	JUNE			JULY			AUGUST			SEPTEMBER		
	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	---	---	---	---	---	---	---	---	---	28.0	26.5	27.0
2	---	---	---	---	---	---	---	---	---	26.5	24.5	25.5
3	---	---	---	---	---	---	---	---	---	25.0	23.0	24.5
4	---	---	---	---	---	---	---	---	---	24.0	21.0	22.5
5	---	---	---	---	---	---	---	---	---	21.0	20.0	20.5
6	---	---	---	---	---	---	26.0	24.0	25.5	21.0	19.5	20.0
7	---	---	---	---	---	---	25.5	24.0	25.0	19.5	19.0	19.5
8	---	---	---	---	---	---	25.0	23.0	24.0	20.5	19.0	19.5
9	---	---	---	---	---	---	25.0	24.0	24.0	21.5	19.5	20.5
10	---	---	---	---	---	---	25.5	22.5	24.0	22.5	20.5	21.5
11	---	---	---	---	---	---	25.5	23.5	24.5	22.5	21.0	22.0
12	---	---	---	---	---	---	25.5	23.5	24.5	23.5	21.5	22.5
13	---	---	---	---	---	---	26.0	24.0	25.0	25.0	22.5	23.5
14	---	---	---	---	---	---	27.5	24.5	25.5	24.5	22.5	23.5
15	---	---	---	---	---	---	28.0	25.0	26.0	23.0	21.0	22.0
16	---	---	---	---	---	---	28.0	25.0	26.5	22.5	21.0	21.5
17	---	---	---	---	---	---	28.0	25.5	26.0	21.5	20.5	21.0
18	---	---	---	---	---	---	26.0	24.5	25.0	22.0	19.5	20.5
19	---	---	---	---	---	---	25.5	24.0	24.5	21.5	20.0	20.5
20	---	---	---	---	---	---	28.5	26.0	27.0	22.5	20.5	21.5
21	---	---	---	---	---	---	28.0	26.0	27.0	22.5	21.0	22.0
22	---	---	---	---	---	---	27.0	26.0	26.5	21.5	20.0	21.0
23	---	---	---	---	---	---	27.5	25.5	26.5	20.0	18.0	19.0
24	---	---	---	---	---	---	29.5	26.5	27.5	18.0	16.0	17.0
25	---	---	---	---	---	---	29.5	26.5	28.0	17.5	15.5	16.0
26	---	---	---	---	---	---	28.5	26.5	27.0	18.0	15.5	16.5
27	---	---	---	---	---	---	28.5	25.5	27.0	18.5	15.5	16.5
28	---	---	---	---	---	---	29.0	26.5	27.5	18.0	16.5	17.5
29	---	---	---	---	---	---	30.0	27.0	28.5	19.5	18.0	18.5
30	---	---	---	---	---	---	30.0	27.5	28.5	18.5	16.0	17.5
31	---	---	---	---	---	---	28.5	27.0	27.5	---	---	---
MONTH	---	---	---	---	---	---	30.0	22.5	26.0	28.0	15.5	20.5

## DELAWARE RIVER BASIN

01464500 CROSSWICKS CREEK AT EXTONVILLE, N. J.

LOCATION.--40°08'15", long 74°36'02", Mercer County, at bridge at gaging station at 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 mi<sup>2</sup> (217 km<sup>2</sup>).

PERIOD OF RECORD.--Chemical analyses: Water years 1965-72 (partial-record station), October 1972 to September 1974.

Water temperatures: October 1966 to June 1970.

Sediment records: February 1965 to June 1970.

REMARKS.--Miscellaneous storm sediment samples collected during water years 1971-73.

## WATER QUALITY DATA, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	ELEV. OF LAND SURFACE DATUM (FT. ABOVE MSL)	TEMPERATURE (DEG C)	SPECIFIC CONDUCTANCE (MICRO-MHOS)	PH (UNITS)	DISSOLVED OXYGEN (MG/L)	BIO-CHEMICAL OXYGEN DEMAND 5 DAY (MG/L)	TURBIDITY (JTU)	COLOR (PLATINUM-COBALT UNITS)	TOTAL NITRITE (N) (MG/L)	TOTAL NITRATE (N) (MG/L)
DEC. 04...	1645	66	24	6.0	135	6.4	11.0	2.0	--	--	.07	1.0
FEB. 14...	1430	180	24	4.3	143	6.6	12.4	3.3	--	--	.02	.98
APR. 18...	1430	145	24	14.6	124	7.6	9.2	1.4	--	--	--	--
MAY 21...	0800	77	24	16.6	128	8.1	7.6	3.1	--	--	.05	1.2
JUNE 21...	0930	57	24	21.0	149	6.6	6.0	2.1	--	--	--	--
JULY 18...	1530	37	24	22.4	154	8.9	6.2	2.0	--	--	--	--
AUG. 20...	1520	66	24	--	136	8.4	7.0	1.1	--	--	--	--
SEP. 12...	1400	E68	24	22.4	125	6.3	8.4	1.9	10	20	.01	.89

DATE	TOTAL KJEL-DAHL NITROGEN (N) (MG/L)	AMMONIA NITROGEN (N) (MG/L)	ORGANIC NITROGEN (N) (MG/L)	TOTAL NITROGEN (N) (MG/L)	TOTAL PHOSPHORUS (P) (MG/L)	TOTAL ORTHO PHOSPHORUS (P) (MG/L)	DISSOLVED ORTHO. PHOSPHORUS (P) (MG/L)	TOTAL ORGANIC CARBON (C) (MG/L)	IMMEDIATE COLIFORM (COL. PER 100 ML)	FECAL COLIFORM (COL. PER 100 ML)	STREPTOCOCCI (COLONIES PER 100 ML)
DEC. 04...	.41	.41	.00	1.5	.34	.21	.21	--	1220	184	70
FEB. 14...	1.6	.86	.74	2.6	.23	.10	.10	5.0	276	72	126
APR. 18...	--	--	--	--	--	--	--	--	760	160	80
MAY 21...	1.1	.20	.90	2.3	.37	.18	--	5.6	0	210	70
JUNE 21...	--	--	--	--	--	--	--	--	550	240	960
JULY 18...	--	--	--	--	--	--	--	--	940	200	1020
AUG. 20...	--	--	--	--	--	--	--	--	1860	670	440
SEP. 12...	--	.36	--	--	.33	.16	--	6.6	600	3120	960

DATE	ALKALINITY AS CaCO3 (MG/L)	BICARBONATE (HCO3) (MG/L)	CARBON DIOXIDE (CO2) (MG/L)	DISSOLVED CHLORIDE (CL) (MG/L)	DISSOLVED SULFATE (SO4) (MG/L)	TOTAL FLUORIDE (F) (MG/L)	DISSOLVED SILICA (SiO2) (MG/L)	DISSOLVED SOLIDS (RESIDUE AT 180 C) (MG/L)	DISSOLVED SOLIDS (TONS PER AC-FT)	TOTAL IRON (FE) (UG/L)	TOTAL MANGANESE (MN) (UG/L)
DEC. 04...	--	--	--	--	--	--	--	--	--	--	--
FEB. 14...	--	--	--	--	--	--	--	--	--	--	--
APR. 18...	--	--	--	--	--	--	--	--	--	--	--
MAY 21...	--	--	--	--	--	--	--	--	--	--	--
JUNE 21...	--	--	--	--	--	--	--	--	--	--	--
JULY 18...	--	--	--	--	--	--	--	--	--	--	--
AUG. 20...	--	--	--	--	--	--	--	--	--	--	--
SEP. 12...	16	19	15	8.9	18	.3	9.5	92	.13	3100	120

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

LOCATION.--Lat 40°04'55", long 74°51'58", Bucks County, at center of river 1,300 ft (396 m) upstream from bridge on a line from the Pennsylvania bank channel station 79.2 to Lehigh range light on New Jersey bank. Water-quality recorder (40°05'45", 74°51'10") located at raw-water intake of Bristol Filtration Plant, 1.2 mi (1.9 km) upstream.

DRAINAGE AREA.--7,160 mi<sup>2</sup> (18,500 km<sup>2</sup>).

PERIOD OF RECORD.--Chemical analyses: August 1949 to September 1974.  
Water temperatures: March 1953 to September 1974.

## EXTREMES.--1973-74:

Specific conductance: Maximum, 260 micromhos July 27; minimum, 77 micromhos Dec. 23.

Dissolved oxygen: Maximum, 16.0 mg/l Jan. 12; minimum, 0.8 mg/l July 28.

Water temperatures: Maximum, 29.0°C July 10, 13; minimum, 1.0°C Feb. 7, 12.

pH: Maximum, 7.3 Jan. 17-20; minimum, 6.0 Sept. 12.

## Period of record:

Specific conductance (1968-74): Maximum, 397 micromhos Nov. 1, 1970; minimum, 54 micromhos June 5, 1968.

Dissolved oxygen (1962-74): Maximum, 16.0 mg/l Jan. 12, 1974; minimum, 0.0 mg/l on several days in 1963, 1965, and 1967.

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

pH (1968-74): Maximum, 8.4 June 15, 1972; minimum, 4.1 Dec. 26, 1972 and Mar. 7, 1973.

REMARKS.--Samples collected approximately 3 ft (1 m) from bottom. Missing continuous water-quality records are the result of malfunction of sensor or sampling mechanism.

## WATER QUALITY DATA, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DATE	TIME	TEMPERATURE (DEG C)	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)	TURBIDITY (JTU)	COLOR (PLATINUM-COBALT UNITS)	TOTAL NITRITE (N) (MG/L)	DIS-SOLVED NITRITE (N) (MG/L)	TOTAL NITRATE (N) (MG/L)	DIS-SOLVED NITRATE (N) (MG/L)	DIS-SOLVED ORTHO-PHOSPHORUS (P) (MG/L)	ALKALINITY AS CaCO <sub>3</sub> (MG/L)
DEC. 06...	1345	--	167	10.1	--	12	.01	--	.85	--	.07	31
JAN. 03...	--	--	120	7.8	--	8	.01	--	.99	--	.04	20
FEB. 07...	--	--	139	7.2	--	9	.01	--	1.3	--	.08	23
MAR. 07...	1615	--	145	7.0	--	6	.05	--	.90	--	.07	28
APR. 04...	1310	--	135	7.1	4	16	.06	--	.87	--	.05	25
MAY 02...	1245	16.0	175	7.2	--	--	--	.13	--	.97	.06	36
JUNE 06...	1340	22.0	164	7.1	--	--	--	.06	--	.81	.06	37
JULY 11...	1328	28.0	189	6.8	--	--	--	.11	--	.74	.07	36
AUG. 08...	1315	27.0	178	--	--	--	--	.09	--	.83	1.5	28
SEP. 05...	1255	20.5	136	--	--	--	--	.04	--	.62	.02	28

DATE	CARBONATE (CO <sub>3</sub> ) (MG/L)	BICARBONATE (HCO <sub>3</sub> ) (MG/L)	CARBON DIOXIDE (CO <sub>2</sub> ) (MG/L)	DIS-SOLVED CHLORIDE (CL) (MG/L)	DIS-SOLVED SULFATE (SO <sub>4</sub> ) (MG/L)	DIS-SOLVED SILICA (SiO <sub>2</sub> ) (MG/L)	DIS-SOLVED SOLIDS (RESIDUE AT 180 C) (MG/L)	DIS-SOLVED SOLIDS (TONS PER AC-FT)	TOTAL IRON (FE) (UG/L)	DIS-SOLVED IRON (FE) (UG/L)	TOTAL MANGANESE (MN) (UG/L)	DIS-SOLVED MANGANESE (MN) (UG/L)
DEC. 06...	15	7	.0	9.2	23	.1	86	.12	910	--	90	--
JAN. 03...	0	24	1.0	6.9	18	3.7	96	.13	390	--	60	--
FEB. 07...	0	28	3.0	9.0	21	3.9	95	.13	1000	--	90	--
MAR. 07...	0	34	5.0	9.7	22	3.4	89	.12	1200	--	110	--
APR. 04...	0	31	4.0	9.7	21	4.1	--	.10	--	--	--	--
MAY 02...	0	44	4.4	11	25	2.7	107	.15	--	420	--	80
JUNE 06...	0	45	5.7	9.2	23	3.6	101	.14	--	80	--	30
JULY 11...	0	44	11	12	28	2.5	116	.16	--	30	--	80
AUG. 08...	--	34	--	11	28	3.5	114	.16	--	10	--	0
SEP. 05...	--	34	--	7.7	19	5.2	102	.14	--	--	--	--

## DELAWARE RIVER BASIN

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

SPECIFIC CONDUCTANCE (MICROMHOS AT 25°C), WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCTOBER			NOVEMBER			DECEMBER			JANUARY		
	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	207	198	201	208	195	201	209	189	197	130	113	119
2	204	197	201	198	183	191	192	182	187	132	121	127
3	204	195	200	184	170	179	180	165	174	147	132	140
4	204	200	203	174	168	172	167	152	159	172	142	152
5	206	204	205	179	170	175	164	151	154	175	153	162
6	209	205	206	183	177	180	164	151	156	190	172	178
7	216	207	212	189	180	185	174	162	165	195	184	189
8	220	213	217	192	185	188	173	140	161	207	188	196
9	218	215	217	200	188	194	143	110	128	218	201	208
10	219	213	217	207	196	201	117	108	112	221	210	215
11	219	212	217	212	204	207	122	103	114	216	206	211
12	218	213	215	216	207	212	95	82	88	247	212	223
13	215	210	213	223	213	217	90	84	86	258	235	239
14	218	212	214	222	217	220	100	87	93	251	240	242
15	226	216	220	224	219	221	115	100	106	244	228	237
16	229	220	224	223	215	219	140	117	128	231	227	229
17	231	224	228	220	213	216	174	142	152	242	228	233
18	236	227	232	218	213	215	160	147	153	252	235	240
19	242	232	237	223	213	219	177	162	169	238	228	231
20	249	235	240	227	219	220	195	173	179	231	225	228
21	244	239	242	222	218	220	198	149	176	249	225	230
22	244	241	242	222	217	---	170	80	129	247	213	225
23	248	241	245	---	---	---	90	77	81	220	196	207
24	256	244	248	---	---	---	109	86	97	215	189	201
25	254	247	251	---	---	---	112	107	110	191	169	178
26	253	247	251	221	214	---	125	111	117	168	158	162
27	254	250	252	221	215	217	136	122	129	161	139	156
28	254	250	253	247	218	222	147	123	137	168	152	---
29	256	243	251	230	225	228	119	98	106	164	139	155
30	247	227	238	228	211	221	103	95	99	136	114	121
31	227	203	215	---	---	---	113	103	108	118	103	110
MONTH	256	195	226	247	168	206	209	77	134	258	103	191

DAY	FEBRUARY			MARCH			APRIL			MAY		
	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	128	103	112	170	133	140	171	139	160	207	190	196
2	119	111	114	164	142	149	173	169	---	206	196	202
3	128	113	119	163	153	157	---	---	---	206	199	201
4	139	119	126	170	158	162	---	---	---	209	202	205
5	145	129	136	182	152	161	---	---	---	211	196	203
6	153	142	147	177	142	159	---	---	---	208	189	195
7	163	139	156	166	158	163	---	---	---	192	186	---
8	175	160	166	188	133	155	109	99	103	---	---	---
9	188	173	178	146	125	131	113	103	---	---	---	---
10	187	179	183	136	125	129	129	110	---	---	---	---
11	200	184	193	141	127	133	130	119	125	---	---	---
12	206	193	---	137	131	134	132	122	126	---	---	---
13	---	---	---	153	130	139	138	129	134	---	---	---
14	---	---	---	155	135	146	139	131	135	172	141	---
15	---	---	---	161	139	151	138	129	135	138	94	111
16	---	---	---	154	148	151	138	128	133	115	97	104
17	---	---	---	177	149	159	135	117	---	137	117	129
18	---	---	---	175	161	166	---	---	---	154	133	143
19	---	---	---	170	147	162	---	---	---	159	148	153
20	---	---	---	149	132	142	---	---	---	152	142	147
21	---	---	---	146	134	139	---	---	---	162	143	150
22	---	---	---	152	140	144	---	---	---	171	154	162
23	---	---	---	156	139	147	---	---	---	184	167	174
24	---	---	---	140	124	131	171	153	---	191	180	184
25	---	---	---	131	124	127	173	152	163	195	187	190
26	---	---	---	135	126	129	183	165	173	205	193	197
27	131	106	121	143	131	137	182	178	180	207	198	202
28	132	124	127	162	137	141	187	181	183	216	205	208
29	---	---	---	148	140	143	195	183	186	217	210	---
30	---	---	---	149	144	146	200	187	191	---	---	---
31	---	---	---	165	139	155	---	---	---	---	---	---
MONTH	---	---	---	188	124	146	---	---	---	---	---	---

## DELAWARE RIVER BASIN

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01464600 DELAWARE RIVER AT BRISTOL, PA.-BURLINGTON, N. J. BRIDGE--Continued  
 SPECIFIC CONDUCTANCE (MICROMHOS AT 25°C), WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	JUNE			JULY			AUGUST			SEPTEMBER		
	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	---	---	---	231	217	224	254	239	---	248	241	246
2	---	---	---	235	225	227	---	---	---	246	231	242
3	---	---	---	232	222	227	---	---	---	240	181	218
4	234	224	---	236	214	222	---	---	---	189	146	174
5	235	202	220	226	216	221	---	---	---	146	137	141
6	217	201	---	232	215	224	---	---	---	143	135	140
7	---	---	---	227	203	218	---	---	---	143	124	130
8	---	---	---	220	195	206	---	---	---	137	127	132
9	---	---	---	213	194	204	---	---	---	155	138	146
10	176	171	---	209	200	207	---	---	---	160	152	155
11	182	176	178	214	208	210	---	---	---	158	153	155
12	192	182	185	218	211	214	---	---	---	165	139	158
13	197	188	192	234	215	220	---	---	---	175	159	165
14	206	194	198	237	219	226	---	---	---	188	170	177
15	225	199	206	240	224	231	204	191	---	199	180	189
16	215	203	210	238	213	---	213	197	203	207	192	198
17	213	189	199	---	---	---	219	198	209	214	198	205
18	205	193	198	---	---	---	227	207	218	211	198	205
19	215	198	206	---	---	---	224	213	220	213	203	208
20	214	201	210	---	---	---	220	201	211	215	204	211
21	210	187	198	---	---	---	218	196	204	218	208	214
22	196	169	183	253	239	---	203	198	---	223	217	219
23	193	166	178	259	244	252	---	---	---	233	220	225
24	193	174	185	259	246	251	---	---	---	232	224	228
25	200	188	193	255	250	253	---	---	---	237	227	232
26	206	197	201	258	253	255	238	231	---	240	231	235
27	214	205	209	260	255	257	237	231	234	241	233	237
28	218	211	215	259	254	256	242	231	237	240	199	233
29	222	214	216	259	254	255	249	231	242	242	213	225
30	224	214	216	255	253	254	253	238	247	218	173	199
31	---	---	---	256	246	253	251	244	247	---	---	---
MONTH	235	166	---	260	194	---	---	---	---	248	124	195

DISSOLVED OXYGEN (DO), IN MILLIGRAMS PER LITER, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCTOBER			NOVEMBER			DECEMBER			JANUARY		
	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	6.7	5.8	6.2	8.0	7.1	7.5	9.9	9.2	9.6	---	---	---
2	6.6	5.9	---	8.5	7.9	8.2	10.1	9.7	9.9	---	---	---
3	6.6	5.9	6.2	8.7	8.2	8.4	10.5	9.9	10.3	---	---	---
4	6.6	5.8	6.2	8.7	8.3	8.5	11.0	10.3	---	---	---	---
5	7.1	6.0	6.3	8.7	8.3	8.5	11.9	10.6	11.1	---	---	---
6	6.7	6.0	6.4	9.2	8.5	8.7	12.0	11.6	11.8	---	---	---
7	6.5	5.9	6.3	9.3	8.8	9.0	11.7	10.8	11.2	---	---	---
8	6.5	5.9	6.2	9.2	8.7	---	11.5	10.7	11.1	---	---	---
9	6.6	5.8	---	9.6	8.9	---	12.1	11.3	---	14.5	13.9	---
10	6.8	5.7	6.2	9.8	9.1	9.4	12.2	11.6	---	14.7	14.4	---
11	7.1	6.0	6.5	9.8	9.2	---	11.9	11.5	11.7	15.6	14.6	15.4
12	7.0	6.0	6.4	10.0	9.3	---	12.5	11.9	12.2	16.0	15.5	15.8
13	6.8	6.0	6.4	10.1	9.3	9.8	13.1	12.4	12.7	15.8	15.4	15.6
14	6.8	6.0	6.3	10.4	9.7	10.0	13.1	12.7	12.9	15.8	15.3	15.6
15	6.7	5.9	6.2	10.4	9.8	10.1	12.9	12.7	12.8	15.8	15.4	15.6
16	6.5	5.9	6.1	10.3	10.0	10.2	13.3	12.7	13.1	15.8	15.5	15.6
17	6.7	6.0	6.2	10.4	10.0	10.2	13.3	12.9	13.1	15.7	15.3	15.5
18	6.6	6.0	6.3	10.3	9.7	9.9	13.7	12.8	13.4	15.3	14.8	---
19	6.5	5.9	6.1	9.8	9.3	9.6	13.8	13.3	13.6	14.9	14.6	14.7
20	6.4	5.7	6.0	9.4	9.1	9.3	14.1	13.6	---	14.8	14.1	14.5
21	6.4	5.7	6.0	9.5	9.0	9.3	14.1	11.9	13.5	15.6	14.4	14.8
22	6.7	5.6	6.1	9.6	9.0	---	12.6	9.4	---	15.5	13.5	14.2
23	6.8	5.5	6.2	---	---	---	12.7	9.9	---	13.5	12.5	13.3
24	6.8	5.6	6.2	---	---	---	11.0	10.0	10.6	12.5	12.0	12.3
25	7.1	5.8	6.3	---	---	---	10.3	9.8	---	12.8	12.0	12.3
26	6.9	5.9	6.3	10.0	9.2	---	---	---	---	12.8	12.2	12.4
27	7.1	6.0	6.5	9.8	9.3	9.6	---	---	---	12.5	12.2	12.3
28	7.4	6.3	6.8	9.7	9.2	9.5	---	---	---	13.0	12.3	---
29	7.9	7.0	7.3	9.6	9.2	9.4	---	---	---	12.7	12.4	12.6
30	8.1	7.3	7.7	9.6	9.2	9.4	---	---	---	13.3	12.6	13.0
31	8.2	7.1	7.7	---	---	---	---	---	---	13.5	13.1	13.3
MONTH	8.2	5.5	6.4	10.4	7.1	---	14.1	9.2	---	---	---	---

## DELAWARE RIVER BASIN

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

DISSOLVED OXYGEN (DO), IN MILLIGRAMS PER LITER, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	FEBRUARY			MARCH			APRIL			MAY		
	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	13.3	12.8	13.1	13.7	13.4	13.6	12.6	11.7	12.2	8.3	7.8	7.9
2	13.1	12.7	---	13.5	12.9	13.2	12.4	11.5	12.0	7.8	7.4	7.6
3	13.0	12.6	12.7	13.0	12.6	12.8	12.7	12.0	12.3	7.4	6.9	7.2
4	13.5	12.7	13.1	12.7	12.4	12.6	12.2	11.3	11.9	7.8	6.8	7.4
5	13.9	13.4	13.6	12.6	12.0	12.3	11.5	10.4	11.0	7.9	7.2	7.5
6	14.4	13.7	14.1	12.1	11.6	11.9	11.9	10.3	10.5	8.1	7.2	7.7
7	14.5	14.1	14.3	11.6	11.3	11.4	11.3	10.6	10.9	8.4	7.5	---
8	14.5	14.2	14.3	11.5	11.4	11.4	11.6	11.3	11.4	---	---	---
9	14.2	13.8	14.0	11.5	11.2	11.4	12.5	10.6	11.2	---	---	---
10	14.1	13.9	14.0	11.7	11.3	11.5	11.1	10.7	10.9	---	---	---
11	14.0	11.4	12.8	12.0	11.6	11.8	11.4	11.1	11.2	---	---	---
12	13.5	12.5	---	12.1	11.7	11.9	11.4	11.1	11.2	---	---	---
13	---	---	---	12.2	11.4	11.8	11.1	10.6	10.9	---	---	---
14	---	---	---	12.6	11.7	12.2	10.5	10.1	10.3	8.1	7.4	---
15	---	---	---	12.5	11.8	12.1	10.1	9.7	9.9	8.4	8.0	8.2
16	---	---	---	12.7	11.7	12.4	9.8	9.3	9.6	8.2	7.5	7.8
17	---	---	---	12.5	11.7	12.3	10.4	9.5	10.0	7.5	7.0	7.3
18	---	---	---	12.0	11.2	11.7	10.7	10.2	---	7.0	6.7	6.8
19	---	---	---	12.9	11.5	12.2	---	---	---	6.9	6.3	6.6
20	13.5	13.1	---	12.9	12.6	12.8	---	---	---	7.3	6.5	6.8
21	13.5	13.0	13.3	13.0	12.5	12.7	---	---	---	7.3	6.7	7.0
22	13.3	12.9	13.1	12.5	11.5	12.0	---	---	---	7.3	6.6	6.9
23	12.9	12.5	12.7	12.4	11.8	12.1	---	---	---	6.8	6.4	6.7
24	13.0	12.4	12.6	12.7	12.1	12.5	9.0	8.8	---	6.6	6.0	6.3
25	13.5	12.5	13.0	12.5	11.9	12.2	9.6	9.0	9.3	6.3	5.7	5.9
26	13.4	12.8	13.2	12.7	12.0	12.3	9.9	9.2	9.6	6.5	5.6	6.0
27	13.6	13.1	13.4	13.6	12.3	13.0	10.1	9.5	9.9	6.7	5.6	6.1
28	14.0	13.4	13.6	14.0	12.4	13.1	10.5	9.7	10.1	6.9	5.6	6.1
29	---	---	---	13.8	11.0	13.1	10.1	8.7	9.4	6.5	6.1	---
30	---	---	---	13.8	11.6	12.6	8.6	8.1	8.4	---	---	---
31	---	---	---	13.1	11.8	12.4	---	---	---	---	---	---
MONTH	---	---	---	14.0	11.0	12.3	12.7	8.1	---	---	---	---

DAY	JUNE			JULY			AUGUST			SEPTEMBER		
	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	---	---	---	7.0	5.8	6.2	2.4	1.2	---	3.7	2.0	2.7
2	---	---	---	7.1	5.4	6.2	---	---	---	4.0	2.3	3.1
3	---	---	---	6.6	5.5	6.1	---	---	---	5.2	2.8	4.0
4	---	---	---	6.3	5.3	5.8	---	---	---	6.5	4.5	5.6
5	---	---	---	5.9	5.0	5.4	---	---	---	7.0	6.2	6.7
6	---	---	---	5.2	4.3	4.7	---	---	---	7.6	7.0	7.3
7	---	---	---	4.7	3.7	4.1	---	---	---	7.8	7.4	7.6
8	---	---	---	4.0	3.3	3.6	---	---	---	7.9	7.1	7.5
9	---	---	---	4.0	2.8	3.3	---	---	---	7.8	7.2	7.5
10	6.4	6.0	---	4.1	2.8	3.4	---	---	---	7.5	6.5	---
11	---	---	---	4.0	2.8	3.4	---	---	---	---	---	---
12	6.6	5.4	---	3.5	2.5	3.0	---	---	---	---	---	---
13	5.9	4.8	5.4	2.8	1.9	2.4	---	---	---	---	---	---
14	5.9	4.3	4.8	2.7	1.7	2.0	---	---	---	7.8	7.1	---
15	5.7	4.0	4.7	2.4	1.6	1.8	6.5	3.8	---	7.6	6.9	7.2
16	4.9	3.8	4.4	2.3	1.4	---	6.4	3.6	4.8	7.4	6.6	7.0
17	4.9	3.7	4.2	---	---	---	6.5	3.6	4.7	7.3	6.4	6.8
18	5.0	3.3	4.1	---	---	---	5.8	2.8	4.3	7.1	6.2	6.5
19	5.1	3.5	4.4	---	---	---	5.4	3.0	4.2	7.0	5.8	6.3
20	4.6	3.4	4.1	---	---	---	4.4	3.1	3.8	6.7	4.8	5.7
21	4.6	3.3	3.8	---	---	---	5.9	2.9	4.6	5.9	4.8	5.2
22	4.3	3.1	3.6	3.1	2.7	---	5.2	4.2	---	5.9	5.0	5.5
23	4.1	3.0	3.5	4.0	2.1	2.7	---	---	---	6.0	5.1	5.6
24	4.6	2.9	3.8	3.1	1.6	2.2	---	---	---	6.0	5.1	5.5
25	4.7	3.7	4.1	2.7	1.3	1.9	---	---	---	6.4	5.1	5.6
26	4.9	3.2	3.9	2.2	1.1	1.6	4.0	2.4	---	6.9	5.2	6.1
27	5.2	3.5	4.2	1.8	1.0	1.3	4.4	2.4	3.2	7.3	4.6	6.4
28	6.2	4.3	5.0	1.6	0.8	1.1	4.0	2.7	3.3	7.4	5.7	6.7
29	6.4	5.1	5.7	2.4	0.9	1.4	3.6	2.6	3.1	7.9	5.9	7.2
30	6.7	5.5	6.1	4.0	1.1	1.6	3.7	2.4	2.8	7.9	6.8	7.5
31	---	---	---	2.5	0.9	1.7	3.4	2.1	2.7	---	---	---
MONTH	---	---	---	7.1	0.8	---	---	---	---	7.9	2.0	6.1



## DELAWARE RIVER BASIN

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

TEMPERATURE (°C) OF WATER, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCTOBER			NOVEMBER			DECEMBER			JANUARY		
	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	21.5	21.0	21.0	14.5	14.0	14.0	10.5	9.5	10.0	5.5	5.0	5.0
2	21.5	21.0	21.0	14.0	13.5	13.5	9.5	9.0	9.5	5.5	5.0	5.0
3	21.5	21.0	21.5	14.0	13.5	13.5	9.5	9.0	9.0	5.5	4.5	5.0
4	22.0	21.5	21.5	13.5	13.0	13.5	9.0	8.5	8.5	5.0	4.5	4.5
5	21.5	21.5	21.5	13.5	13.0	13.0	9.0	8.5	9.0	4.5	4.0	4.5
6	21.5	21.0	21.5	13.0	12.0	12.5	9.0	8.5	9.0	4.5	4.0	4.0
7	21.5	21.0	21.5	12.0	11.5	11.5	9.5	8.5	9.0	4.5	4.0	4.0
8	21.5	21.0	21.0	11.5	11.0	11.5	9.5	9.0	9.0	4.0	4.0	4.0
9	21.5	21.0	21.0	11.5	10.5	11.0	9.0	8.0	8.5	4.0	3.0	3.0
10	21.5	21.0	21.0	10.5	9.5	10.0	8.0	6.5	7.0	3.0	2.0	2.0
11	21.0	20.5	20.5	10.0	9.5	9.5	7.0	6.0	6.5	3.0	2.0	2.0
12	20.5	20.5	20.5	9.5	9.5	9.5	6.0	5.5	6.0	2.0	1.5	1.5
13	20.5	20.0	20.5	10.0	9.0	9.5	5.5	5.5	5.5	2.0	1.5	2.0
14	20.5	20.0	20.5	9.5	9.5	9.5	6.0	5.5	5.5	2.0	1.5	1.5
15	20.0	19.5	20.0	10.0	9.5	9.5	6.0	5.5	5.5	2.0	1.5	1.5
16	20.0	19.5	19.5	10.5	10.0	10.0	5.5	5.0	5.0	2.0	1.5	1.5
17	19.5	19.0	19.0	10.5	10.0	10.0	5.0	4.5	5.0	3.0	2.0	2.5
18	19.0	18.5	18.5	10.5	10.0	10.0	5.0	3.5	4.0	3.0	3.0	3.0
19	18.5	18.0	18.5	11.0	10.5	10.5	4.0	3.0	3.5	3.5	3.0	3.0
20	18.5	18.0	18.0	11.0	10.5	10.5	3.5	3.0	3.0	3.5	3.0	3.0
21	18.0	17.0	18.0	11.0	10.5	10.5	4.5	3.5	4.0	3.5	2.0	3.0
22	18.0	17.0	17.5	11.0	10.5	---	5.0	3.0	4.0	4.0	3.0	3.5
23	18.0	16.0	16.5	---	---	---	3.5	3.0	3.0	4.5	3.5	3.5
24	17.0	16.0	16.5	---	---	---	4.0	3.5	3.5	4.5	4.0	4.0
25	16.5	16.0	16.5	---	---	---	4.0	3.5	4.0	4.5	4.0	4.0
26	16.5	16.0	16.5	10.5	10.0	---	4.5	4.0	4.0	4.0	3.5	4.0
27	16.5	16.0	16.0	10.5	10.5	10.5	5.5	4.0	4.5	4.5	4.0	4.0
28	16.0	15.5	16.0	11.0	10.5	11.0	6.0	5.0	5.5	5.0	4.5	---
29	16.0	15.5	15.5	11.0	10.5	11.0	5.5	5.0	5.0	5.5	5.0	5.0
30	16.0	15.5	15.5	10.5	10.5	10.5	5.5	5.0	5.5	5.0	4.5	4.5
31	15.5	14.5	15.0	---	---	---	5.5	5.0	5.0	5.0	4.5	4.5
MONTH	22.0	14.5	19.0	14.5	9.0	11.0	10.5	3.0	6.0	5.5	1.5	3.5

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



## DELAWARE RIVER BASIN

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

TEMPERATURE (°C) OF WATER, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

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

PH (UNITS), WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCTOBER			NOVEMBER			DECEMBER			JANUARY		
	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	6.9	6.8	6.9	6.9	6.8	6.8	7.0	6.9	6.9	6.9	6.8	6.9
2	6.9	6.9	6.9	6.9	6.9	6.9	7.0	6.9	6.9	6.9	6.8	6.9
3	6.9	6.8	6.9	6.9	6.8	6.8	7.0	6.8	6.9	7.0	6.9	7.0
4	6.9	6.8	6.9	6.9	6.8	6.8	6.9	6.8	6.9	7.0	6.9	7.0
5	6.9	6.8	6.9	6.9	6.8	6.8	6.9	6.8	6.8	7.0	6.9	7.0
6	6.9	6.8	6.9	6.9	6.8	6.9	7.0	6.0	6.8	7.0	7.0	7.0
7	6.9	6.8	6.9	7.0	6.9	6.9	7.0	6.8	6.9	7.0	6.6	6.9
8	6.9	6.8	6.9	7.0	6.9	6.9	7.0	6.9	6.9	7.1	7.0	7.0
9	6.9	6.8	6.8	7.0	6.9	6.9	7.0	6.0	6.9	7.2	7.0	7.2
10	6.9	6.8	6.9	7.0	6.9	7.0	6.9	6.8	6.9	7.2	7.2	7.2
11	6.9	6.8	6.9	7.1	6.9	7.0	6.9	6.8	6.9	7.2	7.2	7.2
12	6.9	6.8	6.8	7.1	6.9	7.0	6.8	6.8	6.8	7.2	7.1	7.2
13	6.8	6.8	6.8	7.0	7.0	7.0	6.8	6.8	6.8	7.2	7.2	7.2
14	6.8	6.7	6.8	7.1	7.0	7.0	6.9	6.8	6.8	7.2	7.1	7.2
15	7.0	6.8	6.9	7.1	7.0	7.1	6.9	6.8	6.9	7.2	7.2	7.2
16	7.0	6.9	7.0	7.1	7.0	7.1	6.9	6.8	6.9	7.2	7.2	7.2
17	7.0	7.0	7.0	7.1	7.0	7.1	7.2	6.9	7.0	7.3	7.2	7.2
18	7.0	7.0	7.0	7.1	7.0	7.0	7.0	6.0	6.9	7.3	7.2	7.3
19	7.0	6.9	7.0	7.0	6.9	6.9	7.0	6.9	7.0	7.3	7.2	7.2
20	7.0	6.0	6.9	6.9	6.9	6.9	7.2	6.9	7.0	7.3	7.2	7.2
21	7.0	6.9	6.9	6.9	6.8	6.9	7.1	6.9	7.0	7.2	7.2	7.2
22	7.0	6.9	6.9	7.0	6.8	---	7.0	6.6	6.8	7.2	6.9	---
23	7.0	6.8	6.9	---	---	---	6.7	6.6	6.7	7.0	6.9	6.9
24	6.9	6.8	6.9	---	---	---	6.8	6.0	6.7	6.9	6.9	6.9
25	6.9	6.8	6.9	---	---	---	6.9	6.8	6.8	6.9	6.8	6.9
26	6.9	6.8	6.9	6.9	6.8	---	6.9	6.8	6.9	6.9	6.8	---
27	6.9	6.8	6.9	6.9	6.8	---	6.9	6.8	6.9	6.9	6.8	---
28	7.0	6.9	6.9	6.9	6.8	6.9	6.9	6.8	6.9	7.0	6.9	---
29	7.1	7.0	7.0	7.0	6.9	6.9	6.9	6.8	6.8	7.0	6.9	---
30	7.1	7.0	7.0	7.0	6.9	6.9	6.9	6.8	6.8	6.9	6.8	6.9
31	7.0	6.8	6.9	---	---	---	6.9	6.8	6.8	6.9	6.8	6.8
MONTH	7.1	6.0	6.9	7.1	6.8	6.9	7.2	6.0	6.9	7.3	6.6	7.1

## DELAWARE RIVER BASIN

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

pH (UNITS), WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	FEBRUARY			MARCH			APRIL			MAY		
	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	6.9	6.8	6.8	7.0	6.9	6.9	7.0	6.9	6.9	6.9	6.8	6.9
2	6.9	6.8	6.9	7.0	6.9	7.0	7.0	6.7	7.0	7.0	6.9	6.9
3	6.8	6.7	6.7	7.0	6.9	7.0	7.1	7.0	7.0	7.0	6.9	6.9
4	7.0	6.7	6.9	7.0	7.0	7.0	7.1	6.9	7.0	7.1	6.9	7.0
5	7.0	7.0	7.0	7.1	6.9	7.0	7.0	6.9	6.9	7.0	7.0	7.0
6	7.0	7.0	7.0	6.9	6.8	6.9	7.0	6.8	6.8	7.0	6.9	7.0
7	7.0	7.0	7.0	6.9	6.8	6.9	6.8	6.8	6.8	7.0	6.9	---
8	7.0	7.0	7.0	7.2	6.8	6.9	6.8	6.7	6.8	---	---	---
9	7.0	7.0	7.0	6.9	6.7	6.8	6.8	6.7	6.8	---	---	---
10	7.0	7.0	7.0	6.8	6.7	6.8	6.9	6.8	6.9	---	---	---
11	7.2	6.7	6.9	6.8	6.8	6.8	6.9	6.8	6.9	---	---	---
12	6.9	6.6	6.7	6.8	6.8	6.8	6.9	6.9	6.9	---	---	---
13	6.8	6.7	6.7	7.0	6.8	6.9	6.9	6.9	6.9	---	---	---
14	6.8	6.7	6.7	6.9	6.8	6.9	6.9	6.8	6.9	6.8	6.7	---
15	6.8	6.7	6.8	6.9	6.9	6.9	7.0	6.8	6.9	7.0	6.6	6.7
16	6.9	6.7	6.8	6.9	6.8	6.9	7.0	6.8	6.9	6.7	6.5	6.6
17	6.9	6.7	6.8	6.9	6.9	6.9	6.9	6.8	---	6.6	6.5	6.6
18	6.9	6.8	6.8	6.9	6.8	6.9	---	---	---	6.6	6.6	6.6
19	6.9	6.8	6.8	7.0	6.9	7.0	---	---	---	6.7	6.5	6.6
20	7.1	6.8	6.9	7.0	6.9	7.0	---	---	---	6.8	6.6	6.7
21	7.1	7.1	7.1	7.0	6.9	7.0	---	---	---	6.8	6.7	6.7
22	7.2	7.1	7.2	7.0	6.8	6.9	---	---	---	7.0	6.7	6.8
23	7.2	7.1	7.2	6.9	6.8	6.9	---	---	---	6.8	6.7	6.7
24	7.2	7.0	7.1	6.9	6.8	6.9	6.9	6.8	---	6.8	6.7	6.7
25	7.0	6.9	7.0	6.9	6.8	6.9	6.9	6.9	---	6.8	6.7	6.7
26	6.9	6.8	6.9	7.0	6.8	6.9	6.9	6.8	---	6.8	6.7	6.7
27	6.9	6.8	6.9	7.0	7.0	7.0	7.0	6.6	6.9	6.8	6.7	6.7
28	6.9	6.8	6.9	7.0	7.0	7.0	7.1	6.9	7.0	6.9	6.6	6.7
29	---	---	---	7.1	7.0	7.0	7.0	7.0	7.0	6.8	6.6	6.7
30	---	---	---	7.1	7.0	7.1	7.0	6.9	6.9	6.7	6.6	6.7
31	---	---	---	7.1	7.0	7.1	---	---	---	6.7	6.6	6.7
MONTH	7.2	6.6	6.9	7.2	6.7	6.9	7.1	6.6	---	7.1	6.5	---

DAY	JUNE			JULY			AUGUST			SEPTEMBER		
	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	6.7	6.6	---	6.9	6.9	6.9	6.5	6.4	---	6.7	6.5	6.6
2	6.7	6.6	6.7	7.0	6.8	6.9	---	---	---	6.7	6.5	6.6
3	6.7	6.6	6.7	6.9	6.8	6.9	---	---	---	6.7	6.4	6.6
4	6.9	6.7	6.8	6.9	6.8	6.9	---	---	---	6.7	6.5	6.6
5	6.9	6.8	6.8	6.9	6.8	6.8	---	---	---	6.7	6.6	6.6
6	6.9	6.8	6.8	6.8	6.7	6.7	---	---	---	6.7	6.5	6.6
7	6.9	6.8	6.8	6.7	6.7	6.7	---	---	---	6.6	6.4	6.6
8	6.9	6.7	6.8	6.7	6.6	6.6	---	---	---	6.7	6.4	6.6
9	6.8	6.7	6.7	6.7	6.6	6.7	---	---	---	6.7	6.4	---
10	6.7	6.6	---	6.7	6.6	6.7	---	---	---	6.5	6.4	---
11	---	---	---	6.7	6.6	6.6	---	---	---	6.4	6.3	6.4
12	6.9	6.8	---	6.7	6.5	6.6	---	---	---	6.4	6.0	6.3
13	6.9	6.7	6.8	6.6	6.5	6.6	---	---	---	6.6	6.3	6.4
14	6.9	6.7	6.8	6.6	6.4	6.6	---	---	---	6.5	6.3	6.4
15	6.9	6.7	6.8	6.6	6.5	6.6	6.9	6.8	---	6.5	6.3	6.4
16	6.8	6.7	6.7	6.6	6.5	---	6.9	6.7	6.8	6.5	6.4	6.4
17	7.1	6.7	7.0	---	---	---	7.0	6.7	6.8	6.6	6.3	6.4
18	7.2	6.9	7.1	---	---	---	6.9	6.7	6.8	6.6	6.3	6.4
19	7.1	7.0	7.1	---	---	---	7.0	6.8	6.9	6.5	6.3	6.4
20	7.1	6.9	6.9	---	---	---	7.0	6.8	6.9	6.6	6.3	6.4
21	6.9	6.7	6.8	---	---	---	7.0	6.8	---	6.5	6.4	6.5
22	6.8	6.7	6.7	6.5	6.2	---	---	---	---	6.7	6.5	6.5
23	6.8	6.7	6.7	6.6	6.4	6.5	---	---	---	6.6	6.5	6.6
24	6.8	6.7	6.8	6.6	6.4	6.5	---	---	---	6.7	6.5	6.6
25	6.8	6.7	6.8	6.5	6.3	6.4	---	---	---	6.7	6.5	6.6
26	6.9	6.7	6.8	6.4	6.3	6.4	6.6	6.4	---	6.8	6.5	6.7
27	6.9	6.7	6.8	6.4	6.3	6.4	6.7	6.4	6.5	6.8	6.6	6.7
28	7.2	6.8	6.9	6.4	6.3	6.4	6.7	6.4	6.6	6.8	6.6	6.7
29	6.9	6.9	6.9	6.4	6.3	6.4	6.7	6.4	6.6	6.9	6.6	6.8
30	6.9	6.9	6.9	6.4	6.3	6.4	6.8	6.5	6.6	6.9	6.5	6.7
31	---	---	---	6.5	6.3	6.4	6.8	6.5	6.6	---	---	---
MONTH	7.2	6.6	6.8	7.0	6.2	---	---	---	---	6.9	6.0	6.5

## DELAWARE RIVER BASIN

01466500 MC DONALDS BRANCH IN LEBANON STATE FOREST, N. J.  
(Hydrologic bench-mark station)

LOCATION.--Lat 39°53'05", long 74°30'20", Burlington County, water-quality recorder at gaging station at bridge on Butterworth Road, in Lebanon State Forest.

DRAINAGE AREA.--2.31 mi<sup>2</sup> (6.0 km<sup>2</sup>).

PERIOD OF RECORD.--Chemical analyses: Water years 1963-67 (partial-record station), October 1968 to September 1974.  
Water temperatures: October 1960 to September 1974.

## EXTREMES.--1973-74:

Specific conductance: Maximum, 79 micromhos Jan. 24; minimum, 35 micromhos Sept. 27, 28.

Water temperatures: Maximum, 20.0°C Aug. 23; minimum, 1.0°C Jan. 13, 14.

Period of record:

Specific conductance (1968-74): Maximum, 182 micromhos June 16, 1969; minimum, 21 micromhos Sept. 27, 1970.

Water temperatures: Maximum, 22.0°C Aug. 1, 1970; minimum, freezing point on many days during winter months.

REMARKS.--Miscellaneous storm sediment samples collected during water years 1969-74. Missing continuous water-quality records are the result of malfunction of sensor or sampling mechanism.

## WATER QUALITY DATA, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DATE	TIME	INSTANTANEOUS DIS-CHARGE (CFS)	ELEV. OF LAND SURFACE DATUM (FT. ABOVE MSL)	TEMPERATURE (DEG C)	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)	TOTAL ACIDITY AS H+ (MG/L)	DIS-SOLVED OXYGEN (MG/L)	BIO-CHEMICAL OXYGEN DEMAND 5 DAY (MG/L)	TUR-BID-ITY (JTU)	COLOR (PLAT-INUM-COBALT UNITS)	TOTAL NITRITE (N) (MG/L)
NOV. 28...	1350	1.1	118	10.9	--	4.4	--	3.0	--	--	--	.00
JAN. 23...	1600	3.0	118	--	--	--	--	--	--	--	--	--
FEB. 12...	1445	2.2	118	3.8	40	3.8	.2	9.0	.3	10	7	.00
FEB. 20...	1230	2.3	118	3.8	--	--	--	--	--	--	--	--
MAR. 21...	1445	4.5	118	7.7	--	--	--	--	--	--	--	--
APR. 19...	0900	3.0	118	10.7	67	3.5	.6	3.8	.2	--	--	.01
APR. 29...	1430	2.5	118	12.6	--	--	--	--	--	--	--	--
MAY 31...	1015	2.2	118	13.3	47	4.0	.9	2.9	1.1	--	--	.01
JUNE 21...	1100	1.7	118	14.8	31	3.6	.2	2.4	.4	--	--	.01
JULY 25...	1530	2.2	118	17.0	49	3.7	.4	3.4	.7	--	--	--
JULY 30...	1600	1.2	118	19.5	--	--	--	--	--	--	--	--
AUG. 07...	1100	1.7	118	17.0	--	--	--	--	--	--	--	--
AUG. 21...	1220	1.3	118	17.2	--	--	--	--	--	--	--	--
AUG. 21...	1300	1.3	118	17.2	--	--	--	--	--	--	--	--
AUG. 24...	1230	1.8	118	18.5	--	--	--	--	--	--	--	--
AUG. 27...	1215	1.8	118	18.5	41	4.3	.9	2.6	1.4	--	--	.00
SEP. 04...	1145	3.3	118	--	--	--	--	--	--	--	--	--
SEP. 04...	1230	3.3	118	--	--	--	--	--	--	--	--	--
SEP. 12...	1200	2.1	118	19.5	40	4.0	--	3.6	.9	--	--	.00

DATE	TOTAL NITRATE (N) (MG/L)	TOTAL KJEL-DAHL NITRO-GEN (N) (MG/L)	AMMONIA NITRO-GEN (N) (MG/L)	ORGANIC NITRO-GEN (N) (MG/L)	TOTAL NITRO-GEN (N) (MG/L)	TOTAL PHOS-PHORUS (P) (MG/L)	TOTAL ORTHO-PHOS-PHORUS (P) (MG/L)	DIS-SOLVED ORTHO-PHOS-PHORUS (P) (MG/L)	TOTAL ORGANIC CARBON (C) (MG/L)	CYANIDE (CN) (MG/L)	IMME-DIATE COLI-FORM (COL. PER 100 ML)	FECAL COLI-FORM (COL. PER 100 ML)
NOV. 28...	.01	.28	.10	.18	.29	.00	.00	.00	--	--	56	0
JAN. 23...	--	--	--	--	--	--	--	--	--	--	--	--
FEB. 12...	.00	.09	.01	.08	.09	.00	--	.00	3.5	.00	0	0
FEB. 20...	--	--	--	--	--	--	--	--	--	--	--	--
MAR. 21...	--	--	--	--	--	--	--	--	--	--	--	--
APR. 19...	.00	.11	.01	.10	.11	.01	.00	--	--	--	30	--
APR. 29...	--	--	--	--	--	--	--	--	--	--	--	--
MAY 31...	.00	.06	.01	.05	.06	.00	.00	--	18	--	130	2
JUNE 21...	.00	.09	.03	.06	.09	.01	.00	--	2.9	.00	308	0
JULY 25...	--	--	--	--	--	.01	--	--	--	--	720	260
JULY 30...	--	--	--	--	--	--	--	--	--	--	--	--
AUG. 07...	--	--	--	--	--	--	--	--	--	--	--	--
AUG. 21...	--	--	--	--	--	--	--	--	--	--	--	--
AUG. 21...	--	--	--	--	--	--	--	--	--	--	--	--
AUG. 24...	--	--	--	--	--	--	--	--	--	--	--	--
AUG. 27...	.01	.14	.11	.03	.15	.00	.00	--	12	.00	75	8
SEP. 04...	--	--	--	--	--	--	--	--	--	--	--	--
SEP. 12...	.01	.09	.07	.02	.10	.00	.00	--	9.2	--	44	48

## DELAWARE RIVER BASIN

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01466500 MC DONALDS BRANCH IN LEBANON STATE FOREST, N. J.--Continued

## WATER QUALITY DATA, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DATE	STREP- TOCOCCI (COL- ONIES PER 100 ML)	ALKA- LINITY AS CACO3 (MG/L)	CAR- BONATE (CO3) (MG/L)	BICAR- BONATE (HCO3) (MG/L)	CARBON DIOXIDE (CO2) (MG/L)	TOTAL ACIDITY AS CACO3 (MG/L)	HARD- NESS (CA+MG) (MG/L)	NON- CAR- BONATE HARD- NESS (MG/L)	DIS- SOLVED CAL- CIUM (CA) (MG/L)	DIS- SOLVED MAG- NE- SIUM (MG) (MG/L)	DIS- SOLVED SODIUM (NA) (MG/L)	DIS- SOLVED PO- TAS- SIUM (K) (MG/L)
NOV.												
28...	0	--	--	--	--	--	--	--	--	--	--	--
JAN.												
23...	--	--	--	--	--	--	--	--	--	--	--	--
FEB.												
12...	0	0	0	0	.0	12	6	6	1.0	.8	1.5	.8
20...	--	--	--	--	--	--	--	--	--	--	--	--
MAR.												
21...	--	--	--	--	--	--	--	--	--	--	--	--
APR.												
19...	0	0	0	0	.0	30	8	8	2.0	.8	1.5	.3
29...	--	--	--	--	--	--	--	--	--	--	--	--
MAY												
31...	14	0	0	0	.0	45	8	8	2.4	.6	1.8	.2
JUNE												
21...	12	0	0	0	.0	10	2	2	.6	.1	1.5	.1
JULY												
25...	252	0	0	0	.0	20	3	3	.9	.2	2.0	.1
30...	--	--	--	--	--	--	--	--	--	--	--	--
AUG.												
07...	--	--	--	--	--	--	--	--	--	--	--	--
21...	--	--	--	--	--	--	--	--	--	--	--	--
21...	--	--	--	--	--	--	--	--	--	--	--	--
24...	--	--	--	--	--	--	--	--	--	--	--	--
27...	24	0	--	0	.0	45	4	4	1.0	.4	1.2	.2
SEP.												
04...	--	--	--	--	--	--	--	--	--	--	--	--
12...	54	0	--	0	.0	--	6	6	1.0	.8	1.4	.2

DATE	DIS- SOLVED SOLIDS (RESI- DUE AT 180 C) (MG/L)	DIS- SOLVED SOLIDS (SUM OF CONSTI- TUENTS) (MG/L)	DIS- SOLVED SOLIDS (TONS PER AC-FT)	TOTAL FILT- RABLE RESIDUE (MG/L)	TOTAL NON- FILT- RABLE RESIDUE (MG/L)	DIS- SOLVED CHLO- RIDE (CL) (MG/L)	DIS- SOLVED SULFATE (SO4) (MG/L)	DIS- SOLVED FLUO- RIDE (F) (MG/L)	DIS- SOLVED SILICA (SIO2) (MG/L)	TOTAL IRON (FE) (UG/L)	DIS- SOLVED IRON (FE) (UG/L)	TOTAL MAN- GANESE (MN) (UG/L)
NOV.												
28...	--	--	--	--	--	--	--	--	--	--	--	--
JAN.												
23...	--	--	--	--	--	--	--	--	--	--	--	--
FEB.												
12...	23	17	.03	--	--	3.2	6.5	.1	3.0	100	--	30
20...	--	--	--	--	--	--	--	--	--	--	--	--
MAR.												
21...	--	--	--	--	--	--	--	--	--	--	--	--
APR.												
19...	21	19	.03	--	--	3.3	9.5	.0	1.4	--	--	--
29...	--	--	--	--	--	--	--	--	--	--	--	--
MAY												
31...	18	17	.02	--	--	3.4	5.0	.1	2.8	--	--	--
JUNE												
21...	13	13	.02	21	<1	3.7	3.2	.1	3.3	140	--	0
JULY												
25...	26	18	.04	--	--	3.9	6.7	.1	3.8	--	--	--
30...	--	--	--	--	--	--	--	--	--	--	--	--
AUG.												
07...	--	--	--	--	--	--	--	--	--	--	--	--
21...	--	--	--	--	--	--	--	--	--	--	--	--
21...	--	--	--	--	--	--	--	--	--	--	--	--
24...	--	--	--	--	--	--	--	--	--	--	--	--
27...	41	16	.06	--	--	3.3	5.0	.1	3.6	420	--	10
SEP.												
04...	--	--	--	--	--	--	--	--	--	--	--	--
12...	27	13	.04	--	--	3.5	2.2	.2	3.7	--	660	--

01466500 MC DONALDS BRANCH IN LEBANON STATE FOREST, N. J.--Continued

## WATER QUALITY DATA, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

[illegible]

## DELAWARE RIVER BASIN

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01466500 MC DONALDS BRANCH IN LEBANON STATE FOREST, N. J.--Continued

## WATER QUALITY DATA, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DATE	ALDRIN (UG/L)	ALDRIN IN BOTTOM DE- POSITS (UG/KG)	LINDANE (UG/L)	LINDANE IN BOTTOM DE- POSITS (UG/KG)	CHLOR- DANE (UG/L)	CHLOR- DANE IN BOTTOM DE- POSITS (UG/KG)	DDD (UG/L)	DDD IN BOTTOM DE- POSITS (UG/KG)	ODE (UG/L)	ODE IN BOTTOM DE- POSITS (UG/KG)	DDT (UG/L)	DDT IN BOTTOM DE- POSITS (UG/KG)
JUNE 21...	.00	.0	.00	.0	.0	0	.00	6.0	.00	.9	.00	.5

DATE	DI- ELDRIN (UG/L)	DI- ELDRIN IN BOTTOM DE- POSITS (UG/KG)	ENDRIN (UG/L)	ENDRIN IN BOTTOM DE- POSITS (UG/KG)	ETHION (UG/L)	TOX- APHENE (UG/L)	TOX- APHENE IN BOTTOM DE- POSITS (UG/KG)	HEPTA- CHLOR (UG/L)	HEPTA- CHLOR IN BOTTOM DE- POSITS (UG/KG)	HEPTA- CHLOR EPOXIDE IN BOT- TOM DE- POSITS (UG/KG)
JUNE 21...	.00	.2	.00	.0	.00	0	0	.00	.0	.00

DATE	PCB (UG/L)	PCB IN BOTTOM DE- POSITS (UG/KG)	MALA- THION (UG/L)	PARA- THION (UG/L)	DI- AZINON (UG/L)	METHYL PARA- THION (UG/L)	2,4-D (UG/L)	2,4,5-T (UG/L)	SILVEX (UG/L)	TRI- THION (UG/L)	METHYL TRI- THION (UG/L)
JUNE 21...	.0	0	.00	.00	.00	.00	.00	.00	.00	.00	.00

## SUSPENDED-SEDIMENT DISCHARGE MEASUREMENTS, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DATE	TIME	TEMPER- ATURE (DEG C)	INSTAN- TANEOUS DIS- CHARGE (CFS)	SUS- PENDE DI- MENT (UG/L)	SUS- PENDE DI- MENT DIS- CHARGE (T/DAY)
JAN. 23...	1600	--	3.0	12	.10
FEB. 20...	1230	3.8	2.5	3	.02
MAR. 21...	1445	7.7	4.5	3	.04
APR. 19...	0900	10.7	3.2	0	.00
MAY 29...	1430	12.6	2.5	3	.02
MAY 31...	1015	13.3	2.4	4	.03
JUNE 21...	1100	14.8	1.7	2	.01
JULY 25...	1530	17.0	2.4	1	.01
AUG. 30...	1600	19.5	1.2	3	.01
AUG. 07...	1100	17.0	2.0	2	.01
AUG. 21...	1220	17.2	1.3	4	.01
AUG. 21...	1300	17.2	1.3	3	.01
AUG. 24...	1230	18.5	1.8	9	.04
SEP. 04...	1145	--	3.4	3	.03
SEP. 12...	1200	19.5	2.1	2	.01



## DELAWARE RIVER BASIN

01466500 MC DONALDS BRANCH IN LEBANON STATE FOREST, N. J.--Continued

SPECIFIC CONDUCTANCE (MICROMHOS AT 25°C), WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCTOBER			NOVEMBER			DECEMBER			JANUARY		
	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	---	---	---	---	---	---	---	---	---	---	---	---
2	---	---	---	---	---	---	---	---	---	---	---	---
3	---	---	---	---	---	---	---	---	---	---	---	---
4	---	---	---	---	---	---	---	---	---	---	---	---
5	---	---	---	---	---	---	---	---	---	51	48	50
6	---	---	---	---	---	---	---	---	---	53	50	52
7	---	---	---	---	---	---	---	---	---	53	50	52
8	---	---	---	---	---	---	---	---	---	60	48	55
9	---	---	---	---	---	---	---	---	---	59	55	58
10	---	---	---	---	---	---	---	---	---	61	56	60
11	---	---	---	---	---	---	---	---	---	68	57	65
12	---	---	---	---	---	---	---	---	---	72	69	71
13	---	---	---	---	---	---	---	---	---	73	71	72
14	---	---	---	---	---	---	---	---	---	72	68	71
15	---	---	---	---	---	---	48	46	47	72	69	70
16	---	---	---	---	---	---	46	44	45	72	68	70
17	57	52	53	---	---	---	45	43	44	71	67	70
18	---	---	---	---	---	---	43	40	43	71	67	69
19	---	---	---	---	---	---	42	39	41	71	67	69
20	---	---	---	---	---	---	47	39	42	71	66	69
21	---	---	---	---	---	---	46	42	43	76	68	73
22	---	---	---	---	---	---	55	46	48	76	73	75
23	---	---	---	---	---	---	55	53	54	77	74	76
24	---	---	---	---	---	---	55	50	53	79	73	78
25	---	---	---	---	---	---	57	54	55	78	74	76
26	---	---	---	---	---	---	58	54	55	76	70	74
27	---	---	---	---	---	---	54	49	52	75	72	73
28	---	---	---	---	---	---	---	---	---	75	68	74
29	---	---	---	---	---	---	---	---	---	74	72	73
30	---	---	---	---	---	---	---	---	---	73	70	72
31	---	---	---	---	---	---	---	---	---	72	67	70
MONTH	---	---	---	---	---	---	---	---	---	79	48	68

DAY	FEBRUARY			MARCH			APRIL			MAY		
	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	70	68	69	54	53	53	60	55	59	62	61	62
2	68	64	67	54	50	53	58	48	54	62	60	61
3	66	63	64	52	48	50	55	45	51	64	60	63
4	65	61	63	48	41	44	47	43	44	65	65	65
5	62	58	60	51	42	47	50	44	48	66	64	65
6	60	54	58	52	50	51	54	51	52	66	64	65
7	59	56	58	50	44	48	66	51	61	67	65	66
8	61	58	59	49	46	48	---	---	---	68	65	67
9	60	56	58	51	48	50	---	---	---	67	64	65
10	59	56	58	52	49	50	---	---	---	68	65	66
11	59	56	58	51	47	50	---	---	---	68	65	66
12	59	56	57	49	46	48	64	62	63	69	64	66
13	58	54	56	48	44	47	65	62	64	70	65	67
14	56	53	55	46	44	45	65	62	64	66	64	65
15	58	55	57	45	43	44	67	64	66	64	63	63
16	59	57	58	52	41	44	67	64	65	63	61	62
17	60	54	58	54	49	53	64	62	63	62	58	60
18	61	58	60	53	51	52	64	61	62	64	61	63
19	60	55	58	51	48	50	62	59	61	62	59	60
20	58	53	55	52	50	52	59	58	59	58	56	57
21	57	55	57	60	50	53	60	58	59	56	53	54
22	58	52	55	65	59	62	61	59	60	53	52	53
23	64	54	61	64	60	62	63	60	61	56	52	53
24	62	56	60	60	58	59	62	60	61	56	55	56
25	61	57	59	60	55	58	61	59	60	56	53	54
26	60	56	58	56	52	53	60	59	59	53	50	51
27	58	54	56	53	50	52	60	59	59	50	49	49
28	55	52	54	52	49	50	60	59	59	50	49	49
29	---	---	---	50	47	48	62	59	61	50	49	49
30	---	---	---	49	47	48	62	61	61	52	43	48
31	---	---	---	55	48	52	---	---	---	52	51	51
MONTH	70	52	59	65	41	51	67	43	59	70	43	59



## DELAWARE RIVER BASIN

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01466500 MC DONALDS BRANCH IN LEBANON STATE FOREST, N. J.--Continued

SPECIFIC CONDUCTANCE (MICROMHOS AT 25°C), WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	JUNE			JULY			AUGUST			SEPTEMBER		
	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	52	51	51	---	---	---	---	---	---	---	---	---
2	62	50	56	---	---	---	---	---	---	---	---	---
3	64	60	61	---	---	---	---	---	---	---	---	---
4	---	---	---	---	---	---	---	---	---	---	---	---
5	---	---	---	---	---	---	---	---	---	55	53	---
6	---	---	---	---	---	---	---	---	---	56	53	54
7	---	---	---	---	---	---	---	---	---	60	53	58
8	---	---	---	---	---	---	---	---	---	60	56	58
9	---	---	---	---	---	---	---	---	---	59	57	58
10	---	---	---	---	---	---	---	---	---	57	54	55
11	---	---	---	---	---	---	---	---	---	55	51	53
12	---	---	---	---	---	---	---	---	---	51	49	50
13	---	---	---	---	---	---	---	---	---	49	46	48
14	---	---	---	---	---	---	---	---	---	46	44	46
15	---	---	---	---	---	---	---	---	---	44	42	43
16	---	---	---	---	---	---	---	---	---	43	41	42
17	---	---	---	---	---	---	---	---	---	41	40	40
18	---	---	---	---	---	---	---	---	---	40	39	39
19	---	---	---	---	---	---	---	---	---	39	38	39
20	---	---	---	---	---	---	---	---	---	38	38	38
21	---	---	---	---	---	---	---	---	---	40	37	38
22	---	---	---	---	---	---	---	---	---	40	39	39
23	---	---	---	---	---	---	---	---	---	39	38	39
24	---	---	---	---	---	---	---	---	---	38	37	37
25	---	---	---	---	---	---	---	---	---	37	36	37
26	---	---	---	---	---	---	---	---	---	37	36	36
27	---	---	---	---	---	---	---	---	---	36	35	36
28	---	---	---	---	---	---	---	---	---	41	35	36
29	---	---	---	---	---	---	---	---	---	41	38	40
30	---	---	---	---	---	---	---	---	---	39	37	38
31	---	---	---	---	---	---	---	---	---	---	---	---
MONTH	---	---	---	---	---	---	---	---	---	60	35	44

TEMPERATURE (°C) OF WATER, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCTOBER			NOVEMBER			DECEMBER			JANUARY		
	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	---	---	---	---	---	---	---	---	---	---	---	---
2	---	---	---	---	---	---	---	---	---	---	---	---
3	---	---	---	---	---	---	---	---	---	---	---	---
4	---	---	---	---	---	---	---	---	---	4.0	3.5	3.5
5	---	---	---	---	---	---	---	---	---	3.5	2.5	3.0
6	14.0	12.0	13.0	---	---	---	---	---	---	3.0	3.0	3.0
7	---	---	---	---	---	---	7.5	7.0	7.5	3.0	3.0	3.0
8	---	---	---	---	---	---	7.5	7.0	7.0	3.0	2.0	2.5
9	---	---	---	---	---	---	8.0	7.5	8.0	2.5	2.0	2.5
10	---	---	---	---	---	---	8.0	7.5	7.5	3.0	2.5	2.5
11	---	---	---	---	---	---	7.5	6.5	7.0	3.0	2.0	2.5
12	---	---	---	---	---	---	6.5	6.0	6.5	2.0	1.5	2.0
13	---	---	---	---	---	---	6.5	5.5	6.0	1.5	1.0	1.5
14	---	---	---	---	---	---	7.0	6.5	7.0	2.0	1.0	1.5
15	---	---	---	---	---	---	6.5	6.0	6.5	2.5	2.0	2.0
16	---	---	---	---	---	---	6.0	5.5	6.0	2.5	2.0	2.5
17	---	---	---	---	---	---	5.5	5.0	5.5	3.0	2.5	2.5
18	---	---	---	---	---	---	5.0	4.0	4.5	2.5	2.0	2.5
19	---	---	---	---	---	---	4.5	4.0	4.0	3.0	2.5	2.5
20	---	---	---	---	---	---	5.5	4.5	5.5	3.0	2.5	3.0
21	---	---	---	---	---	---	6.0	5.0	5.5	4.0	3.0	3.5
22	---	---	---	---	---	---	4.5	2.5	3.0	4.0	3.5	3.5
23	---	---	---	---	---	---	3.5	2.5	3.0	4.5	2.5	3.5
24	---	---	---	---	---	---	5.5	3.5	4.5	5.0	4.5	5.0
25	---	---	---	---	---	---	6.5	5.5	6.0	5.0	5.0	5.0
26	---	---	---	---	---	---	7.0	6.0	6.5	5.0	4.5	4.5
27	---	---	---	---	---	---	6.5	5.5	6.0	7.0	5.0	6.0
28	---	---	---	---	---	---	---	---	---	7.5	6.5	7.0
29	---	---	---	---	---	---	---	---	---	8.0	7.5	7.5
30	---	---	---	---	---	---	---	---	---	7.5	7.0	7.5
31	---	---	---	---	---	---	---	---	---	7.5	7.0	7.0
MONTH	---	---	---	---	---	---	---	---	---	8.0	1.0	3.5

## DELAWARE RIVER BASIN

01466500 MC DONALDS BRANCH IN LEBANON STATE FOREST, N. J.--Continued

TEMPERATURE (°C) OF WATER, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	FEBRUARY			MARCH			APRIL			MAY		
	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	7.5	6.5	7.0	4.5	3.5	4.0	---	---	---	---	---	---
2	6.5	6.0	6.0	4.5	4.0	4.5	---	---	---	---	---	---
3	5.5	5.0	5.5	5.5	4.5	5.0	---	---	---	---	---	---
4	5.0	4.0	4.5	7.5	5.5	6.0	---	---	---	---	---	---
5	4.0	3.0	3.5	8.5	7.5	8.0	---	---	---	---	---	---
6	3.5	3.0	3.0	8.5	8.0	8.5	---	---	---	---	---	---
7	3.5	3.0	3.5	9.0	8.5	8.5	---	---	---	---	---	---
8	3.0	2.5	3.0	9.0	8.5	9.0	---	---	---	---	---	---
9	2.5	2.5	2.5	8.5	7.5	8.0	---	---	---	---	---	---
10	2.5	2.0	2.5	8.0	7.5	8.0	---	---	---	---	---	---
11	3.0	2.5	3.0	7.5	7.0	7.0	---	---	---	---	---	---
12	3.0	2.5	3.0	7.0	7.0	7.0	---	---	---	---	---	---
13	4.0	3.0	3.5	6.5	5.5	6.5	---	---	---	---	---	---
14	3.5	3.5	3.5	6.0	5.5	5.5	---	---	---	---	---	---
15	3.5	3.0	3.0	6.0	5.0	5.5	---	---	---	---	---	---
16	3.0	2.5	2.5	7.0	6.0	6.5	---	---	---	---	---	---
17	3.0	3.0	3.0	7.0	6.0	6.5	---	---	---	---	---	---
18	3.0	2.5	3.0	6.5	5.5	6.0	---	---	---	---	---	---
19	3.5	3.0	3.0	7.0	6.0	6.5	---	---	---	---	---	---
20	4.0	3.5	3.5	7.0	6.5	7.0	---	---	---	---	---	---
21	4.0	3.5	4.0	7.5	6.5	7.0	---	---	---	---	---	---
22	5.5	4.0	5.0	---	---	---	---	---	---	---	---	---
23	5.5	5.0	5.0	---	---	---	---	---	---	---	---	---
24	5.0	4.0	4.5	---	---	---	---	---	---	---	---	---
25	4.5	3.5	4.0	---	---	---	---	---	---	---	---	---
26	4.0	3.0	3.5	---	---	---	---	---	---	---	---	---
27	3.5	2.5	3.0	---	---	---	---	---	---	---	---	---
28	4.0	3.0	3.5	---	---	---	---	---	---	---	---	---
29	---	---	---	---	---	---	---	---	---	---	---	---
30	---	---	---	---	---	---	---	---	---	---	---	---
31	---	---	---	---	---	---	---	---	---	---	---	---
MONTH	7.5	2.0	3.5	---	---	---	---	---	---	---	---	---

DAY	JUNE			JULY			AUGUST			SEPTEMBER		
	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	---	---	---	---	---	---	17.0	16.0	16.5	19.0	18.0	18.5
2	---	---	---	---	---	---	18.0	16.5	17.0	18.5	18.0	18.5
3	---	---	---	---	---	---	18.0	16.5	17.0	19.0	18.5	18.5
4	---	---	---	---	---	---	18.5	17.0	18.0	19.0	18.5	---
5	---	---	---	---	---	---	18.5	17.5	18.0	17.5	17.0	---
6	---	---	---	---	---	---	18.0	16.5	17.0	17.5	17.0	17.0
7	---	---	---	---	---	---	17.0	16.5	17.0	17.5	17.0	17.0
8	---	---	---	---	---	---	17.5	16.0	16.5	17.5	16.5	17.0
9	---	---	---	---	---	---	18.0	16.5	17.0	17.5	16.0	16.5
10	---	---	---	---	---	---	18.0	16.0	17.0	17.5	16.5	17.0
11	---	---	---	18.5	17.0	---	16.5	15.5	16.0	17.5	17.0	17.0
12	---	---	---	17.5	16.5	17.0	15.5	14.5	15.0	18.0	17.0	17.5
13	---	---	---	17.0	16.0	16.5	15.0	14.5	15.0	19.0	17.5	18.0
14	---	---	---	17.5	16.0	16.5	15.5	14.5	15.0	18.5	17.0	17.5
15	---	---	---	17.5	16.5	17.0	15.5	14.5	15.0	16.5	15.5	16.0
16	---	---	---	17.5	16.5	17.0	15.5	14.5	15.0	16.0	15.5	15.5
17	---	---	---	17.5	16.0	16.5	16.5	14.5	15.0	15.5	15.0	15.5
18	---	---	---	17.5	16.5	16.5	16.5	15.0	16.0	15.5	15.0	15.5
19	---	---	---	17.5	16.5	17.0	16.0	15.0	15.5	15.5	15.0	15.5
20	---	---	---	17.0	16.5	16.5	16.0	14.5	15.0	16.0	15.5	15.5
21	---	---	---	17.0	16.0	16.5	17.5	16.5	---	16.5	15.5	16.0
22	---	---	---	16.5	15.5	16.0	17.5	16.5	17.0	16.0	15.0	15.5
23	---	---	---	16.5	15.0	16.0	20.0	17.0	19.0	15.0	14.0	14.5
24	---	---	---	16.5	15.5	16.0	19.5	19.0	19.0	13.5	13.0	13.5
25	---	---	---	17.0	16.0	16.5	19.5	18.5	19.0	13.0	12.5	12.5
26	---	---	---	16.5	16.0	16.0	18.5	18.0	18.5	13.0	12.5	12.5
27	---	---	---	17.0	16.0	16.5	18.5	18.0	18.5	13.5	12.5	13.0
28	---	---	---	17.0	16.0	16.5	19.0	18.0	18.5	15.0	13.0	13.5
29	---	---	---	18.0	16.5	17.0	---	---	---	15.5	15.0	15.0
30	---	---	---	18.0	16.5	17.0	19.0	18.0	---	15.0	14.0	14.5
31	---	---	---	17.5	16.5	17.0	19.0	18.5	18.5	---	---	---
MONTH	---	---	---	---	---	---	20.0	14.5	17.0	19.0	12.5	16.0

## 01467016 RANCOCAS CREEK AT WILLINGBORO, N. J.

LOCATION.--Lat 40°00'36", long 74°53'16", Burlington County, water-quality recorder at foot of J. F. Kennedy Way, 1.3 mi (2.1 km) downstream from Centerdon bridge in Willingboro.

DRAINAGE AREA.--255 mi<sup>2</sup> (660 km<sup>2</sup>), approximately.

PERIOD OF RECORD.--Chemical analyses: August 1969 to September 1974.  
Water temperatures: August 1969 to September 1974.

## EXTREMES---1973-74:

Specific conductance: Maximum, 202 micromhos Nov. 10; minimum, 113 micromhos Jan. 27.  
Water temperatures: Maximum, 28.5°C July 10.

pH: Maximum, 7.4 Jan. 21; minimum, 5.0 on several days during winter months.

## Period of record:

Specific conductance: Maximum, 256 micromhos Nov. 23, 1971; minimum, 63 micromhos Oct. 15, 1967.

Dissolved oxygen: Maximum, 13.7 mg/l Feb. 13, 1972; minimum, 0.1 mg/l Aug. 1-6, 1971.

Temperature: Maximum, 29.0°C Aug. 9, 1971; minimum, freezing point on many days during winter months.

pH: Maximum, 8.3 Dec. 23, 1971; minimum, 3.9 Dec. 13, 1972.

REMARKS.--Missing continuous water-quality records are the result of malfunction of sensor or sampling mechanism.  
The dissolved oxygen data and the winter temperature data were determined to be unacceptable for publication.

## WATER QUALITY DATA, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DATE	TIME	TEMPER- ATURE (DEG C)	SPE- CIFIC CON- DUCT- ANCE (MICRO- MHOS)	PH (UNITS)	DIS- SOLVED OXYGEN (MG/L)	BIO- CHEM- ICAL OXYGEN DEMAND 5 DAY (MG/L)	TUR- BID- ITY (JTU)	COLOR (PLAT- INUM- COBALT UNITS)	TOTAL NITRITE (N) (MG/L)	TOTAL NITRATE (N) (MG/L)	TOTAL KJEL- DAHL NITRO- GEN (N) (MG/L)
FEB. 13...	0930	1.0	133	6.4	13.0	--	--	--	.00	.70	1.1
APR. 18...	1315	15.8	105	6.3	9.1	.8	--	--	--	--	--
MAY 16...	0840	20.0	89	6.1	6.8	1.8	--	--	.02	.28	.77
JUNE 19...	1000	21.5	120	5.9	5.3	2.6	--	--	--	--	--
JULY 19...	0830	25.8	152	7.9	5.5	1.4	--	--	--	--	--
AUG. 20...	0955	24.6	137	6.3	3.1	4.0	--	--	--	--	--
SEP. 11...	0925	21.5	78	6.1	6.6	1.7	7	70	.00	.22	--

DATE	AMMONIA NITRO- GEN (N) (MG/L)	ORGANIC NITRO- GEN (N) (MG/L)	TOTAL NITRO- GEN (N) (MG/L)	TOTAL PHOS- PHORUS (P) (MG/L)	TOTAL ORTHOPHOS- PHORUS (P) (MG/L)	DIS- SOLVED ORTHOPHOS- PHORUS (P) (MG/L)	TOTAL ORGANIC CARBON (C) (MG/L)	IMME- DIATE COLI- FORM (COL. PER 100 ML)	FECAL COLI- FORM (COL. PER 100 ML)	STREP- TOCOCCI (COL- ONIES PER 100 ML)	ALKA- LITY AS CAC03 (MG/L)
FEB. 13...	.61	.49	1.8	.44	.15	.15	6.0	--	74	24	--
APR. 18...	--	--	--	--	--	--	--	580	68	68	--
MAY 16...	.26	.51	1.1	.24	.15	--	7.8	1580	348	232	--
JUNE 19...	--	--	--	--	--	--	--	7000	460	2500	--
JULY 19...	--	--	--	--	--	--	--	9200	280	3000	--
AUG. 20...	--	--	--	--	--	--	--	11800	1380	15800	--
SEP. 11...	.73	--	--	.22	.15	--	15	7600	2400	7100	3

DATE	BICAR- BONATE (HCO3) (MG/L)	CARBON DIOXIDE (CO2) (MG/L)	DIS- SOLVED CHLO- RIDE (CL) (MG/L)	DIS- SOLVED SULFATE (SO4) (MG/L)	TOTAL FLUO- RIDE (F) (MG/L)	DIS- SOLVED SILICA (SiO2) (MG/L)	DIS- SOLVED SOLIDS (RESI- DUE AT 180 C) (MG/L)	DIS- SOLVED SOLIDS (TONS PER AC-FT)	TOTAL IRON (FE) (UG/L)	TOTAL MAN- GANESE (MN) (UG/L)
FEB. 13...	--	--	--	--	--	--	--	--	--	--
APR. 18...	--	--	--	--	--	--	--	--	--	--
MAY 16...	--	--	--	--	--	--	--	--	--	--
JUNE 19...	--	--	--	--	--	--	--	--	--	--
JULY 19...	--	--	--	--	--	--	--	--	--	--
AUG. 20...	--	--	--	--	--	--	--	--	--	--
SEP. 11...	4	5.1	7.9	17	.2	6.3	74	.10	2400	130

## DELAWARE RIVER BASIN

01467016 RANCOCAS CREEK AT WILLINGBORO, N. J.--Continued

SPECIFIC CONDUCTANCE (MICROMHOS AT 25°C), WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCTOBER			NOVEMBER			DECEMBER			JANUARY		
	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	166	142	156	153	139	147	196	173	179	---	---	---
2	164	140	153	188	136	150	196	182	185	---	---	---
3	157	139	148	200	141	152	200	179	186	130	118	125
4	155	141	148	183	141	150	197	176	183	128	120	125
5	155	144	150	193	136	147	186	166	177	132	128	130
6	161	146	152	175	140	149	178	157	164	133	121	130
7	160	146	154	190	142	151	160	152	154	130	118	126
8	161	143	154	168	146	153	164	155	158	131	120	125
9	164	144	157	188	152	162	164	153	159	132	123	127
10	166	145	158	202	164	170	160	136	150	139	129	133
11	174	147	159	187	167	172	145	136	140	153	141	149
12	172	148	161	179	164	172	150	142	144	---	---	---
13	167	147	160	179	160	169	151	144	147	---	---	---
14	162	140	155	178	155	164	149	141	145	---	---	---
15	164	134	153	169	151	155	152	142	145	---	---	---
16	167	135	154	158	142	147	148	137	142	---	---	---
17	169	141	155	153	144	147	151	133	136	---	---	---
18	174	143	157	157	150	152	162	143	141	135	130	133
19	177	147	159	162	151	154	168	151	163	138	129	134
20	169	150	161	166	156	159	164	146	158	137	127	132
21	182	152	161	166	146	159	---	---	---	138	126	132
22	173	152	164	165	149	157	---	---	---	133	122	128
23	177	154	165	175	157	162	---	---	---	129	124	126
24	178	155	166	170	158	163	---	---	---	133	127	129
25	178	155	168	168	154	163	---	---	---	130	117	125
26	195	159	181	175	154	165	---	---	---	127	118	123
27	189	167	180	173	155	166	---	---	---	123	113	118
28	187	164	177	175	153	164	---	---	---	124	117	122
29	188	153	176	191	161	167	---	---	---	127	122	124
30	164	137	149	186	168	172	---	---	---	---	---	---
31	152	144	148	---	---	---	---	---	---	---	---	---
MONTH	195	134	159	202	136	159	---	---	---	---	---	---

pH (UNITS), WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCTOBER			NOVEMBER			DECEMBER			JANUARY		
	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	6.3	5.8	6.0	6.3	5.6	5.9	6.3	5.7	5.9	5.7	5.2	5.5
2	6.3	5.7	5.9	6.5	5.7	6.0	6.4	5.7	5.9	6.0	5.2	5.4
3	6.2	5.6	5.8	6.4	5.7	5.9	6.4	5.7	5.9	5.7	5.2	5.4
4	6.5	5.5	5.9	6.5	5.8	6.0	6.4	5.7	5.9	5.9	5.2	5.6
5	6.7	5.6	6.0	6.4	5.8	5.9	6.2	5.8	6.0	6.0	5.2	5.5
6	6.4	5.9	6.1	6.5	5.9	6.1	6.0	5.4	5.7	5.9	5.1	5.5
7	6.4	5.8	6.1	6.8	5.9	6.3	6.1	5.4	5.6	5.9	5.0	5.4
8	6.5	5.9	6.2	6.7	5.7	6.1	6.0	5.5	5.8	6.1	5.2	5.5
9	6.5	5.9	6.1	6.3	5.6	5.9	6.0	5.6	5.8	5.9	5.3	5.6
10	6.6	5.8	6.1	6.4	5.6	6.0	6.2	5.4	5.7	5.9	5.4	5.8
11	6.2	5.8	6.0	6.5	5.7	6.0	6.0	5.4	5.6	6.0	5.0	5.6
12	6.5	5.6	6.0	6.4	5.8	6.0	6.1	5.4	5.6	6.1	5.3	5.5
13	6.6	5.7	6.1	6.4	5.8	6.0	6.2	5.4	5.8	6.2	5.3	5.6
14	6.6	5.7	6.2	6.4	5.7	5.9	6.1	5.0	5.5	6.2	5.0	5.6
15	6.7	5.8	6.1	6.5	5.7	6.0	5.9	5.4	5.6	6.1	5.2	5.6
16	6.6	5.9	6.1	6.0	5.8	5.9	5.9	5.4	5.6	6.1	5.0	5.5
17	6.7	6.0	6.2	5.9	5.7	5.8	5.9	5.4	5.7	5.6	5.0	5.2
18	6.8	6.0	6.4	6.4	5.8	6.0	6.3	5.4	5.8	5.9	5.1	5.5
19	6.9	6.0	6.4	6.5	5.7	6.0	6.2	5.5	5.7	6.3	5.3	5.5
20	6.9	6.0	6.3	6.6	5.7	5.9	6.4	5.8	6.1	6.0	5.3	5.5
21	6.8	6.0	6.2	6.4	5.7	5.9	6.4	5.0	5.6	7.4	5.5	6.0
22	6.8	6.0	6.3	6.5	5.8	6.1	5.4	5.2	5.3	6.3	5.1	5.6
23	6.7	6.0	6.2	6.3	5.6	5.9	5.9	5.0	5.3	6.1	5.2	5.5
24	6.6	6.0	6.2	6.1	5.7	5.9	5.8	5.1	5.3	5.3	5.1	5.3
25	6.5	6.0	6.2	6.3	5.7	6.0	5.8	5.0	5.4	5.9	5.1	5.4
26	6.7	5.9	6.2	5.9	5.7	5.8	6.1	5.2	5.6	5.6	5.1	5.3
27	6.7	5.9	6.2	6.2	5.8	6.1	6.1	5.0	5.5	6.3	5.2	5.7
28	6.2	6.0	6.0	6.3	5.5	6.0	6.0	5.1	5.2	5.6	5.2	5.3
29	7.0	5.8	6.4	6.0	5.6	5.7	5.7	5.0	5.3	6.0	5.2	5.4
30	6.3	5.7	6.0	6.4	5.7	5.9	5.6	5.0	5.2	5.3	5.2	5.2
31	6.3	5.6	5.9	---	---	---	5.7	5.3	5.5	---	---	---
MONTH	7.0	5.5	6.1	6.8	5.5	6.0	6.4	5.0	5.6	7.4	5.0	5.5

## DELAWARE RIVER BASIN

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01467030 DELAWARE RIVER AT TORRESDALE INTAKE, AT PHILADELPHIA, PA.

LOCATION.--Lat 40°01'57", long 74°59'46", Philadelphia County, 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 mi<sup>2</sup> (20,200 km<sup>2</sup>).

PERIOD OF RECORD.--Chemical analyses: August 1949 to September 1974.

Water temperatures: October 1955 to September 1957, November 1960 to September 1974.

## EXTREMES.--1973-74:

Specific conductance: Maximum, 591 micromhos Jan. 8; minimum, 90 micromhos Dec. 23.

Dissolved oxygen: Maximum, 14.4 mg/l Jan. 5; minimum, 0.7 mg/l June 22, July 21.

Water temperatures: Maximum, 28.5°C July 11; minimum 0.5°C Jan. 14, 15.

pH: Maximum, 7.8 Aug. 1; minimum, 6.0 Sept. 8.

## Period of record:

Specific conductance (1960-74): Maximum, 609 micromhos Jan. 18, 1970; minimum, 71 micromhos July 24, 1970.

Dissolved oxygen (1961-74): Maximum, 16.2 mg/l Dec. 20, 21, 1972; minimum, 0.0 mg/l on many days during 1962 and 1965.

Water temperatures: Maximum, 30.0°C Sept. 2, 4, 5, 1973; minimum, freezing point on many days during winter months.

pH (1968-74): Maximum, 8.1 Dec. 30, 1970; minimum, 4.9 Apr. 5, 1969.

## WATER QUALITY DATA, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DATE	TIME	TEMPER- ATURE (DEG C)	SPE- CIFIC CON- DUCT- ANCE (MICRO- MHOS)	PH (UNITS)	TUR- BID- ITY (JTU)	COLOR (PLAT- INUM- COBALT UNITS)	TOTAL NITRITE (N) (MG/L)	DIS- SOLVED NITRITE (N) (MG/L)	TOTAL NITRATE (N) (MG/L)	DIS- SOLVED NITRATE (N) (MG/L)	DIS- SOLVED ORTHO. PHOS- PHORUS (P) (MG/L)	ALKA- LINITY AS CaCO3 (MG/L)
FEB. 07...	--	--	135	7.3	--	6	.01	--	1.3	--	.07	21
MAR. 07...	1525	--	147	7.0	--	9	.07	--	.93	--	.09	25
APR. 04...	1220	--	145	7.0	10	22	.08	--	.92	--	.07	25
MAY 02...	1200	15.5	170	7.0	--	--	--	.15	--	1.1	.08	34
JUNE 06...	1255	21.0	172	7.1	--	--	--	.08	--	1.0	.08	39
JULY 11...	1245	27.5	193	6.9	--	--	--	.14	--	.96	.08	36
AUG. 08...	1240	27.0	167	--	--	--	--	.20	--	1.0	1.2	28
SEP. 05...	1200	22.5	149	--	--	--	--	.04	--	.74	.08	30

DATE	CAR- BONATE (CO3) (MG/L)	BICAR- BONATE (HCO3) (MG/L)	CARBON DIOXIDE (CO2) (MG/L)	DIS- SOLVED CHLO- RIDE (CL) (MG/L)	DIS- SOLVED SULFATE (SO4) (MG/L)	DIS- SOLVED SILICA (SI02) (MG/L)	DIS- SOLVED SOLIDS (RESI- DUE AT 180 C) (MG/L)	DIS- SOLVED SOLIDS (TONS PER AC-FT)	TOTAL IRON (FE) (UG/L)	DIS- SOLVED IRON (FE) (UG/L)	TOTAL MAN- GANESE (MN) (UG/L)	DIS- SOLVED MAN- GANESE (MN) (UG/L)
FEB. 07...	0	26	2.0	9.1	20	3.9	94	.13	770	--	80	--
MAR. 07...	0	31	5.0	11	23	3.6	95	.13	1400	--	100	--
APR. 04...	0	30	5.0	11	23	4.6	--	.11	--	--	--	--
MAY 02...	0	41	6.6	10	25	2.8	104	.14	--	540	--	70
JUNE 06...	0	48	6.1	10	26	3.8	119	.16	--	120	--	4400
JULY 11...	0	44	8.9	12	30	.7	117	.16	--	50	--	20
AUG. 08...	--	34	--	11	27	2.8	120	.16	--	10	--	0
SEP. 05...	--	36	--	10	21	4.6	114	.16	--	--	--	--

## DELAWARE RIVER BASIN

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

SPECIFIC CONDUCTANCE (MICROMHOS AT 25°C), WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCTOBER			NOVEMBER			DECEMBER			JANUARY		
	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	219	210	214	219	201	213	233	218	221	---	---	---
2	226	213	218	218	196	203	223	199	217	---	---	---
3	236	202	218	224	192	199	220	204	212	298	128	---
4	233	214	218	207	188	194	221	195	204	430	159	213
5	221	209	214	230	184	196	284	188	210	317	158	186
6	218	207	210	217	187	197	211	186	197	319	156	182
7	220	208	211	220	183	194	195	187	---	255	162	182
8	230	211	216	242	183	194	---	---	---	591	170	277
9	233	214	218	212	184	191	---	---	---	464	217	254
10	233	216	221	220	186	193	182	142	---	503	219	281
11	233	217	222	225	189	195	150	136	141	305	214	248
12	231	219	223	216	190	196	164	120	138	306	212	240
13	237	221	226	227	193	200	162	111	122	310	205	230
14	245	220	226	247	198	206	229	112	135	275	202	227
15	242	219	225	332	201	212	143	119	130	319	203	217
16	255	219	227	367	205	218	161	128	136	327	207	228
17	238	199	223	251	210	217	523	142	192	321	205	229
18	242	218	225	238	212	218	305	156	194	287	199	216
19	239	218	224	233	199	---	256	154	179	290	198	219
20	241	219	226	---	---	---	377	152	179	298	208	231
21	243	219	228	---	---	---	180	158	167	322	203	227
22	241	224	229	---	---	---	166	121	140	243	206	218
23	255	227	235	---	---	---	240	90	111	276	209	221
24	256	233	238	---	---	---	169	96	111	270	204	219
25	251	233	238	---	---	---	173	103	121	278	197	217
26	268	233	241	239	217	---	206	113	132	277	178	202
27	263	231	238	262	217	224	164	118	132	367	174	199
28	244	229	235	348	217	234	187	120	---	239	171	188
29	248	198	229	274	214	223	---	---	---	301	169	186
30	229	198	221	234	209	218	---	---	---	216	145	175
31	226	215	221	---	---	---	---	---	---	321	134	163
MONTH	268	198	224	367	183	---	523	90	---	591	128	217

DAY	FEBRUARY			MARCH			APRIL			MAY		
	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	197	126	143	267	152	178	221	140	153	220	188	193
2	168	125	137	241	154	176	281	146	175	222	190	199
3	263	129	147	219	156	171	244	175	189	219	195	202
4	278	136	160	306	162	186	269	166	185	221	201	206
5	241	141	165	408	166	192	236	131	158	221	205	208
6	265	151	175	252	171	188	176	129	138	228	207	212
7	352	160	194	276	169	184	186	120	134	244	203	214
8	426	174	211	201	170	178	162	109	125	221	196	207
9	360	172	202	225	157	178	154	113	131	249	193	206
10	360	180	216	212	144	163	177	133	142	229	155	194
11	305	181	195	195	144	157	206	129	148	196	178	190
12	191	182	184	206	146	157	272	137	157	247	193	200
13	203	180	191	194	145	155	241	139	158	214	178	191
14	213	186	194	231	147	164	183	144	156	226	159	180
15	218	193	198	262	147	166	219	139	157	224	138	160
16	208	199	202	404	152	200	226	143	160	155	108	121
17	211	201	204	191	159	167	203	143	157	169	110	120
18	209	200	202	208	162	173	190	129	145	164	112	123
19	203	196	199	215	164	174	227	130	145	150	119	128
20	281	197	214	224	163	178	224	131	147	171	125	138
21	269	212	227	200	143	161	188	137	151	182	143	151
22	334	208	220	165	143	152	260	145	163	229	149	161
23	331	208	224	206	142	155	202	150	160	192	156	165
24	263	204	228	218	143	156	195	153	163	192	163	170
25	253	178	209	186	129	147	207	161	170	201	169	176
26	313	167	201	179	120	139	220	164	175	205	177	183
27	352	144	189	198	127	141	232	170	190	204	182	187
28	253	141	171	179	130	143	190	186	---	235	186	194
29	---	---	---	168	133	141	225	187	---	215	192	196
30	---	---	---	220	100	148	235	188	196	220	195	203
31	---	---	---	162	103	139	---	---	---	233	200	206
MONTH	426	125	193	408	100	165	281	109	158	249	108	180



## 283

SPECIFIC CONDUCTANCE (MICROMHOS AT 25°C), WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

MONTH	260	175	208	310	197	223	351	166	217	360	99	186
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DISSOLVED OXYGEN (DO), IN MILLIGRAMS PER LITER, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

[illegible]



## DELAWARE RIVER BASIN

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

DISSOLVED OXYGEN (DO), IN MILLIGRAMS PER LITER, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	FEBRUARY			MARCH			APRIL			MAY		
	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	---	---	---	---	---	---	11.8	10.1	11.4	8.2	7.5	7.9
2	---	---	---	---	---	---	12.0	10.6	---	8.4	7.5	7.9
3	---	---	---	---	---	---	---	---	---	7.8	7.1	7.6
4	---	---	---	---	---	---	---	---	---	7.6	6.9	7.3
5	---	---	---	11.9	10.9	---	---	---	---	8.0	6.7	7.2
6	---	---	---	11.5	10.6	11.0	---	---	---	7.8	6.9	7.3
7	---	---	---	11.1	9.9	10.6	---	---	---	8.1	6.3	7.2
8	---	---	---	10.4	9.8	10.1	---	---	---	8.6	6.2	7.5
9	---	---	---	10.2	10.0	10.1	11.1	10.6	---	9.0	6.3	8.0
10	---	---	---	10.4	9.7	10.0	11.7	10.7	11.3	8.6	7.0	7.9
11	---	---	---	10.8	9.8	10.5	11.9	10.5	11.6	8.5	7.2	7.9
12	---	---	---	11.2	10.2	10.8	11.8	9.5	11.3	8.3	7.4	7.8
13	---	---	---	12.1	11.3	11.6	11.4	9.3	10.8	8.0	7.3	7.7
14	---	---	---	12.8	11.4	12.2	10.7	8.7	10.0	8.3	7.5	8.0
15	---	---	---	12.4	11.3	12.0	9.9	8.5	9.5	8.5	7.6	8.1
16	---	---	---	12.4	9.2	11.5	9.7	8.5	9.4	8.6	7.8	8.2
17	---	---	---	12.4	10.8	11.9	9.5	9.1	9.3	8.2	7.3	7.7
18	---	---	---	13.1	11.5	12.4	9.5	9.0	9.3	7.6	6.8	7.2
19	---	---	---	12.1	10.9	11.7	9.3	8.6	9.1	7.2	6.7	7.0
20	---	---	---	11.8	11.0	11.4	9.6	8.8	9.2	7.3	6.5	6.9
21	---	---	---	11.9	10.9	11.5	9.4	8.9	9.2	7.4	6.2	6.9
22	---	---	---	11.5	10.6	11.2	9.5	8.7	9.2	7.2	5.9	6.8
23	---	---	---	11.3	10.4	10.9	9.3	8.5	9.1	6.5	5.5	6.1
24	---	---	---	11.5	9.4	10.8	9.4	9.0	9.2	6.5	4.4	5.8
25	---	---	---	12.5	11.2	11.7	9.1	8.6	8.9	6.5	4.6	5.8
26	---	---	---	12.2	10.8	11.7	8.9	8.3	8.5	6.6	4.8	5.9
27	---	---	---	11.9	10.9	11.6	8.7	7.9	8.3	6.7	5.4	6.0
28	---	---	---	11.4	10.4	11.1	8.6	7.9	---	6.5	5.3	5.8
29	---	---	---	11.9	11.2	11.5	8.7	8.2	---	6.3	4.9	5.6
30	---	---	---	12.2	11.3	11.7	8.5	7.7	8.2	5.9	4.3	5.2
31	---	---	---	11.9	11.2	11.4	---	---	---	6.1	4.4	5.3
MONTH	---	---	---	13.1	9.2	11.3	12.0	7.7	---	9.0	4.3	7.0

DAY	JUNE			JULY			AUGUST			SEPTEMBER		
	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	5.9	4.5	5.2	6.2	4.9	5.5	2.9	1.5	2.2	3.7	2.9	3.3
2	6.2	4.4	5.3	7.0	4.4	5.5	3.1	1.0	2.0	3.7	2.6	3.0
3	6.1	4.1	5.4	6.6	4.8	5.7	3.4	0.9	2.5	4.4	2.7	3.6
4	6.4	4.5	5.6	6.3	4.8	5.7	2.8	1.8	2.3	7.3	3.5	5.1
5	6.2	4.8	5.7	7.1	5.2	5.9	4.2	1.6	2.8	7.2	6.2	---
6	6.4	5.0	5.6	6.3	4.8	5.5	3.6	2.4	3.0	---	---	---
7	6.8	4.7	6.1	6.7	4.3	5.4	3.2	2.0	2.5	---	---	---
8	6.5	4.6	5.9	7.1	4.4	5.7	2.8	1.7	2.3	---	---	---
9	6.1	5.1	5.6	7.4	4.6	5.8	3.8	1.8	2.4	---	---	---
10	5.8	4.9	5.3	7.8	5.2	6.2	3.0	1.3	2.1	6.3	5.9	---
11	5.5	4.2	4.8	8.1	5.2	6.4	1.9	1.4	1.7	6.3	5.6	6.0
12	5.4	4.3	4.8	8.5	5.6	6.7	4.1	2.7	---	6.5	5.3	5.8
13	5.5	3.6	4.5	8.3	5.3	6.7	3.7	1.6	2.9	7.1	5.3	5.7
14	5.5	3.1	4.3	7.7	4.2	6.2	4.1	2.0	2.7	5.9	5.0	5.3
15	5.8	3.0	4.3	6.3	3.3	5.3	4.4	1.9	3.1	5.5	4.3	5.1
16	5.2	3.1	4.3	4.9	2.6	4.1	4.8	1.6	3.3	5.4	4.3	4.9
17	4.5	3.0	3.8	3.8	2.4	3.2	4.5	1.8	3.6	4.9	4.0	4.5
18	4.0	2.4	3.4	4.2	1.6	3.0	4.5	2.5	3.5	5.1	3.5	4.2
19	4.0	2.1	3.3	3.7	1.4	2.7	4.4	2.6	3.3	4.6	3.1	3.9
20	4.1	1.9	3.1	3.9	1.0	2.5	4.0	2.3	2.9	5.1	3.2	3.9
21	3.5	1.4	2.6	3.6	0.7	2.3	4.0	2.1	3.0	5.5	3.6	4.3
22	3.1	0.7	2.1	3.6	1.4	2.7	3.6	2.3	2.7	5.2	3.6	4.4
23	4.0	1.3	2.5	4.8	1.6	3.0	3.4	1.7	2.4	5.9	3.7	4.6
24	4.5	1.4	2.8	3.4	1.5	2.7	3.3	1.9	2.3	5.7	3.8	4.9
25	3.9	1.9	---	3.7	1.5	2.5	2.8	1.7	2.0	6.2	4.2	5.0
26	---	---	---	3.9	1.3	2.3	4.6	1.5	2.6	5.7	4.3	5.0
27	4.5	2.2	---	3.8	1.6	2.4	5.8	2.8	3.7	5.7	4.3	4.9
28	5.9	3.2	4.5	4.4	1.5	2.4	4.8	3.1	3.9	6.6	4.0	4.9
29	6.7	3.6	5.2	4.9	1.9	2.8	5.5	2.9	3.9	7.3	3.5	5.4
30	7.0	4.6	5.5	3.8	1.6	2.9	4.6	3.4	3.9	7.3	5.9	6.7
31	---	---	---	3.3	1.8	2.5	4.1	3.0	3.5	---	---	---
MONTH	7.0	0.7	4.5	8.5	0.7	4.3	5.8	0.9	2.8	7.3	2.6	4.8

## DELAWARE RIVER BASIN

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

TEMPERATURE (°C) OF WATER, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCTOBER			NOVEMBER			DECEMBER			JANUARY		
	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	21.5	20.0	20.5	15.0	14.0	14.5	10.5	9.5	10.0	---	---	---
2	21.0	20.5	20.5	14.5	13.0	14.0	10.5	9.5	10.0	---	---	---
3	21.5	20.5	21.0	14.0	13.5	13.5	10.0	9.0	9.5	4.0	4.0	---
4	22.0	20.5	21.5	13.5	12.0	13.0	10.0	9.0	9.5	4.5	4.0	4.0
5	22.0	21.0	21.0	13.0	11.5	12.5	11.0	9.5	10.0	4.0	3.0	3.5
6	21.5	20.5	21.0	12.0	10.0	11.5	11.5	9.5	10.0	3.5	3.5	3.5
7	21.0	20.5	21.0	11.5	10.0	11.0	9.5	8.5	---	3.5	3.0	3.5
8	21.0	20.5	21.0	11.0	10.0	10.5	---	---	---	3.5	1.5	2.5
9	21.0	20.0	21.0	11.0	9.5	10.5	---	---	---	3.0	2.0	2.5
10	21.0	20.5	21.0	10.5	9.0	10.0	8.5	7.0	---	3.0	2.0	2.0
11	21.0	19.5	20.5	10.0	9.0	9.5	8.0	6.0	7.0	3.0	1.5	2.0
12	20.5	19.5	20.0	10.0	9.0	9.5	6.5	6.0	6.0	1.5	1.0	1.5
13	20.5	19.5	20.0	10.0	9.0	9.5	6.0	5.5	5.5	2.0	1.5	1.5
14	20.0	19.0	19.5	10.0	9.0	9.5	7.0	5.5	6.0	1.5	0.5	1.0
15	20.0	19.0	19.5	11.0	9.5	10.0	6.0	5.5	5.5	1.5	0.5	1.0
16	19.5	18.5	19.0	11.5	9.5	10.0	5.5	4.5	5.0	3.5	1.0	1.5
17	19.0	17.0	18.0	9.5	9.0	9.0	5.0	3.5	4.0	3.5	1.5	2.0
18	18.0	16.5	17.0	9.0	8.0	9.0	4.0	3.0	3.5	1.5	1.0	1.0
19	18.0	16.0	16.5	9.0	8.5	---	3.5	2.0	3.0	3.0	1.5	1.5
20	17.0	16.0	16.5	---	---	---	3.5	2.0	3.0	3.0	1.5	2.0
21	17.0	15.5	16.5	---	---	---	4.0	3.0	3.5	5.0	2.0	3.0
22	17.0	16.0	16.5	---	---	---	4.0	2.0	3.5	4.5	3.0	4.0
23	17.0	16.0	16.5	---	---	---	2.0	1.5	1.5	5.5	4.0	4.5
24	17.0	16.0	16.5	---	---	---	2.0	1.5	1.5	5.5	4.5	5.0
25	17.0	16.0	16.5	---	---	---	3.0	1.5	2.0	6.5	5.0	5.5
26	17.0	16.0	16.5	10.5	10.0	---	5.5	3.0	3.5	6.0	4.5	5.0
27	17.0	15.5	16.5	10.5	10.0	10.5	8.0	4.0	5.0	9.5	5.0	6.0
28	16.5	15.5	16.0	13.0	10.5	11.0	6.5	4.5	---	7.0	5.5	6.0
29	16.5	14.0	15.5	11.5	10.0	11.0	---	---	---	8.5	5.5	6.5
30	15.5	15.0	15.5	10.5	10.0	10.5	---	---	---	8.5	6.5	7.0
31	15.5	14.5	15.0	---	---	---	---	---	---	9.0	6.0	6.5
MONTH	22.0	14.0	18.5	15.0	8.0	---	11.5	1.5	---	9.5	0.5	3.5

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

## DELAWARE RIVER BASIN

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

TEMPERATURE (°C) OF WATER, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

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

pH (UNITS), WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCTOBER			NOVEMBER			DECEMBER			JANUARY		
	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	6.7	6.6	6.6	6.9	6.7	6.8	7.1	7.1	7.1	---	---	---
2	6.8	6.7	6.8	6.8	6.7	6.7	7.1	7.1	7.1	---	---	---
3	6.9	6.7	6.8	6.7	6.6	6.7	7.1	7.1	7.1	6.7	6.5	---
4	6.9	6.8	6.8	6.7	6.6	6.6	7.1	7.0	7.1	6.8	6.6	6.7
5	7.0	6.8	6.9	6.7	6.6	6.6	7.1	6.9	7.0	6.8	6.6	6.7
6	6.9	6.9	6.9	6.8	6.6	6.7	6.9	6.8	6.8	6.7	6.6	6.7
7	7.0	6.9	6.9	6.7	6.6	6.7	6.8	6.8	---	7.3	6.6	6.8
8	7.0	6.9	6.9	6.8	6.6	6.7	---	---	---	7.3	6.7	7.1
9	7.0	6.9	6.9	6.7	6.6	6.7	---	---	---	7.3	6.7	7.0
10	7.0	6.9	7.0	6.8	6.7	6.7	6.7	6.6	---	7.2	6.8	6.9
11	7.0	6.8	6.9	6.7	6.6	6.7	6.6	6.6	6.6	7.1	6.7	6.8
12	6.9	6.8	6.9	6.8	6.6	6.7	6.6	6.5	6.6	7.0	6.7	6.8
13	7.0	6.8	6.9	6.8	6.7	6.7	6.6	6.5	6.5	6.8	6.7	6.8
14	7.0	6.9	6.9	6.8	6.7	6.7	6.7	6.5	6.6	6.9	6.7	6.8
15	7.0	6.7	6.8	6.9	6.7	6.7	6.6	6.5	6.6	7.2	6.7	7.0
16	6.8	6.6	6.7	7.0	6.7	6.8	6.6	6.5	6.6	7.3	6.8	7.2
17	6.7	6.6	6.6	6.9	6.8	6.8	6.9	6.5	6.6	7.2	6.8	7.1
18	6.7	6.5	6.6	6.9	6.8	6.8	6.8	6.6	6.7	7.2	7.1	7.1
19	6.6	6.5	6.6	7.0	6.8	---	6.7	6.6	6.7	7.2	7.0	7.1
20	6.7	6.5	6.6	---	---	---	6.8	6.6	6.7	7.3	7.1	7.2
21	6.6	6.5	6.6	---	---	---	6.7	6.4	6.6	7.3	7.2	7.2
22	6.6	6.5	6.6	---	---	---	6.6	6.5	6.5	7.2	6.5	6.7
23	6.7	6.5	6.6	---	---	---	6.9	6.5	---	6.6	6.5	6.6
24	6.7	6.6	6.7	---	---	---	6.6	6.4	6.5	7.0	6.6	6.7
25	6.7	6.6	6.6	---	---	---	6.7	6.5	6.5	7.1	6.6	6.9
26	6.7	6.6	6.6	7.0	6.9	---	6.7	6.5	6.6	6.6	6.5	6.6
27	6.7	6.6	6.6	7.0	6.9	6.9	6.6	6.5	6.5	6.9	6.5	6.6
28	6.7	6.6	6.7	7.1	6.9	7.0	6.6	6.5	---	6.6	6.6	6.6
29	6.8	6.6	6.7	7.1	7.0	7.0	---	---	---	6.6	6.5	6.5
30	6.8	6.7	6.7	7.1	7.0	7.1	---	---	---	6.6	6.5	6.6
31	6.8	6.7	6.7	---	---	---	---	---	---	6.7	6.5	6.5
MONTH	7.0	6.5	6.7	7.1	6.6	---	7.1	6.4	---	7.3	6.5	6.8

## DELAWARE RIVER BASIN

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

pH (UNITS), WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	FEBRUARY			MARCH			APRIL			MAY		
	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	6.6	6.4	6.5	6.7	6.5	6.6	6.7	6.6	6.7	7.0	6.8	6.9
2	6.5	6.5	6.5	6.7	6.6	6.6	6.9	6.5	6.7	7.0	6.9	6.9
3	6.7	6.5	6.5	6.7	6.5	6.6	7.0	6.5	6.7	6.9	6.8	6.9
4	6.7	6.5	6.5	6.9	6.6	6.7	7.1	6.5	6.8	6.9	6.8	6.9
5	6.7	6.6	6.6	7.5	6.7	7.1	7.1	7.0	7.1	7.0	6.8	6.9
6	6.7	6.6	6.6	7.6	7.0	7.5	7.1	7.0	7.0	7.0	6.8	6.9
7	6.7	6.6	6.6	7.5	7.1	7.3	7.2	7.0	7.0	6.9	6.6	6.8
8	6.7	6.6	6.6	7.5	7.1	7.2	7.1	7.0	7.0	6.8	6.6	6.7
9	6.7	6.6	6.7	7.2	7.1	7.2	7.1	6.6	7.0	6.9	6.5	6.7
10	6.8	6.6	6.7	7.5	7.1	7.2	6.8	6.6	6.6	6.7	6.4	6.6
11	7.1	6.7	7.0	7.2	7.1	7.1	6.7	6.6	6.7	6.7	6.6	6.7
12	7.1	7.0	7.1	7.2	7.1	7.2	6.8	6.6	6.7	6.8	6.6	6.7
13	7.1	7.0	7.0	7.3	6.7	7.0	6.7	6.6	6.7	6.7	6.6	6.6
14	7.1	7.0	7.1	7.3	7.1	7.2	6.7	6.6	6.7	6.9	6.6	6.7
15	7.1	7.0	7.1	7.4	7.2	7.3	6.8	6.6	6.7	6.9	6.7	6.8
16	7.1	7.0	7.1	7.5	7.2	7.3	6.8	6.7	6.7	6.7	6.6	6.7
17	7.1	7.0	7.1	7.3	7.2	7.3	6.8	6.7	6.7	6.7	6.5	6.6
18	7.1	7.1	7.1	7.3	6.8	7.2	6.7	6.5	6.7	6.8	6.6	6.6
19	7.1	7.1	7.1	7.3	6.9	7.0	6.7	6.5	6.6	6.8	6.6	6.7
20	7.1	6.6	6.9	7.0	6.9	6.9	6.8	6.5	6.6	6.9	6.6	6.7
21	6.7	6.7	6.7	6.9	6.7	6.9	6.8	6.6	6.7	6.9	6.6	6.8
22	6.9	6.7	6.8	6.9	6.7	6.9	7.0	6.7	6.8	6.9	6.7	6.8
23	6.9	6.8	6.9	6.9	6.7	6.8	6.8	6.7	6.8	6.9	6.7	6.8
24	6.9	6.8	6.9	6.9	6.7	6.8	6.8	6.7	6.8	6.8	6.6	6.7
25	6.9	6.7	6.8	6.9	6.8	6.8	6.8	6.7	6.8	6.9	6.6	6.8
26	6.8	6.6	6.7	6.8	6.5	6.7	6.9	6.7	6.8	7.2	6.8	7.1
27	6.7	6.5	6.6	6.8	6.6	6.7	6.9	6.7	6.8	7.0	6.7	---
28	6.6	6.5	6.5	6.9	6.6	6.7	6.9	6.8	---	6.9	6.8	6.9
29	---	---	---	6.8	6.7	6.7	7.0	6.8	---	6.9	6.8	6.9
30	---	---	---	6.8	6.7	6.8	7.0	6.8	6.9	7.0	6.8	6.9
31	---	---	---	6.8	6.4	6.7	---	---	---	6.9	6.7	6.8
MONTH	7.1	6.4	6.8	7.6	6.4	7.0	7.2	6.5	6.8	7.2	6.4	6.8

DAY	JUNE			JULY			AUGUST			SEPTEMBER		
	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	6.8	6.7	6.8	6.6	6.6	6.6	7.8	6.8	7.0	6.4	6.3	6.3
2	6.8	6.7	6.8	6.9	6.5	6.6	7.1	6.8	6.9	6.4	6.3	6.4
3	6.9	6.7	6.8	6.9	6.6	6.7	7.4	6.9	---	6.4	6.3	6.4
4	7.2	6.6	6.9	6.8	6.6	6.7	---	---	---	6.3	6.2	6.3
5	7.4	6.9	7.1	6.9	6.6	6.7	6.8	6.6	---	6.2	6.2	6.2
6	---	---	---	6.8	6.6	6.7	6.9	6.6	---	6.2	6.1	6.1
7	---	---	---	6.8	6.6	6.7	---	---	---	6.3	6.1	6.2
8	6.9	6.6	---	6.9	6.6	6.7	---	---	---	6.2	6.0	6.2
9	7.0	6.5	6.7	7.2	6.7	6.9	---	---	---	6.3	6.2	6.3
10	6.9	6.3	6.4	7.2	6.8	7.0	---	---	---	6.4	6.2	6.3
11	6.3	6.2	6.2	7.4	6.8	7.0	---	---	---	6.5	6.3	6.3
12	6.4	6.2	6.2	7.6	6.9	7.1	---	---	---	6.6	6.3	6.4
13	6.3	6.2	6.2	7.4	6.8	7.0	---	---	---	6.9	6.3	6.4
14	6.4	6.2	6.2	7.1	6.7	6.9	6.7	6.5	---	6.6	6.4	6.4
15	6.4	6.2	6.3	6.9	6.6	6.8	6.7	6.5	6.6	6.5	6.4	6.5
16	6.4	6.2	6.3	6.8	6.6	6.7	6.8	6.6	6.7	6.6	6.5	6.6
17	6.5	6.2	6.4	6.8	6.6	6.7	6.7	6.5	6.6	6.7	6.5	6.6
18	6.5	6.4	6.5	6.8	6.7	6.7	6.6	6.5	6.6	6.7	6.6	6.6
19	6.6	6.4	6.5	6.8	6.7	6.8	6.7	6.5	6.6	6.7	6.6	6.6
20	6.6	6.4	6.5	7.4	6.7	6.8	6.8	6.6	6.6	6.7	6.5	6.6
21	6.6	6.5	6.6	6.8	6.7	6.8	6.8	6.5	6.7	6.8	6.5	6.6
22	6.6	6.5	6.5	6.9	6.7	6.8	6.9	6.7	6.8	6.7	6.5	6.6
23	6.6	6.5	6.5	6.9	6.7	6.8	6.9	6.8	6.8	6.6	6.2	6.4
24	6.6	6.4	6.5	6.9	6.7	6.8	6.7	6.6	6.7	6.4	6.2	6.3
25	6.9	6.3	6.6	6.9	6.7	6.8	6.5	6.4	6.5	6.4	6.2	6.3
26	7.0	6.4	---	7.2	6.8	6.9	6.5	6.3	6.4	6.4	6.3	6.3
27	6.8	6.7	---	7.2	7.0	7.1	6.6	6.4	6.4	6.4	6.3	6.3
28	6.8	6.7	6.7	7.3	7.0	7.1	6.5	6.4	6.4	6.6	6.3	6.4
29	6.8	6.6	6.6	7.2	7.0	7.1	6.4	6.3	6.4	6.6	6.3	6.4
30	6.8	6.6	6.6	7.3	6.7	7.0	6.4	6.3	6.3	6.9	6.5	6.7
31	---	---	---	7.1	6.8	7.0	6.4	6.3	6.3	---	---	---
MONTH	7.4	6.2	6.5	7.6	6.5	6.8	---	---	---	6.9	6.0	6.4

## DELAWARE RIVER BASIN

01467150 COOPER RIVER AT HADDONFIELD, N. J.

LOCATION.--Lat 39°54'11", long 75°01'19", Camden County, at bridge on State Highway 41 (Kings Highway) in Haddonfield, 0.6 mi (1.0 km) upstream from North Branch Cooper River, 7.7 mi (12.4 km) upstream from mouth, and 200 ft (61 m) downstream from gaging station.

DRAINAGE AREA.--17.4 mi<sup>2</sup> (45.1 km<sup>2</sup>).

PERIOD OF RECORD.--Chemical analyses: Water years 1968-72 (partial-record station), October 1972 to September 1974.  
Water temperatures: March to September 1969.  
Sediment records: March 1968 to May 1970.

REMARKS.--Miscellaneous storm sediment samples collected during water years 1971-73.

## WATER QUALITY DATA, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	ELEV. OF LAND SURFACE DATUM (FT. ABOVE MSL)	TEMPERATURE (DEG C)	SPECIFIC CONDUCTANCE (MICRO-MHOS)	PH (UNITS)	DISSOLVED OXYGEN (MG/L)	BIO-CHEMICAL OXYGEN DEMAND 5 DAY (MG/L)	TURBIDITY (JTU)	COLOR (PLATINUM-COBALT UNITS)
NOV. 28...	0940	33	9.2	13.8	341	6.5	--	6.4	--	--
FEB. 12...	0930	27	9.2	1.1	395	6.5	10.2	7.4	--	--
APR. 18...	0930	36	9.2	14.5	276	6.2	5.4	7.2	--	--
MAY 16...	0935	29	9.2	21.2	259	6.5	2.8	4.4	--	--
JUNE 19...	1040	16	9.2	22.6	360	6.2	6.2	10	--	--
JULY 19...	0945	25	9.2	24.6	367	7.5	5.7	10	--	--
AUG. 20...	1040	16	9.2	23.4	331	6.3	5.5	9.4	--	--
SEP. 11...	0925	18	9.2	--	--	--	--	--	--	--
11...	1135	18	9.2	22.5	301	7.5	5.8	4.8	20	2

DATE	TOTAL NITRITE (N) (MG/L)	TOTAL NITRATE (N) (MG/L)	TOTAL KJELDAHL NITROGEN (N) (MG/L)	AMMONIA NITROGEN (N) (MG/L)	ORGANIC NITROGEN (N) (MG/L)	TOTAL NITROGEN (N) (MG/L)	TOTAL PHOSPHORUS (P) (MG/L)	TOTAL ORTHO-PHOSPHORUS (P) (MG/L)	DISSOLVED ORTHO-PHOSPHORUS (P) (MG/L)	TOTAL ORGANIC CARBON (C) (MG/L)
NOV. 28...	.13	9.5	9.0	1.5	7.5	19	1.1	.88	.89	--
FEB. 12...	.03	.55	7.3	6.6	.70	7.9	.98	.44	.43	9.5
APR. 18...	--	--	--	--	--	--	--	--	--	--
MAY 16...	.05	.17	7.8	6.3	1.5	8.0	11	.45	--	8.2
JUNE 19...	--	--	--	--	--	--	--	--	--	--
JULY 19...	--	--	--	--	--	--	--	--	--	--
AUG. 20...	--	--	--	--	--	--	--	--	--	--
SEP. 11...	--	--	--	--	--	--	--	--	--	--
11...	.11	.30	7.8	6.9	.90	8.2	1.4	.41	--	21

## DELAWARE RIVER BASIN

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01467150 COOPER RIVER AT HADDONFIELD, N. J.--Continued

## WATER QUALITY DATA, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DATE	IMME- DIATE COLI- FORM (COL. PER 100 ML)	FECAL COLI- FORM (COL. PER 100 ML)	STREP- TOCOCCI (COL- ONIES PER 100 ML)	ALKA- LINITY AS CACO3 (MG/L)	BICAR- BONATE (HCO3) (MG/L)	CARBON DIOXIDE (CO2) (MG/L)	TOTAL CAL- CIUM (CA) (MG/L)	TOTAL MAG- NE- SIUM (MG)	TOTAL SODIUM (NA) (MG/L)
NOV. 28...	11600	640	1220	--	--	--	--	--	--
FEB. 12...	140	20	30	--	--	--	--	--	--
APR. 18...	990	324	100	--	--	--	--	--	--
MAY 16...	4950	260	35	--	--	--	--	--	--
JUNE 19...	7200	400	4200	--	--	--	--	--	--
JULY 19...	9400	900	300	--	--	--	--	--	--
AUG. 20...	12800	2040	1560	--	--	--	--	--	--
SEP. 11...	--	--	--	--	--	--	9.7	1.6	4.0
11...	25400	500	360	46	56	2.8	--	--	--

DATE	TOTAL PO- TAS- SIUM (K) (MG/L)	DIS- SOLVED CHLO- RIDE (CL) (MG/L)	DIS- SOLVED SULFATE (SO4) (MG/L)	TOTAL FLUO- RIDE (F) (MG/L)	DIS- SOLVED SILICA (SiO2) (MG/L)	DIS- SOLVED SOLIDS (RESI- DUE AT 180 C) (MG/L)	DIS- SOLVED SOLIDS (TONS PER AC-FT)	TOTAL IRON (FE) (UG/L)	TOTAL MAN- GANESE (MN) (UG/L)
NOV. 28...	--	--	--	--	--	--	--	--	--
FEB. 12...	--	--	--	--	--	--	--	--	--
APR. 18...	--	--	--	--	--	--	--	--	--
MAY 16...	--	--	--	--	--	--	--	--	--
JUNE 19...	--	--	--	--	--	--	--	--	--
JULY 19...	--	--	--	--	--	--	--	--	--
AUG. 20...	--	--	--	--	--	--	--	--	--
SEP. 11...	1.3	--	--	--	--	--	--	--	--
11...	--	32	25	.3	13	182	.25	4000	180



## DELAWARE RIVER BASIN

01467200 DELAWARE RIVER AT BENJAMIN FRANKLIN BRIDGE, AT PHILADELPHIA, PA.

LOCATION.--Lat 39°57'11", long 75°08'05", Philadelphia County, 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. Water-quality recorder (39°57'10", 75°08'18") located at river end of pier 11 North about 100 ft (30 m) downstream from bridge.

DRAINAGE AREA.--7,993 mi<sup>2</sup> (20,700 km<sup>2</sup>).

PERIOD OF RECORD.--Chemical analyses: August 1949 to September 1974.  
Water temperatures: November 1960 to September 1974.

## EXTREMES.--1973-74:

Specific conductance: Maximum, 370 micromhos Aug. 17; minimum, 100 micromhos Dec. 16.  
Dissolved oxygen: Maximum, 13.7 mg/l Dec. 22; minimum, 0.0 mg/l on several days during summer months.  
Water temperatures: Maximum, 27.0°C Aug. 29-Sept. 1.  
pH: Maximum, 7.7 Jan. 14; minimum, 5.9 Aug. 27-Sept. 1.

## Period of record:

Specific conductance (1963-74): Maximum, 1,450 micromhos Nov. 20, 1964; minimum, 80 micromhos Aug. 30, 1971.  
Dissolved oxygen: Maximum, 14.1 mg/l Dec. 14, 1962; minimum, 0.0 mg/l on several days during summer months.  
Water temperatures: Maximum, 31.0°C July 13-15, 1966; minimum, freezing point on many days during winter months.  
pH (1968-74): Maximum, 7.7 Jan. 14, 1974; minimum, 5.6 Feb. 27, 1970.

REMARKS.--Samples collected approximately 3 ft (1 m) from bottom. Missing continuous water-quality records are the result of malfunction of sensor or sampling mechanism. Insufficient winter temperature data to report minimum extreme.

## WATER QUALITY DATA, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DATE	TIME	TEMPER- ATURE (DEG C)	SPE- CIFIC CON- DUCT- ANCE (MICRO- MHOS)	PH (UNITS)	TUR- BID- ITY (JTU)	COLOR (PLAT- INUM- COBALT UNITS)	TOTAL NITRITE (N) (MG/L)	DIS- SOLVED NITRITE (N) (MG/L)	TOTAL NITRATE (N) (MG/L)	DIS- SOLVED NITRATE (N) (MG/L)	DIS- SOLVED ORTHO- PHOS- PHORUS (P) (MG/L)	ALKA- LITY AS CACO3 (MG/L)
DEC. 06...	1135	--	237	7.9	--	9	.01	--	3.1	--	.19	25
JAN. 03...	--	--	109	7.1	--	7	.01	--	.99	--	.04	14
FEB. 07...	--	--	138	7.1	--	9	.01	--	1.5	--	.11	18
MAR. 07...	1415	--	175	6.4	--	11	.03	--	.88	--	.09	17
APR. 04...	1110	--	152	6.7	90	40	.09	--	1.0	--	.10	24
MAY 02...	1105	14.5	190	6.7	--	--	--	.07	--	.89	.11	30
JUNE 06...	1155	21.0	191	7.0	--	--	--	.08	--	1.0	.11	40
JULY 11...	1120	26.0	232	6.7	--	--	--	.09	--	1.2	.12	40
AUG. 08...	1105	27.0	242	--	--	--	--	.23	--	1.3	.75	39
SEP. 05...	1050	24.5	225	--	--	--	--	.11	--	1.2	.03	45

DATE	CAR- BONATE (CO3) (MG/L)	BICAR- BONATE (HCO3) (MG/L)	CARBON DIOXIDE (CO2) (MG/L)	DIS- SOLVED CHLO- RIDE (CL) (MG/L)	DIS- SOLVED SULFATE (SO4) (MG/L)	DIS- SOLVED SILICA (SiO2) (MG/L)	DIS- SOLVED SOLIDS (RESI- DUE AT 180 C) (MG/L)	DIS- SOLVED SOLIDS (TONS PER AC-FT)	TOTAL IRON (FE) (UG/L)	DIS- SOLVED IRON (FE) (UG/L)	TOTAL MAN- GANESE (MN) (UG/L)	DIS- SOLVED MAN- GANESE (MN) (UG/L)
DEC. 06...	0	31	1.0	19	40	2.7	157	.21	760	--	90	--
JAN. 03...	0	17	2.0	7.0	17	3.0	71	.10	740	--	70	--
FEB. 07...	0	22	3.0	10	21	4.0	89	.12	1300	--	90	--
MAR. 07...	0	21	13	15	32	3.8	104	.14	1500	--	140	--
APR. 04...	0	29	9.0	12	26	4.6	--	.11	--	--	--	--
MAY 02...	0	37	12	13	32	3.3	137	.19	--	1000	--	130
JUNE 06...	0	49	7.8	12	28	3.6	122	.17	--	70	--	50
JULY 11...	0	49	16	17	38	.2	125	.17	--	30	--	10
AUG. 08...	--	47	--	19	39	1.9	173	.24	--	0	--	0
SEP. 05...	--	55	--	13	27	3.8	156	.21	--	--	--	--



## DELAWARE RIVER BASIN

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01467200 DELAWARE RIVER AT BENJAMIN FRANKLIN BRIDGE, AT PHILADELPHIA, PA.--Continued

SPECIFIC CONDUCTANCE (MICROMHOS AT 25°C), WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCTOBER			NOVEMBER			DECEMBER			JANUARY		
	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	326	275	304	289	272	281	232	208	217	---	---	---
2	322	292	311	279	267	274	232	202	215	---	---	---
3	317	291	306	280	263	273	232	200	218	---	---	---
4	315	286	303	278	262	270	238	209	224	199	180	---
5	310	287	301	281	262	273	243	227	235	196	180	187
6	311	284	298	285	197	233	243	202	221	193	182	187
7	312	285	299	233	183	211	222	178	196	214	188	197
8	312	285	297	248	202	223	202	168	183	209	199	204
9	314	288	300	244	192	219	196	161	183	235	200	213
10	313	274	293	225	183	201	171	157	164	291	220	234
11	298	275	287	245	195	214	160	122	140	255	237	246
12	296	269	283	221	198	210	139	108	122	257	247	251
13	295	269	282	242	208	224	142	124	133	256	245	250
14	292	270	286	257	211	230	138	103	127	264	237	253
15	297	262	278	253	214	237	123	103	115	262	239	255
16	307	282	294	248	202	226	131	100	121	258	255	257
17	309	279	293	232	193	211	147	120	132	259	239	255
18	323	280	298	240	195	221	150	134	140	259	249	256
19	313	279	297	236	213	224	142	124	134	263	250	257
20	314	290	304	252	221	236	151	127	139	260	244	253
21	320	288	306	253	232	242	165	127	150	265	244	255
22	322	298	310	248	212	232	130	113	119	264	248	256
23	324	298	313	250	214	236	---	---	---	257	243	251
24	329	304	317	261	219	241	---	---	---	254	244	249
25	331	308	321	257	222	247	---	---	---	258	250	254
26	344	314	329	267	222	247	---	---	---	258	239	252
27	339	311	326	261	235	250	---	---	---	249	231	243
28	342	306	325	264	235	252	---	---	---	244	224	---
29	343	297	326	239	200	224	---	---	---	---	---	---
30	318	279	304	243	210	225	---	---	---	---	---	---
31	296	274	287	---	---	---	---	---	---	---	---	---
MONTH	344	262	303	289	183	236	---	---	---	291	180	---

DAY	FEBRUARY			MARCH			APRIL			MAY		
	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	---	---	---	185	168	178	177	159	170	198	187	191
2	---	---	---	189	170	178	184	173	178	200	193	197
3	---	---	---	189	176	183	185	176	181	202	195	199
4	---	---	---	186	180	---	191	181	186	210	193	199
5	---	---	---	191	184	---	187	177	183	210	199	204
6	---	---	---	196	186	190	178	160	---	223	205	214
7	---	---	---	199	191	194	---	---	---	235	221	226
8	---	---	---	197	185	193	---	---	---	236	221	229
9	---	---	---	196	186	192	150	141	---	226	217	223
10	---	---	---	193	178	188	158	144	149	219	207	216
11	---	---	---	184	171	178	161	151	156	223	220	---
12	---	---	---	180	168	175	161	153	156	---	---	---
13	---	---	---	175	165	169	157	154	---	---	---	---
14	---	---	---	172	166	169	---	---	---	206	201	---
15	223	215	---	182	169	176	---	---	---	212	181	196
16	224	214	220	183	174	179	---	---	---	191	161	179
17	227	220	224	180	168	174	158	148	---	181	129	161
18	233	219	226	178	167	173	157	146	152	166	109	145
19	233	221	229	184	176	179	156	143	150	149	122	---
20	239	226	235	191	180	185	152	140	145	143	137	---
21	237	224	232	193	174	187	151	141	145	153	143	148
22	235	220	230	180	165	174	154	146	149	171	151	156
23	233	219	226	173	161	168	159	151	---	171	159	163
24	222	214	219	173	159	165	166	157	---	171	161	167
25	246	218	227	172	165	168	168	159	163	176	167	172
26	240	223	230	175	165	170	175	165	169	185	173	180
27	223	189	209	170	163	167	175	167	171	204	179	193
28	205	171	187	173	161	166	183	171	176	211	199	205
29	---	---	---	180	165	170	183	175	179	222	211	218
30	---	---	---	181	168	174	193	183	187	235	204	220
31	---	---	---	179	162	170	---	---	---	214	191	201
MONTH	---	---	---	199	159	177	193	140	---	236	109	192

## DELAWARE RIVER BASIN

01467200 DELAWARE RIVER AT BENJAMIN FRANKLIN BRIDGE, AT PHILADELPHIA, PA.--Continued  
 SPECIFIC CONDUCTANCE (MICROMHOS AT 25°C), WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	JUNE			JULY			AUGUST			SEPTEMBER		
	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	229	193	204	243	229	237	313	307	---	264	245	255
2	---	---	---	230	211	219	305	284	---	284	264	275
3	---	---	---	212	211	---	322	276	293	263	246	254
4	225	215	---	---	---	---	301	275	290	279	235	253
5	229	217	224	---	---	---	297	263	278	279	251	271
6	235	225	230	---	---	---	289	264	277	269	223	252
7	247	231	237	---	---	---	284	259	272	251	202	233
8	243	235	240	---	---	---	282	236	269	232	198	217
9	245	237	---	---	---	---	283	236	272	224	196	210
10	---	---	---	---	---	---	287	255	273	220	191	207
11	---	---	---	---	---	---	260	216	242	217	190	204
12	251	235	---	283	263	---	324	270	---	235	197	215
13	251	237	245	283	273	---	350	292	316	226	213	---
14	253	237	245	---	---	---	359	311	337	232	216	224
15	257	241	249	---	---	---	363	312	339	233	220	227
16	289	247	272	274	259	---	365	321	344	239	223	231
17	277	237	---	276	256	268	370	326	349	239	217	231
18	263	235	248	276	256	268	353	311	334	236	221	230
19	269	236	246	281	260	273	342	305	325	242	227	236
20	267	243	253	283	265	276	298	267	---	255	233	241
21	291	245	262	287	269	---	302	269	289	258	242	250
22	318	293	309	---	---	---	302	275	289	254	241	249
23	310	251	283	287	273	---	293	264	280	260	245	---
24	269	259	266	288	265	279	291	268	276	240	224	---
25	273	257	266	284	266	276	289	253	267	245	227	237
26	263	251	259	286	269	278	289	253	266	244	231	238
27	277	257	271	285	268	278	298	274	286	247	234	241
28	273	257	267	277	253	264	303	283	294	255	236	246
29	255	245	251	279	249	261	309	202	295	252	233	243
30	253	244	248	305	279	291	328	293	307	246	228	239
31	---	---	---	311	289	301	312	248	276	---	---	---
MONTH	318	193	---	---	---	---	370	202	294	284	190	237

DISSOLVED OXYGEN (DO), IN MILLIGRAMS PER LITER, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCTOBER			NOVEMBER			DECEMBER			JANUARY		
	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	1.8	0.6	1.0	5.1	2.5	3.9	8.3	5.2	6.9	---	---	---
2	2.3	0.5	0.9	5.4	3.6	4.6	8.1	5.3	6.8	---	---	---
3	1.7	0.5	0.8	5.1	3.4	4.3	7.8	4.0	6.5	---	---	---
4	1.9	0.4	0.8	4.8	3.1	3.8	7.5	5.1	6.5	12.1	11.2	---
5	1.3	0.4	0.6	4.4	2.7	3.4	7.4	4.4	5.9	11.8	11.0	11.4
6	1.1	0.4	0.5	6.0	2.6	4.2	7.8	4.8	6.1	11.8	10.9	11.4
7	1.0	0.4	0.5	6.4	4.1	4.9	8.6	5.8	7.4	12.1	11.1	11.5
8	0.8	0.4	0.5	5.5	3.5	4.3	9.3	6.7	8.0	12.2	11.2	11.6
9	0.4	0.3	0.4	5.1	3.1	3.9	9.6	7.5	8.5	12.5	11.2	11.7
10	0.8	0.3	0.5	5.6	3.3	4.2	9.6	8.6	9.2	12.5	11.2	11.8
11	0.7	0.5	0.6	5.4	3.4	4.1	10.6	9.0	9.8	12.3	10.9	11.5
12	0.8	0.4	0.5	5.1	3.2	3.9	10.7	8.0	10.2	12.2	11.1	11.6
13	0.7	0.4	0.5	5.0	2.8	3.6	10.8	9.8	10.3	12.6	11.4	12.0
14	1.1	0.4	0.7	5.1	2.6	3.4	10.9	9.9	10.3	12.8	11.5	12.0
15	1.4	0.6	0.9	4.7	2.2	3.0	11.2	10.4	10.7	12.8	11.7	12.2
16	1.3	0.7	0.9	4.3	2.1	3.1	11.2	10.3	10.8	12.7	11.5	12.1
17	1.5	0.7	1.0	6.3	3.2	4.3	11.5	10.6	11.2	12.3	11.2	11.8
18	1.5	0.6	0.9	5.7	2.9	4.0	11.9	11.1	11.4	12.5	11.1	11.8
19	1.7	0.6	0.8	5.3	2.9	4.0	12.1	11.1	11.6	12.7	11.0	11.8
20	1.0	0.5	0.6	5.0	2.6	3.7	12.2	10.9	11.5	12.3	10.8	11.6
21	1.4	0.6	0.8	4.7	2.4	3.4	13.3	10.7	11.8	12.1	10.6	11.2
22	1.3	0.5	0.7	4.4	2.1	3.2	13.7	13.1	13.5	11.6	10.7	11.1
23	1.0	0.5	0.6	4.7	1.9	3.1	---	---	---	11.7	10.7	11.2
24	1.5	0.5	0.6	4.4	1.7	2.9	---	---	---	11.8	10.8	11.3
25	0.7	0.5	0.6	4.4	1.7	2.8	---	---	---	11.6	10.6	11.1
26	0.7	0.5	0.6	4.7	1.9	3.2	---	---	---	11.2	10.4	10.9
27	0.8	0.5	0.6	4.3	1.7	2.9	---	---	---	11.2	10.1	10.6
28	1.2	0.5	0.8	5.4	1.8	3.1	---	---	---	11.0	10.0	---
29	2.7	0.8	1.4	6.6	3.2	4.6	---	---	---	---	---	---
30	3.1	1.3	1.9	7.8	4.4	5.9	---	---	---	---	---	---
31	4.5	1.8	3.1	---	---	---	---	---	---	---	---	---
MONTH	4.5	0.3	0.8	7.8	1.7	3.8	---	---	---	12.8	10.0	---

01467200 DELAWARE RIVER AT BENJAMIN FRANKLIN BRIDGE, AT PHILADELPHIA, PA.--Continued  
 DISSOLVED OXYGEN (DO), IN MILLIGRAMS PER LITER, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	FEBRUARY			MARCH			APRIL			MAY		
	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	---	---	---	11.9	10.3	11.1	11.1	10.3	10.7	5.1	3.2	3.9
2	---	---	---	11.8	10.0	10.9	11.1	10.0	10.4	4.9	2.7	3.6
3	---	---	---	11.2	9.7	10.5	10.7	9.7	10.2	4.3	2.1	3.2
4	---	---	---	11.0	9.9	---	10.5	9.6	9.9	4.7	2.1	3.5
5	---	---	---	11.2	10.2	---	10.6	9.4	9.8	4.5	2.4	3.2
6	---	---	---	10.8	9.7	10.3	9.9	9.1	---	3.7	1.8	2.8
7	---	---	---	10.4	9.2	9.7	---	---	---	3.3	1.8	2.6
8	---	---	---	10.4	8.9	9.6	---	---	---	3.7	1.4	2.4
9	---	---	---	10.2	8.7	9.4	10.4	9.4	---	3.6	1.4	2.3
10	---	---	---	10.1	8.6	9.4	10.5	8.4	9.3	3.7	1.3	2.4
11	---	---	---	10.3	9.2	9.7	10.2	7.9	9.0	3.9	1.8	---
12	---	---	---	10.0	8.9	9.5	9.8	7.6	8.4	---	---	---
13	---	---	---	10.6	9.4	10.1	9.2	9.1	---	---	---	---
14	---	---	---	11.0	10.0	10.5	---	---	---	6.2	5.4	---
15	11.9	10.6	---	10.5	9.4	10.0	---	---	---	5.7	4.6	5.2
16	12.1	10.5	11.3	10.4	8.9	9.6	---	---	---	4.9	3.8	4.4
17	11.9	10.7	11.4	11.1	8.8	10.2	---	---	---	4.8	3.7	---
18	11.9	10.5	11.2	11.6	10.5	11.1	---	---	---	---	---	---
19	11.9	10.3	11.0	10.9	9.9	10.4	---	---	---	---	---	---
20	11.4	10.1	10.7	10.6	9.6	10.1	---	---	---	6.1	4.7	---
21	11.3	9.9	10.6	10.3	8.8	9.7	---	---	---	5.7	4.0	4.7
22	11.2	9.7	10.3	10.8	10.0	10.4	---	---	---	4.6	2.7	3.4
23	10.9	9.8	10.5	10.6	9.9	10.3	---	---	---	3.9	1.8	2.7
24	11.5	10.4	11.0	10.6	9.7	10.1	6.9	6.1	---	3.2	1.4	2.2
25	11.5	10.7	11.0	10.8	9.8	10.2	---	---	---	2.4	0.6	1.6
26	11.1	10.3	10.8	11.1	9.6	10.3	---	---	---	2.9	0.5	1.3
27	11.5	10.1	10.7	11.0	9.9	10.5	---	---	---	3.4	0.5	1.5
28	11.6	10.1	10.9	10.9	9.9	10.4	---	---	---	3.2	1.2	2.2
29	---	---	---	11.0	9.5	10.1	5.5	5.0	---	3.3	0.6	1.6
30	---	---	---	10.9	9.0	9.8	5.1	3.6	4.4	2.4	0.1	1.0
31	---	---	---	11.0	9.5	10.3	---	---	---	0.8	0.0	0.3
MONTH	---	---	---	11.9	8.6	10.1	---	---	---	6.2	0.0	---

DAY	JUNE			JULY			AUGUST			SEPTEMBER		
	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	0.8	0.0	0.3	3.0	1.5	2.3	---	---	---	---	---	---
2	---	---	---	2.8	1.4	2.1	---	---	---	---	---	---
3	---	---	---	2.0	0.7	1.5	---	---	---	---	---	---
4	2.6	0.8	---	1.4	0.6	1.1	---	---	---	0.7	0.5	---
5	3.4	0.9	2.2	1.2	1.0	---	---	---	---	1.2	0.8	1.1
6	2.5	0.5	1.4	---	---	---	---	---	---	1.1	0.9	1.0
7	2.6	0.9	1.3	---	---	---	---	---	---	1.1	0.9	1.0
8	2.5	0.4	1.5	---	---	---	---	---	---	1.2	1.0	1.1
9	2.5	0.4	---	---	---	---	---	---	---	1.3	1.1	1.2
10	---	---	---	---	---	---	---	---	---	1.3	0.8	---
11	---	---	---	---	---	---	---	---	---	---	---	---
12	2.4	0.5	---	1.4	1.0	---	---	---	---	3.3	1.5	---
13	1.8	0.1	0.7	1.5	1.2	---	---	---	---	5.7	2.7	4.1
14	1.3	0.0	0.4	---	---	---	---	---	---	5.3	2.2	3.5
15	1.0	0.0	---	---	---	---	---	---	---	5.1	2.3	3.3
16	---	---	---	1.6	0.5	---	---	---	---	5.1	1.7	3.1
17	1.0	0.3	---	1.5	0.1	0.7	---	---	---	3.9	0.4	1.5
18	1.6	0.2	0.5	0.8	0.1	0.5	---	---	---	0.9	0.1	0.5
19	2.7	0.3	---	0.7	0.1	0.4	---	---	---	0.6	0.0	0.2
20	---	---	---	0.5	0.0	---	---	---	---	0.5	0.0	0.1
21	---	---	---	---	---	---	---	---	---	0.6	0.1	0.3
22	---	---	---	---	---	---	---	---	---	0.8	0.2	0.4
23	---	---	---	---	---	---	---	---	---	1.0	0.5	---
24	0.8	0.3	---	---	---	---	---	---	---	2.5	1.0	---
25	0.5	0.3	0.4	---	---	---	---	---	---	2.4	0.6	1.1
26	0.7	0.2	0.4	---	---	---	---	---	---	2.0	0.4	1.1
27	1.1	0.3	0.6	---	---	---	---	---	---	1.7	0.3	0.9
28	3.1	0.7	1.8	---	---	---	---	---	---	1.6	0.3	0.7
29	3.3	1.4	2.4	---	---	---	---	---	---	2.7	0.3	1.0
30	3.1	2.0	2.5	---	---	---	---	---	---	4.3	1.2	2.8
31	---	---	---	---	---	---	---	---	---	---	---	---
MONTH	---	---	---	---	---	---	---	---	---	5.7	0.0	---

## DELAWARE RIVER BASIN

01467200 DELAWARE RIVER AT BENJAMIN FRANKLIN BRIDGE, AT PHILADELPHIA, PA.--Continued

TEMPERATURE (°C) OF WATER, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

[illegible][illegible]

## DELAWARE RIVER BASIN

295

01467200 DELAWARE RIVER AT BENJAMIN FRANKLIN BRIDGE, AT PHILADELPHIA, PA.--Continued

TEMPERATURE (°C) OF WATER, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

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

pH (UNITS), WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCTOBER			NOVEMBER			DECEMBER			JANUARY		
	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	6.4	6.2	6.3	6.9	6.8	6.9	6.8	6.7	6.8	---	---	---
2	7.0	6.4	6.7	6.9	6.9	6.9	6.8	6.7	6.8	---	---	---
3	7.2	6.6	6.9	6.9	6.9	6.9	6.8	6.7	6.8	---	---	---
4	6.9	6.5	6.7	6.9	6.8	6.9	6.8	6.7	6.8	7.3	7.0	---
5	6.6	6.2	6.4	6.9	6.8	6.9	7.0	6.7	6.8	7.2	6.9	7.1
6	6.5	6.2	6.3	6.9	6.8	6.9	6.8	6.7	6.8	7.1	6.8	6.9
7	6.8	6.5	6.7	6.9	6.9	6.9	6.8	6.8	6.8	7.3	6.8	7.1
8	6.9	6.6	6.8	6.9	6.8	6.9	6.8	6.8	6.8	7.4	7.2	7.3
9	6.7	6.4	6.5	6.9	6.8	6.9	6.8	6.8	6.8	7.4	7.1	7.3
10	6.5	6.4	---	6.9	6.9	6.9	6.8	6.8	6.8	7.4	7.2	7.3
11	---	---	---	6.9	6.8	6.9	6.8	6.8	6.8	7.4	7.2	7.3
12	---	---	---	6.9	6.8	6.9	6.9	6.8	6.8	7.6	7.4	7.5
13	---	---	---	6.9	6.8	6.9	6.9	6.8	6.8	7.6	7.4	7.6
14	---	---	---	6.9	6.8	6.9	6.9	6.8	6.9	7.7	7.4	7.5
15	---	---	---	6.9	6.8	6.9	6.9	6.8	6.9	7.6	7.5	7.5
16	---	---	---	6.9	6.8	6.9	6.9	6.9	6.9	7.5	7.4	7.5
17	---	---	---	6.9	6.8	6.9	6.9	6.8	6.9	7.5	7.3	7.4
18	6.8	6.7	---	6.9	6.8	6.9	6.9	6.8	6.9	7.6	7.4	7.5
19	6.8	6.8	6.8	6.9	6.8	6.9	6.9	6.8	6.9	7.5	7.4	7.4
20	6.8	6.8	6.8	6.9	6.8	6.9	6.9	6.8	6.8	7.5	7.0	7.2
21	6.9	6.8	6.8	6.9	6.8	6.9	6.9	6.8	6.8	7.1	6.9	7.0
22	6.8	6.8	6.8	6.9	6.9	6.9	6.9	6.9	6.9	7.1	7.0	7.1
23	6.8	6.8	6.8	6.9	6.8	6.9	---	---	---	7.2	7.0	7.1
24	6.8	6.8	6.8	6.9	6.8	6.9	---	---	---	7.2	7.1	7.1
25	6.8	6.8	6.8	7.1	6.9	7.0	---	---	---	7.2	7.1	7.1
26	6.8	6.7	6.8	6.9	6.6	6.8	---	---	---	7.1	7.1	7.1
27	6.8	6.8	6.8	6.8	6.7	6.8	---	---	---	7.1	7.0	7.1
28	6.8	6.8	6.8	7.0	6.6	6.8	---	---	---	7.1	7.0	---
29	7.0	6.8	6.9	6.8	6.7	6.8	---	---	---	---	---	---
30	6.9	6.8	6.9	6.8	6.7	6.8	---	---	---	---	---	---
31	6.9	6.8	6.9	---	---	---	---	---	---	---	---	---
MONTH	---	---	---	7.1	6.6	6.9	---	---	---	7.7	6.8	---



## DELAWARE RIVER BASIN

01467200 DELAWARE RIVER AT BENJAMIN FRANKLIN BRIDGE, AT PHILADELPHIA, PA.--Continued

pH (UNITS), WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	FEBRUARY			MARCH			APRIL			MAY		
	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	---	---	---	7.0	6.9	7.0	7.1	7.0	7.0	---	---	---
2	---	---	---	7.0	6.8	7.0	7.1	6.9	7.0	7.2	7.0	---
3	---	---	---	7.1	6.9	7.0	7.1	6.9	7.0	7.1	6.7	6.8
4	---	---	---	7.1	6.9	---	7.1	7.1	---	6.9	6.7	6.8
5	---	---	---	7.0	6.7	---	---	---	---	6.9	6.6	6.8
6	---	---	---	6.8	6.6	6.7	---	---	---	6.9	6.8	6.9
7	---	---	---	7.1	6.6	6.8	---	---	---	7.0	6.8	6.9
8	---	---	---	7.0	6.7	6.8	---	---	---	7.1	6.9	---
9	---	---	---	6.8	6.6	6.7	6.9	6.6	---	---	---	---
10	---	---	---	6.9	6.6	6.8	7.0	6.8	6.9	---	---	---
11	---	---	---	6.9	6.7	6.8	6.9	6.8	6.9	---	---	---
12	---	---	---	6.8	6.7	6.8	7.0	6.8	---	---	---	---
13	---	---	---	7.0	6.8	6.9	---	---	---	---	---	---
14	---	---	---	7.0	6.9	6.9	---	---	---	6.9	6.8	---
15	7.4	7.0	---	6.9	6.8	6.9	---	---	---	7.1	6.9	7.0
16	7.2	6.8	7.0	6.9	6.8	6.8	---	---	---	7.1	6.7	6.9
17	7.4	6.8	7.1	6.9	6.8	6.9	6.8	6.7	---	7.0	6.7	---
18	7.4	7.2	7.3	7.0	6.8	6.9	6.8	6.7	6.7	---	---	---
19	7.3	7.1	7.2	6.8	6.7	6.8	6.7	6.6	6.6	---	---	---
20	7.3	7.1	7.2	6.8	6.7	6.7	6.7	6.6	6.6	6.4	6.2	---
21	7.3	7.2	7.2	6.8	6.6	6.7	6.7	6.5	6.6	6.7	6.3	6.5
22	7.2	6.8	7.0	6.8	6.7	6.8	6.7	6.5	6.6	---	---	---
23	7.1	6.9	7.0	6.8	6.6	6.7	6.9	6.6	---	---	---	---
24	7.2	7.0	7.1	6.7	6.6	6.6	---	---	---	6.5	6.2	6.3
25	7.2	7.1	7.1	6.8	6.6	6.7	---	---	---	6.5	6.2	6.4
26	7.2	7.1	7.2	6.9	6.6	6.8	---	---	---	6.5	6.3	6.4
27	7.1	7.1	7.1	7.0	6.8	6.9	---	---	---	6.6	6.3	6.4
28	7.1	7.0	7.0	7.0	6.8	6.9	---	---	---	---	---	---
29	---	---	---	7.0	6.8	6.9	---	---	---	---	---	---
30	---	---	---	7.0	6.8	6.9	---	---	---	---	---	---
31	---	---	---	7.1	6.8	7.0	---	---	---	---	---	---
MONTH	---	---	---	7.1	6.6	6.8	---	---	---	---	---	---

DAY	JUNE			JULY			AUGUST			SEPTEMBER		
	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	6.8	6.4	6.5	6.3	6.2	6.3	---	---	---	6.1	5.9	6.0
2	---	---	---	6.3	6.2	6.3	---	---	---	6.1	6.0	6.1
3	---	---	---	6.3	6.2	6.2	6.5	6.3	---	6.3	6.1	6.2
4	6.6	6.0	---	6.2	6.2	6.2	6.4	6.3	6.4	6.8	6.1	6.3
5	6.7	6.0	6.3	6.2	6.1	---	6.4	6.2	6.4	6.7	6.3	6.6
6	6.5	6.0	6.3	---	---	---	7.2	6.4	6.6	6.7	6.4	6.5
7	6.6	6.0	---	---	---	---	6.9	6.6	6.8	6.4	6.2	6.3
8	---	---	---	---	---	---	7.3	6.3	6.9	6.4	6.3	6.3
9	---	---	---	---	---	---	6.7	6.2	6.5	6.4	6.1	6.3
10	---	---	---	---	---	---	6.5	6.2	6.3	6.8	6.2	6.4
11	---	---	---	---	---	---	6.6	6.2	6.4	6.6	6.4	---
12	---	---	---	6.8	6.7	---	6.5	6.2	---	---	---	---
13	---	---	---	6.8	6.8	---	6.6	6.2	6.4	---	---	---
14	---	---	---	---	---	---	6.5	6.4	6.5	---	---	---
15	---	---	---	---	---	---	6.5	6.4	6.5	---	---	---
16	---	---	---	6.8	6.7	---	6.5	6.3	6.4	---	---	---
17	6.3	6.3	---	6.8	6.7	6.7	6.6	6.3	6.5	---	---	---
18	6.3	6.1	6.2	6.8	6.7	6.8	6.7	6.3	6.4	---	---	---
19	6.5	6.1	6.3	6.8	6.7	6.7	6.5	6.3	6.4	---	---	---
20	7.1	6.2	6.5	6.8	6.7	6.8	6.3	6.1	---	---	---	---
21	6.9	6.3	6.5	6.8	6.7	---	6.3	6.2	6.3	---	---	---
22	6.8	6.3	6.5	---	---	---	6.5	6.2	6.4	---	---	---
23	6.6	6.3	6.5	---	---	---	6.6	6.3	6.5	---	---	---
24	6.3	6.2	---	---	---	---	6.5	6.2	6.3	---	---	---
25	6.4	6.0	6.3	6.6	6.4	6.4	6.4	6.2	6.3	---	---	---
26	6.4	6.2	6.3	6.7	6.4	6.5	6.4	6.1	6.3	---	---	---
27	6.4	6.3	6.4	6.7	6.5	6.6	6.0	5.9	6.0	---	---	---
28	6.6	6.3	6.5	6.7	6.3	6.5	6.3	5.9	6.0	---	---	---
29	6.5	6.3	6.4	6.5	6.3	6.3	6.1	5.9	6.0	---	---	---
30	6.4	6.2	6.3	6.5	6.3	6.4	6.0	5.9	6.0	---	---	---
31	---	---	---	6.4	6.3	---	6.1	5.9	6.0	---	---	---
MONTH	---	---	---	---	---	---	7.3	5.9	6.4	---	---	---



LOCATION.--Lat 39°52'45", long 75°12'11", Philadelphia County, water-quality recorder on right bank at outer end of L-shaped pier at Fort Mifflin, 0.4 mi (0.6 km) downstream from mouth of Schuylkill River, in Philadelphia.

Water temperatures: July 1970 to September 1974.

Period of record:

Water temperatures: Maximum, 30.0°C Sept. 4, 1973; minimum, 2.0°C Jan. 12-17, 1973.

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

	OCTOBER			NOVEMBER			DECEMBER			JANUARY		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	23.0	22.0	22.0	16.5	15.5	16.0	12.0	11.0	11.5	---	---	---
2	23.0	21.5	22.0	16.0	15.0	15.5	11.5	10.5	11.0	---	---	---
3	23.0	22.0	22.5	15.5	15.0	15.5	11.5	10.5	11.0	---	---	---
4	23.5	22.0	23.0	15.0	14.5	15.0	11.5	10.5	11.0	---	---	---
5	23.5	22.0	23.0	15.0	14.5	14.5	11.5	10.5	11.0	---	---	---
6	23.5	22.0	22.5	14.5	13.0	14.0	12.0	10.5	11.0	---	---	---
7	23.0	22.0	22.5	13.5	13.0	13.5	11.5	10.5	10.5	---	---	---
8	23.0	21.5	22.0	13.5	13.0	13.0	11.0	10.0	10.5	---	---	---
9	23.0	21.5	22.0	13.5	12.0	13.0	10.5	10.0	10.0	---	---	---
10	23.0	21.5	22.0	13.0	11.5	12.0	9.5	8.5	9.0	---	---	---
11	23.0	21.5	22.0	12.0	11.5	11.5	8.5	7.0	7.5	---	---	---
12	22.0	21.5	21.5	11.5	11.5	11.5	8.0	6.5	7.0	---	---	---
13	22.0	21.0	21.5	11.5	11.0	11.5	7.0	6.5	6.5	---	---	---
14	21.5	21.0	21.5	11.5	11.5	11.5	7.0	7.0	7.0	---	---	---
15	21.5	20.5	21.0	12.0	11.5	11.5	7.0	6.5	7.0	---	---	---
16	21.0	20.5	20.5	12.0	11.0	11.5	6.5	5.5	6.0	---	---	---
17	20.5	20.0	20.0	11.5	11.0	11.0	6.0	5.0	5.5	---	---	---
18	20.0	19.0	19.5	11.0	10.5	10.5	5.0	4.0	4.5	---	---	---
19	20.0	19.0	19.5	11.0	10.5	11.0	4.5	4.0	4.0	---	---	---
20	19.5	18.5	19.0	11.0	10.5	11.0	---	---	---	---	---	---
21	19.5	18.5	19.0	11.0	10.5	11.0	---	---	---	---	---	---
22	19.0	18.5	19.0	11.5	11.0	11.0	---	---	---	---	---	---
23	19.5	18.5	19.0	11.5	11.0	11.0	---	---	---	---	---	---
24	19.0	18.5	18.5	11.5	11.0	11.0	---	---	---	---	---	---
25	18.5	18.0	18.0	12.0	11.5	11.5	---	---	---	---	---	---
26	18.5	18.0	18.0	11.5	11.5	11.5	---	---	---	---	---	---
27	18.5	18.0	18.0	12.0	11.5	11.5	---	---	---	---	---	---
28	18.5	17.0	17.5	13.0	11.5	12.0	---	---	---	---	---	---
29	18.5	17.0	17.5	13.0	11.5	12.0	---	---	---	---	---	---
30	18.5	17.0	18.0	13.0	11.0	11.5	---	---	---	---	---	---
31	17.0	16.5	16.5	---	---	---	---	---	---	---	---	---
MONTH	23.5	16.5	20.5	16.5	10.5	12.5	---	---	---	---	---	---

[illegible]

## DELAWARE RIVER BASIN

01474703 DELAWARE RIVER AT FORT MIFFLIN, AT PHILADELPHIA, PA.--Continued

TEMPERATURE (°C) OF WATER, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

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

## 01477050 DELAWARE RIVER AT CHESTER, PA.

LOCATION.--Lat 39°50'12", long 75°22'00", Delaware County, 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 mi<sup>2</sup> (26,700 km<sup>2</sup>).

PERIOD OF RECORD.--Chemical analyses: December 1961 to September 1974.  
Water temperatures: December 1961 to September 1974.

## EXTREMES.--1973-74:

Specific conductance: Maximum, 853 micromhos Oct. 26; minimum, 143 micromhos, Dec. 3.  
Dissolved oxygen: Maximum, 9.7 mg/l Jan. 13-15; minimum, 0.1 mg/l Sept. 20.  
Water temperatures: Maximum, 28.5°C Aug. 30, 31, Sept. 2, 3; minimum, 1.5°C Jan. 14, 15.  
pH: Maximum, 8.4 Dec. 21; minimum, 5.9 Oct. 26.

## Period of record:

Specific conductance: Maximum, 5,900 micromhos Oct. 7, 1965; minimum, 98 micromhos July 4, 1973.  
Dissolved oxygen: Maximum, 13.7 mg/l Jan. 10, 1973; minimum, 0.0 mg/l on many days.  
Water temperatures: Maximum, 30.0°C July 13, 14, 1966, Apr. 3, 4, 1967, Aug. 4, 1968; minimum, freezing point on many days during winter months.  
pH (1968-74): Maximum, 8.7 Sept. 13, 14, 1971; minimum, 5.5 Dec. 10, 11, 1969, Oct. 6 and Dec. 1, 1972.

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

## SPECIFIC CONDUCTANCE (MICROMHOS AT 25°C), WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCTOBER			NOVEMBER			DECEMBER			JANUARY		
	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	---	---	---	519	427	466	397	381	389	---	---	---
2	---	---	---	449	421	435	399	379	386	---	---	---
3	---	---	---	443	421	---	407	143	373	---	---	---
4	---	---	---	433	401	424	409	387	397	---	---	---
5	---	---	---	433	393	415	411	385	397	---	---	---
6	---	---	---	405	385	396	395	357	374	---	---	---
7	---	---	---	407	383	395	377	361	370	253	219	---
8	---	---	---	421	387	402	375	367	371	257	233	245
9	---	---	---	415	379	401	373	357	368	263	235	246
10	---	---	---	403	383	396	367	343	355	271	239	251
11	---	---	---	399	379	394	349	317	335	297	239	272
12	---	---	---	407	397	401	321	307	314	311	275	291
13	---	---	---	411	399	406	307	297	302	299	273	284
14	---	---	---	421	391	407	303	285	293	295	275	284
15	452	396	---	437	391	408	287	277	281	289	277	284
16	466	396	422	435	379	405	279	273	276	291	285	288
17	479	401	431	401	377	389	279	273	---	291	285	288
18	531	403	455	421	379	395	---	---	---	289	281	285
19	542	416	461	415	383	400	---	---	---	287	283	285
20	563	434	486	395	379	388	265	235	---	291	285	288
21	553	434	477	451	381	401	299	231	263	293	285	289
22	561	459	503	453	399	421	271	227	245	307	293	302
23	613	450	524	457	397	426	237	213	225	301	295	298
24	661	446	538	475	395	430	235	195	215	311	301	305
25	726	450	---	479	391	428	---	---	---	311	305	308
26	853	521	---	505	389	430	---	---	---	309	301	304
27	833	525	655	517	399	451	---	---	---	303	299	301
28	821	510	636	509	403	451	---	---	---	307	301	303
29	766	511	---	459	385	410	---	---	---	305	291	299
30	759	455	565	413	379	396	---	---	---	297	285	---
31	559	443	494	---	---	---	---	---	---	---	---	---
MONTH	---	---	---	519	377	413	---	---	---	---	---	---
DAY	FEBRUARY			MARCH			APRIL			MAY		
	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	---	---	---	335	315	326	247	227	238	269	235	243
2	---	---	---	327	313	317	241	221	231	263	235	248
3	---	---	---	321	305	310	239	219	226	299	265	284
4	219	211	---	321	299	308	239	221	230	299	273	285
5	217	211	214	319	283	301	245	225	236	273	254	264
6	215	209	212	291	275	283	240	213	224	273	254	262
7	219	213	216	291	269	278	215	205	208	279	261	270
8	235	219	226	275	261	267	207	204	206	279	269	274
9	249	235	243	263	257	260	223	204	213	283	269	277
10	263	251	257	263	249	256	227	207	216	289	275	284
11	269	263	266	277	249	257	225	197	212	289	279	285
12	265	255	258	279	257	265	215	189	199	291	274	283
13	269	259	266	273	257	264	209	185	197	275	259	266
14	283	269	277	273	255	262	203	189	196	277	263	271
15	295	283	290	265	257	261	219	189	205	273	247	264
16	303	293	300	265	257	261	215	195	207	271	231	244
17	307	301	304	265	247	256	221	199	209	251	227	232
18	311	305	309	257	243	249	223	199	210	233	219	226
19	315	309	311	257	237	248	241	201	212	227	219	224
20	311	305	308	251	241	245	229	207	217	224	219	221
21	331	307	316	253	235	243	235	211	221	225	211	216
22	333	315	324	259	229	238	235	204	224	227	207	213
23	335	321	328	245	237	241	225	200	213	215	205	---
24	333	319	326	253	239	244	233	207	216	213	207	---
25	335	321	329	245	233	238	219	207	210	207	207	---
26	353	319	335	249	229	238	227	211	221	215	207	211
27	341	327	---	243	223	230	231	215	224	219	209	215
28	345	323	332	243	225	231	251	231	241	245	213	226
29	---	---	---	249	225	231	253	231	243	---	---	---
30	---	---	---	239	229	235	247	231	239	---	---	---
31	---	---	---	231	217	224	---	---	---	---	---	---
MONTH	353	209	285	335	217	260	253	185	218	299	205	252

## DELAWARE RIVER BASIN

01477050 DELAWARE RIVER AT CHESTER, PA.--Continued

SPECIFIC CONDUCTANCE (MICROMHOS AT 25°C), WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	JUNE			JULY			AUGUST			SEPTEMBER		
	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	---	---	---	---	---	---	---	---	---	---	---	---
2	---	---	---	---	---	---	---	---	---	---	---	---
3	---	---	---	---	---	---	---	---	---	---	---	---
4	---	---	---	---	---	---	---	---	---	---	---	---
5	---	---	---	---	---	---	---	---	---	---	---	---
6	291	287	---	---	---	---	---	---	---	---	---	---
7	291	281	286	---	---	---	---	---	---	---	---	---
8	283	281	---	---	---	---	---	---	---	---	---	---
9	---	---	---	---	---	---	---	---	---	---	---	---
10	---	---	---	---	---	---	---	---	---	293	267	---
11	---	---	---	---	---	---	---	---	---	281	257	269
12	---	---	---	---	---	---	---	---	---	275	257	266
13	---	---	---	---	---	---	---	---	---	273	255	263
14	---	---	---	---	---	---	---	---	---	267	251	260
15	---	---	---	---	---	---	---	---	---	265	247	256
16	---	---	---	---	---	---	---	---	---	257	231	242
17	---	---	---	---	---	---	---	---	---	251	233	240
18	---	---	---	---	---	---	---	---	---	257	239	247
19	---	---	---	---	---	---	---	---	---	267	237	247
20	---	---	---	---	---	---	---	---	---	347	241	281
21	---	---	---	---	---	---	---	---	---	369	349	358
22	---	---	---	---	---	---	---	---	---	381	367	376
23	---	---	---	---	---	---	---	---	---	373	327	354
24	---	---	---	---	---	---	---	---	---	331	285	306
25	---	---	---	---	---	---	---	---	---	293	285	289
26	---	---	---	---	---	---	---	---	---	---	---	---
27	---	---	---	---	---	---	---	---	---	---	---	---
28	---	---	---	---	---	---	---	---	---	---	---	---
29	---	---	---	---	---	---	---	---	---	305	279	298
30	---	---	---	---	---	---	---	---	---	303	279	298
31	---	---	---	---	---	---	---	---	---	322	296	311
MONTH	---	---	---	---	---	---	---	---	---	---	---	---

DISSOLVED OXYGEN (DO), IN MILLIGRAMS PER LITER, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCTOBER			NOVEMBER			DECEMBER			JANUARY		
	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	---	---	---	2.5	2.0	2.3	2.5	2.0	2.4	---	---	---
2	---	---	---	2.5	2.3	2.4	2.5	2.0	2.3	---	---	---
3	---	---	---	2.4	2.2	---	2.6	2.1	2.3	---	---	---
4	---	---	---	2.4	2.0	2.3	2.5	2.2	2.3	---	---	---
5	---	---	---	2.9	2.2	2.5	2.4	2.1	2.2	---	---	---
6	---	---	---	3.2	2.7	2.9	2.8	2.1	2.4	---	---	---
7	---	---	---	3.3	2.8	3.1	2.7	2.3	2.5	9.6	9.5	---
8	---	---	---	3.2	2.7	2.9	2.7	2.4	2.5	9.6	9.5	9.6
9	---	---	---	3.1	2.7	2.9	3.5	2.0	3.0	9.6	9.4	9.5
10	---	---	---	3.3	3.0	3.1	3.6	3.2	3.4	9.6	9.4	9.5
11	---	---	---	3.2	3.1	3.1	4.0	2.0	3.5	9.5	9.4	9.4
12	---	---	---	3.2	2.9	3.0	4.0	3.7	3.9	9.6	9.4	9.5
13	---	---	---	3.0	2.6	2.7	4.1	3.8	3.9	9.7	9.4	9.5
14	---	---	---	2.8	2.4	2.6	4.2	3.9	4.1	9.6	9.4	9.5
15	2.2	2.1	---	2.7	2.4	2.6	4.3	2.1	4.0	9.7	9.5	9.6
16	2.2	2.0	2.1	3.2	2.4	2.8	4.2	4.0	4.1	9.6	9.4	9.5
17	2.3	2.1	2.2	3.4	2.9	3.2	4.3	4.1	---	9.5	9.3	9.4
18	2.5	2.1	2.2	3.3	3.0	3.1	---	---	---	9.5	9.3	9.4
19	2.2	2.1	2.2	3.1	2.9	3.0	---	---	---	9.5	9.3	9.4
20	2.2	2.0	2.1	2.9	2.7	2.8	5.5	5.2	---	9.5	9.3	9.4
21	2.1	1.9	2.0	2.9	2.5	2.6	6.2	5.3	5.7	9.5	9.4	9.4
22	2.0	1.8	1.9	2.6	2.3	2.5	6.5	6.0	6.2	9.5	9.3	9.4
23	1.9	1.7	1.8	2.5	2.0	2.2	6.8	5.2	6.6	9.4	9.3	9.3
24	1.8	1.7	1.7	2.2	1.9	2.0	6.7	6.4	6.6	9.4	9.2	9.3
25	1.9	1.7	---	2.0	1.8	1.8	---	---	---	---	---	---
26	1.8	1.7	---	2.0	1.8	1.9	---	---	---	---	---	---
27	1.9	1.7	1.8	2.0	1.7	1.8	---	---	---	---	---	---
28	2.3	1.7	2.0	1.9	1.7	1.8	---	---	---	---	---	---
29	2.7	2.2	---	2.3	1.7	2.0	---	---	---	---	---	---
30	2.6	2.0	2.4	2.6	2.0	2.3	---	---	---	---	---	---
31	2.3	2.0	2.2	---	---	---	---	---	---	---	---	---
MONTH	---	---	---	3.4	1.7	2.6	---	---	---	---	---	---

## DELAWARE RIVER BASIN

301

01477050 DELAWARE RIVER AT CHESTER, PA.--Continued

DISSOLVED OXYGEN (DO), IN MILLIGRAMS PER LITER, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	FEBRUARY			MARCH			APRIL			MAY		
	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	---	---	---	7.9	7.7	7.8	8.8	7.6	8.1	3.7	3.1	3.4
2	---	---	---	7.7	7.4	7.6	8.8	8.6	8.7	3.7	3.4	3.5
3	---	---	---	7.3	6.4	7.2	8.7	8.5	8.6	3.5	3.3	3.4
4	---	---	---	7.1	6.8	6.9	8.6	8.3	8.5	3.5	3.1	3.2
5	---	---	---	---	---	---	8.5	8.4	8.4	3.7	3.0	3.3
6	---	---	---	---	---	---	8.5	8.4	8.4	3.3	2.7	3.0
7	---	---	---	---	---	---	8.6	8.4	8.5	2.8	2.4	2.6
8	---	---	---	---	---	---	8.6	8.4	8.5	2.8	2.4	2.5
9	---	---	---	---	---	---	8.6	8.2	8.4	3.1	2.5	2.7
10	---	---	---	---	---	---	8.6	8.2	8.3	2.9	2.2	2.6
11	---	---	---	---	---	---	8.6	8.4	8.4	2.8	2.2	2.3
12	---	---	---	---	---	---	8.5	8.3	8.4	2.4	2.1	2.2
13	---	---	---	---	---	---	8.4	8.2	8.3	3.0	2.4	2.6
14	---	---	---	---	---	---	8.4	8.2	8.3	3.2	2.2	2.7
15	---	---	---	---	---	---	8.3	7.6	8.0	3.7	2.7	3.1
16	---	---	---	---	---	---	7.7	7.6	7.6	3.4	3.2	3.3
17	---	---	---	---	---	---	7.6	7.5	7.6	3.5	3.0	3.2
18	---	---	---	8.2	8.1	---	7.5	7.4	7.5	3.3	2.7	3.0
19	---	---	---	8.2	6.0	7.9	7.6	7.3	7.4	2.9	2.5	2.7
20	---	---	---	8.0	7.9	8.0	7.7	5.7	7.0	3.0	2.4	2.7
21	8.7	8.6	---	8.1	7.9	7.9	6.9	5.6	6.3	2.5	2.2	2.4
22	8.8	8.6	8.7	8.1	6.0	7.9	6.3	5.5	6.0	2.5	2.2	---
23	9.0	8.8	8.9	8.0	7.9	7.9	6.0	5.2	5.7	---	---	---
24	9.0	8.8	8.9	7.9	7.8	7.9	6.2	5.6	6.0	---	---	---
25	8.9	8.7	8.8	8.0	6.0	7.6	6.3	5.5	5.9	---	---	---
26	8.9	8.5	8.8	7.5	7.3	7.4	5.9	5.0	5.6	1.9	1.7	1.8
27	8.3	8.1	---	7.5	7.4	7.5	5.9	4.8	5.4	2.1	1.7	1.9
28	8.1	7.8	8.0	7.5	7.4	7.4	5.6	4.8	5.3	2.1	1.7	2.0
29	---	---	---	7.5	7.4	7.5	5.0	3.7	4.3	2.3	1.9	2.1
30	---	---	---	7.7	7.5	7.6	3.7	3.4	3.5	2.1	1.7	1.9
31	---	---	---	7.7	7.6	7.7	---	---	---	1.9	1.6	1.7
MONTH	---	---	---	---	---	---	8.8	3.4	7.2	3.7	1.6	2.7

DAY	JUNE			JULY			AUGUST			SEPTEMBER		
	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	1.9	1.5	1.7	---	---	---	---	---	---	2.2	0.8	1.3
2	1.7	1.2	1.4	---	---	---	---	---	---	1.7	0.8	1.0
3	1.6	1.0	1.5	---	---	---	---	---	---	2.4	0.8	1.2
4	2.0	1.3	---	---	---	---	---	---	---	1.4	0.8	1.0
5	---	---	---	---	---	---	1.6	1.2	---	2.9	0.9	1.7
6	---	---	---	---	---	---	1.6	0.7	1.0	2.2	1.5	1.9
7	---	---	---	---	---	---	1.2	0.6	0.8	2.0	1.0	1.3
8	---	---	---	---	---	---	1.1	0.5	0.7	2.1	0.8	1.3
9	---	---	---	---	---	---	1.0	0.4	0.7	2.2	0.8	1.3
10	---	---	---	---	---	---	0.9	0.4	0.6	2.2	0.8	1.2
11	---	---	---	---	---	---	1.8	0.6	1.3	2.0	0.7	1.3
12	---	---	---	---	---	---	2.7	1.1	1.8	1.4	0.9	1.1
13	---	---	---	---	---	---	2.3	0.9	1.4	1.8	0.9	1.2
14	---	---	---	---	---	---	2.3	0.8	1.4	2.2	0.9	1.3
15	---	---	---	---	---	---	2.6	1.2	1.6	2.1	0.9	1.4
16	---	---	---	---	---	---	2.4	1.2	1.7	2.5	0.9	1.6
17	1.6	1.4	---	---	---	---	2.7	1.1	1.8	2.0	0.4	1.1
18	1.5	1.2	1.3	---	---	---	2.1	1.0	1.6	1.2	0.3	0.6
19	1.7	1.1	1.3	---	---	---	1.9	1.1	1.4	0.8	0.2	0.3
20	1.6	1.2	1.3	---	---	---	1.5	0.9	1.1	0.4	0.1	0.3
21	1.4	0.9	1.1	---	---	---	1.4	0.9	1.0	0.9	0.2	0.4
22	1.3	0.9	1.1	---	---	---	1.6	0.8	1.2	1.0	0.2	0.4
23	1.3	1.1	---	---	---	---	1.9	0.9	1.3	2.5	0.2	0.8
24	---	---	---	---	---	---	1.2	0.5	0.9	2.9	1.1	2.1
25	---	---	---	---	---	---	1.2	0.6	0.9	2.8	1.8	2.4
26	---	---	---	---	---	---	2.7	0.8	1.4	---	---	---
27	---	---	---	---	---	---	3.6	0.7	1.6	2.4	2.4	---
28	---	---	---	---	---	---	1.6	0.7	1.2	3.1	1.5	2.1
29	---	---	---	---	---	---	3.3	0.8	1.5	2.5	1.1	1.7
30	---	---	---	---	---	---	3.4	0.9	1.6	3.3	1.5	2.1
31	---	---	---	---	---	---	2.8	0.9	1.6	---	---	---
MONTH	---	---	---	---	---	---	3.6	0.4	1.3	3.3	0.1	1.3



## DELAWARE RIVER BASIN

01477050 DELAWARE RIVER AT CHESTER, PA.--Continued

TEMPERATURE (°C) OF WATER, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

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

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



## DELAWARE RIVER BASIN

303

01477050 DELAWARE RIVER AT CHESTER, PA.--Continued

TEMPERATURE (°C) OF WATER, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

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

pH (UNITS), WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCTOBER			NOVEMBER			DECEMBER			JANUARY		
	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	---	---	---	6.6	6.4	6.6	6.6	6.4	6.5	---	---	---
2	---	---	---	6.6	6.6	6.6	6.6	6.4	6.5	---	---	---
3	---	---	---	6.6	6.5	---	6.9	6.4	6.7	---	---	---
4	---	---	---	6.6	6.5	6.5	6.9	6.4	6.7	---	---	---
5	---	---	---	6.6	6.5	6.6	7.4	6.4	7.0	---	---	---
6	---	---	---	6.6	6.5	6.6	8.0	6.9	7.1	---	---	---
7	---	---	---	6.7	6.5	6.6	7.0	6.9	7.0	6.9	6.8	---
8	---	---	---	6.7	6.5	6.6	7.1	6.9	7.0	6.9	6.8	6.9
9	---	---	---	6.7	6.4	6.5	7.3	6.8	7.0	7.0	6.8	6.9
10	---	---	---	6.6	6.5	6.5	7.3	7.0	7.1	8.4	6.7	7.0
11	---	---	---	6.6	6.4	6.5	7.3	7.2	7.3	8.4	7.4	7.6
12	---	---	---	6.6	6.4	6.4	7.4	7.3	7.3	8.3	6.9	7.0
13	---	---	---	6.4	6.3	6.4	7.4	7.1	7.3	7.0	6.9	6.9
14	---	---	---	6.4	6.3	6.3	8.1	7.3	7.7	7.0	6.9	7.0
15	6.4	6.3	---	6.3	6.2	6.3	7.4	7.1	7.3	7.0	6.9	7.0
16	6.4	6.2	6.3	6.4	6.2	6.3	7.3	7.2	7.2	7.0	6.8	6.9
17	6.4	6.3	6.3	6.4	6.3	6.3	7.3	7.2	---	7.0	6.9	6.9
18	6.4	6.0	6.3	6.4	6.3	6.3	---	---	---	7.0	6.9	7.0
19	6.4	6.2	6.3	6.4	6.3	6.4	---	---	---	7.0	6.7	6.9
20	6.4	6.2	6.3	6.4	6.3	6.3	8.3	7.4	---	7.0	6.9	7.0
21	6.3	6.1	6.2	6.9	6.3	6.4	8.4	7.0	8.0	7.0	6.8	6.9
22	6.3	6.0	6.2	6.4	6.2	6.3	7.3	6.9	7.1	7.9	7.0	7.5
23	6.3	6.0	6.2	6.3	6.1	6.2	7.2	6.8	6.9	7.5	7.0	7.1
24	6.2	6.0	6.1	6.4	6.1	6.2	6.9	6.7	6.8	8.0	7.0	7.4
25	6.2	6.0	---	6.6	6.1	6.4	---	---	---	7.1	7.0	7.1
26	6.2	5.9	---	6.9	6.1	6.6	---	---	---	7.1	7.0	7.1
27	6.2	6.0	6.1	7.4	6.8	7.2	---	---	---	7.1	6.9	7.0
28	6.3	6.0	6.2	7.7	6.6	7.4	---	---	---	7.9	6.9	7.2
29	7.2	6.1	---	6.8	6.4	6.6	---	---	---	7.1	6.9	7.0
30	6.5	6.3	6.4	6.6	6.4	6.5	---	---	---	7.0	6.9	---
31	6.5	6.4	6.4	---	---	---	---	---	---	---	---	---
MONTH	---	---	---	7.7	6.1	6.5	---	---	---	---	---	---

## DELAWARE RIVER BASIN

01477050 DELAWARE RIVER AT CHESTER, PA.--Continued

pH (UNITS), WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	FEBRUARY			MARCH			APRIL			MAY		
	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	---	---	---	---	---	---	6.9	6.8	6.9	7.0	6.8	6.8
2	---	---	---	---	---	---	6.9	6.8	6.9	6.9	6.8	6.9
3	---	---	---	---	---	---	6.9	6.8	6.8	6.9	6.8	6.9
4	6.8	6.7	---	6.9	6.8	---	7.2	6.8	7.0	6.9	6.8	6.9
5	---	---	---	6.9	6.8	6.9	7.3	6.9	7.2	6.9	6.8	6.9
6	---	---	---	6.9	6.8	6.8	6.9	6.8	6.9	6.9	6.7	6.8
7	---	---	---	6.8	6.8	6.8	6.9	6.8	6.9	6.8	6.7	6.8
8	---	---	---	6.8	6.8	6.8	6.9	6.8	6.9	6.8	6.7	6.8
9	---	---	---	6.8	6.8	6.8	6.9	6.8	6.9	6.8	6.8	6.8
10	---	---	---	6.8	6.8	6.8	7.0	6.8	6.9	6.8	6.7	6.8
11	---	---	---	6.9	6.8	6.8	7.0	6.9	6.9	6.8	6.7	6.7
12	---	---	---	6.9	6.8	6.9	6.9	6.8	6.9	6.7	6.7	6.7
13	---	---	---	6.9	6.9	6.9	7.1	6.8	6.9	6.9	6.7	6.8
14	---	---	---	6.9	6.9	6.9	7.1	6.9	6.9	6.9	6.8	6.9
15	---	---	---	7.0	6.9	6.9	7.2	6.8	7.0	7.0	6.9	6.9
16	---	---	---	7.0	6.9	6.9	7.0	7.0	7.0	6.9	6.9	6.9
17	---	---	---	7.0	6.9	6.9	7.0	6.9	7.0	7.0	6.9	6.9
18	---	---	---	7.0	6.9	6.9	7.1	6.9	7.0	6.9	6.9	6.9
19	---	---	---	7.0	6.8	6.9	7.2	6.9	7.0	6.9	6.9	6.9
20	---	---	---	7.0	6.9	6.9	7.0	7.0	7.0	6.9	6.9	6.9
21	6.5	6.4	---	6.9	6.8	6.9	7.0	6.9	7.0	---	---	---
22	6.5	6.4	---	6.9	6.8	6.9	7.0	6.9	7.0	---	---	---
23	---	---	---	6.9	6.8	6.9	7.0	6.9	7.0	---	---	---
24	---	---	---	6.9	6.8	6.9	7.0	7.0	7.0	---	---	---
25	---	---	---	6.9	6.8	6.9	7.0	7.0	7.0	---	---	---
26	---	---	---	6.9	6.8	6.9	7.0	6.9	7.0	6.9	6.8	6.9
27	---	---	---	6.9	6.8	6.9	7.0	6.9	7.0	6.9	6.9	6.9
28	---	---	---	6.9	6.8	6.9	7.0	6.9	7.0	6.9	6.8	6.9
29	---	---	---	6.9	6.8	6.9	7.0	6.8	7.0	7.0	6.8	6.8
30	---	---	---	6.9	6.8	6.8	6.9	6.8	6.8	6.8	6.8	6.8
31	---	---	---	7.0	6.9	6.9	---	---	---	6.8	6.8	6.8
MONTH	---	---	---	7.0	6.8	6.9	7.3	6.8	7.0	7.0	6.7	6.8

DAY	JUNE			JULY			AUGUST			SEPTEMBER		
	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	6.8	6.8	6.8	---	---	---	---	---	---	6.7	6.7	6.7
2	6.9	6.8	6.8	---	---	---	---	---	---	6.7	6.7	6.7
3	6.8	6.8	6.8	---	---	---	---	---	---	6.7	6.7	6.7
4	6.8	6.6	6.8	---	---	---	---	---	---	6.7	6.7	6.7
5	6.8	6.7	---	---	---	---	6.7	6.7	---	6.7	6.7	6.7
6	---	---	---	---	---	---	6.8	6.7	6.7	6.8	6.7	6.7
7	---	---	---	---	---	---	6.7	6.7	6.7	6.8	6.7	6.7
8	---	---	---	---	---	---	6.7	6.7	6.7	6.8	6.6	6.7
9	---	---	---	---	---	---	6.7	6.7	6.7	6.7	6.7	6.7
10	---	---	---	---	---	---	6.7	6.7	6.7	6.9	6.7	6.8
11	---	---	---	---	---	---	6.8	6.7	6.7	6.8	6.7	6.8
12	---	---	---	---	---	---	6.9	6.7	6.8	6.8	6.7	6.7
13	---	---	---	---	---	---	6.8	6.7	6.8	6.8	6.7	6.7
14	6.6	6.6	---	---	---	---	6.8	6.7	6.8	6.8	6.6	6.7
15	6.6	6.6	6.6	---	---	---	6.8	6.7	6.7	6.7	6.7	6.7
16	6.6	6.5	6.6	---	---	---	6.8	6.7	6.7	6.7	6.7	6.7
17	6.8	6.5	6.7	---	---	---	6.8	6.7	6.7	6.7	6.4	6.6
18	6.9	6.8	6.8	---	---	---	6.8	6.7	6.8	6.5	6.4	6.5
19	6.9	6.8	6.8	---	---	---	6.8	6.8	6.8	6.5	6.4	6.5
20	6.8	6.7	6.8	---	---	---	6.8	6.8	6.8	6.5	6.4	6.5
21	6.8	6.8	6.8	---	---	---	6.8	6.8	6.8	6.5	6.4	6.5
22	6.8	6.8	6.8	---	---	---	6.8	6.8	6.8	6.5	6.4	6.5
23	6.8	6.8	---	---	---	---	6.9	6.8	6.8	6.5	6.4	6.5
24	---	---	---	---	---	---	6.9	6.8	6.8	6.7	6.4	6.5
25	---	---	---	---	---	---	6.8	6.7	6.8	6.9	6.6	6.7
26	---	---	---	---	---	---	6.9	6.7	6.8	---	---	---
27	---	---	---	---	---	---	6.8	6.7	6.7	---	---	---
28	---	---	---	---	---	---	6.7	6.7	6.7	6.9	6.4	6.5
29	---	---	---	---	---	---	6.8	6.7	6.7	6.4	6.3	6.4
30	---	---	---	---	---	---	6.7	6.7	6.7	6.9	6.1	6.5
31	---	---	---	---	---	---	6.7	6.7	6.7	---	---	---
MONTH	---	---	---	---	---	---	6.9	6.7	6.7	6.9	6.1	6.6

## DELAWARE RIVER BASIN

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01477120 RACCOON CREEK NEAR SWEDSBORO, N. J.

LOCATION.--Lat 39°44'25", long 75°15'34", Gloucester County, at gaging station at county bridge No. 5-F-3, 2.8 mi (4.5 km) east of Swedesboro.

DRAINAGE AREA.--29.9 mi<sup>2</sup> (77.4 km<sup>2</sup>).

PERIOD OF RECORD.--Chemical analyses: Water years 1966-72 (partial-record station), October 1972 to September 1974.

Water temperatures: May 1966 to September 1973.

Sediment records: June 1966 to September 1969.

REMARKS.--Miscellaneous storm sediment samples collected during water years 1971-73.

## WATER QUALITY DATA, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DATE	TIME	INSTANTANEOUS DIS- CHARGE (CFS)	TEMPER- ATURE (DEG C)	SPE- CIFIC CON- DUCT- ANCE (MICRO- MHOS)	PH (UNITS)	DIS- SOLVED OXYGEN (MG/L)	BIO- CHEM- ICAL OXYGEN DEMAND 5 DAY (MG/L)	TUR- BID- ITY (JTU)	COLOR (PLAT- INUM- COBALT UNITS)	TOTAL NITRITE (N) (MG/L)
NOV. 28...	1030	21	14.0	188	6.8	10.0	.0	--	--	.04
FEB. 12...	1020	33	2.3	166	6.8	13.8	.4	--	--	.00
APR. 18...	1010	45	13.1	165	6.6	10.6	.7	--	--	--
MAY 16...	1040	35	19.9	156	6.3	9.0	.9	--	--	.02
JUNE 19...	1345	19	21.7	179	6.6	9.2	1.2	--	--	--
JULY 19...	1030	15	22.2	184	8.2	8.8	1.5	--	--	--
AUG. 20...	1135	15	22.3	189	6.6	10.2	1.5	--	--	--
SEP. 11...	1250	18	21.4	176	7.5	10.4	1.3	6	1	.00

DATE	TOTAL NITRATE (N) (MG/L)	TOTAL KJEL- DAHL NITRO- GEN (N) (MG/L)	AMMONIA NITRO- GEN (N) (MG/L)	ORGANIC NITRO- GEN (N) (MG/L)	TOTAL NITRO- GEN (N) (MG/L)	TOTAL PHOS- PHORUS (P) (MG/L)	TOTAL ORTHO PHOS- PHORUS (P) (MG/L)	DIS- SOLVED ORTHO. PHOS- PHORUS (P) (MG/L)	TOTAL ORGANIC CARBON (C) (MG/L)
NOV. 28...	1.7	.29	.12	.17	2.0	.15	.05	.06	--
FEB. 12...	1.9	.21	.10	.11	2.1	.06	.03	.03	1.0
APR. 18...	--	--	--	--	--	--	--	--	--
MAY 16...	1.3	.26	.11	.15	1.6	.12	.05	--	--
JUNE 19...	--	--	--	--	--	--	--	--	--
JULY 19...	--	--	--	--	--	--	--	--	--
AUG. 20...	--	--	--	--	--	--	--	--	--
SEP. 11...	1.0	.18	.14	.04	1.2	.13	.08	--	4.8

01477120 RACCOON CREEK NEAR SWEDESBO, N. J.--Continued

## WATER QUALITY DATA, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DATE	IMME- DIATE COLI- FORM (COL. PER 100 ML)	FECAL COLI- FORM (COL. PER 100 ML)	STREP- TOCOC- CI (COL- ONIES PER 100 ML)	ALKA- LINITY AS CAC03 (MG/L)	BICAR- BONATE (HCO3) (MG/L)	CARBON DIOXIDE (CO2) (MG/L)	TOTAL CAL- CIUM (CA) (MG/L)	TOTAL MAG- NE- SIUM (MG) (MG/L)	TOTAL SODIUM (NA) (MG/L)
NOV. 28...	1100	180	440	--	--	--	--	--	--
FEB. 12...	70	10	8	--	--	--	--	--	--
APR. 18...	780	168	80	--	--	--	--	--	--
MAY 16...	1350	290	240	--	--	--	--	--	--
JUNE 19...	1600	240	1040	--	--	--	--	--	--
JULY 19...	6000	440	500	--	--	--	--	--	--
AUG. 20...	1800	760	540	--	--	--	--	--	--
SEP. 11...	8100	1260	940	29	35	1.8	19	3.4	4.5

DATE	TOTAL PO- TAS- SIUM (K) (MG/L)	DIS- SOLVED CHLO- RIDE (CL) (MG/L)	DIS- SOLVED SULFATE (SO4) (MG/L)	TOTAL FLUO- RIDE (F) (MG/L)	DIS- SOLVED SILICA (SiO2) (MG/L)	DIS- SOLVED SOLIDS (RESI- DUE AT 180 C) (MG/L)	DIS- SOLVED SOLIDS (TONS PER AC-FT)	TOTAL IRON (FE) (UG/L)	TOTAL MAN- GANESE (MN) (UG/L)
NOV. 28...	--	--	--	--	--	--	--	--	--
FEB. 12...	--	--	--	--	--	--	--	--	--
APR. 18...	--	--	--	--	--	--	--	--	--
MAY 16...	--	--	--	--	--	--	--	--	--
JUNE 19...	--	--	--	--	--	--	--	--	--
JULY 19...	--	--	--	--	--	--	--	--	--
AUG. 20...	--	--	--	--	--	--	--	--	--
SEP. 11...	3.0	11	23	.3	10	121	.16	1700	80

01482100 DELAWARE RIVER AT DELAWARE MEMORIAL BRIDGE, NEAR WILMINGTON, DEL.

LOCATION.--Lat 39°41'18", long 75°31'06", New Castle County, at center of the navigational channel at bridge between Pigeon Point, Del. and Deepwater Point, N. J. Water-quality recorder (39°41'21", 75°31'19") at tidal-gaging station located on channel side of west tower of south bridge.

DRAINAGE AREA.--11,030 mi<sup>2</sup> (28,600 km<sup>2</sup>).

PERIOD OF RECORD.--Chemical analyses: July 1965 to September 1974.

Water temperatures: October 1956 to September 1974.

EXTREMES.--1973-74:

Specific conductance: Maximum, 7,180 micromhos July 29; minimum, 100 micromhos on several days during spring months.

Dissolved oxygen: Maximum, 12.8 mg/l Nov. 9; minimum, 0.0 mg/l July 8.

Water temperatures: Maximum, 28.0°C July 10; minimum, 1.5°C several days in January.

pH: Maximum, 7.1 Mar. 16, 17; minimum, 5.3 June 1.

Period of record:

Specific conductance: Maximum, 14,600 micromhos Oct. 6, 1957; minimum, 100 micromhos on many days.

Dissolved oxygen (1962-74): Maximum, 13.5 mg/l Dec. 29, 1969; minimum, 0.0 mg/l on many days.

Water temperatures (1956-74): Maximum, 31.0°C Aug. 9, 1968; minimum, freezing point on many days during winter months.

pH (1968-74): Maximum, 9.3 Nov. 10, 11, 13, 1970; minimum, 4.2 Nov. 6, 1969.

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

SPECIFIC CONDUCTANCE (MICROMHOS AT 25°C), WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCTOBER			NOVEMBER			DECEMBER			JANUARY		
	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	3440	1500	2460	3550	890	2280	---	---	---	---	---	---
2	3640	1580	2460	2370	810	---	---	---	---	200	200	---
3	3050	1440	2310	---	---	---	3760	1400	---	200	200	200
4	3080	1320	2160	---	---	---	3520	1120	2260	240	200	202
5	2770	1380	2130	2920	840	---	3920	1160	2460	240	200	208
6	2970	1090	2010	2240	560	1390	3080	640	1840	280	200	232
7	3090	1190	1990	2440	560	1390	2280	560	1320	240	200	---
8	3170	1200	2050	3520	100	1610	2360	480	1180	---	---	---
9	3240	1290	2220	2840	100	1360	3200	600	1490	---	---	---
10	3100	1310	2270	3320	600	1640	1760	440	850	---	---	---
11	3740	1520	2590	4640	720	2100	1080	360	577	---	---	---
12	3620	1550	2670	5160	760	2460	1080	400	507	---	---	---
13	3780	1540	2620	5600	880	2640	1240	400	547	---	---	---
14	3700	1500	2610	5400	1040	---	920	360	503	---	---	---
15	3360	1590	2540	---	---	---	480	360	427	---	---	---
16	3500	1610	2560	---	---	---	480	360	420	---	---	---
17	3440	1670	2550	---	---	---	480	360	422	---	---	---
18	3550	1800	2630	---	---	---	440	360	398	---	---	---
19	3450	1680	2560	---	---	---	480	360	402	---	---	---
20	3290	1910	2670	---	---	---	800	280	407	---	---	---
21	3400	1700	2610	---	---	---	480	360	382	---	---	---
22	3310	1880	2640	---	---	---	360	320	352	320	220	---
23	3300	1850	2610	---	---	---	360	320	325	300	200	236
24	3480	1910	---	---	---	---	320	320	320	260	200	---
25	---	---	---	---	---	---	320	320	320	---	---	---
26	---	---	---	5960	1960	---	320	320	320	---	---	---
27	---	---	---	5840	1360	3450	320	320	---	---	---	---
28	---	---	---	1600	1600	---	---	---	---	360	280	---
29	---	---	---	---	---	---	---	---	---	340	260	303
30	---	---	---	---	---	---	---	---	---	340	240	289
31	2060	1730	---	---	---	---	---	---	---	320	240	265
MONTH	3780	1090	---	---	---	---	3920	280	---	---	---	---
DAY	FEBRUARY			MARCH			APRIL			MAY		
	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	260	220	240	---	---	---	580	100	277	940	100	369
2	260	200	237	---	---	---	540	180	262	960	200	438
3	240	220	---	---	---	---	320	160	240	1320	180	631
4	---	---	---	---	---	---	500	180	256	1000	100	---
5	---	---	---	---	---	---	440	100	241	---	---	---
6	---	---	---	---	---	---	300	140	215	---	---	---
7	---	---	---	---	---	---	340	120	238	500	180	---
8	---	---	---	---	---	---	320	160	240	1000	340	---
9	---	---	---	---	---	---	380	100	230	---	---	---
10	---	---	---	---	---	---	320	120	235	---	---	---
11	---	---	---	---	---	---	280	140	211	---	---	---
12	---	---	---	---	---	---	320	100	208	---	---	---
13	---	---	---	---	---	---	320	100	193	300	200	---
14	---	---	---	---	---	---	340	140	216	420	180	268
15	---	---	---	---	---	---	360	100	234	320	180	259
16	---	---	---	---	---	---	360	100	231	320	220	267
17	---	---	---	---	---	---	380	100	230	320	200	258
18	---	---	---	---	---	---	340	140	225	300	200	258
19	---	---	---	---	---	---	300	120	202	360	220	279
20	---	---	---	---	---	---	520	100	229	560	200	273
21	---	---	---	---	---	---	340	100	221	840	200	327
22	---	---	---	---	---	---	340	120	238	820	180	353
23	---	---	---	---	---	---	520	120	257	740	180	374
24	---	---	---	---	---	---	660	100	277	840	200	419
25	---	---	---	---	---	---	620	100	274	1120	200	445
26	---	---	---	480	180	---	420	100	246	1180	200	527
27	---	---	---	320	120	247	780	100	265	1520	240	667
28	---	---	---	320	160	250	620	160	310	1560	220	713
29	---	---	---	380	180	264	900	180	344	1540	200	614
30	---	---	---	820	100	325	840	100	356	1340	180	497
31	---	---	---	880	100	301	---	---	---	1200	180	502
MONTH	---	---	---	---	---	---	900	100	247	1560	100	---

## DELAWARE RIVER BASIN

01482100 DELAWARE RIVER AT DELAWARE MEMORIAL BRIDGE, NEAR WILMINGTON, DEL.--Continued

SPECIFIC CONDUCTANCE (MICROMHOS AT 25°C) WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	JUNE			JULY			AUGUST			SEPTEMBER		
	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	1240	180	508	4020	620	2010	5780	2420	4010	3260	1820	2490
2	980	180	426	3980	560	2000	5900	2220	4110	2480	1700	2270
3	1200	200	498	4000	540	2000	6720	2180	4140	2500	1060	1940
4	1260	180	474	3880	760	2140	5740	1940	3710	3220	540	1710
5	1200	200	478	4060	820	2300	4860	1500	3220	2740	500	1620
6	1180	100	492	3460	620	1990	4300	1520	2940	2360	440	1360
7	1240	200	584	3460	760	2010	3880	1620	---	1980	340	1150
8	1340	180	626	3340	760	2040	---	---	---	1480	240	858
9	1520	220	661	3720	960	2320	---	---	---	1040	280	623
10	1540	220	790	3400	1280	2480	---	---	---	1420	200	528
11	---	---	---	3340	1680	2730	---	---	---	2260	220	663
12	---	---	---	2700	2480	2560	5280	1600	---	2120	220	757
13	---	---	---	2840	2620	2770	5520	1580	3100	1460	200	668
14	---	---	---	2940	2800	2840	5460	1600	3160	1500	220	428
15	---	---	---	4240	1020	2730	5860	1540	3220	580	240	393
16	---	---	---	4800	980	2450	5920	1560	3370	560	500	531
17	3540	240	---	5060	1160	2720	5160	1780	3600	580	560	573
18	3540	320	1440	5780	1200	3030	5900	1780	3660	560	500	540
19	3080	380	1560	4980	1300	3160	5620	1580	3540	2580	440	1010
20	3780	220	1670	5480	1300	3240	5320	1700	3520	2400	380	1330
21	3680	400	1800	5900	1660	3690	5500	1800	3720	2420	280	1350
22	3600	540	1920	6600	1860	4000	5340	1860	3710	2720	460	1190
23	4000	580	2090	6220	2060	4260	5000	1300	3360	1980	360	1170
24	4360	600	2240	6820	2540	4420	4420	1420	2960	2320	440	1330
25	3760	580	2180	6360	2320	4310	4580	1320	2820	2600	680	1490
26	3520	580	2130	6460	2500	4390	4860	1440	2950	2960	580	1520
27	3880	520	2030	6420	2500	4360	4420	1620	2920	3000	680	1590
28	3660	800	2160	7000	2700	4470	4200	1380	2690	3020	620	1660
29	3980	540	2140	7180	2820	4690	4060	1260	2590	2420	300	1400
30	4320	600	2070	6680	2660	4510	4080	1260	2570	1760	200	---
31	---	---	---	6240	2600	4240	3700	1220	2340	---	---	---
MONTH	4360	100	---	7180	540	3120	6720	1220	3280	3260	200	1180

DISSOLVED OXYGEN (DO), IN MILLIGRAMS PER LITER, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCTOBER			NOVEMBER			DECEMBER			JANUARY		
	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	5.0	1.7	3.5	---	---	---	---	---	---	---	---	---
2	6.0	2.4	3.9	---	---	---	---	---	---	---	---	---
3	5.3	1.9	3.5	---	---	---	7.2	2.2	---	---	---	---
4	4.9	1.7	3.0	---	---	---	5.6	1.2	3.3	---	---	---
5	5.3	1.6	3.2	7.2	4.2	---	6.2	0.8	3.5	---	---	---
6	5.0	1.8	3.5	6.6	3.9	5.1	4.8	0.9	2.7	---	---	---
7	5.4	1.9	3.3	7.9	4.9	5.9	3.7	1.1	2.0	9.7	8.8	---
8	5.7	1.8	3.4	11.1	4.0	6.4	4.4	1.2	2.6	9.9	9.4	9.6
9	5.4	1.7	3.5	12.8	4.0	6.0	9.6	3.8	6.4	9.8	9.1	9.5
10	4.7	1.0	3.0	8.1	4.4	5.9	7.1	5.6	6.5	9.7	9.1	9.5
11	6.0	1.8	3.7	9.6	5.0	6.7	7.2	5.4	6.5	9.6	8.9	9.4
12	5.3	1.5	3.5	9.3	5.0	6.9	8.2	7.1	7.6	9.4	8.6	9.1
13	5.6	1.1	3.6	10.4	5.1	7.3	9.2	7.4	8.1	9.4	8.6	9.0
14	6.2	2.1	4.1	9.2	4.6	---	10.2	8.6	9.0	9.4	8.7	9.1
15	7.3	2.3	4.7	---	---	---	10.3	8.9	9.5	9.5	8.8	9.2
16	7.6	2.9	5.1	---	---	---	10.7	9.2	10.0	9.4	8.9	9.1
17	7.8	3.2	5.3	---	---	---	11.0	10.9	---	9.2	8.5	8.8
18	8.2	3.7	5.8	---	---	---	---	---	---	8.8	8.2	8.5
19	8.1	3.2	5.7	---	---	---	9.4	8.4	---	8.9	8.2	8.6
20	7.9	3.9	6.2	---	---	---	8.3	7.7	---	8.7	8.0	8.4
21	8.1	3.2	6.0	---	---	---	---	---	---	8.9	8.4	8.6
22	7.5	3.4	5.7	---	---	---	---	---	---	9.5	8.4	9.0
23	6.8	2.8	5.1	---	---	---	---	---	---	10.0	9.5	9.7
24	6.6	2.1	---	---	---	---	---	---	---	10.3	9.8	10.0
25	---	---	---	---	---	---	---	---	---	10.2	9.5	9.9
26	---	---	---	8.0	2.3	---	---	---	---	9.7	9.3	9.6
27	---	---	---	8.1	0.9	4.2	---	---	---	9.9	9.2	9.5
28	---	---	---	2.5	2.5	---	---	---	---	9.3	8.3	8.8
29	---	---	---	---	---	---	---	---	---	9.0	8.3	8.6
30	---	---	---	---	---	---	---	---	---	9.0	8.4	8.6
31	---	---	---	---	---	---	---	---	---	9.2	8.3	8.8
MONTH	---	---	---	---	---	---	---	---	---	10.3	8.0	---



## DELAWARE RIVER BASIN

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01482100 DELAWARE RIVER AT DELAWARE MEMORIAL BRIDGE, NEAR WILMINGTON, DEL.--Continued  
DISSOLVED OXYGEN (DO), IN MILLIGRAMS PER LITER, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	FEBRUARY			MARCH			APRIL			MAY		
	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	9.6	9.1	9.3	---	---	---	9.7	8.7	9.3	5.8	4.2	5.2
2	9.9	9.2	9.5	---	---	---	9.3	8.3	8.8	6.5	4.5	5.6
3	10.0	9.8	---	---	---	---	8.6	8.1	8.3	6.0	4.4	5.5
4	---	---	---	---	---	---	8.6	8.0	8.2	5.7	3.2	---
5	---	---	---	---	---	---	8.6	8.0	8.3	---	---	---
6	---	---	---	---	---	---	8.5	8.1	8.3	---	---	---
7	---	---	---	---	---	---	8.4	8.2	8.3	6.2	4.5	---
8	---	---	---	---	---	---	8.8	8.1	8.4	6.3	5.3	---
9	---	---	---	---	---	---	8.7	8.5	8.6	---	---	---
10	---	---	---	---	---	---	9.2	8.5	8.8	---	---	---
11	---	---	---	---	---	---	9.2	8.5	8.8	---	---	---
12	---	---	---	---	---	---	8.8	8.2	8.5	---	---	---
13	---	---	---	7.7	6.7	---	8.7	7.8	8.3	6.3	3.7	---
14	---	---	---	8.6	6.2	7.8	8.2	7.7	7.9	7.2	3.6	5.4
15	---	---	---	9.4	7.4	8.3	8.3	7.7	8.0	7.6	3.7	5.4
16	---	---	---	9.2	7.3	---	8.6	8.1	8.4	6.7	3.7	4.9
17	---	---	---	---	---	---	8.4	8.0	8.2	6.9	3.7	5.0
18	---	---	---	---	---	---	8.2	7.8	8.0	7.4	3.4	4.9
19	---	---	---	---	---	---	7.9	7.6	7.8	7.3	3.4	5.1
20	---	---	---	---	---	---	7.8	7.1	7.5	7.6	3.3	5.4
21	---	---	---	---	---	---	7.5	6.6	7.2	7.5	3.5	5.7
22	---	---	---	---	---	---	7.3	6.2	6.8	7.4	3.5	5.4
23	---	---	---	---	---	---	7.4	5.8	6.6	6.6	3.1	4.7
24	---	---	---	---	---	---	7.1	5.7	6.6	5.4	2.6	4.1
25	---	---	---	---	---	---	7.7	5.6	6.7	4.8	2.2	3.7
26	---	---	---	8.5	7.8	---	7.2	5.3	6.4	4.8	2.1	3.6
27	---	---	---	8.6	7.9	8.1	7.2	5.2	6.3	4.2	2.2	3.2
28	---	---	---	8.4	7.7	8.0	6.6	5.0	6.1	4.1	2.0	3.1
29	---	---	---	8.9	7.8	8.3	6.1	4.6	5.6	5.5	2.3	3.9
30	---	---	---	9.8	8.7	9.3	6.1	4.4	5.3	5.5	2.6	3.8
31	---	---	---	9.6	8.9	9.3	---	---	---	5.7	2.5	3.8
MONTH	---	---	---	---	---	---	9.7	4.4	7.7	7.6	2.0	---

DAY	JUNE			JULY			AUGUST			SEPTEMBER		
	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	5.0	2.2	3.7	6.1	3.7	4.8	3.4	1.7	2.6	3.2	0.7	2.0
2	5.6	1.7	3.2	5.7	2.8	4.1	4.1	1.5	2.8	3.8	0.6	2.0
3	5.4	2.2	3.4	5.8	2.1	3.4	4.5	2.6	3.7	4.3	1.1	2.6
4	5.2	1.7	3.0	4.9	1.4	2.6	5.0	3.2	4.3	4.6	1.3	2.9
5	4.8	1.5	2.8	5.0	1.3	2.7	5.0	3.0	4.1	5.1	1.9	3.4
6	4.9	1.2	2.6	3.9	0.2	1.6	4.5	2.6	3.8	5.0	2.0	3.6
7	5.5	2.4	3.8	2.8	0.2	1.3	4.1	2.2	---	6.4	2.7	4.5
8	6.3	3.8	4.8	2.6	0.0	1.1	---	---	---	5.0	1.7	3.7
9	6.1	3.2	4.4	2.7	0.1	1.3	---	---	---	3.7	1.0	2.5
10	5.0	2.8	---	3.3	0.2	1.7	---	---	---	2.5	0.5	1.4
11	---	---	---	4.9	0.8	2.7	---	---	---	3.1	0.4	1.1
12	---	---	---	5.9	1.7	3.8	5.4	3.0	---	1.9	0.6	1.0
13	---	---	---	5.8	2.6	4.2	5.4	2.9	3.7	1.8	0.8	1.1
14	---	---	---	6.0	2.8	4.2	5.0	2.6	3.4	3.8	1.2	2.4
15	---	---	---	4.1	2.2	3.3	5.0	2.3	3.2	4.0	1.7	2.9
16	---	---	---	4.4	2.0	3.0	4.8	2.0	3.0	3.5	1.8	2.9
17	5.2	2.3	---	4.4	2.0	3.2	4.6	2.2	3.2	3.4	2.0	2.6
18	5.0	1.4	2.8	4.6	2.2	3.2	4.7	1.8	2.9	2.4	2.1	2.3
19	4.5	0.7	2.5	4.0	1.8	3.0	3.8	1.3	2.4	3.5	2.2	2.6
20	5.0	1.3	2.5	4.2	1.6	3.2	4.6	1.2	2.7	3.4	1.5	2.5
21	3.9	0.5	2.1	4.6	2.3	3.6	5.1	1.3	3.1	4.4	2.0	2.8
22	3.7	0.2	1.7	4.5	2.1	3.4	4.5	2.0	3.2	5.6	2.6	3.2
23	3.6	0.4	2.1	4.2	1.9	3.2	4.2	2.0	3.1	5.4	2.8	4.0
24	4.4	0.7	2.5	4.3	2.0	3.3	3.5	1.3	2.4	5.9	3.9	4.9
25	4.6	0.8	2.7	4.1	1.8	3.0	3.6	1.2	2.2	6.1	4.0	4.8
26	4.5	0.5	2.6	3.7	1.7	2.8	5.4	1.1	2.5	6.0	3.8	4.5
27	4.1	0.3	2.1	3.5	1.6	2.6	4.7	1.5	2.8	5.3	3.4	4.2
28	7.8	1.5	4.4	3.6	1.6	2.4	3.9	1.5	2.5	5.4	3.2	4.0
29	6.6	4.2	5.3	4.5	1.4	2.7	3.6	1.3	2.2	4.4	2.6	3.6
30	7.2	3.9	5.0	3.9	1.9	2.9	3.7	1.1	2.2	4.2	2.3	---
31	---	---	---	3.5	1.7	2.6	3.6	0.9	2.1	---	---	---
MONTH	7.8	0.2	---	6.1	0.0	2.9	5.4	0.9	3.0	6.4	0.4	3.0

## DELAWARE RIVER BASIN

01482100 DELAWARE RIVER AT DELAWARE MEMORIAL BRIDGE, NEAR WILMINGTON, DEL.--Continued

TEMPERATURE (°C) OF WATER, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCTOBER			NOVEMBER			DECEMBER			JANUARY		
	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	21.0	20.5	21.0	15.0	14.0	14.5	---	---	---	---	---	---
2	21.0	20.5	20.5	15.0	14.0	---	---	---	---	5.0	4.0	---
3	21.5	20.5	21.0	---	---	---	10.0	9.0	---	5.0	4.0	4.5
4	21.5	21.0	21.5	---	---	---	10.0	9.0	9.5	5.0	4.0	4.5
5	21.5	21.0	21.5	14.5	13.5	---	10.0	9.0	9.5	4.5	4.0	4.0
6	21.5	20.5	21.0	14.0	12.0	13.5	10.5	9.5	10.0	4.5	4.0	4.0
7	21.0	20.5	20.5	13.5	11.0	12.0	10.0	9.5	9.5	4.5	3.5	4.0
8	21.0	20.5	20.5	12.0	10.5	11.5	10.0	9.0	9.5	4.0	3.5	4.0
9	21.0	20.0	20.5	15.5	10.5	11.5	9.0	8.0	8.5	3.5	3.0	3.5
10	21.0	20.0	20.5	11.5	10.0	10.5	9.5	8.5	9.0	3.5	2.0	3.0
11	20.5	20.0	20.0	10.5	9.0	10.0	9.0	8.5	8.5	3.5	3.0	3.0
12	20.5	19.5	20.0	10.5	9.0	9.5	8.5	8.0	8.5	3.5	3.0	3.0
13	20.0	19.5	20.0	10.5	9.0	9.5	8.0	7.0	7.5	3.0	2.0	2.5
14	20.0	19.5	19.5	10.5	9.5	---	8.0	7.0	7.5	3.0	1.5	2.0
15	19.5	19.0	19.0	---	---	---	7.0	6.5	7.0	2.0	1.5	2.0
16	19.0	18.5	19.0	---	---	---	6.5	6.0	6.0	3.0	1.5	2.0
17	18.5	17.0	18.0	---	---	---	6.0	6.0	---	3.0	2.0	2.0
18	18.0	16.5	17.0	---	---	---	---	---	---	2.0	1.5	1.5
19	17.0	16.0	16.5	---	---	---	5.5	5.0	---	2.0	1.5	2.0
20	16.5	15.5	16.0	---	---	---	6.0	4.5	5.0	2.0	1.5	2.0
21	16.5	15.5	16.0	---	---	---	6.0	4.5	5.0	3.0	1.5	2.0
22	16.5	15.5	15.5	---	---	---	4.5	3.5	4.0	4.0	2.0	3.0
23	16.0	15.5	15.5	---	---	---	3.5	3.0	3.0	4.5	3.5	3.5
24	16.0	15.5	---	---	---	---	3.0	2.0	3.0	4.5	3.5	4.0
25	---	---	---	---	---	---	3.0	2.0	2.5	4.5	3.5	4.0
26	---	---	---	10.5	9.5	---	3.5	2.0	3.0	5.0	4.0	4.5
27	---	---	---	11.0	9.5	10.0	3.5	3.5	---	6.0	4.0	5.0
28	---	---	---	9.5	9.5	---	---	---	---	5.5	4.5	5.0
29	---	---	---	---	---	---	---	---	---	5.5	5.0	5.0
30	---	---	---	---	---	---	---	---	---	6.0	5.0	5.5
31	15.0	15.0	---	---	---	---	---	---	---	6.5	5.0	6.0
MONTH	21.5	15.0	---	---	---	---	---	---	---	6.5	1.5	3.5

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

01482100 DELAWARE RIVER AT DELAWARE MEMORIAL BRIDGE, NEAR WILMINGTON, DEL.--Continued

TEMPERATURE (°C) OF WATER, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

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

pH (UNITS), WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCTOBER			NOVEMBER			DECEMBER			JANUARY		
	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	---	---	---	---	---	---	---	---	---	---	---	---
2	---	---	---	---	---	---	---	---	---	6.6	6.4	---
3	---	---	---	---	---	---	6.6	6.4	---	6.5	6.4	6.5
4	---	---	---	---	---	---	6.5	6.3	6.4	6.6	6.4	6.5
5	---	---	---	6.7	6.5	---	6.8	6.3	6.5	6.6	6.4	6.5
6	---	---	---	6.6	6.5	6.5	6.5	6.3	6.4	6.5	6.4	6.5
7	---	---	---	6.7	6.5	6.6	6.6	6.3	6.5	6.5	6.2	6.4
8	---	---	---	7.1	6.5	6.6	6.6	6.4	6.5	6.4	6.2	6.3
9	---	---	---	7.0	6.5	6.6	6.6	6.3	6.5	6.4	6.2	6.3
10	---	---	---	6.7	6.5	6.6	6.7	6.4	6.6	6.4	6.3	6.3
11	---	---	---	6.8	6.5	6.6	6.8	6.6	6.7	6.3	6.2	6.3
12	---	---	---	6.8	6.6	6.7	6.8	6.7	6.8	6.5	6.3	6.4
13	---	---	---	6.8	6.6	6.7	6.8	6.7	6.8	6.4	6.3	6.4
14	---	---	---	6.8	6.6	---	6.8	6.7	6.8	6.4	6.3	6.4
15	---	---	---	---	---	---	6.8	6.7	6.8	6.4	6.3	6.4
16	---	---	---	---	---	---	6.8	6.7	6.8	6.4	6.2	6.3
17	---	---	---	---	---	---	6.9	6.7	6.8	6.5	6.3	6.4
18	---	---	---	---	---	---	6.9	6.7	6.8	6.4	6.3	6.3
19	---	---	---	---	---	---	6.9	6.7	6.8	6.4	6.2	6.3
20	---	---	---	---	---	---	6.8	6.7	---	6.5	6.2	6.4
21	---	---	---	---	---	---	---	---	---	6.4	6.3	6.3
22	---	---	---	---	---	---	---	---	---	6.5	6.2	6.4
23	---	---	---	---	---	---	---	---	---	6.5	6.3	6.4
24	---	---	---	---	---	---	---	---	---	6.5	6.4	6.5
25	---	---	---	---	---	---	---	---	---	6.4	6.4	6.4
26	---	---	---	6.7	6.4	---	---	---	---	6.4	6.3	6.4
27	---	---	---	6.7	6.3	6.5	---	---	---	6.9	6.3	6.4
28	---	---	---	6.4	6.4	---	---	---	---	6.5	6.3	6.4
29	---	---	---	---	---	---	---	---	---	6.6	6.3	6.4
30	---	---	---	---	---	---	---	---	---	6.5	6.3	6.4
31	---	---	---	---	---	---	---	---	---	6.6	6.4	6.5
MONTH	---	---	---	---	---	---	---	---	---	6.9	6.2	6.4

## DELAWARE RIVER BASIN

01482100 DELAWARE RIVER AT DELAWARE MEMORIAL BRIDGE, NEAR WILMINGTON, DEL.--Continued

pH (UNITS), WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	FEBRUARY			MARCH			APRIL			MAY		
	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	6.6	6.5	6.5	---	---	---	6.9	6.7	6.9	6.6	6.4	6.5
2	6.6	6.4	6.5	---	---	---	6.9	6.6	6.8	6.6	6.4	6.5
3	6.6	6.5	---	---	---	---	6.8	6.5	6.7	6.6	6.2	6.4
4	---	---	---	---	---	---	6.9	6.6	6.8	6.5	6.4	---
5	---	---	---	---	---	---	6.8	6.0	6.7	---	---	---
6	---	---	---	---	---	---	6.9	6.8	6.8	---	---	---
7	---	---	---	---	---	---	6.9	6.8	6.8	6.5	6.2	---
8	---	---	---	---	---	---	6.9	6.7	6.8	6.6	6.3	---
9	---	---	---	---	---	---	6.8	6.5	6.7	---	---	---
10	---	---	---	---	---	---	6.9	6.8	6.9	---	---	---
11	---	---	---	---	---	---	6.9	6.5	6.7	---	---	---
12	---	---	---	---	---	---	6.7	6.2	6.5	---	---	---
13	---	---	---	6.6	6.4	---	6.6	6.1	6.4	6.6	6.4	---
14	---	---	---	6.7	6.5	6.6	6.6	6.2	6.4	6.6	6.4	6.5
15	---	---	---	6.9	6.5	6.7	6.6	6.2	6.4	6.9	6.5	6.7
16	---	---	---	7.1	6.5	6.8	6.6	6.5	6.5	6.6	6.4	6.6
17	---	---	---	7.1	6.8	---	6.6	6.5	6.6	6.7	6.3	6.5
18	---	---	---	---	---	---	6.6	6.4	6.5	6.7	6.2	6.5
19	---	---	---	---	---	---	6.6	6.5	6.6	6.6	6.2	6.4
20	---	---	---	---	---	---	6.6	6.4	6.5	6.7	6.2	6.4
21	---	---	---	---	---	---	6.5	6.4	6.5	6.7	6.1	6.4
22	---	---	---	---	---	---	6.6	6.4	6.5	6.7	6.2	6.4
23	---	---	---	---	---	---	6.7	6.5	6.6	6.6	6.3	6.4
24	---	---	---	---	---	---	6.6	6.5	6.6	6.5	6.0	6.3
25	---	---	---	---	---	---	6.7	6.4	6.6	6.4	6.2	6.3
26	---	---	---	6.8	6.6	---	6.7	6.4	6.6	6.4	6.1	6.3
27	---	---	---	6.9	6.6	6.7	6.8	6.4	6.6	6.4	6.2	6.3
28	---	---	---	6.7	6.6	6.7	6.6	6.4	6.6	6.3	6.0	6.2
29	---	---	---	6.8	6.6	6.7	6.6	6.4	6.5	6.4	6.0	6.2
30	---	---	---	6.9	6.4	6.6	6.6	6.0	6.5	6.5	6.0	6.2
31	---	---	---	6.9	6.7	6.8	---	---	---	6.3	6.0	6.2
MONTH	---	---	---	---	---	---	6.9	6.0	6.6	6.9	6.0	---

DAY	JUNE			JULY			AUGUST			SEPTEMBER		
	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	6.3	5.3	5.9	6.4	6.1	6.3	---	---	---	---	---	---
2	6.3	5.8	6.1	6.4	6.1	6.2	---	---	---	---	---	---
3	6.3	6.0	6.1	6.4	6.1	6.2	---	---	---	---	---	---
4	6.4	5.9	6.1	6.3	6.1	6.2	---	---	---	---	---	---
5	6.3	5.8	6.1	6.3	6.0	6.2	---	---	---	---	---	---
6	6.3	5.9	6.1	6.2	6.0	6.1	---	---	---	---	---	---
7	6.3	5.9	6.1	6.2	6.0	6.1	---	---	---	---	---	---
8	6.2	5.8	6.0	6.2	6.0	6.1	---	---	---	---	---	---
9	6.3	6.0	6.1	6.2	6.1	6.1	---	---	---	---	---	---
10	6.3	6.0	6.1	6.3	6.0	6.2	---	---	---	---	---	---
11	---	---	---	6.4	6.1	6.3	---	---	---	---	---	---
12	---	---	---	6.5	6.1	6.3	---	---	---	---	---	---
13	---	---	---	6.5	6.2	6.3	---	---	---	---	---	---
14	---	---	---	6.6	6.2	6.3	---	---	---	---	---	---
15	---	---	---	6.6	6.2	6.4	---	---	---	---	---	---
16	---	---	---	6.6	6.3	6.4	---	---	---	---	---	---
17	6.7	6.3	---	6.6	6.3	6.4	---	---	---	---	---	---
18	6.7	6.3	6.4	6.7	6.4	6.5	---	---	---	---	---	---
19	6.6	6.3	6.4	6.6	6.4	6.5	---	---	---	---	---	---
20	6.7	6.3	6.5	6.7	6.5	6.6	---	---	---	---	---	---
21	6.7	6.4	6.5	6.8	6.5	6.6	---	---	---	---	---	---
22	6.7	6.4	6.5	6.7	6.4	6.5	---	---	---	---	---	---
23	6.7	6.4	6.6	6.6	6.4	6.5	---	---	---	---	---	---
24	6.7	6.4	6.5	6.6	6.4	6.5	---	---	---	---	---	---
25	6.6	6.1	6.4	6.6	6.0	6.4	---	---	---	---	---	---
26	6.3	5.9	6.2	6.5	6.4	6.5	---	---	---	---	---	---
27	6.3	6.0	6.2	6.5	6.3	6.4	---	---	---	---	---	---
28	6.4	6.0	6.2	6.5	6.4	6.4	---	---	---	---	---	---
29	6.4	6.1	6.3	6.6	6.3	6.4	---	---	---	---	---	---
30	6.5	6.1	6.3	6.5	6.3	6.4	---	---	---	---	---	---
31	---	---	---	6.4	6.3	6.3	---	---	---	---	---	---
MONTH	6.7	5.3	---	6.8	6.0	6.3	---	---	---	---	---	---

## DELAWARE RIVER BASIN

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01482500 SALEM RIVER AT WOODSTOWN, N. J.

LOCATION.--Lat 39°38'36", long 74°19'52", Salem County, at gaging station 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 Penn Central-Reading Seashore Line bridge.

DRAINAGE AREA.--14.6 mi<sup>2</sup> (37.8 km<sup>2</sup>).

PERIOD OF RECORD.--Chemical analyses: October 1972 to September 1974.

## WATER QUALITY DATA, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	ELEV. OF LAND SURFACE DATUM (FT. ABOVE MSL)	TEMPERATURE (DEG C)	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)	DISSOLVED OXYGEN (MG/L)	BIOCHEMICAL OXYGEN DEMAND 5 DAY (MG/L)	TURBIDITY (JTU)	COLOR (PLATINUM-COBALT UNITS)
NOV. 28...	1100	9.6	29	13.3	222	6.7	10.2	4.4	--	--
FEB. 12...	1050	14	29	3.7	204	6.7	14.0	1.4	--	--
APR. 18...	1040	16	29	15.0	189	6.6	10.4	3.2	--	--
MAY 16...	1140	9.6	29	23.9	177	8.3	9.1	3.0	--	--
JUNE 19...	1420	8.4	29	24.7	219	7.6	8.2	5.6	--	--
JULY 19...	1100	5.3	29	26.0	204	7.8	5.6	4.1	--	--
AUG. 20...	1300	5.3	29	27.4	217	8.1	8.6	5.8	--	--
SEP. 11...	1335	7.4	29	--	193	7.3	8.0	3.5	20	10

DATE	TOTAL NITRITE (N) (MG/L)	TOTAL NITRATE (N) (MG/L)	TOTAL KJELDAHL NITROGEN (N) (MG/L)	AMMONIA NITROGEN (N) (MG/L)	ORGANIC NITROGEN (N) (MG/L)	TOTAL NITROGEN (N) (MG/L)	TOTAL PHOSPHORUS (P) (MG/L)	TOTAL ORTHO PHOSPHORUS (P) (MG/L)	DISSOLVED ORTHO PHOSPHORUS (P) (MG/L)	TOTAL ORGANIC CARBON (C) (MG/L)
NOV. 28...	.06	2.2	.67	.32	.35	3.0	.10	.03	.03	--
FEB. 12...	.01	3.6	.48	.18	.30	4.1	.04	.02	.02	4.0
APR. 18...	--	--	--	--	--	--	--	--	--	--
MAY 16...	.04	1.7	.99	.16	.83	2.7	.10	.02	--	5.5
JUNE 19...	--	--	--	--	--	--	--	--	--	--
JULY 19...	--	--	--	--	--	--	--	--	--	--
AUG. 20...	--	--	--	--	--	--	--	--	--	--
SEP. 11...	.03	.97	1.0	.34	.66	2.0	.11	.03	--	11

01482500 SALEM RIVER AT WOODSTOWN, N. J.--Continued

## WATER QUALITY DATA, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DATE	IMME- DIATE COLI- FORM (COL. PER 100 ML)	FECAL COLI- FORM (COL. PER 100 ML)	STREP- TOCOCCI (COL- ONIES PER 100 ML)	ALKA- LINITY AS CAC03 (MG/L)	BICAR- BONATE (HCO3) (MG/L)	CARBON DIOXIDE (CO2) (MG/L)	TOTAL CAL- CIUM (CA) (MG/L)	TOTAL MAG- NE- SIUM (MG)	TOTAL SODIUM (NA) (MG/L)
NOV. 28...	416	24	40	--	--	--	--	--	--
FEB. 12...	200	20	78	--	--	--	--	--	--
APR. 18...	990	62	32	--	--	--	--	--	--
MAY 16...	3100	308	80	--	--	--	--	--	--
JUNE 19...	600	180	370	--	--	--	--	--	--
JULY 19...	800	70	390	--	--	--	--	--	--
AUG. 20...	560	192	210	--	--	--	--	--	--
SEP. 11...	640	304	2060	23	28	2.2	14	6.9	4.2

DATE	TOTAL PO- TAS- SIUM (K) (MG/L)	DIS- SOLVED CHLO- RIDE (CL) (MG/L)	DIS- SOLVED SULFATE (SO4) (MG/L)	TOTAL FLUO- RIDE (F) (MG/L)	DIS- SOLVED SILICA (SiO2) (MG/L)	DIS- SOLVED SOLIDS (RESI- DUE AT 180 C) (MG/L)	DIS- SOLVED SOLIDS (TONS PER AC-FT)	TOTAL IRON (FE) (UG/L)	TOTAL MAN- GANESE (MN) (UG/L)
NOV. 28...	--	--	--	--	--	--	--	--	--
FEB. 12...	--	--	--	--	--	--	--	--	--
APR. 18...	--	--	--	--	--	--	--	--	--
MAY 16...	--	--	--	--	--	--	--	--	--
JUNE 19...	--	--	--	--	--	--	--	--	--
JULY 19...	--	--	--	--	--	--	--	--	--
AUG. 20...	--	--	--	--	--	--	--	--	--
SEP. 11...	5.0	15	27	.2	8.1	133	.18	1700	170



## 01482800 DELAWARE RIVER AT REEDY ISLAND JETTY, DEL.

LOCATION.--Lat 39°30'03", long 75°34'07", New Castle County, water-quality recorder located on platform about 0.4 mi (0.6 km) downstream from Reedy Island near Fort Penn.

DRAINAGE AREA.--11,222 mi<sup>2</sup> (29,065 km<sup>2</sup>), approximately.

PERIOD OF RECORD.--Chemical analyses: October 1963 to September 1974.

Water temperatures: February 1970 to September 1974.

## EXTREMES.--1973-74:

Specific conductance: Maximum, 19,000 micromhos Oct. 26; minimum, 100 micromhos Feb. 1, 2.

Dissolved oxygen: Maximum, 12.3 mg/l Jan. 18; minimum, 2.5 mg/l Sept. 4, 5.

Water temperatures: Maximum, 27.0°C July 10, Aug. 31, Sept. 1; minimum, 0.5°C Jan. 18, Feb. 10, 11.

pH: Maximum, 8.2 Sept. 29; minimum, 6.1 May 17.

## Period of record:

Specific conductance: Maximum, 35,400 micromhos Nov. 7, 1963; minimum, 100 micromhos on several days.

Dissolved oxygen (1970-74): Maximum, 13.7 mg/l Feb. 18, 19, 1973; minimum, 0.3 mg/l Sept. 16, 17, 1971.

Water temperatures (1970-74): Maximum, 29.0°C Aug. 10-12, Sept. 3, 1972; minimum, freezing point on many days during winter months.

pH (1970-74): Maximum, 8.8 Aug. 29, Sept. 2, 1973; minimum, 5.4 Dec. 31, 1972.

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

## SPECIFIC CONDUCTANCE (MICROMHOS AT 25°C), WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCTOBER			NOVEMBER			DECEMBER			JANUARY		
	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	---	---	---	14320	12320	13570	---	---	---	---	---	---
2	---	---	---	12120	10480	11230	---	---	---	---	---	---
3	---	---	---	10360	9520	10100	---	---	---	---	---	---
4	---	---	---	11200	10000	10710	14600	7680	---	---	---	---
5	---	---	---	13920	10720	11740	16080	7960	11320	---	---	---
6	---	---	---	13280	12360	12850	13400	5520	9060	---	---	---
7	---	---	---	14920	6080	11560	12320	5240	8630	---	---	---
8	---	---	---	18200	6200	11670	12520	7520	9410	---	---	---
9	---	---	---	16240	7520	10890	16080	8240	11940	---	---	---
10	---	---	---	15440	6800	9810	12560	8920	10480	---	---	---
11	---	---	---	17160	7080	10950	9160	6760	8080	6240	1440	---
12	15160	8600	---	16280	7720	11070	8560	5880	7020	3760	1240	2220
13	14880	8080	10690	14720	7880	10720	8760	5640	7030	2560	1000	1510
14	13400	6920	9870	12760	7840	9910	---	---	---	4960	1000	2040
15	13240	9680	11000	13320	7840	10010	---	---	---	1840	840	1180
16	15680	8640	11030	11640	7240	9710	---	---	---	2880	840	1350
17	13280	9360	---	10360	7000	8190	---	---	---	5520	760	2640
18	---	---	---	10480	6720	---	---	---	---	6840	1000	3400
19	---	---	---	---	---	---	---	---	---	8400	1160	3470
20	---	---	---	---	---	---	---	---	---	---	---	---
21	---	---	---	---	---	---	---	---	---	---	---	---
22	---	---	---	---	---	---	---	---	---	---	---	---
23	---	---	---	---	---	---	---	---	---	7000	1680	---
24	---	---	---	---	---	---	---	---	---	5720	1240	2370
25	16680	10320	---	---	---	---	---	---	---	4640	1200	2770
26	19000	10640	14310	---	---	---	---	---	---	2680	1440	2080
27	16760	10280	13010	---	---	---	---	---	---	3200	1800	2360
28	16160	10600	12700	---	---	---	---	---	---	2040	1200	1580
29	18560	12480	15150	---	---	---	---	---	---	1520	840	1160
30	16800	15280	15890	---	---	---	---	---	---	1200	520	810
31	15280	14320	14750	---	---	---	---	---	---	1200	400	817
MONTH	---	---	---	---	---	---	---	---	---	---	---	---
DAY	FEBRUARY			MARCH			APRIL			MAY		
	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	640	100	375	---	---	---	---	---	---	6240	1320	2880
2	3000	100	669	---	---	---	---	---	---	6360	1440	2940
3	7800	280	3040	---	---	---	---	---	---	5080	1720	3170
4	10320	1440	5320	---	---	---	10160	3200	---	4280	2000	2770
5	9040	3200	5830	---	---	---	6240	3160	4970	6360	1880	3240
6	10920	3520	6380	---	---	---	4760	2840	3880	7000	2160	3730
7	12360	5120	7630	---	---	---	3520	3040	---	7720	1880	3560
8	11160	5320	7350	---	---	---	---	---	---	7440	1960	3770
9	10480	6440	8470	---	---	---	---	---	---	7160	2280	3640
10	10040	6400	7840	---	---	---	---	---	---	5520	2080	3210
11	9800	6560	7860	---	---	---	240	200	---	4320	1840	2920
12	7600	5240	6540	---	---	---	240	200	232	5880	2120	3550
13	9040	5000	6550	---	---	---	240	240	240	4360	1480	2310
14	7280	5080	5800	---	---	---	280	240	245	3720	1160	2100
15	7720	4960	6220	---	---	---	360	240	252	2360	760	1370
16	8200	6040	7120	---	---	---	2520	240	563	1840	480	895
17	13440	6720	---	---	---	---	4560	280	1450	2960	520	1220
18	---	---	---	---	---	---	5720	360	1990	4960	520	1340
19	---	---	---	---	---	---	7440	720	2410	5800	640	1850
20	---	---	---	---	---	---	5600	960	2560	5800	760	2020
21	---	---	---	---	---	---	5680	2520	3730	4960	1040	2230
22	---	---	---	---	---	---	3480	1640	2280	5520	1000	2170
23	---	---	---	---	---	---	3120	960	1780	5680	1040	1970
24	---	---	---	---	---	---	2560	960	1310	5800	1120	2690
25	---	---	---	---	---	---	5000	1200	2220	5000	1480	2500
26	---	---	---	---	---	---	8520	1320	3300	3920	1760	2610
27	---	---	---	---	---	---	6960	1440	3050	4080	1920	2930
28	---	---	---	---	---	---	6400	1440	---	4000	2520	3140
29	---	---	---	---	---	---	---	---	---	4960	2200	3190
30	---	---	---	---	---	---	4320	1360	---	6880	1880	3510
31	---	---	---	---	---	---	---	---	---	6600	2200	3810
MONTH	---	---	---	---	---	---	---	---	---	7720	480	2680



## DELAWARE RIVER BASIN

317

01482800 DELAWARE RIVER AT REEDY ISLAND JETTY, DEL.--Continued

DISSOLVED OXYGEN (DO), IN MILLIGRAMS PER LITER, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	FEBRUARY			MARCH			APRIL			MAY		
	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	11.0	8.6	---	---	---	---	---	---	---	8.0	7.2	7.7
2	---	---	---	---	---	---	---	---	---	8.2	7.7	7.9
3	---	---	---	11.9	11.4	---	---	---	---	8.1	7.4	7.8
4	---	---	---	11.5	11.0	---	---	---	---	8.2	7.4	7.7
5	---	---	---	---	---	---	---	---	---	8.5	7.5	7.9
6	---	---	---	---	---	---	---	---	---	8.5	7.1	7.6
7	---	---	---	---	---	---	---	---	---	7.8	6.9	7.3
8	---	---	---	---	---	---	---	---	---	7.8	6.7	7.3
9	---	---	---	---	---	---	---	---	---	8.0	7.0	7.5
10	---	---	---	---	---	---	---	---	---	7.6	6.8	7.2
11	---	---	---	---	---	---	---	---	---	7.3	6.6	7.1
12	---	---	---	---	---	---	---	---	---	7.6	6.8	7.2
13	---	---	---	---	---	---	---	---	---	7.3	6.5	6.9
14	---	---	---	---	---	---	---	---	---	7.2	6.4	6.9
15	---	---	---	---	---	---	---	---	---	7.6	6.4	7.0
16	---	---	---	---	---	---	---	---	---	8.0	6.2	7.1
17	---	---	---	---	---	---	---	---	---	7.4	6.2	6.8
18	---	---	---	---	---	---	---	---	---	7.1	6.0	6.5
19	11.9	11.5	---	---	---	---	---	---	---	6.8	5.8	6.3
20	11.9	11.7	---	---	---	---	---	---	---	7.1	5.6	6.4
21	---	---	---	---	---	---	---	---	---	7.1	5.7	6.4
22	---	---	---	---	---	---	---	---	---	7.1	5.7	6.4
23	---	---	---	---	---	---	---	---	---	6.4	5.5	6.0
24	---	---	---	---	---	---	---	---	---	6.0	4.9	5.5
25	---	---	---	---	---	---	8.8	8.3	---	5.9	4.7	5.3
26	---	---	---	---	---	---	9.1	8.1	8.5	5.5	4.9	5.2
27	---	---	---	---	---	---	8.8	7.9	8.3	5.4	4.6	5.0
28	---	---	---	---	---	---	8.5	7.8	---	5.4	4.6	5.1
29	---	---	---	---	---	---	---	---	---	5.7	5.0	5.5
30	---	---	---	---	---	---	7.9	7.2	---	6.1	5.0	5.5
31	---	---	---	---	---	---	---	---	---	6.5	5.2	5.8
MONTH	---	---	---	---	---	---	---	---	---	8.5	4.6	6.6

DAY	JUNE			JULY			AUGUST			SEPTEMBER		
	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	6.4	5.3	6.0	7.0	6.0	6.4	5.8	4.7	5.1	5.7	4.8	5.2
2	6.5	5.1	5.8	6.7	5.7	6.2	5.5	4.7	5.1	5.5	4.7	---
3	6.8	5.6	6.1	6.6	5.5	6.0	5.6	4.8	5.1	---	---	---
4	6.8	5.5	6.0	6.8	5.3	5.9	5.7	4.9	5.2	---	---	---
5	6.4	5.5	6.0	6.1	5.3	5.7	5.7	4.6	5.1	---	---	---
6	6.7	5.6	6.2	6.1	5.1	5.6	5.7	4.4	4.8	---	---	---
7	7.3	6.3	6.8	6.2	4.9	5.3	5.2	4.4	4.8	---	---	---
8	7.5	6.7	7.0	5.7	4.7	5.2	4.9	4.3	4.6	---	---	---
9	7.5	6.5	7.0	5.9	4.6	5.1	4.8	4.0	4.4	---	---	---
10	7.4	6.4	6.9	5.5	4.4	5.0	5.5	4.2	4.9	---	---	---
11	7.5	6.3	6.9	6.0	4.5	5.4	5.5	4.9	5.2	---	---	---
12	7.3	6.4	6.8	6.5	5.3	5.9	6.1	4.8	5.4	6.2	4.7	5.4
13	7.8	6.4	7.1	6.5	5.5	6.0	6.0	5.3	5.6	5.9	4.6	5.2
14	7.8	6.5	7.3	6.3	5.5	5.9	5.9	5.1	5.4	6.2	4.0	5.4
15	7.9	6.6	7.4	6.0	5.3	5.7	6.0	4.9	5.4	6.3	2.5	5.2
16	7.8	7.1	7.3	6.0	5.0	5.5	5.9	4.8	5.3	6.5	5.0	5.8
17	7.8	6.6	7.1	6.5	5.1	5.6	5.6	4.8	5.2	6.5	5.0	5.8
18	7.1	5.7	6.4	6.1	5.2	5.6	5.5	4.6	5.0	6.4	5.0	5.7
19	6.7	5.3	5.9	5.9	5.0	5.4	5.7	4.1	5.0	6.4	4.8	5.7
20	6.2	5.2	5.7	6.4	5.3	5.6	5.8	4.6	5.2	6.3	5.1	5.7
21	5.7	4.8	5.3	6.7	5.3	5.8	6.1	4.7	5.3	6.7	5.3	5.9
22	5.8	4.4	5.0	6.2	5.1	5.7	5.7	4.8	5.3	6.9	5.4	6.3
23	5.1	4.4	4.9	6.0	5.2	5.6	5.8	4.8	5.3	7.9	6.2	7.1
24	5.3	4.4	5.0	5.8	5.1	5.5	5.4	4.8	5.1	8.5	7.2	7.9
25	5.3	4.5	4.9	5.7	5.0	5.3	5.6	4.5	5.1	8.1	7.6	7.9
26	5.2	4.3	4.8	5.7	5.0	5.3	5.6	4.7	---	7.9	7.1	7.5
27	5.9	4.2	5.1	5.7	4.8	5.3	---	---	---	7.6	6.9	7.2
28	6.8	5.5	6.3	5.7	4.8	5.3	6.1	5.5	---	7.6	6.9	7.3
29	7.0	6.1	6.4	6.0	4.8	5.4	6.0	5.3	5.6	7.5	6.8	7.2
30	6.7	5.9	6.4	6.1	5.0	5.5	5.9	5.1	5.5	7.5	6.7	7.2
31	---	---	---	6.2	4.8	5.3	6.0	5.0	5.4	---	---	---
MONTH	7.9	4.2	6.2	7.0	4.4	5.6	6.1	4.0	5.2	---	---	---

## DELAWARE RIVER BASIN

01482800 DELAWARE RIVER AT REEDY ISLAND JETTY, DEL.--Continued

TEMPERATURE (°C) OF WATER, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

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

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

## DELAWARE RIVER BASIN

319

01482800 DELAWARE RIVER AT REEDY ISLAND JETTY, DEL.--Continued

TEMPERATURE (°C) OF WATER, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

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

pH (UNITS), WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	FEBRUARY			MARCH			APRIL			MAY		
	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	---	---	---	---	---	---	---	---	---	7.0	6.6	6.9
2	---	---	---	---	---	---	---	---	---	7.1	6.8	6.9
3	---	---	---	---	---	---	---	---	---	7.2	6.7	7.0
4	---	---	---	---	---	---	---	---	---	7.1	6.9	7.0
5	---	---	---	---	---	---	---	---	---	7.3	6.9	7.1
6	---	---	---	---	---	---	---	---	---	7.3	6.9	7.1
7	---	---	---	---	---	---	---	---	---	7.2	6.8	7.0
8	---	---	---	---	---	---	---	---	---	7.1	6.8	6.9
9	---	---	---	---	---	---	---	---	---	7.2	6.8	7.0
10	---	---	---	---	---	---	---	---	---	7.2	6.7	7.0
11	---	---	---	---	---	---	---	---	---	6.8	6.5	6.7
12	---	---	---	---	---	---	---	---	---	7.1	6.6	6.8
13	---	---	---	---	---	---	---	---	---	6.7	6.3	6.5
14	---	---	---	---	---	---	---	---	---	6.7	6.3	6.5
15	---	---	---	---	---	---	---	---	---	6.6	6.3	6.5
16	---	---	---	---	---	---	6.6	6.3	---	6.6	6.2	6.5
17	---	---	---	---	---	---	6.8	6.3	6.5	6.6	6.1	6.4
18	---	---	---	---	---	---	6.9	6.4	6.6	6.5	6.2	6.4
19	---	---	---	---	---	---	7.0	6.5	6.7	6.7	6.4	6.5
20	---	---	---	---	---	---	6.9	6.6	6.7	6.7	6.4	6.6
21	---	---	---	---	---	---	6.8	6.5	6.7	6.7	6.5	6.6
22	---	---	---	---	---	---	6.8	6.6	6.7	6.7	6.5	---
23	---	---	---	---	---	---	6.9	6.7	6.8	---	---	---
24	---	---	---	---	---	---	6.8	6.7	6.8	---	---	---
25	---	---	---	---	---	---	7.0	6.7	6.9	---	---	---
26	---	---	---	---	---	---	7.2	6.8	7.0	---	---	---
27	---	---	---	---	---	---	7.1	6.9	7.0	---	---	---
28	---	---	---	---	---	---	7.1	6.9	---	---	---	---
29	---	---	---	---	---	---	---	---	---	7.0	6.8	---
30	---	---	---	---	---	---	6.9	6.7	---	6.9	6.6	6.8
31	---	---	---	---	---	---	---	---	---	6.9	6.6	6.8
MONTH	---	---	---	---	---	---	---	---	---	7.3	6.1	---

## DELAWARE RIVER BASIN

01482800 DELAWARE RIVER AT REEDY ISLAND JETTY, DEL.--Continued

pH (UNITS) WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

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



## ANALYSES OF SAMPLES COLLECTED AT WATER-QUALITY PARTIAL-RECORD STATIONS

WATER QUALITY DATA, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DATE	TIME	INSTANTANEOUS DIS-CHARGE (CFS)	STAGE (FT ABOVE DATUM)	ELEV. OF LAND SURFACE DATUM (FT. ABOVE MSL)	TEMPERATURE (DEG C)	SPECIFIC CONDUCTANCE (MICRO-MHOS)	PH (UNITS)	TOTAL ACIDITY AS H+ (MG/L)	DIS-SOLVED OXYGEN (MG/L)	BIO-CHEMICAL OXYGEN DEMAND 5 DAY (MG/L)	TURBIDITY (JTU)	COLOR (PLATINUM-COBALT UNITS)
01477200 - DELAWARE RIVER AT MARCUS HOOK, PA. (LAT 39 48 01 LONG 075 25 10)												
JAN., 1974		--	--	--	--	--	--	--	--	--	--	--
03...		--	--	--	--	--	--	--	--	--	--	--
FEB.		--	--	--	--	--	--	--	--	--	--	--
07...		--	--	--	--	--	--	--	--	--	--	--
APR.		--	--	--	--	--	--	--	--	--	--	--
04...	0840	--	--	--	--	170	6.6	--	--	--	23	33
MAY		--	--	--	--	--	--	--	--	--	--	--
02...	0840	--	--	--	15.5	194	6.5	--	--	--	--	--
JUNE		--	--	--	--	--	--	--	--	--	--	--
06...	0920	--	--	--	21.5	222	6.7	--	--	--	--	--
JULY		--	--	--	--	--	--	--	--	--	--	--
11...	0835	--	--	--	26.5	383	6.4	--	--	--	--	--
AUG.		--	--	--	--	--	--	--	--	--	--	--
08...	1105	--	--	--	27.0	639	--	--	--	--	--	--
SEP.		--	--	--	--	--	--	--	--	--	--	--
05...	0830	--	--	--	25.5	307	--	--	--	--	--	--

DATE	TOTAL NITRATE (N) (MG/L)	DIS-SOLVED NITRATE (N) (MG/L)	TOTAL NITRATE (N) (MG/L)	DIS-SOLVED NITRATE (N) (MG/L)	TOTAL KJEL-DAHL NITRO-GEN (N) (MG/L)	AMMONIA NITRO-GEN (N) (MG/L)	TOTAL ORGANIC NITRO-GEN (N) (MG/L)	TOTAL NITRO-GEN (N) (MG/L)	TOTAL PHOS-PHORUS (P) (MG/L)	TOTAL ORTHO PHOS-PHORUS (P) (MG/L)	DIS-SOLVED ORTHO PHOS-PHORUS (P) (MG/L)	TOTAL ORGANIC CARBON (C) (MG/L)
01477200 - DELAWARE RIVER AT MARCUS HOOK, PA. (LAT 39 48 01 LONG 075 25 10)												
JAN., 1974	--	--	--	--	--	--	--	--	--	--	--	--
03...	--	--	--	--	--	--	--	--	--	--	--	--
FEB.	--	--	--	--	--	--	--	--	--	--	--	--
07...	--	--	--	--	--	--	--	--	--	--	--	--
APR.	--	--	--	--	--	--	--	--	--	--	--	--
04...	.11	--	1.1	--	--	--	--	--	--	--	.10	--
MAY	--	--	--	--	--	--	--	--	--	--	--	--
02...	--	.12	--	1.7	--	--	--	--	--	--	.03	--
JUNE	--	--	--	--	--	--	--	--	--	--	--	--
06...	--	.13	--	.97	--	--	--	--	--	--	.08	--
JULY	--	--	--	--	--	--	--	--	--	--	--	--
11...	--	.34	--	2.2	--	--	--	--	--	--	.01	--
AUG.	--	--	--	--	--	--	--	--	--	--	--	--
08...	--	--	--	--	--	--	--	--	--	--	--	--
SEP.	--	--	--	--	--	--	--	--	--	--	--	--
05...	--	.19	--	1.4	--	--	--	--	--	--	.07	--

DATE	DIS-SOLVED ORGANIC CARBON (C) (MG/L)	IMME-DIATE COLI-FORM (COL. PER 100 ML)	FECAL COLI-FORM (COL. PER 100 ML)	STREP-TOCOCOCCI (COL. PER 100 ML)	ALKA-LINITY AS CAC03 (MG/L)	CAR-BONATE (CO3) (MG/L)	BICAR-BONATE (HCO3) (MG/L)	CARBON DIOXIDE (CO2) (MG/L)	TOTAL ACIDITY AS CAC03 (MG/L)	TOTAL CAL-CIUM (CA) (MG/L)	TOTAL MAG-NE-SIUM (MG) (MG/L)	TOTAL SODIUM (NA) (MG/L)
01477200 - DELAWARE RIVER AT MARCUS HOOK, PA. (LAT 39 48 01 LONG 075 25 10)												
JAN., 1974	--	--	--	--	--	--	--	1.0	--	--	--	--
03...	--	--	--	--	--	--	--	7.0	--	--	--	--
FEB.	--	--	--	--	--	--	--	--	--	--	--	--
07...	--	--	--	--	--	--	--	--	--	--	--	--
APR.	--	--	--	--	--	--	--	--	--	--	--	--
04...	--	--	--	--	25	0	30	12	--	--	--	--
MAY	--	--	--	--	--	--	--	--	--	--	--	--
02...	--	--	--	--	21	0	26	13	--	--	--	--
JUNE	--	--	--	--	--	--	--	--	--	--	--	--
06...	--	--	--	--	30	0	37	12	--	--	--	--
JULY	--	--	--	--	--	--	--	--	--	--	--	--
11...	--	--	--	--	22	0	27	17	--	--	--	--
AUG.	--	--	--	--	--	--	--	--	--	--	--	--
08...	--	--	--	--	32	--	39	--	--	--	--	--
SEP.	--	--	--	--	--	--	--	--	--	--	--	--
05...	--	--	--	--	30	--	36	--	--	--	--	--

DATE	TOTAL P0-TAS-SIUM (K) (MG/L)	DIS-SOLVED CHLO-RIDE (CL) (MG/L)	DIS-SOLVED SULFATE (SO4) (MG/L)	TOTAL FLUO-RIDE (F) (MG/L)	DIS-SOLVED SILICA (SIO2) (MG/L)	DIS-SOLVED SOLIDS (RESI-DUE AT 180 C) (MG/L)	DIS-SOLVED SOLIDS (TONS PER AC-FT)	TOTAL IRON (FE) (UG/L)	DIS-SOLVED IRON (FE) (UG/L)	TOTAL MAN-GANESE (MN) (UG/L)	DIS-SOLVED MAN-GANESE (MN) (UG/L)
01477200 - DELAWARE RIVER AT MARCUS HOOK, PA. (LAT 39 48 01 LONG 075 25 10)											
JAN., 1974	--	--	--	--	--	--	--	--	--	--	--
03...	--	--	--	--	--	--	--	--	--	--	--
FEB.	--	--	--	--	--	--	--	--	--	--	--
07...	--	--	--	--	--	--	--	--	--	--	--
APR.	--	--	--	--	--	--	--	--	--	--	--
04...	--	--	--	--	25	0	30	12	--	--	--
MAY	--	--	--	--	--	--	--	--	--	--	--
02...	--	--	--	--	21	0	26	13	--	--	--
JUNE	--	--	--	--	--	--	--	--	--	--	--
06...	--	--	--	--	30	0	37	12	--	--	--
JULY	--	--	--	--	--	--	--	--	--	--	--
11...	--	--	--	--	22	0	27	17	--	--	--
AUG.	--	--	--	--	--	--	--	--	--	--	--
08...	--	--	--	--	32	--	39	--	--	--	--
SEP.	--	--	--	--	--	--	--	--	--	--	--
05...	--	--	--	--	30	--	36	--	--	--	--

DATE	TOTAL P0-TAS-SIUM (K) (MG/L)	DIS-SOLVED CHLO-RIDE (CL) (MG/L)	DIS-SOLVED SULFATE (SO4) (MG/L)	TOTAL FLUO-RIDE (F) (MG/L)	DIS-SOLVED SILICA (SIO2) (MG/L)	DIS-SOLVED SOLIDS (RESI-DUE AT 180 C) (MG/L)	DIS-SOLVED SOLIDS (TONS PER AC-FT)	TOTAL IRON (FE) (UG/L)	DIS-SOLVED IRON (FE) (UG/L)	TOTAL MAN-GANESE (MN) (UG/L)	DIS-SOLVED MAN-GANESE (MN) (UG/L)
01477200 - DELAWARE RIVER AT MARCUS HOOK, PA. (LAT 39 48 01 LONG 075 25 10)											
JAN., 1974	--	--	--	--	--	--	--	--	--	--	--
03...	--	--	--	--	--	--	--	--	--	--	--
FEB.	--	--	--	--	--	--	--	--	--	--	--
07...	--	--	--	--	--	--	--	--	--	--	--
APR.	--	--	--	--	--	--	--	--	--	--	--
04...	--	13	31	--	5.0	--	.13	--	--	--	--
MAY	--	--	--	--	--	--	--	--	--	--	--
02...	--	16	38	--	4.7	157	.21	--	2800	--	220
JUNE	--	--	--	--	--	--	--	--	--	--	--
06...	--	17	42	--	3.5	141	.19	--	90	--	150
JULY	--	--	--	--	--	--	--	--	--	--	--
11...	--	46	71	--	.5	222	.30	--	40	--	150
AUG.	--	--	--	--	--	--	--	--	--	--	--
08...	--	110	77	--	.7	403	.55	--	0	--	130
SEP.	--	--	--	--	--	--	--	--	--	--	--
05...	--	27	56	--	.7	193	.26	--	--	--	--

## GROUND-WATER QUALITY RECORDS

(Aquifer code designations and column heading explanations are listed on p. 337)

ATLANTIC COUNTY

LOCAL IDENT- IFIER	LAT- ITUDE	LONG- ITUDE	SEQ. NO.	GEO- LOGIC UNIT	TOTAL DEPTH OF WELL (FT)	DATE OF SAMPLE	TIME	ELEV. OF LAND SURFACE DATUM (FT. ABOVE MSL)	TOTAL DEPTH OF HOLE (FT. BELOW LSD)	DEPTH TO TOP OF WATER- BEARING ZONE (FT)
LONGPORT BORO WD 2	39 18 59	074 31 22	01	122KRKD	800	74-04-08	--	10	818	739
ATLANTIC CO WC-DOBBS AVE	39 19 05	074 36 31	01	121CNSY	99	74-04-08	--	20	--	--
ATLANTIC CO WC-2-5TH ST	39 19 08	074 36 02	01	121CNSY	118	74-09-24	0930	32	123	--
MARGATE CITY WD 6	39 19 32	074 30 57	01	122KRKD	804	74-04-08	--	10	--	682
ATLANTIC CO WC-KIRKLAND	39 20 01	074 35 22	01	121CNSY	71	74-09-24	0945	20	--	--
VENTNOR CITY WD 4	39 20 30	074 28 54	01	122KRKD	810	74-04-08	--	8.0	--	--
VENTNOR CITY WD 9	39 20 32	074 28 55	02	122KRKD	803	74-04-08	--	8.0	835	732
ATLANTIC CO WC-FIRE ROAD	39 22 54	074 34 32	01	121CNSY	130	74-04-08	--	15	--	--
				121CNSY	130	74-09-24	1015	15	154	83
BRIGANTINE CITY WD 4-66	39 23 24	074 23 14	01	122KRKD	783	74-09-24	1325	10	788	737
ATLANTIC CO WC-WOODLAND	39 23 33	074 31 44	01	121CNSY	157	74-09-24	1050	50	--	--
BRIGANTINE CITY WD 3-52	39 23 42	074 23 28	01	122KRKD	766	74-09-24	1348	10	769	--
BRIGANTINE CITY WD 2-29	39 24 55	074 21 20	01	122KRKD	778	74-09-24	1420	12	788	--
ATLANTIC CO WC-CANALE DR	39 24 55	074 32 07	01	122KRKDU	208	74-09-24	1110	50	--	--
ATLANTIC CO WC-ABSECON 1	39 25 51	074 30 23	01	121CNSY	205	74-04-08	--	30	263	160
				121CNSY	205	74-09-24	1125	30	263	160

LOCAL IDENT- IFIER	DATE OF SAMPLE	DEPTH TO BOT- TOM OF WATER- BEARING ZONE (FT)	DEPTH TO TOP OF SAMPLE INTER- VAL (FT)	DEPTH TO BOT- TOM OF SAMPLE INTER- VAL (FT)	TEMPER- ATURE (DEG C)	SPE- CIFIC CON- DUCT- ANCE (MICRO- MHOS)	PH (UNITS)	DIS- SOLVED CHLO- RIDE (CL) (MG/L)
LONGPORT BORO WD 2	74-04-08	808	750	800	18.7	178	6.0	8.2
ATLANTIC CO WC-DOBBS AVE	74-04-08	--	79	99	14.1	116	6.1	17
ATLANTIC CO WC-2-5TH ST	74-09-24	--	78	118	13.3	128	5.5	--
MARGATE CITY WD 6	74-04-08	--	740	790	18.7	164	8.8	7.8
ATLANTIC CO WC-KIRKLAND	74-09-24	--	56	71	13.6	108	5.0	18
VENTNOR CITY WD 4	74-04-08	--	760	810	18.6	171	8.8	8.0
VENTNOR CITY WD 9	74-04-08	802	740	800	18.9	164	8.9	7.0
ATLANTIC CO WC-FIRE ROAD	74-04-08	--	--	--	12.9	46	6.7	7.9
	74-09-24	120	97	120	15.4	120	5.6	12
BRIGANTINE CITY WD 4-66	74-09-24	788	733	783	18.5	149	7.1	5.1
ATLANTIC CO WC-WOODLAND	74-09-24	--	--	--	12.9	64	5.4	9.6
BRIGANTINE CITY WD 3-52	74-09-24	--	706	766	18.0	148	7.1	3.4
BRIGANTINE CITY WD 2-29	74-09-24	--	718	778	18.5	93	7.1	3.4
ATLANTIC CO WC-CANALE DR	74-09-24	--	172	208	12.4	54	4.8	6.9
ATLANTIC CO WC-ABSECON 1	74-04-08	204	177	205	12.7	57	6.3	7.3
	74-09-24	204	177	205	12.6	54	4.5	8.7

## CAMDEN COUNTY

LOCAL IDENT- I- FIER	LAT- I- TUDE	LONG- I- TUDE	SEQ. NO.	GEO- LOGIC UNIT	TOTAL DEPTH OF WELL (FT)	DATE OF SAMPLE	TIME	ELEV. OF LAND SURFACE DATUM (FT. ABOVE MSL)	TOTAL DEPTH OF HOLE (FT. BELOW LSD)	DEPTH TO TOP OF WATER- BEARING ZONE (FT)
WINSLOW WC 2-71 OBS	39 42 35	074 57 28	01	121CNSY	78	74-08-20	1120	120	--	--
WINSLOW WC 1-PROD DEL	39 42 48	074 57 10	01	112PLCC	103	74-08-19	1430	115	119	67
WINSLOW WC 1-PROD RAW	39 42 48	074 57 10	02	112PLCC	103	74-08-19	1410	115	119	67
WINSLOW WC 3-71 OBS	39 43 11	074 57 07	02	121CNSY	78	74-08-20	1533	117	--	--

LOCAL IDENT- I- FIER	DATE OF SAMPLE	DEPTH TO BOT- TOM OF WATER- BEARING ZONE (FT)	SAMPLE SOURCE	SAM- PLING CONDI- TION	DEPTH TO TOP OF SAMPLE INTER- VAL (FT)	DEPTH TO BOT- TOM OF SAMPLE INTER- VAL (FT)	TEMPER- ATURE (DEG C)	SPE- CIFIC CON- DUCT- ANCE (MICRO- MHOS)	PH	TUR- BID- ITY (JTU)
WINSLOW WC 2-71 OBS	74-08-20	--	31	8	73	78	13.2	110	5.5	30
WINSLOW WC 1-PROD DEL	74-08-19	110	44	--	72	103	22.8	--	6.8	--
WINSLOW WC 1-PROD RAW	74-08-19	110	27	8	72	103	12.6	67	5.2	1
WINSLOW WC 3-71 OBS	74-08-20	--	31	8	73	78	12.9	55	4.6	2

LOCAL IDENT- I- FIER	DATE OF SAMPLE	COLOR (PLAT- INUM- COBALT UNITS)	TOTAL CAL- CIUM (CA) (MG/L)	DIS- SOLVED CAL- CIUM (CA) (MG/L)	TOTAL MAG- NE- SIUM (MG) (MG/L)	DIS- SOLVED MAG- NE- SIUM (MG) (MG/L)	TOTAL SODIUM (NA) (MG/L)	DIS- SOLVED SODIUM (NA) (MG/L)	TOTAL PO- TAS- SIUM (K) (MG/L)	DIS- SOLVED PO- TAS- SIUM (K) (MG/L)
WINSLOW WC 2-71 OBS	74-08-20	1	5.0	3.8	3.2	2.8	--	6.0	--	1.9
WINSLOW WC 1-PROD DEL	74-08-19	--	--	--	--	--	--	--	--	--
WINSLOW WC 1-PROD RAW	74-08-19	7	7.0	3.0	2.4	2.0	4.5	4.2	1.2	1.5
WINSLOW WC 3-71 OBS	74-08-20	2	3.0	2.6	1.6	1.4	--	2.5	--	1.1

LOCAL IDENT- I- FIER	DATE OF SAMPLE	HARD- NESS (CA, MG) (MG/L)	NON- CAR- BONATE HARD- NESS (MG/L)	CARBON DIOXIDE (CO2) (MG/L)	ALKA- LINITY AS CACO3 (MG/L)	BICAR- BONATE (HCO3) (MG/L)	CAR- BONATE (CO3) (MG/L)	DIS- SOLVED CHLO- RIDE (CL) (MG/L)	DIS- SOLVED SULFATE (SO4) (MG/L)	TOTAL FLUO- RIDE (F) (MG/L)
WINSLOW WC 2-71 OBS	74-08-20	21	15	35	6	7	0	10	1.4	.1
WINSLOW WC 1-PROD DEL	74-08-19	--	--	--	--	--	--	--	--	--
WINSLOW WC 1-PROD RAW	74-08-19	16	10	71	6	7	0	7.0	4.6	.1
WINSLOW WC 3-71 OBS	74-08-20	12	7	241	5	6	0	6.0	1.7	.1

LOCAL IDENT- I- FIER	DATE OF SAMPLE	DIS- SOLVED SILICA (SI02) (MG/L)	DIS- SOLVED SOLIDS (RESI- DUE AT 180 C) (MG/L)	DIS- SOLVED SOLIDS (SUM OF CONSTITU- ENTS) (MG/L)	DIS- SOLVED SOLIDS (TONS PER AC-FT)	TOTAL NITRATE (N) (MG/L)	TOTAL NITRITE (N) (MG/L)	TOTAL KJEL- DAHL NITRO- GEN (N) (MG/L)	AMMONIA NITRO- GEN (N) (MG/L)	ORGANIC NITRO- GEN (N) (MG/L)
WINSLOW WC 2-71 OBS	74-08-20	6.3	63	38	.09	5.8	.00	.10	.00	.10
WINSLOW WC 1-PROD DEL	74-08-19	--	--	--	--	3.0	.00	.01	.00	.01
WINSLOW WC 1-PROD RAW	74-08-19	6.6	47	32	.06	3.0	.00	.23	.00	.23
WINSLOW WC 3-71 OBS	74-08-20	6.4	40	25	.05	3.3	.00	.00	.00	.00

LOCAL IDENT- I- FIER	DATE OF SAMPLE	TOTAL NITRO- GEN (N) (MG/L)	TOTAL PHOS- PHORUS (P) (MG/L)	TOTAL ORTHO PHOS- PHORUS (P) (MG/L)	TOTAL ORGANIC CARBON (C) (MG/L)	TOTAL IRON (FE) (UG/L)	DIS- SOLVED IRON (FE) (UG/L)	DIS- SOLVED MAN- GANESE (MN) (UG/L)
WINSLOW WC 2-71 OBS	74-08-20	5.9	.10	.00	1.4	2300	250	2500
WINSLOW WC 1-PROD DEL	74-08-19	3.0	.00	.00	9.9	--	--	--
WINSLOW WC 1-PROD RAW	74-08-19	3.2	.02	.01	6.4	110	60	10
WINSLOW WC 3-71 OBS	74-08-20	3.3	.00	.00	7.1	580	180	30

LOCAL IDENT- I- FIER	DATE OF SAMPLE	TOTAL ARSENIC (AS) (UG/L)	TOTAL CAD- MIUM (CD) (UG/L)	TOTAL CHRO- MIUM (CR) (UG/L)	TOTAL COBALT (CO) (UG/L)	TOTAL COPPER (CU) (UG/L)	TOTAL LEAD (PB) (UG/L)	TOTAL NICKEL (NI) (UG/L)	TOTAL ZINC (ZN) (UG/L)	TOTAL MERCURY (HG) (UG/L)
WINSLOW WC 2-71 OBS	74-08-20	<1	0	10	3	20	11	9	50	.5
WINSLOW WC 1-PROD DEL	74-08-19	0	0	0	0	0	2	1	10	<.5
WINSLOW WC 1-PROD RAW	74-08-19	<1	1	0	0	10	2	0	100	<.5
WINSLOW WC 3-71 OBS	74-08-20	<1	0	10	1	20	2	4	20	<.5

## CAMDEN COUNTY--Continued

LOCAL IDENTIFIER	LATITUDE	LONGITUDE	SEQ. NO.	GEO-LOGIC UNIT	TOTAL DEPTH OF WELL (FT)	DATE OF SAMPLE	TIME	ELEV. OF LAND SURFACE DATUM (FT. ABOVE MSL)	TOTAL DEPTH OF HOLE (FT. BELOW LSD)	DEPTH TO TOP OF WATER-BEARING ZONE (FT)
WINSLOW WC 2-71 OBS	39 42 35	074 57 28	01	121CNSY	78	74-08-20	1120	120	--	--
WINSLOW WC 1-PROD DEL	39 42 48	074 57 10	01	112PLCC	103	74-08-19	1430	115	119	67
WINSLOW WC 1-PROD RAW	39 42 48	074 57 10	02	112PLCC	103	74-08-19	1410	115	119	67
WINSLOW WC 3-71 OBS	39 43 11	074 57 07	02	121CNSY	78	74-08-20	1533	117	--	--
BROOKLAWN BORO WD 4-67	39 52 43	075 07 24	01	211MGRR	321	74-05-01	0820	13	324	289
BROOKLAWN BORO WD 2-61	39 52 44	075 07 27	03	211MGRR	321	74-08-28	1000	13	324	289
				211MGRR	327	74-05-01	0800	13	328	304
GLOUCESTER CITY WD 40	39 53 49	075 06 51	01	211MGRR	327	74-08-28	0950	13	328	304
GLOUCESTER CITY WD 41	39 53 59	075 06 54	01	211MGRR	262	74-08-28	0845	10	263	207
				211MGRR	270	74-05-01	1000	10	270	213
CAMDEN CITY WD-CITY 7	39 54 57	075 06 41	01	211MGRR	160	74-08-28	1200	21	167	107
CAMDEN CITY WD-CITY 11	39 55 12	075 06 40	01	211MGRR	159	74-08-28	1150	13	167	107
CAMDEN CITY WD-CITY 6N	39 55 27	075 06 46	01	211MGRR	139	73-10-02	0916	14	165	110
				211MGRR	139	74-08-28	1142	14	165	110
LOURDES HOSPITAL-STANDBY	39 55 39	075 05 41	01	211MGRR	258	73-10-02	1416	30	261	195
WEST JERSEY HOSPITAL 1	39 55 39	075 06 30	01	211MGRR	140	73-10-02	1316	30	162	116
CAMDEN CITY WD-CITY 4	39 55 41	075 06 22	01	211MGRR	162	73-10-02	1116	41	188	118
CAMDEN CITY WD-CITY 17	39 55 46	075 05 33	01	211MGRR	270	74-05-01	1315	34	274	221
				211MGRR	270	74-08-28	1120	34	274	221
CAMDEN CITY WD-CITY 3A	39 55 57	075 06 29	01	211MGRR	121	73-10-02	1016	15	123	74
CAMDEN CITY WD-CITY 5N	39 56 15	075 06 33	01	211MGRR	171	74-08-28	1105	22	175	--
CAMDEN CITY WD-CITY 12	39 56 17	075 07 10	01	211MGRR	170	74-08-28	1350	23	183	131
CAMDEN CITY WD-CITY 1A	39 56 38	075 06 22	01	211MGRR	175	74-05-01	1100	10	180	128
				211MGRR	175	74-08-28	1037	10	180	128
CAMDEN CITY WD-CITY 16	39 57 06	075 05 53	01	211MGRR	179	74-05-01	1115	23	187	144
				211MGRR	179	74-08-28	1050	23	187	144
CAMDEN CITY WD-PUCHACK 5	39 58 35	075 03 08	01	211MGRR	183	74-05-01	1240	19	206	138
				211MGRR	183	74-08-28	1435	19	206	138
CAMDEN CITY WD-PUCHACK 1	39 58 45	075 03 12	01	211MGRR	141	74-05-01	1230	10	145	106
				211MGRR	141	74-08-28	1425	10	145	106
CAMDEN CITY WD-DELAIR 1	39 58 48	075 03 47	01	211MGRR	138	74-05-01	1140	10	141	96
				211MGRR	138	74-08-28	1530	10	141	96
CAMDEN CITY WD-MORRIS 6	39 59 02	075 03 18	01	211MGRR	138	74-05-01	1150	8.0	148	80
CAMDEN CITY WD-MORRIS 10	39 59 23	075 03 00	01	211MGRR	115	74-08-28	1542	16	150	70
CAMDEN CITY WD-MORRIS 4	39 59 29	075 02 53	02	211MGRR	130	74-05-01	1220	8.0	135	99
				211MGRR	130	74-08-28	1515	8.0	135	99
CAMDEN CITY WD-MORRIS 1	39 59 43	075 02 12	01	211MGRR	107	74-08-28	1505	9.0	--	--

LOCAL IDENTIFIER	DATE OF SAMPLE	DEPTH TO BOTTOM OF WATER-BEARING ZONE (FT)	PUMP OR FLOW PERIOD OF PRIOR TO SAMPLING (MIN)	DEPTH TO TOP OF SAMPLE INTER-VAL (FT)	DEPTH TO BOTTOM OF SAMPLE INTER-VAL (FT)	TEMPERATURE (DEG C)	SPECIFIC CONDUCTANCE (MICRO-MHOS)	PH (UNITS)	DISSOLVED CHLORIDE (CL) (MG/L)
WINSLOW WC 2-71 OBS	74-08-20	--	--	73	78	13.2	110	5.5	10
WINSLOW WC 1-PROD DEL	74-08-19	110	--	72	103	22.8	--	6.8	--
WINSLOW WC 1-PROD RAW	74-08-19	110	--	72	103	12.6	67	5.2	7.0
WINSLOW WC 3-71 OBS	74-08-20	--	--	73	78	12.9	55	4.6	6.0
BROOKLAWN BORO WD 4-67	74-05-01	320	--	288	319	14.3	287	6.9	11
BROOKLAWN BORO WD 2-61	74-08-28	320	10	288	319	14.4	348	6.7	12
	74-05-01	327	--	307	327	13.9	338	7.0	11
	74-08-28	327	--	307	327	14.3	330	6.8	13
GLOUCESTER CITY WD 40	74-08-28	--	15	221	261	13.9	347	6.6	24
GLOUCESTER CITY WD 41	74-05-01	--	--	226	266	14.2	252	6.5	11
CAMDEN CITY WD-CITY 7	74-08-28	167	1440	123	163	16.4	261	5.6	28
CAMDEN CITY WD-CITY 11	74-08-28	155	1440	124	154	16.0	439	5.4	37
CAMDEN CITY WD-CITY 6N	73-10-02	136	--	111	136	--	750	--	65
	74-08-28	136	1440	111	136	15.1	905	6.1	119
LOURDES HOSPITAL-STANDBY	73-10-02	260	--	241	258	--	177	--	6.4
WEST JERSEY HOSPITAL 1	73-10-02	140	--	119	140	--	946	--	120
CAMDEN CITY WD-CITY 4	73-10-02	161	--	125	160	--	824	--	66
CAMDEN CITY WD-CITY 17	74-05-01	--	--	230	265	14.4	220	5.8	17
	74-08-28	--	1440	230	265	14.3	234	5.6	18
CAMDEN CITY WD-CITY 3A	73-10-02	119	--	91	116	--	619	--	42
CAMDEN CITY WD-CITY 5N	74-08-28	--	1440	134	169	15.9	372	5.6	39
CAMDEN CITY WD-CITY 12	74-08-28	166	1440	136	166	15.2	244	6.1	25
CAMDEN CITY WD-CITY 1A	74-05-01	176	--	135	170	15.1	428	6.0	62
	74-08-28	176	4	135	170	15.1	433	5.9	62
CAMDEN CITY WD-CITY 16	74-05-01	181	--	149	179	14.4	662	6.4	59
	74-08-28	181	1440	149	179	14.5	694	6.2	62
CAMDEN CITY WD-PUCHACK 5	74-05-01	--	--	136	181	13.5	162	5.7	13
	74-08-28	--	1440	136	181	13.6	173	5.5	16
CAMDEN CITY WD-PUCHACK 1	74-05-01	143	--	108	138	14.9	237	6.1	20
	74-08-28	143	1440	108	138	15.1	233	5.9	22
CAMDEN CITY WD-DELAIR 1	74-05-01	141	--	106	136	15.0	245	6.6	14
	74-08-28	141	1440	106	136	15.4	239	6.5	15
CAMDEN CITY WD-MORRIS 6	74-05-01	135	--	98	133	14.7	479	6.5	20
CAMDEN CITY WD-MORRIS 10	74-08-28	132	1440	75	115	13.4	347	6.6	33
CAMDEN CITY WD-MORRIS 4	74-05-01	130	--	95	130	13.8	328	6.6	28
	74-08-28	130	1440	95	130	14.3	540	6.5	59
CAMDEN CITY WD-MORRIS 1	74-08-28	--	1080	77	107	14.6	265	5.7	19

## GROUND-WATER QUALITY RECORDS--Continued

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## CAPE MAY COUNTY

LOCAL IDENT- IFIER	LAT- ITUDE	LONG- ITUDE	SEQ. NO.	GEO- LOGIC UNIT	TOTAL DEPTH OF WELL (FT)	DATE OF SAMPLE	TIME	ELEV. OF LAND SURFACE DATUM (FT. ABOVE MSL)	TOTAL DEPTH OF HOLE (FT. BELOW LSD)	DEPTH TO TOP OF WATER- BEARING ZONE (FT)
CAPE MAY CITY WD 1	38 56 43	074 55 33	01	121CNSY	306	74-08-29	1145	12	--	92
NW MAGNESITE CO 2	38 56 43	074 57 55	01	121CNSY	268	74-04-04	--	10	--	--
NW MAGNESITE CO 1	38 56 45	074 58 03	01	121CNSY	268	74-08-29	1410	10	270	200
				122KRKD	327	74-04-04	--	10	385	296
				122KRKD	327	74-08-29	1440	10	385	296
US COAST GUARD 1	38 56 50	074 53 11	01	121CNSY	332	74-04-03	--	11	332	279
CAPE MAY CITY WD 2	38 57 01	074 55 28	01	121CNSY	282	74-04-03	--	12	322	--
CAPE MAY CITY WD 3	38 57 24	074 55 21	01	121CNSY	282	74-08-29	1125	12	322	--
				121CNSY	276	74-04-03	--	15	--	--
				121CNSY	276	74-08-29	1135	15	--	--
LOWER TWP WC 1	38 58 53	074 57 12	01	121CNSY	262	74-08-29	1535	18	285	200
LOWER TWP WC 2	38 59 05	074 56 25	01	121CNSY	247	74-04-04	--	12	--	--
WILDWOOD WD PINE 2	38 59 32	074 48 51	02	121CNSY	247	74-08-29	1525	12	--	--
				121CNSY	364	74-04-04	--	10	364	--
				121CNSY	364	74-08-29	1635	10	364	--
WILDWOOD WD RIO GRAND 38	39 01 35	074 53 50	01	122KRKD	592	74-04-04	--	10	592	--
WILDWOOD WD RIO GRAND 28	39 01 35	074 53 58	01	121CNSY	592	74-08-29	1315	10	592	--
WILDWOOD WD RIO GRAND 36	39 01 37	074 53 52	01	112CPMY	244	74-08-29	1325	8.0	271	202
WILDWOOD WD RIO GRAND 31	39 01 38	074 53 50	01	112ESRNS	63	74-08-29	1305	9.0	63	--
STONE HARBOR WD 4	39 03 01	074 45 45	01	122KRKDL	135	74-08-29	1310	10	141	92
STONE HARBOR WD 2	39 03 14	074 45 32	01	122KRKDL	880	74-08-30	1110	10	965	820
STONE HARBOR WD 3	39 03 23	074 45 25	01	122KRKDL	890	74-04-05	--	10	890	--
				122KRKDL	890	74-08-30	1055	10	890	--
				122KRKDL	881	74-04-05	--	9.0	881	--
AVALON BORO WD 7-71	39 04 20	074 44 35	02	122KRKDL	881	74-08-30	1045	9.0	881	--
AVALON BORO WD 6-68	39 05 28	074 43 38	01	122KRKDL	861	74-04-05	--	10	905	807
AVALON BORO WD 5-61	39 06 15	074 43 01	01	122KRKDL	861	74-08-30	1155	10	905	807
AVALON BORO WD 3-30	39 06 21	074 42 48	01	122KRKDL	922	74-08-30	1205	10	950	870
SEA ISLE CITY WD 5	39 07 47	074 42 41	01	122KRKDL	895	74-08-30	1215	5.0	927	762
				122KRKDL	925	74-04-05	--	10	--	--
				122KRKDL	925	74-08-30	1225	10	--	--
SEA ISLE CITY WD 4	39 08 47	074 42 00	01	122KRKDL	802	74-04-05	--	7.0	1000	739
SEA ISLE CITY WD 3	39 09 02	074 41 53	01	122KRKDL	802	74-08-30	1405	7.0	1000	739
SEA ISLE CITY WD 2	39 09 26	074 41 31	01	122KRKDL	830	74-08-30	1415	7.0	993	717
				122KRKDL	878	74-08-30	1420	7.0	878	713
				122KRKDL	864	74-04-05	--	7.0	864	--
CORSONS INLET WC 1	39 11 52	074 39 27	01	122KRKDL	864	74-08-30	1430	7.0	864	--
OCEAN CITY WSC 7	39 13 43	074 37 55	01	122KRKDL	834	74-04-05	--	7.0	834	--
				122KRKDL	834	74-08-30	1500	7.0	834	--
				122KRKDL	810	74-04-05	--	8.0	810	--
OCEAN CITY WSC 7	39 13 43	074 37 55	01	122KRKDL	810	74-08-30	1540	8.0	810	--
OCEAN CITY WSC 14	39 15 00	074 36 45	01	122KRKDL	843	74-08-30	1550	7.0	901	807
OCEAN CITY WSC 9	39 15 35	074 36 11	01	122KRKDL	809	74-04-05	--	8.0	809	--
OCEAN CITY WSC 10	39 16 42	074 34 47	01	122KRKDL	809	74-08-30	1600	8.0	809	--
				122KRKDL	809	74-08-30	1630	5.0	810	735
				122KRKDL	789	74-08-30	1630	5.0	810	735
OCEAN CITY WSC 5	39 17 10	074 34 08	01	122KRKDL	825	74-08-30	1615	6.0	--	--
OCEAN CITY WSC 13	39 17 12	074 33 40	01	122KRKDL	843	74-04-05	--	8.0	902	749
OCEAN CITY WSC 11	39 17 26	074 33 52	01	122KRKDL	797	74-08-30	1620	10	--	--

## GROUND-WATER QUALITY RECORDS--Continued

## CAPE MAY COUNTY--Continued

LOCAL IDENT- IFIER	DATE OF SAMPLE	DEPTH TO BOT- TOM OF WATER- BEARING ZONE (FT)	PUMP OR FLOW PERIOD PRIOR TO SAM- PLING (MIN)	DEPTH TO TOP OF SAMPLE INTER- VAL (FT)	DEPTH TO BOT- TOM OF SAMPLE INTER- VAL (FT)	TEMPER- ATURE (DEG C)	SPE- CIFIC CON- DUCT- ANCE (MICRO- MHOS)	PH (UNITS)	DIS- SOLVED CHLO- RIDE (CL) (MG/L)
CAPE MAY CITY WD 1	74-08-29	--	--	277	306	15.0	768	7.2	139
NW MAGNESITE CO 2	74-04-04	--	--	--	--	15.0	760	7.4	148
	74-08-29	--	--	235	265	15.1	779	7.2	156
NW MAGNESITE CO 1	74-04-04	327	--	296	321	15.7	1440	8.1	253
	74-08-29	327	--	296	321	16.1	1950	7.7	380
US COAST GUARD 1	74-04-03	324	--	292	322	15.3	580	8.1	129
CAPE MAY CITY WD 2	74-04-03	--	--	--	282	14.8	283	7.4	21
	74-08-29	--	--	--	282	15.0	308	7.2	23
CAPE MAY CITY WD 3	74-04-03	--	--	--	276	14.7	341	7.6	27
	74-08-29	--	--	--	276	15.0	305	7.3	18
LOWER TWP WC 1	74-08-29	--	--	241	262	14.8	266	7.4	14
LOWER TWP WC 2	74-04-04	--	--	212	247	14.4	244	7.3	16
	74-08-29	--	--	212	247	14.5	257	7.4	15
WILDWOOD WD PINE 2	74-04-04	--	--	304	354	15.5	652	7.1	120
	74-08-29	--	--	304	354	15.7	644	7.2	115
WILDWOOD WD RIO GRAND 38	74-04-04	--	--	461	590	16.4	522	7.6	81
	74-08-29	--	--	461	590	16.6	519	7.6	78
WILDWOOD WD RIO GRAND 28	74-08-29	--	--	209	244	14.1	168	7.1	12
WILDWOOD WD RIO GRAND 36	74-08-29	--	--	48	63	13.7	238	5.8	32
WILDWOOD WD RIO GRAND 31	74-08-29	139	--	108	135	13.4	195	7.2	13
STONE HARBOR WD 4	74-08-30	952	--	830	880	20.1	341	8.3	30
STONE HARBOR WD 2	74-04-05	--	--	803	890	19.0	298	8.2	22
	74-08-30	--	--	803	890	19.7	288	8.3	20
STONE HARBOR WD 3	74-04-05	--	--	838	878	19.6	262	8.2	20
	74-08-30	--	--	838	878	19.7	297	8.3	19
AVALON BORO WD 7-71	74-04-05	870	--	821	861	16.0	363	7.7	44
	74-08-30	870	1440	821	861	20.3	241	8.1	15
AVALON BORO WD 6-68	74-08-30	--	150	880	920	20.2	360	8.2	45
AVALON BORO WD 5-61	74-08-30	--	60	845	895	20.2	346	8.1	41
AVALON BORO WD 3-30	74-04-05	--	--	845	925	19.5	317	8.0	38
	74-08-30	--	60	845	925	20.0	334	8.1	37
SEA ISLE CITY WD 5	74-04-05	--	--	731	802	19.3	236	7.6	14
	74-08-30	--	--	731	802	19.3	246	7.9	13
SEA ISLE CITY WD 4	74-08-30	--	--	742	830	19.3	252	8.0	15
SEA ISLE CITY WD 3	74-08-30	--	--	800	870	19.5	257	7.9	17
SEA ISLE CITY WD 2	74-04-05	--	--	744	861	16.7	267	7.0	21
	74-08-30	--	--	744	861	19.4	242	7.9	13
CORSONS INLET WC 1	74-04-05	--	--	802	834	18.4	215	7.0	14
	74-08-30	--	--	802	834	19.5	224	7.6	14
OCEAN CITY WSC 7	74-04-05	--	--	760	810	19.3	205	6.7	23
OCEAN CITY WSC 7	74-08-30	--	--	760	810	19.6	210	7.5	12
OCEAN CITY WSC 14	74-08-30	840	--	775	840	19.2	213	7.5	12
OCEAN CITY WSC 9	74-04-05	--	--	749	809	19.2	187	6.2	11
	74-08-30	--	--	749	809	19.4	199	7.4	9.2
OCEAN CITY WSC 10	74-08-30	--	--	746	789	19.5	192	7.4	8.2
OCEAN CITY WSC 5	74-08-30	--	--	--	825	19.6	185	7.4	8.5
OCEAN CITY WSC 13	74-04-05	877	--	757	840	18.7	198	6.2	11
OCEAN CITY WSC 11	74-08-30	--	--	747	797	19.1	177	7.4	7.5



## CUMBERLAND COUNTY

LOCAL IDENT- I- FIER	LAT- I- TUDE	LONG- I- TUDE	SEQ. NO.	GEO- LOGIC UNIT	TOTAL DEPTH OF WELL (FT)	DATE OF SAMPLE	TIME	ELEV. OF LAND SURFACE DATUM (FT. ABOVE MSL)	SPE- CIFIC CON- DUCT- ANCE (MICRO- MHOS)	TUR- BID- ITY (JTU)
RAGOVIN 1 OBS	39 25 12	074 52 12	01	217PTMC	3629	74-07-01	1200	91	--	--
				217PTMC	3629	74-08-01	1200	91	51270	80
RAGOVIN 3400 FEET	39 25 12	074 52 12	02	211MGRR	3409	74-09-24	--	91	60200	80

LOCAL IDENT- I- FIER	DATE OF SAMPLE	COLOR (PLAT- INUM- COBALT UNITS)	DIS- SOLVED CAL- CIUM (CA) (MG/L)	DIS- SOLVED MAG- NE- SIUM (MG) (MG/L)	DIS- SOLVED SODIUM (NA) (MG/L)	DIS- SOLVED PO- TAS- SIUM (K) (MG/L)	HARD- NESS (CA,MG) (MG/L)	NON- CAR- BONATE HARD- NESS (MG/L)	ALKA- LINITY AS CAC03 (MG/L)	BICAR- BONATE (HCO3) (MG/L)
RAGOVIN 1 OBS	74-07-01	--	--	--	--	--	--	--	--	--
	74-08-01	1	170	480	12000	200	2600	2600	0	0
RAGOVIN 3400 FEET	74-09-24	2	--	--	--	--	--	--	127	155

LOCAL IDENT- I- FIER	DATE OF SAMPLE	DIS- SOLVED CHLO- RIDE (CL) (MG/L)	DIS- SOLVED SULFATE (SO4) (MG/L)	TOTAL FLUO- RIDE (F) (MG/L)	BROMIDE (BR) (MG/L)	DIS- SOLVED SILICA (SiO2) (MG/L)	DIS- SOLVED SOLIDS (RESI- DUE AT 180 C) (MG/L)	DIS- SOLVED SOLIDS (SUM OF CONSTI- TUENTS) (MG/L)	DIS- SOLVED SOLIDS (TONS PER AC-FT)	TOTAL NITRATE (N) (MG/L)
RAGOVIN 1 OBS	74-07-01	--	--	--	--	--	--	--	--	.02
	74-08-01	21000	38	.0	--	1.0	38800	34100	52.8	--
RAGOVIN 3400 FEET	74-09-24	27000	420	1.6	140	9.3	44500	--	60.5	.02

LOCAL IDENT- I- FIER	DATE OF SAMPLE	TOTAL NITRITE (N) (MG/L)	TOTAL KJEL- DAHL NITRO- GEN (N) (MG/L)	TOTAL NITRO- GEN (N) (MG/L)	TOTAL PHOS- PHORUS (P) (MG/L)	TOTAL ORTHO PHOS- PHORUS (P) (MG/L)	TOTAL IRON (FE) (UG/L)	DIS- SOLVED IRON (FE) (UG/L)	DIS- SOLVED MAN- GANESE (MN) (UG/L)
RAGOVIN 1 OBS	74-07-01	.01	--	--	.02	.02	--	--	--
	74-08-01	--	--	--	.04	--	--	22000	5300
RAGOVIN 3400 FEET	74-09-24	.00	8.3	8.3	.01	.01	32000	33000	1400

LOCAL IDENT- I- FIER	DATE OF SAMPLE	TOTAL ARSENIC (AS) (UG/L)	DIS- SOLVED ARSENIC (AS) (UG/L)	DIS- SOLVED BARIUM (BA) (UG/L)	DIS- SOLVED BERYL- LIUM (BE) (UG/L)	DIS- SOLVED BISMUTH (BI) (UG/L)	DIS- SOLVED BORON (B) (UG/L)	TOTAL CAD- MIUM (CD) (UG/L)	DIS- SOLVED CAD- MIUM (CD) (UG/L)	TOTAL CHRO- MIUM (CR) (UG/L)
RAGOVIN 1 OBS	74-08-01	--	0	460	<55	<180	<170	--	<230	--
RAGOVIN 3400 FEET	74-09-24	<1	--	450	<70	<220	1000	8	<420	50

LOCAL IDENT- I- FIER	DATE OF SAMPLE	DIS- SOLVED CHRO- MIUM (CR) (UG/L)	TOTAL COBALT (CO) (UG/L)	DIS- SOLVED COBALT (CO) (UG/L)	TOTAL COPPER (CU) (UG/L)	DIS- SOLVED COPPER (CU) (UG/L)	TOTAL LEAD (PB) (UG/L)	DIS- SOLVED LEAD (PB) (UG/L)	DIS- SOLVED MOLYB- DENUM (MO) (UG/L)	TOTAL NICKEL (NI) (UG/L)
RAGOVIN 1 OBS	74-08-01	<80	--	<170	--	<35	--	<170	<55	--
RAGOVIN 3400 FEET	74-09-24	<220	4	<220	100	50	6	<220	<47	20

LOCAL IDENT- I- FIER	DATE OF SAMPLE	DIS- SOLVED NICKEL (NI) (UG/L)	DIS- SOLVED SILVER (AG) (UG/L)	DIS- SOLVED STRON- TIUM (SR) (UG/L)	DIS- SOLVED VANA- DIUM (V) (UG/L)	TOTAL ZINC (ZN) (UG/L)	DIS- SOLVED ZINC (ZN) (UG/L)	DIS- SOLVED TIN (SN) (UG/L)	DIS- SOLVED ALUM- INUM (AL) (UG/L)	DIS- SOLVED GALLIUM (GA) (UG/L)
RAGOVIN 1 OBS	74-08-01	<170	<17	140000	<80	--	<500	<170	100	<35
RAGOVIN 3400 FEET	74-09-24	<300	<22	220000	<220	2400	1800	<220	200	<70

LOCAL IDENT- I- FIER	DATE OF SAMPLE	DIS- SOLVED GER- MANIUM (GF) (UG/L)	DIS- SOLVED LITHIUM (LI) (UG/L)	DIS- SOLVED SELE- NIUM (SE) (UG/L)	DIS- SOLVED TAN- IUM (TI) (UG/L)	DIS- SOLVED ZIR- CONIUM (ZR) (UG/L)	TOTAL MERCURY (HG) (UG/L)	DIS- SOLVED MERCURY (HG) (UG/L)
RAGOVIN 1 OBS	74-08-01	<170	1400	0	<120	<170	--	<.5
RAGOVIN 3400 FEET	74-09-24	<230	1400	--	<220	<330	5.4	--

## GROUND-WATER QUALITY RECORDS--Continued

## CUMBERLAND COUNTY--Continued

LOCAL IDENT- IFIER	LAT- ITUDE	LONG- ITUDE	SEQ. NO.	GEO- LOGIC UNIT	TOTAL DEPTH OF WELL (FT)	DATE OF SAMPLE	TIME	ELEV. OF LAND SURFACE DATUM (FT. ABOVE MSL)	TOTAL DEPTH OF HOLE (FT. BELOW LSD)	DEPTH TO TOP OF WATER- BEARING ZONE (FT)
MOORES BEACH FIRE DEPT	39 11 18	074 57 05	01	122KRKD	315	74-08-27	1040	5.0	315	280
NJDIA LEESBURG SP FARM	39 13 56	074 57 51	01	121CNSY	268	74-05-02	--	13	--	--
				121CNSY	268	74-08-27	1010	13	--	--
FORTESCUE REALTY 3	39 14 20	075 10 23	01	122KRKD	303	74-05-02	--	8.0	--	--
FORTESCUE REALTY 4	39 14 20	075 10 23	02	122KRKD	303	74-08-27	1210	8.0	--	--
M GANDYS BEACH	39 16 18	075 13 54	01	124PNPN	402	74-05-02	--	5.0	--	--
				124PNPN	402	74-08-27	1314	5.0	--	--
MONEY ISL MARINA 1	39 17 04	075 14 15	01	124PNPN	370	74-05-02	--	4.0	--	--
				124PNPN	370	74-08-27	1350	4.0	--	--
SEA BREEZE TAVERN	39 19 43	075 19 18	01	122KRKD	287	74-05-02	--	4.0	--	--
				122KRKD	287	74-08-27	1530	4.0	--	--
BRIDGETON CITY WD 2R	39 24 30	075 13 13	01	121CKKD	98	74-05-02	--	20	--	--
				121CKKD	98	74-08-27	1632	20	--	--
RAGOVIN 1 OBS	39 25 12	074 52 12	01	217PTMC	3629	74-08-01	1200	91	--	--
RAGOVIN 3400 FEET	39 25 12	074 52 12	02	211MGRR	3409	74-09-24	--	91	--	--

LOCAL IDENT- IFIER	DATE OF SAMPLE	DEPTH TO TOP OF SAMPLE INTER- VAL (FT)	DEPTH TO BOT- TOM OF SAMPLE INTER- VAL (FT)	TEMPER- ATURE (DEG C)	SPE- CIFIC CON- DUCT- ANCE (MICRO- MHOS)	PH (UNITS)	DIS- SOLVED CHLO- RIDE (CL) (MG/L)
MOORES BEACH FIRE DEPT	74-08-27	295	315	--	173	7.6	5.2
NJDIA LEESBURG SP FARM	74-05-02	248	268	14.7	168	7.3	4.6
	74-08-27	248	268	15.6	173	7.6	5.0
FORTESCUE REALTY 3	74-05-02	283	303	15.3	218	7.7	7.2
FORTESCUE REALTY 4	74-08-27	283	303	15.7	225	7.5	7.1
M GANDYS BEACH	74-05-02	378	402	14.8	2200	7.1	659
	74-08-27	378	402	15.2	705	7.7	102
MONEY ISL MARINA 1	74-05-02	350	370	--	700	--	76
	74-08-27	350	370	16.6	687	7.7	74
SEA BREEZE TAVERN	74-05-02	--	287	15.5	660	--	70
	74-08-27	--	287	15.9	670	7.6	68
BRIDGETON CITY WD 2R	74-05-02	72	98	13.8	69	4.5	7.3
	74-08-27	72	98	13.8	71	4.3	8.5
RAGOVIN 1 OBS	74-08-01	--	--	--	51270	--	21000
RAGOVIN 3400 FEET	74-09-24	--	--	--	60200	--	27000

## GROUND-WATER QUALITY RECORDS--Continued

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## GLOUCESTER COUNTY

LOCAL IDENT- IFIER	LAT- ITUDE	LONG- ITUDE	SEQ. NO.	GEO- LOGIC UNIT	TOTAL DEPTH OF WELL (FT)	DATE OF SAMPLE	TIME	ELEV. OF LAND SURFACE DATUM (FT. ABOVE MSL)	TOTAL DEPTH OF HOLE (FT. BELOW LSD)	DEPTH TO TOP OF WATER- BEARING ZONE (FT)
TEXACO EAGLE PT 4-PROD	39 52 13	075 09 36	01	211MGRR	289	74-06-30	1545	14	294	257
WESTVILLE BORO WD 4	39 52 21	075 07 37	01	211MGRR	319	74-06-30	0745	16	323	276
TEXACO EAGLE PT 3-OBS	39 52 32	075 09 42	01	211MGRR	275	74-06-30	1715	21	298	226

LOCAL IDENT- IFIER	DATE OF SAMPLE	DEPTH TO BOT- TOM OF WATER- BEARING ZONE (FT)	DEPTH TO TOP OF SAMPLE INTER- VAL (FT)	DEPTH TO BOT- TOM OF SAMPLE INTER- VAL (FT)	TEMPER- ATURE (DEG C)	SPE- CIFIC CON- DUCT- ANCE (MICRO- MHOS)	PH (UNITS)	TUR- BID- ITY (JTU)	COLOR (PLAT- INUM- COBALT UNITS)	DIS- SOLVED CAL- CIUM (CA) (MG/L)
TEXACO EAGLE PT 4-PROD	74-06-30	290	260	289	14.4	297	7.2	8	5	13
WESTVILLE BORO WD 4	74-06-30	318	286	313	14.2	219	7.3	3	1	14
TEXACO EAGLE PT 3-OBS	74-06-30	283	255	276	14.6	406	7.0	40	1	33

LOCAL IDENT- IFIER	DATE OF SAMPLE	DIS- SOLVED MAG- NE- SIUM (MG) (MG/L)	DIS- SOLVED SODIUM (NA) (MG/L)	DIS- SOLVED PO- TAS- SIUM (K) (MG/L)	HARD- NESS (CA, MG) (MG/L)	NON- CAR- BONATE HARD- NESS (MG/L)	CARBON DIOXIDE (CO2) (MG/L)	ALKA- LINITY AS CACO3 (MG/L)	BICAR- BONATE (HCO3) (MG/L)	CAR- BONATE (CO3) (MG/L)
TEXACO EAGLE PT 4-PROD	74-06-30	3.4	50	5.5	46	0	13	108	132	0
WESTVILLE BORO WD 4	74-06-30	3.4	26	6.4	49	0	7.7	79	96	0
TEXACO EAGLE PT 3-OBS	74-06-30	7.9	38	8.5	120	0	29	147	179	0

LOCAL IDENT- IFIER	DATE OF SAMPLE	DIS- SOLVED CHLO- RIDE (CL) (MG/L)	DIS- SOLVED SULFATE (SO4) (MG/L)	TOTAL FLUO- RIDE (F) (MG/L)	DIS- SOLVED SILICA (SIO2) (MG/L)	DIS- SOLVED SOLIDS (RESI- DUE AT 180 C) (MG/L)	DIS- SOLVED SOLIDS (SUM OF CONSTITU- ENTS) (MG/L)	DIS- SOLVED SOLIDS (TONS PER AC-FT)	TOTAL NITRATE (N) (MG/L)	TOTAL NITRITE (N) (MG/L)
TEXACO EAGLE PT 4-PROD	74-06-30	28	14	.3	12	231	191	.31	.00	.01
WESTVILLE BORO WD 4	74-06-30	7.6	14	.6	8.6	132	128	.18	.00	.01
TEXACO EAGLE PT 3-OBS	74-06-30	28	15	.2	12	239	233	.33	.00	.01

LOCAL IDENT- IFIER	DATE OF SAMPLE	TOTAL KJEL- DAHL NITRO- GEN (N) (MG/L)	AMMONIA NITRO- GEN (N) (MG/L)	TOTAL ORGANIC NITRO- GEN (N) (MG/L)	TOTAL NITRO- GEN (N) (MG/L)	TOTAL PHOS- PHORUS (P) (MG/L)	TOTAL ORTHO PHOS- PHORUS (P) (MG/L)	TOTAL ORGANIC CARBON (C) (MG/L)	DIS- SOLVED IRON (FE) (UG/L)	DIS- SOLVED MAN- GANESE (MN) (UG/L)
TEXACO EAGLE PT 4-PROD	74-06-30	.28	.32	.00	.29	.09	.02	10	140	60
WESTVILLE BORO WD 4	74-06-30	.23	.36	.00	.24	.18	.16	35	<610	40
TEXACO EAGLE PT 3-OBS	74-06-30	1.9	1.9	.00	1.9	.03	.02	10	2100	130

LOCAL IDENT- IFIER	DATE OF SAMPLE	DIS- SOLVED ARSENIC (AS) (UG/L)	DIS- SOLVED CAD- MIUM (CD) (UG/L)	DIS- SOLVED CHRO- MIUM (CR) (UG/L)	DIS- SOLVED COBALT (CO) (UG/L)	DIS- SOLVED COPPER (CU) (UG/L)	DIS- SOLVED LEAD (PB) (UG/L)	DIS- SOLVED NICKEL (NI) (UG/L)	DIS- SOLVED ZINC (ZN) (UG/L)	DIS- SOLVED MERCURY (HG) (UG/L)
TEXACO EAGLE PT 4-PROD	74-06-30	0	0	10	0	0	1	2	0	.5
WESTVILLE BORO WD 4	74-06-30	1	0	10	0	0	1	2	0	.5
TEXACO EAGLE PT 3-OBS	74-06-30	1	0	10	0	0	1	2	0	.0

## GROUND-WATER QUALITY RECORDS--Continued

## GLOUCESTER COUNTY--Continued

LOCAL IDENTIFIER	LATITUDE	LONGITUDE	SEQ. NO.	GEOLOGIC UNIT	TOTAL DEPTH OF WELL (FT)	DATE OF SAMPLE	TIME	ELEV. OF LAND SURFACE DATUM (FT. ABOVE MSL)	TOTAL DEPTH OF HOLE (FT. BELOW LSD)	DEPTH TO TOP OF WATER-BEARING ZONE (FT)
CLAYTON BORO WD 3	39 39 12	075 05 22	01	211MGRR	800	74-04-29	--	133	1010	740
CLAYTON BORO WD 4	39 40 13	075 05 58	01	211MGRR	800	74-08-28	1535	133	1010	740
GLASSBORO WD 5	39 41 41	075 07 10	01	211MGRR	740	74-08-28	1600	140	943	747
OWENS ILLINOIS 1	39 41 47	075 07 14	01	211MGRR	660	74-04-29	--	138	--	--
					647	74-04-29	1545	144	650	585
PITMAN BORO WD P1	39 44 05	075 07 45	01	211MGRR	647	74-08-28	1510	144	650	585
					514	74-04-29	1400	140	514	460
SO JERSEY WS CO 3	39 44 08	075 13 30	02	211MGRR	514	74-08-28	1350	140	514	460
PITMAN BORO WD P2	39 44 11	075 07 45	01	211MGRR	268	74-04-29	--	35	270	225
					515	74-04-29	--	130	526	462
PITMAN BORO WD P3	39 44 27	075 07 43	01	211MGRR	515	74-08-28	1340	130	526	462
					487	74-04-29	1445	99	490	400
SWEDSBORO BORO WD 3	39 44 34	075 18 43	01	211MGRR	487	74-08-28	1335	99	490	400
					315	74-04-30	--	70	344	234
					315	74-08-29	1440	70	344	234
SEWELL WC 1	39 46 02	075 08 23	01	211MGRR	377	74-08-28	1135	80	377	320
WOODBURY CTY WD-SEWEL 1	39 46 27	075 08 13	01	211MGRR	314	74-08-28	1030	20	317	247
SEWELL WC 2	39 46 29	075 08 59	01	211MGRR	368	74-08-28	1125	60	374	315
MANTUA WC 2	39 47 12	075 10 08	01	211MGRR	317	74-08-28	1145	65	--	--
MANTUA WC 3	39 47 32	075 10 36	01	211MGRR	268	74-04-30	--	10	335	--
WENONAH BORO WD 2	39 47 51	075 09 12	01	211MGRR	310	74-04-29	1300	30	314	260
PENNS GROVE WC-BRIDGPT 2	39 47 55	075 21 08	02	211MGRR	88	74-08-29	1520	20	127	60
EI DUPONT REPAUNO 3	39 49 36	075 17 47	01	211MGRR	101	74-08-30	1030	10	103	--
EI DUPONT REPAUNO 6	39 49 44	075 17 34	01	211MGRR	109	74-08-30	--	10	--	--
WOODBURY WD RAILROAD 5	39 49 50	075 09 09	01	211MGRR	457	74-04-29	--	35	--	--
MOBIL OIL-GREENWICH 40	39 50 12	075 15 20	01	211MGRR	457	74-08-28	1040	35	--	--
WOODBURY CITY WD-LOT 3	39 50 17	075 09 28	01	211MGRR	228	74-08-30	--	20	267	180
MOBIL OIL-GREENWICH 41	39 50 27	075 15 03	01	211MGRR	188	74-04-29	--	60	188	134
MOBIL OIL-GREENWICH 47	39 50 36	075 15 01	01	211MGRR	266	74-08-30	--	20	280	224
					245	74-08-30	--	20	247	217
WOODBURY CITY WD-TATUM 4	39 50 44	075 09 07	01	211MGRR	167	74-08-28	1050	20	171	148
NATIONAL PARK BORO WD 2	39 51 56	075 10 53	01	211MGRR	282	74-08-30	--	30	307	194
TEXACO EAGLE PT 4-PROD	39 52 13	075 09 36	01	211MGRR	289	74-06-30	1545	14	294	257
WESTVILLE BORO WD 4	39 52 21	075 07 37	01	211MGRR	319	74-06-30	0745	16	323	276
TEXACO EAGLE PT 3-OBS	39 52 32	075 09 42	01	211MGRR	275	74-06-30	1715	21	298	226

LOCAL IDENTIFIER	DATE OF SAMPLE	DEPTH TO BOTTOM OF WATER-BEARING ZONE (FT)	DEPTH TO TOP OF SAMPLE INTERVAL (FT)	DEPTH TO BOTTOM OF SAMPLE INTERVAL (FT)	TEMPERATURE (DEG C)	SPECIFIC CONDUCTANCE (MICRO-MHOS)	PH (UNITS)	DISSOLVED CHLORIDE (CL) (MG/L)
CLAYTON BORO WD 3	74-04-29	802	746	800	20.7	962	8.2	134
	74-08-28	802	746	800	22.0	960	--	117
CLAYTON BORO WD 4	74-08-28	778	670	740	20.0	814	--	91
GLASSBORO WD 5	74-04-29	--	600	657	16.7	630	8.3	44
OWENS ILLINOIS 1	74-04-29	647	607	647	19.1	703	8.3	61
PITMAN BORO WD P1	74-08-28	647	607	647	20.0	707	--	64
	74-04-29	--	468	514	16.9	498	6.0	37
	74-08-28	--	468	514	17.5	505	--	35
SO JERSEY WS CO 3	74-04-29	266	234	265	15.7	911	8.1	148
PITMAN BORO WD P2	74-04-29	515	475	515	16.8	488	6.7	32
PITMAN BORO WD P3	74-08-28	515	475	515	17.5	482	--	31
	74-04-29	--	447	487	16.6	486	7.9	46
	74-08-28	--	447	487	17.5	491	--	43
SWEDSBORO BORO WD 3	74-04-30	312	241	312	14.8	399	6.8	48
	74-08-29	312	241	312	14.0	397	7.0	48
SEWELL WC 1	74-08-28	377	352	377	16.5	404	--	24
WOODBURY CTY WD-SEWEL 1	74-08-28	315	271	312	16.0	406	--	30
SEWELL WC 2	74-08-28	372	336	368	18.5	401	--	26
MANTUA WC 2	74-08-28	--	295	317	16.0	412	--	30
MANTUA WC 3	74-04-30	--	230	265	14.8	428	8.0	39
WENONAH BORO WD 2	74-04-29	310	270	310	15.3	338	7.6	21
PENNS GROVE WC-BRIDGPT 2	74-08-29	84	65	85	14.0	196	6.9	15
EI DUPONT REPAUNO 3	74-08-30	103	91	101	14.5	517	4.9	115
EI DUPONT REPAUNO 6	74-08-30	--	84	109	16.0	594	5.0	150
WOODBURY WD RAILROAD 5	74-04-29	--	405	457	14.4	357	7.5	49
MOBIL OIL-GREENWICH 40	74-08-28	--	405	457	15.0	371	--	48
WOODBURY CITY WD-LOT 3	74-08-30	233	195	225	15.5	1190	4.5	220
MOBIL OIL-GREENWICH 41	74-04-29	--	148	188	14.7	277	7.7	10
MOBIL OIL-GREENWICH 47	74-08-30	271	230	259	17.5	757	5.6	110
	74-08-30	242	220	240	15.0	560	6.9	137
WOODBURY CITY WD-TATUM 4	74-08-28	171	131	167	14.0	290	--	9.2
NATIONAL PARK BORO WD 2	74-08-30	288	241	282	14.0	312	6.2	29
TEXACO EAGLE PT 4-PROD	74-06-30	290	260	289	14.4	297	7.2	28
WESTVILLE BORO WD 4	74-06-30	318	286	313	14.2	219	7.3	7.6
TEXACO EAGLE PT 3-OBS	74-06-30	283	255	276	14.6	406	7.0	28

## GROUND-WATER QUALITY RECORDS--Continued

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## MIDDLESEX COUNTY

LOCAL IDENT- I- FIER	LAT- I- TUDE	LONG- I- TUDE	SEQ. NO.	GEO- LOGIC UNIT	TOTAL DEPTH OF WELL (FT)	DATE OF SAMPLE	TIME	ELEV. OF LAND SURFACE DATUM (FT. ABOVE MSL)	TOTAL DEPTH OF HOLE (FT. BELOW LSD)	DEPTH TO TOP OF WATER- BEARING ZONE (FT)
JAMESBURG BOYS HOME 3	40 20 36	074 23 44	01	211FRNG	375	74-08-27	0740	110	--	--
JAMESBURG BOYS HOME 4	40 20 38	074 23 45	01	211MGRR	440	74-04-25	0810	90	525	375
PERTH AMBOY WW 3	40 25 35	074 20 14	01	211ODBG	68	74-08-27	0905	15	80	46
PERTH AMBOY WW 4	40 25 36	074 20 12	02	211MGRR	66	74-04-25	0930	15	69	33
				211MGRR	66	74-08-27	0845	15	69	33
PERTH AMBOY WW 1A	40 25 37	074 20 20	01	211FRNG	261	74-04-25	0940	20	278	194
SOUTH RIVER BORO WD 1	40 25 57	074 21 38	01	211FRNG	261	74-08-27	0855	20	278	194
				211FRNG	193	74-04-25	1445	20	--	--
SAYREVILLE BORO WD B	40 26 04	074 20 04	01	211FRNG	193	74-08-26	1320	20	--	--
				211ODBG	81	74-04-25	0905	27	--	--
SAYREVILLE BORO WD K	40 26 17	074 19 45	01	211ODBG	81	74-08-27	0810	27	--	--
SAYREVILLE BORO WD I	40 26 26	074 19 36	01	211MGRR	90	74-08-27	0820	48	--	--
				211MGRR	99	74-04-25	0910	58	109	65
THOMAS AND CHADWICK 1	40 26 47	074 22 27	01	211MGRR	99	74-08-27	0830	58	109	65
				211MGRR	195	74-04-25	0825	21	--	--
MADISON TWP MUA-L HRBR 1	40 27 00	074 14 59	01	211MGRR	195	74-08-26	1305	21	--	--
				211ODBG	218	74-04-25	1015	60	--	185
				211ODBG	218	74-08-27	0930	60	--	185
MADISON TWP MUA-L HRBR 2	40 27 00	074 14 59	02	211FRNG	400	74-08-27	0940	60	400	355
EI DUPONT-PARLIN 8A	40 27 03	074 18 59	02	211MGRR	116	74-04-25	1410	93	116	39
				211MGRR	116	74-08-27	1035	93	116	39
EI DUPONT-PARLIN 6	40 27 08	074 19 22	01	211FRNG	325	74-08-27	1055	102	370	246
EI DUPONT-PARLIN 5	40 27 12	074 19 21	01	211FRNG	309	74-08-27	1110	118	312	251
EI DUPONT-PARLIN 1-3A	40 27 15	074 19 24	01	211FRNG	286	74-08-27	1125	104	310	228
EI DUPONT-PARLIN 3-3C	40 27 15	074 19 32	01	211FRNG	284	74-08-27	1140	91	295	248
SOUTH AMBOY CITY WD 8	40 28 22	074 16 30	01	211FRNG	237	74-04-25	1040	10	241	198
SOUTH AMBOY CITY WD 9	40 28 24	074 16 31	01	211ODBG	48	74-08-26	1135	10	--	--
SOUTH AMBOY CITY WD 10	40 28 25	074 16 32	01	211ODBG	49	74-08-26	1115	10	49	31
NATIONAL LEAD CO 4	40 28 31	074 18 15	01	211FRNG	251	74-08-26	1025	109	--	--
NATIONAL LEAD CO 3	40 28 42	074 18 11	01	211FRNG	270	74-04-25	1125	120	--	--
				211FRNG	270	74-08-26	1055	120	--	--
JERSEY CENT P&L-WERNER 6	40 29 23	074 15 56	01	211FRNG	177	74-04-25	1105	10	--	--
				211FRNG	177	74-08-26	1045	10	--	--
DUHERNAL WC OBS 60-F	40 29 58	074 19 38	01	211FRNG	287	74-04-25	1430	149	--	267
				211FRNG	287	74-08-27	1155	149	--	267
ANACONDA COPPER CO 11	40 30 28	074 16 43	01	211FRNG	40	74-08-26	1020	20	--	--
ANACONDA COPPER CO 16A	40 30 29	074 16 41	01	211FRNG	58	74-04-25	1340	25	--	--
				211FRNG	58	74-08-26	1015	25	--	--
CARBORUNDUM CO 1	40 30 46	074 18 27	01	211FRNG	71	74-08-26	0930	15	76	36
CHEVRON OIL CO 2	40 32 00	074 16 20	01	211FRNG	106	74-08-26	0835	45	--	--
SWIFT AND CO 1	40 32 33	074 16 33	01	211FRNG	59	74-04-25	1305	30	59	--
				211FRNG	59	74-08-26	0805	30	59	--
AMER CYANIMID CO 2A	40 32 36	074 16 16	01	211FRNG	60	74-04-25	1325	9.0	--	--
				211FRNG	60	74-08-26	0820	9.0	--	--

## GROUND-WATER QUALITY RECORDS--Continued

## MIDDLESEX COUNTY--Continued

LOCAL IDENT- IFIER	DATE OF SAMPLE	DEPTH TO BOT- TOM OF WATER- BEARING ZONE (FT)	DEPTH TO TOP OF SAMPLE INTER- VAL (FT)	DEPTH TO BOT- TOM OF SAMPLE INTER- VAL (FT)	TEMPER- ATURE (DEG C)	SPE- CIFIC CON- DUCT- ANCE (MICRO- MHOS)	PH (UNITS)	DIS- SOLVED CHLO- RIDE (CL) (MG/L)
JAMESBURG BOYS HOME 3	74-08-27	--	--	--	13.4	42	5.6	2.6
JAMESBURG BOYS HOME 4	74-04-25	435	402	432	13.8	43	5.4	2.5
PERTH AMBOY WW 3	74-08-27	68	48	68	14.9	173	7.3	13
PERTH AMBOY WW 4	74-04-25	66	51	66	13.1	190	7.0	26
	74-08-27	66	51	66	12.8	181	7.4	21
PERTH AMBOY WW 1A	74-04-25	267	201	261	12.8	55	7.1	4.1
	74-08-27	267	201	261	12.5	54	7.4	4.7
SOUTH RIVER BORO WD 1	74-04-25	--	165	193	12.2	48	6.8	4.3
	74-08-26	--	165	193	12.7	46	6.5	4.5
SAYREVILLE BORO WD 8	74-04-25	--	71	81	12.4	135	5.4	13
	74-08-27	--	71	81	12.8	137	5.1	15
SAYREVILLE BORO WD K	74-08-27	--	73	83	11.9	187	4.9	24
SAYREVILLE BORO WD I	74-04-25	93	83	94	11.8	127	4.5	9.8
	74-08-27	93	83	94	11.5	131	4.7	9.4
THOMAS AND CHADWICK 1	74-04-25	--	167	195	16.0	40	5.6	4.1
	74-08-26	--	167	195	16.5	46	5.7	4.5
MADISON TWP MUA-L HRBR 1	74-04-25	--	193	213	12.6	60	4.1	5.0
	74-08-27	--	193	213	12.4	59	4.3	4.5
MADISON TWP MUA-L HRBR 2	74-08-27	397	360	395	13.4	41	6.1	2.4
EI DUPONT-PARLIN 8A	74-04-25	111	97	116	12.8	161	5.7	10
	74-08-27	111	97	116	12.6	173	5.6	14
EI DUPONT-PARLIN 6	74-08-27	318	253	314	11.9	41	5.9	4.2
EI DUPONT-PARLIN 5	74-08-27	308	257	305	12.0	43	6.1	2.0
EI DUPONT-PARLIN 1-3A	74-08-27	--	237	286	12.5	45	5.9	2.2
EI DUPONT-PARLIN 3-3C	74-08-27	291	246	284	12.8	61	6.0	7.8
SOUTH AMBOY CITY WD 8	74-04-25	233	210	234	12.8	55	6.3	3.1
SOUTH AMBOY CITY WD 9	74-08-26	--	33	48	12.0	97	4.4	9.0
SOUTH AMBOY CITY WD 10	74-08-26	--	39	49	12.6	165	4.3	13
NATIONAL LEAD CO 4	74-08-26	--	220	251	12.1	44	6.7	2.1
NATIONAL LEAD CO 3	74-04-25	--	240	270	12.5	52	6.6	3.0
	74-08-26	--	240	270	12.3	54	6.8	2.6
JERSEY CENT P&L-WERNER 6	74-04-25	--	154	177	13.9	516	6.6	115
	74-08-26	--	154	177	13.6	445	6.7	88
DUHERNAL WC OBS 60-F	74-04-25	--	282	287	15.3	610	--	138
	74-08-27	--	282	287	15.6	587	--	134
ANACONDA COPPER CO 11	74-08-26	--	29	40	13.7	860	6.9	72
ANACONDA COPPER CO 16A	74-04-25	--	43	58	13.9	963	6.9	95
	74-08-26	--	43	58	13.8	970	7.2	91
CARBORUNDUM CO 1	74-08-26	69	57	67	13.1	298	7.4	14
CHEVRON OIL CO 2	74-08-26	--	96	--	12.9	275	7.1	8.2
SWIFT AND CO 1	74-04-25	--	39	59	12.6	644	5.0	66
	74-08-26	--	39	59	12.7	621	4.6	63
AMER CYANIMID CO 2A	74-04-25	--	45	60	13.8	680	5.2	114
	74-08-26	--	45	60	14.0	745	5.1	108



## GROUND-WATER QUALITY RECORDS--Continued

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## MONMOUTH COUNTY

LOCAL IDENT- I- FIER	LAT- I- TUDE	LONG- I- TUDE	SEQ. NO.	GEO- LOGIC UNIT	TOTAL DEPTH OF WELL (FT)	DATE OF SAMPLE	TIME	ELEV. OF LAND SURFACE DATUM (FT. ABOVE MSL)	TOTAL DEPTH OF HOLE (FT. BELOW LSD)	DEPTH TO TOP OF WATER- BEARING ZONE (FT)
BRIELLE BORO WD 1	40 06 44	074 03 44	01	122KRKD	153	74-08-29	1250	33	154	129
BRIELLE BORO WD 2	40 06 45	074 03 45	01	211EGLS	755	74-04-30	0830	33	792	680
				211EGLS	755	74-08-29	1245	33	792	680
MANASQUAN BORO WD 6	40 07 10	074 03 29	02	122KRKD	180	74-04-29	--	10	--	--
				122KRKD	180	74-08-29	1135	10	--	--
MANASQUAN BORO WD 2R	40 07 12	074 03 28	02	122KRKD	118	74-04-29	1605	21	122	102
				122KRKD	118	74-08-29	1145	21	122	102
MANASQUAN BORO WD 5	40 07 14	074 03 29	01	122KRKD	117	74-04-29	1620	15	118	94
				122KRKD	117	74-08-29	1150	15	118	94
SEA GIRT BORO WD 6	40 08 01	074 02 31	01	122KRKD	130	74-08-29	1210	21	--	--
SPRING LAKE BORO WD 1	40 08 49	074 02 07	01	211EGLS	711	74-04-29	--	15	750	623
				211EGLS	711	74-08-29	1320	15	750	623
SPRING LAKE BORO WD 4	40 09 52	074 01 49	01	211EGLS	675	74-08-29	1330	10	675	--
BELMAR BORO WD 2-ELEC	40 10 38	074 01 46	02	211EGLS	581	74-08-29	1350	20	--	--
BELMAR BORO WD 13-73	40 10 39	074 01 47	01	211EGLS	605	74-04-29	--	19	--	--
				211EGLS	605	74-08-29	1345	19	--	--
AVON-BY-THE-SEA WD 4	40 11 37	074 01 21	02	211MGRD	1170	74-08-29	1415	29	1302	1077
AVON-BY-THE-SEA WD 1	40 11 38	074 01 25	01	211MLRW	508	74-08-29	1420	28	506	401
ALLENHURST BORO WD 4	40 14 01	074 00 25	01	211EGLS	565	74-08-29	1435	10	590	505
RED BANK BORO WD 1B-50	40 20 47	074 04 20	01	211MGRD	687	74-08-29	1515	40	702	632
RED BANK BORO WD 2	40 21 14	074 03 15	01	211EGLS	300	74-04-29	--	30	--	--
				211EGLS	300	74-08-29	1530	30	--	--
HIGHLANDS BORO WD 1	40 23 59	073 59 17	01	211MGRD	687	74-08-29	1600	25	--	--
HIGHLANDS WD-SPRING	40 23 59	073 59 47	01	125HRRS	6.0	74-04-29	--	--	--	--
				125HRRS	6.0	74-08-29	1602	--	--	--
				125HRRS	6.0	74-08-29	1605	--	--	--
HIGHLANDS BORO WD 2-NEW	40 24 00	073 59 12	01	211MGRD	660	74-04-29	--	11	671	610
ATL HIGHLANDS BORO WD 3	40 24 41	074 02 33	01	211MGRD	572	74-04-29	--	20	581	529
				211MGRD	572	74-08-29	1620	20	581	529
ATL HIGHLANDS BORO WD 2	40 24 41	074 02 34	01	211EGLS	200	74-08-29	1625	15	--	--
W KEANSBURG WC-HOLMDEL 4	40 24 44	074 10 15	01	211MGRD	690	74-04-29	--	65	690	629
				211MGRD	690	74-08-30	1025	65	690	629
KEANSBURG BORO WD 5	40 25 21	074 07 43	01	2110DBG	350	74-08-30	0940	10	352	249
W KEANSBURG WC-HAZLET 2	40 25 34	074 09 30	01	211MGRD	352	74-04-29	--	45	--	--
				211MGRD	352	74-08-30	0955	45	--	--
MATAWAN TWP WD-LAYNE 2	40 26 18	074 14 25	02	211MGRD	457	74-08-30	0800	70	491	425
KEYPORT BORO WD 5	40 26 24	074 11 45	01	2110DBG	261	74-08-30	0840	10	261	201
UNION BEACH BORO WD 1-62	40 26 32	074 10 51	01	2110DBG	290	74-08-30	0905	10	300	224
UNION BEACH BORO WD 2-69	40 26 34	074 10 51	01	211MGRD	294	74-08-30	0910	10	307	260
US ARMY-FT HANCOCK 2	40 27 00	073 59 58	01	211MGRD	724	74-04-29	--	11	754	715
US ARMY-FT HANCOCK 2	40 27 00	073 59 58	01	211MGRD	724	74-08-30	1125	11	754	715
US ARMY-FT HANCOCK 5	40 27 05	073 59 59	01	211MGRD	830	74-04-29	--	14	--	--
				211MGRD	830	74-08-30	1135	14	--	--
US ARMY-FT HANCOCK 4	40 27 06	073 59 52	01	211MGRD	486	74-04-29	--	15	--	--

## GROUND-WATER QUALITY RECORDS--Continued

## MONMOUTH COUNTY--Continued

LOCAL IDENT- IFIER	DATE OF SAMPLE	DEPTH TO BOT- TOM OF WATER- BEARING ZONE (FT)	DEPTH TO TOP OF SAMPLE INTER- VAL (FT)	DEPTH TO BOT- TOM OF SAMPLE INTER- VAL (FT)	TEMPER- ATURE (DEG C)	SPE- CIFIC CON- DUCT- ANCE (MICRO- MHOS)	PH (UNITS)	DIS- SOLVED CHLO- RIDE (CL) (MG/L)
BRIELLE BORO WD 1	74-08-29	150	130	150	13.0	54	6.4	8.8
BRIELLE BORO WD 2	74-04-30	751	690	750	19.8	187	8.3	2.1
	74-08-29	751	690	750	20.7	189	6.0	2.2
MANASQUAN BORO WD 6	74-04-29	--	--	180	12.5	60	4.8	9.7
	74-08-29	--	--	180	12.7	56	4.7	10
MANASQUAN BORO WD 2R	74-04-29	118	103	118	13.1	73	4.4	12
	74-08-29	118	103	118	14.1	77	4.7	13
MANASQUAN BORO WD 5	74-04-29	117	97	117	12.9	68	5.0	11
	74-08-29	117	97	117	13.2	67	4.9	11
SEA GIRT BORO WD 6	74-08-29	--	80	130	13.5	67	6.6	11
SPRING LAKE BORO WD 1	74-04-29	707	631	711	19.0	176	7.9	2.5
	74-08-29	707	631	711	19.2	179	6.2	3.1
SPRING LAKE BORO WD 4	74-08-29	--	600	670	18.9	177	6.3	2.6
BELMAR BORO WD 2-ELEC	74-08-29	--	581	581	18.8	214	6.4	2.9
BELMAR BORO WD 13-73	74-04-29	--	--	--	18.5	203	7.8	1.9
	74-08-29	--	--	--	19.1	199	6.5	2.6
AVON-BY-THE-SEA WD 4	74-08-29	1199	1105	1165	23.8	96	7.2	2.8
AVON-BY-THE-SEA WD 1	74-08-29	503	424	504	17.5	238	6.6	3.1
ALLENHURST BORO WD 4	74-08-29	567	525	565	20.3	206	6.9	3.0
RED BANK BORO WD 18-50	74-08-29	688	637	687	17.2	64	7.3	3.0
RED BANK BORO WD 2	74-04-29	--	225	300	14.2	243	7.3	1.9
	74-08-29	--	225	300	14.5	244	7.2	5.7
HIGHLANDS BORO WD 1	74-08-29	--	--	687	19.5	69	7.1	2.9
HIGHLANDS WD-SPRING	74-04-29	--	--	--	14.0	177	6.1	27
	74-08-29	--	--	--	16.8	185	6.7	27
	74-08-29	--	--	--	16.8	185	6.7	27
HIGHLANDS-BORO WD 2-NEW	74-04-29	632	600	660	19.4	69	6.3	3.9
ATL HIGHLANDS BORO WD 3	74-04-29	564	547	572	16.4	67	6.1	1.9
	74-08-29	564	547	572	17.9	65	6.9	3.7
ATL HIGHLANDS BORO WD 2	74-08-29	--	180	200	14.5	167	6.8	6.1
W KEANSBURG WC-HOLMDEL 4	74-04-29	--	635	690	15.5	67	6.3	3.9
	74-08-30	--	635	690	16.2	56	6.4	3.3
KEANSBURG BORO WD 5	74-08-30	300	290	350	14.4	45	6.6	3.1
W KEANSBURG WC-HAZLET 2	74-04-29	--	312	352	13.5	56	6.1	2.7
	74-08-30	--	312	352	14.4	42	6.5	2.6
MATAWAN TWP WD-LAYNE 2	74-08-30	457	422	457	13.9	49	7.0	3.6
KEYPORT BORO WD 5	74-08-30	259	204	261	14.8	72	6.9	11
UNION BEACH BORO WD 1-62	74-08-30	288	235	285	13.9	371	6.0	68
UNION BEACH BORO WD 2-69	74-08-30	290	262	289	13.4	119	6.5	22
US ARMY-FT HANCOCK 2	74-04-29	--	699	724	18.7	90	6.6	6.8
US ARMY-FT HANCOCK 2	74-08-30	--	699	724	18.7	91	6.1	5.6
US ARMY-FT HANCOCK 5	74-04-29	--	751	830	19.2	96	6.6	6.7
	74-08-30	--	751	830	19.8	93	6.2	7.3
US ARMY-FT HANCOCK 4	74-04-29	--	332	486	15.7	178	6.9	27

## OCEAN COUNTY

LOCAL IDENT- I- FIER	LAT- I- TUDE	LONG- I- TUDE	SEQ. NO.	GEO- LOGIC UNIT	TOTAL DEPTH OF WELL (FT)	DATE OF SAMPLE	TIME	ELEV. OF LAND SURFACE DATUM (FT. ABOVE MSL)	TOTAL DEPTH OF HOLE (FT. BELOW LSD)	DEPTH TO TOP OF WATER- BEARING ZONE (FT)
LONG BEACH TWP WD 2	39 32 06	074 15 48	01	122KRKD	458	74-08-27	1105	10	--	420
BEACH HAVEN BORO WD 8	39 33 46	074 14 30	01	122KRKD	656	74-08-27	1130	5.0	--	--
BEACH HAVEN BORO WD 7	39 33 46	074 14 34	01	122KRKD	668	74-05-01	1205	5.0	668	544
				122KRKD	668	74-08-27	1125	5.0	668	544
LONG BEACH WC-TERRACE 2	39 35 10	074 13 30	02	122KRKD	578	74-05-01	1055	5.0	592	517
TUCKERTON WW CO 4-64	39 36 10	074 20 31	01	122KRKD	497	74-04-30	1620	10	--	--
LONG BEACH WC-BRANT 2	39 37 24	074 11 51	01	122KRKD	580	74-05-01	1120	6.0	580	535
				122KRKD	580	74-08-27	1010	6.0	580	535
LONG BEACH WC-BRANT 1	39 37 25	074 11 50	01	122KRKD	615	74-08-27	1005	9.0	615	518
CHARLES JOHNSON	39 37 55	074 17 49	01	121CNSY	257	74-08-27	1210	6.0	--	--
SHIP BOTTOM BORO WD 4	39 38 39	074 10 52	01	122KRKD	590	74-05-01	1020	5.0	605	510
				122KRKD	590	74-08-27	0920	5.0	605	510
SURF CITY BORO WD 3	39 39 23	074 10 16	01	122KRKD	561	74-08-27	1405	5.0	562	505
SURF CITY BORO WD 4	39 39 38	074 10 06	01	122KRKD	560	74-05-01	0945	5.0	560	499
				122KRKD	560	74-08-27	1420	5.0	560	499
SURF CITY BORO WD 5	39 39 48	074 09 54	01	122KRKD	564	74-08-27	1430	10	607	531
EDWARD TONNESON	39 40 09	074 13 04	01	121CNSY	280	74-04-30	1525	5.0	--	--
				121CNSY	280	74-08-27	1230	5.0	--	--
STAFFORD WC 3	39 40 42	074 14 11	01	122KRKD	428	74-04-30	1540	8.0	436	386
				122KRKD	428	74-08-27	0850	8.0	436	386
HARVEY CEDARS BORO WD 4	39 41 34	074 08 32	01	122KRKD	503	74-08-27	1310	5.0	508	400
HARVEY CEDARS BORO WD 3	39 42 18	074 08 08	01	122KRKD	493	74-05-01	0905	5.0	706	450
				122KRKD	493	74-08-27	1300	5.0	706	450
UNION-UNKNOWN FLOWING	39 44 44	074 12 10	01	121CNSY	155	74-08-27	1515	10	--	--
BARNEGAT LIGHT BORO WD 3	39 45 22	074 06 36	01	122KRKD	657	74-08-27	1330	7.0	657	--
BARNEGAT LIGHT BORO WD 2	39 45 24	074 06 32	01	122KRKD	646	74-05-01	0820	7.0	675	570
SHORE WATER CO 1	39 54 22	074 04 58	11	122KRKD	203	74-08-28	1420	10	203	60
SEASIDE PARK BORO WD 3	39 54 52	074 04 55	1	122KRKD	507	74-08-28	1340	4.0	513	452
SEASIDE PARK BORO WD 2	39 54 52	074 04 59	01	122KRKD	525	74-08-28	1345	6.0	525	470
BEACHWOOD BORO WD 4	39 55 27	074 12 21	01	121CNSY	99	74-08-28	0830	60	--	--
OCEAN GATE BORO WD 2	39 55 28	074 08 20	01	122KRKD	365	74-08-28	0920	7.0	371	296
SEASIDE PARK BORO WD 4	39 55 47	074 04 34	01	122KRKD	485	74-04-30	1305	12	510	450
				122KRKD	485	74-08-28	1400	12	510	450
TOMS RIVER WC 17	39 56 07	074 12 40	02	121CNSY	59	74-08-28	1230	20	59	20
SEASIDE HTS BORO WD 2	39 56 36	074 04 39	02	122KRKD	439	74-04-30	1120	4.0	300	365
				122KRKD	439	74-08-28	1440	4.0	500	365
SEASIDE HTS BORO WD 1R	39 56 36	074 04 39	03	122KRKD	175	74-04-30	1155	5.0	175	138
				122KRKD	175	74-08-28	1435	5.0	175	138
ISLAND HTS BORO WD 8	39 56 39	074 08 54	01	122KRKD	292	74-08-28	1005	17	--	--
ISLAND HTS BORO WD 7	39 56 41	074 08 53	01	122KRKD	298	74-08-28	1015	3.0	--	--
SEASIDE HTS BORO WD 3	39 56 43	074 04 43	01	122KRKD	156	74-08-28	1450	4.0	206	141
TOMS RIVER WC 21	39 57 15	074 12 31	01	121CNSY	56	74-08-28	1245	7.0	--	--
TOMS RIVER WC 19	39 57 19	074 12 27	01	121CNSY	60	74-08-28	1045	8.0	--	--
TOMS RIVER WC 16	39 57 19	074 12 33	01	122KRKD	226	74-04-30	1325	8.0	--	--
				122KRKD	226	74-08-28	1040	8.0	--	--
TOMS RIVER WC 14	39 57 20	074 12 30	01	121CNSY	51	74-08-28	1240	10	64	9.0
TOMS RIVER WC 18	39 57 21	074 12 29	01	121CNSY	59	74-04-30	1335	9.0	103	35
				121CNSY	59	74-08-28	1050	9.0	103	35
LAVALLETT BORO WD 3	39 57 41	074 04 37	01	211EGLS	1180	74-08-28	1530	7.0	1219	1110
TOMS RIVER WC 15	39 58 03	074 10 24	01	122KRKD	230	74-08-28	1220	25	235	184
LAVALLETT BORO WD 4	39 58 08	074 04 16	01	211MGRR	1515	74-04-30	1100	5.0	1642	1337
				211MGRR	1515	74-08-28	1525	5.0	1642	1337
LAVALLETT BORO WD 2	39 58 08	074 04 21	01	211EGLS	1136	74-08-28	1515	5.0	1136	1120
OCEAN CO WC-MONTEREY 1	39 59 05	074 03 59	01	211MGRR	1496	74-08-29	0920	10	1511	1306
TOMS R WC-DUGANS 26	39 59 26	074 12 37	01	121CNSY	134	74-08-28	1135	80	138	78
TOMS R WC-DUGANS 27	39 59 26	074 12 37	02	122KRKD	291	74-08-28	1130	80	293	248
TOMS RIVER WC 20	39 59 33	074 13 12	01	121CNSY	86	74-04-30	1350	8.0	--	--
				121CNSY	86	74-08-28	1100	8.0	--	--
TOMS R WC-DUGANS 24	39 59 41	074 12 09	01	121CNSY	125	74-08-28	1120	75	126	99
TOMS R WC-DUGANS 25	39 59 41	074 12 09	02	122KRKD	283	74-08-28	1124	75	303	247
TOMS R WC-DUGANS 22	39 59 45	074 12 22	01	121CNSY	126	74-08-28	1115	80	127	55
TOMS R WC-DUGANS 23	39 59 45	074 12 22	02	122KRKD	275	74-08-28	1118	80	300	255
OCEAN CO WC-NORMANDY 3	39 59 56	074 03 44	02	211MGRR	1479	74-08-29	0930	8.0	1509	1416
TOMS RIVER WC-ANCHORAGE	40 00 06	074 08 37	01	122KRKD	233	74-04-30	1405	5.0	--	--
				122KRKD	233	74-08-28	1150	5.0	--	--
TOMS R WC-SILVERTON 1-56	40 00 17	074 07 32	01	122KRKD	237	74-04-30	1420	6.0	237	219
				122KRKD	237	74-08-28	1200	6.0	237	219
OCEAN CO WC-MANTOLKING 7	40 02 10	074 03 10	02	211MGRR	1369	74-08-29	0915	10	1456	1219
OCEAN CO WC	40 04 05	074 02 44	01	211EGLS	818	74-08-29	0855	10	825	775
PT PLEASANT BORO WD 7	40 04 09	074 04 06	01	211MGRR	1261	74-04-30	1020	15	1260	--
PT PLEASANT BORO WD 6	40 04 54	074 04 13	01	211EGLS	790	74-08-29	1120	20	984	739
PT PLEASANT BORO WD 5	40 04 54	074 04 14	01	211MGRR	1342	74-04-30	0950	18	1414	--
				211MGRR	1342	74-08-29	1115	18	1414	--
PT PLEASANT BORO WD 4	40 05 01	074 04 55	01	122KRKD	75	74-04-30	1005	13	178	28
				122KRKD	75	74-08-29	1100	13	178	28
PT PLEAS BORO WD 11	40 05 12	074 02 51	01	122KRKD	143	74-04-30	0905	10	168	129
				122KRKD	143	74-08-29	1020	10	168	129
PT PLEAS BORO WD 9	40 05 36	074 02 52	01	122KRKD	134	74-04-30	0915	11	168	95
				122KRKD	134	74-08-29	1025	11	168	95

## OCEAN COUNTY--Continued

LOCAL IDENTIFIER	DATE OF SAMPLE	DEPTH TO BOT-TOM OF WATER-BEARING ZONE (FT)	DEPTH TO TOP OF SAMPLE INTER-VAL (FT)	DEPTH TO BOT-TOM OF SAMPLE INTER-VAL (FT)	TEMPER-ATURE (DEG C)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	PH (UNITS)	DIS-SOLVED CHLO-RIDE (CL) (MG/L)
LONG BEACH TWP WD 2	74-08-27	456	425	458	16.5	142	7.9	2.4
BEACH HAVEN BORO WD 8	74-08-27	--	572	656	17.5	65	7.3	6.0
BEACH HAVEN BORO WD 7	74-05-01	668	572	668	16.7	67	5.9	4.3
LONG BEACH WC-TERRACE 2	74-08-27	668	572	668	17.3	62	7.5	5.2
	74-05-01	578	524	578	17.1	67	5.6	4.5
TUCKERTON WM CO 4-64	74-04-30	--	--	--	15.0	61	6.1	4.4
LONG BEACH WC-BRANT 2	74-05-01	--	530	580	16.4	64	5.8	4.4
	74-08-27	--	530	580	17.5	53	7.2	4.9
LONG BEACH WC-BRANT 1	74-08-27	615	535	615	16.5	52	7.8	4.2
CHARLES JOHNSON	74-08-27	--	--	257	14.0	66	7.2	4.2
SHIP BOTTOM BORO WD 4	74-05-01	597	536	578	16.5	73	5.7	4.7
	74-08-27	597	536	578	16.4	55	7.6	4.8
SURF CITY BORO WD 3	74-08-27	--	516	557	16.0	56	7.5	4.7
SURF CITY BORO WD 4	74-05-01	550	517	557	16.1	45	5.9	6.0
	74-08-27	550	517	557	16.1	57	7.2	4.2
SURF CITY BORO WD 5	74-08-27	558	521	562	16.0	60	7.2	4.1
EDWARD TONNESON	74-04-30	--	--	--	13.0	165	4.4	42
	74-08-27	--	--	--	13.0	168	6.5	42
STAFFORD WC 3	74-04-30	428	384	427	14.1	51	5.8	4.4
	74-08-27	428	384	427	14.0	47	7.1	5.4
HARVEY CEDARS BORO WD 4	74-08-27	--	465	500	17.0	68	7.8	4.2
HARVEY CEDARS BORO WD 3	74-05-01	480	451	493	16.4	88	6.2	7.2
	74-08-27	480	451	493	16.5	81	6.1	6.2
UNION-UNKNOWN FLOWING	74-08-27	--	--	--	12.8	52	4.2	6.8
BARNEGAT LIGHT BORO WD 3	74-08-27	--	597	654	19.6	356	7.3	4.2
BARNEGAT LIGHT BORO WD 2	74-05-01	660	593	646	17.5	358	8.5	2.8
SHORE WATER CO 1	74-08-28	--	177	200	14.2	56	7.2	6.6
SEASIDE PARK BORO WU 3	74-08-28	505	459	503	15.4	213	6.5	2.0
SEASIDE PARK BORO WD 2	74-08-28	516	--	525	17.0	253	7.6	1.9
BEACHWOOD BORO WD 4	74-08-28	--	65	97	13.0	60	7.6	10
OCEAN GATE BORO WD 2	74-08-28	371	340	360	13.9	168	7.0	4.6
SEASIDE PARK BORO WD 4	74-04-30	--	450	485	15.9	452	8.6	68
	74-08-28	--	450	485	16.2	253	7.7	2.0
TOMS RIVER WC 17	74-08-28	--	45	55	13.0	43	4.8	1.0
SEASIDE HTS BORO WD 2	74-04-30	430	370	430	15.6	223	8.6	3.1
	74-08-28	430	370	430	15.6	228	7.9	2.8
SEASIDE HTS BORO WD 1R	74-04-30	--	144	175	14.0	120	6.1	13
	74-08-28	--	144	175	14.1	133	7.2	17
ISLAND HTS BORO WD 8	74-08-28	--	115	292	13.5	94	7.0	5.6
ISLAND HTS BORO WD 7	74-08-28	--	266	298	12.9	90	7.1	5.4
SEASIDE HTS BORO WD 3	74-08-28	191	146	156	14.3	130	7.8	20
TOMS RIVER WC 21	74-08-28	--	45	56	13.4	94	4.9	14
TOMS RIVER WC 19	74-08-28	--	50	60	13.1	90	5.1	12
TOMS RIVER WC 16	74-04-30	--	196	226	13.2	105	6.6	4.2
	74-08-28	--	196	226	13.1	104	4.8	4.0
TOMS RIVER WC 14	74-08-28	59	40	50	15.4	82	5.0	10
TOMS RIVER WC 18	74-04-30	80	47	57	13.1	106	4.7	20
	74-08-28	80	47	57	14.0	100	4.9	18
LAVALLLETTE BORO WD 3	74-08-28	1187	1120	1180	22.2	344	7.6	3.2
TOMS RIVER WC 15	74-08-28	228	195	225	12.5	51	5.1	5.7
LAVALLLETTE BORO WD 4	74-04-30	1580	1358	1515	24.0	185	7.5	1.8
	74-08-28	1580	1358	1515	24.0	184	7.8	2.4
LAVALLLETTE BORO WD 2	74-08-28	--	1121	1136	19.4	376	7.7	3.2
OCEAN CO WC-MONTEREY 1	74-08-29	1495	1372	1493	24.1	172	8.4	2.5
TOMS R WC-DUGANS 26	74-08-28	137	113	134	12.8	178	4.5	34
TOMS R WC-DUGANS 27	74-08-28	284	250	291	13.7	59	5.2	5.3
TOMS RIVER WC 20	74-04-30	--	66	86	12.8	72	4.5	11
	74-08-28	--	66	86	13.9	77	4.8	11
TOMS R WC-DUGANS 24	74-08-28	125	105	125	12.7	127	4.3	16
TOMS R WC-DUGANS 25	74-08-28	271	243	283	13.4	63	5.2	5.2
TOMS R WC-DUGANS 22	74-08-28	126	106	126	13.2	157	4.4	25
TOMS R WC-DUGANS 23	74-08-28	282	254	275	13.4	67	5.0	5.0
OCEAN CO WC-NORMANDY 3	74-08-29	1486	1428	1479	24.2	168	8.3	2.7
TOMS RIVER WC-ANCHORAGE	74-04-30	--	203	233	14.3	69	6.2	2.8
	74-08-28	--	203	233	13.9	71	5.2	5.5
TOMS R WC-SILVERTON 1-56	74-04-30	236	209	236	13.7	92	6.5	4.1
	74-08-28	236	209	236	14.3	88	5.0	5.3
OCEAN CO WC-MANTOLKING 7	74-08-29	1361	1263	1369	24.7	160	8.6	2.6
OCEAN CO WC BAYHEAD 6	74-08-29	--	778	818	20.7	209	8.3	2.0
PT PLEASANT BORO WD 7	74-04-30	819	--	1219	24.8	150	7.4	2.0
	74-08-29	--	1183	1219	24.9	145	7.9	2.6
PT PLEASANT BORO WD 6	74-08-29	799	730	790	20.5	195	7.9	1.9
PT PLEASANT BORO WD 5	74-04-30	1361	1256	1342	24.9	142	6.9	1.3
	74-08-29	1361	1256	1342	24.8	137	8.0	2.5
PT PLEASANT BORO WD 4	74-04-30	75	45	75	13.5	143	4.9	17
	74-08-29	75	45	75	13.2	180	7.9	20
PT PLEAS BCH BORO WD 11	74-04-30	141	130	143	13.6	97	6.4	12
	74-08-29	141	130	143	13.9	93	8.5	12
PT PLEAS BCH BORO WD 9	74-04-30	--	96	134	13.8	297	6.8	71
	74-08-29	--	96	134	13.9	330	8.2	80

## SALEM COUNTY

LOCAL IDENT- I- FIER	LAT- ITUDE	LONG- ITUDE	SEQ. NO.	GEO- LOGIC UNIT	TOTAL DEPTH OF WELL (FT)	DATE OF SAMPLE	TIME	ELEV. OF LAND SURFACE DATUM (FT. ABOVE MSL)	TOTAL DEPTH OF HOLE (FT. BELOW LSD)	DEPTH TO TOP OF WATER- BEARING ZONE (FT)
SALEM CO HOSPITAL 1	39 35 38	075 26 40	01	211MLRW	97	74-04-30	--	23	--	70
				211MLRW	97	74-08-29	0920	23	--	70
US ARMY-FINNS POINT	39 36 41	075 33 22	01	211MGRR	319	74-04-30	--	7.0	--	302
				211MGRR	319	74-08-29	1115	7.0	--	302
WOODSTOWN BORO WD 2	39 39 04	075 19 46	02	211MGRR	705	74-04-30	--	45	705	674
				211MGRR	705	74-08-29	--	45	705	674
RICHMAN ICE CREAM 1	39 39 28	075 21 47	01	211MGRR	475	74-04-30	--	25	465	400
				211MGRR	475	74-08-29	1040	25	465	400
PENNSVILLE TWP WD 1	39 39 58	075 30 45	01	211MGRR	248	74-04-30	--	8.0	248	212
				211MGRR	248	74-08-29	1230	8.0	248	212
PENNSVILLE TWP WD 2	39 40 09	075 30 43	01	211MGRR	232	74-04-30	--	7.0	242	197
				211MGRR	232	74-08-29	--	7.0	242	197
ATL CITY EL-DEEPWATER 5	39 40 50	075 30 30	01	211MGRR	224	74-08-29	1310	15	300	147
ATL CITY EL-DEEPWATER 6	39 41 00	075 30 30	01	211MGRR	188	74-04-30	--	15	220	147
PENNS GROVE WC-LAYNE 1	39 42 56	075 27 18	01	211MGRR	357	74-08-30	--	19	366	279

LOCAL IDENT- I- FIER	DATE OF SAMPLE	DEPTH TO BOT- TOM OF WATER- BEARING ZONE (FT)	DEPTH TO TOP OF SAMPLE INTER- VAL (FT)	DEPTH TO BOT- TOM OF SAMPLE INTER- VAL (FT)	TEMPER- ATURE (DEG C)	SPE- CIFIC CON- DUCT- ANCE (MICRO- MHOS)	PH (UNITS)	DIS- SOLVED CHLO- RIDE (CL) (MG/L)
SALEM CO HOSPITAL 1	74-04-30	--	73	97	13.0	293	7.9	22
	74-08-29	--	73	97	13.0	304	5.7	26
US ARMY-FINNS POINT	74-04-30	--	282	319	14.9	857	7.8	212
	74-08-29	--	282	319	18.0	911	7.0	211
WOODSTOWN BORO WD 2	74-04-30	--	670	705	17.4	894	7.8	169
	74-08-29	--	670	705	18.0	960	6.8	163
RICHMAN ICE CREAM 1	74-04-30	--	418	446	15.0	420	7.7	30
	74-08-29	--	418	446	17.0	540	7.6	69
PENNSVILLE TWP WD 1	74-04-30	238	213	238	14.2	418	7.9	66
	74-08-29	238	213	238	14.0	433	7.1	70
PENNSVILLE TWP WD 2	74-04-30	232	210	230	14.6	491	6.9	94
	74-08-29	232	210	230	17.0	484	6.8	95
ATL CITY EL-DEEPWATER 5	74-08-29	249	149	219	16.0	348	7.6	49
ATL CITY EL-DEEPWATER 6	74-04-30	199	158	188	14.9	632	6.6	138
PENNS GROVE WC-LAYNE 1	74-08-30	--	317	357	18.0	888	6.2	186

THE FOLLOWING LIST SHOWS THE AQUIFER CODES AND GEOLOGIC NAMES OF THE FORMATIONS IN WHICH THE WELLS ARE FINISHED. THE AQUIFER CODES ALSO APPEAR IN THE COLUMN "GEOLOGIC UNIT" IN THE PRECEDING TABLE:

112CPMY, CAPE MAY FORMATION UNDIFFERENTIATED  
 112ERN5, CAPE MAY FORMATION, ESTURINE SAND FACIES  
 112PLCC, PLEISTOCENE-COHANSEY SAND UNDIFFERENTIATED  
 121CNSY, COHANSEY SAND  
 121CKKD, COHANSEY SAND-KIRKWOOD FORMATION  
 122KRKDU, KIRKWOOD FORMATION, UPPER SAND  
 122KRKD, KIRKWOOD FORMATION  
 122KRKDL, KIRKWOOD FORMATION, LOWER SAND  
 124PNPN, PINEY POINT FORMATION  
 125HRRS, HORNERSTOWN SAND  
 211MLRW, MOUNT LAUREL SAND-WENONAH FORMATION  
 211EGLS, ENGLISHTOWN FORMATION  
 211MGRR, MAGOTHY-RARITAN FORMATIONS  
 211ODBG, RARITAN FORMATION, OLD BRIDGE SAND MEMBER  
 211FRNG, RARITAN FORMATION, FARRINGTON SAND MEMBER  
 217PTMC, POTOMAC GROUP

## EXPLANATION OF GROUND WATER COLUMN HEADINGS

## TOTAL DEPTH OF WELL(FT):

MAXIMUM DEPTH BELOW LAND SURFACE DATUM 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(FT. BELOW LSD):

TOTAL DEPTH TO WHICH THE HOLE WAS DRILLED, REGARDLESS OF THE FINISHED DEPTH OF THE WELL.

## DEPTH TO THE TOP OF WATER BEARING ZONE(FT):

THE DEPTH LISTED IS 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(FT):

THE DEPTH LISTED IS THE BEST AVAILABLE INFORMATION WHICH INDICATES THE BOTTOM OF THE WATER-BEARING ZONE THAT IS FURNISHING WATER TO THE WELL. IF THE WELL DOES NOT FULLY PENETRATE THE WATER-BEARING ZONE THIS PARAMETER IS LEFT BLANK.

## DEPTH TO THE TOP OF SAMPLE INTERVAL(FT):

IN A FULLY CASSED WELL THIS VALUE IS THE UPPERMOST POINT 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 BOTTOM OF SAMPLE INTERVAL(FT):

IN A FULLY CASSED WELL THIS VALUE IS THE LOWERMOST POINT AT WHICH WATER CAN ENTER THE WELL.



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