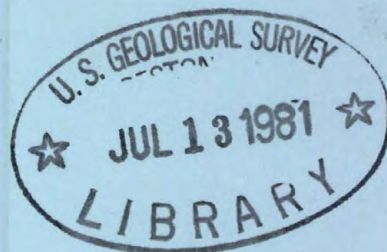


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Water Resources Data for Maine



U.S. GEOLOGICAL SURVEY WATER-DATA REPORT ME-80-1

WATER YEAR 1980

Prepared in cooperation with the State of Maine
and with other agencies

CALENDAR FOR WATER YEAR 1980

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Water Resources Data for Maine

U.S. GEOLOGICAL SURVEY WATER-DATA REPORT ME-80-1

WATER YEAR 1980

Prepared in cooperation with the State of Maine
and with other agencies

UNITED STATES DEPARTMENT OF THE INTERIOR

CECIL D. ANDRUS, Secretary

GEOLOGICAL SURVEY

H. William Menard, Director

For additional information write to
Subdistrict Chief, Water Resources Division
U.S. Geological Survey
26 Ganneston Drive
Augusta, ME 04330

PREFACE

This report was prepared by personnel of the Maine Subdistrict, New England District of the Water Resources Division of the U. S. Geological Survey in cooperation with the State of Maine, and with other agencies. Subdistrict personnel directly responsible for the collection, evaluation, and compilation of the data contained herein are: C. R. Haskell, R. A. Fontaine, W. B. Higgins, G. R. Keezer, R. G. Lippert, G. W. Parker, J. A. Smath, and B. T. White.

This report is one of a series issued by State.

REPORT DOCUMENTATION PAGE	1. REPORT NO. USGS/WRD/HD-81/042	2.	3. Recipient's Accession No.
4. Title and Subtitle Water Resources Data for Maine, Water Year 1980		5. Report Date June 1981	
7. Author(s)		6.	
9. Performing Organization Name and Address U.S. Geological Survey, Water Resources Division 26 Ganneston Drive Augusta, ME 04330		8. Performing Organization Rept. No. USGS-WDR-ME-80-1	
12. Sponsoring Organization Name and Address U.S. Geological Survey, Water Resources Division 26 Ganneston Drive Augusta, ME 04330		10. Project/Task/Work Unit No.	
		11. Contract(C) or Grant(G) No. (C) (G)	
		13. Type of Report & Period Covered Annual - Oct. 1, 1979 to Sept. 30, 1980	
15. Supplementary Notes Prepared in cooperation with the State of Maine and with other agencies.		14.	
16. Abstract (Limit: 200 words) Water resources data for the 1980 water year for Maine consist of records of stage, discharge, and water quality of streams; stage and contents of lakes and reservoirs; and water levels and water quality of wells. This report contains discharge records for 61 gaging stations; stage only for 2 gaging stations; contents for 17 lakes and reservoirs; water quality for 14 gaging stations and 12 wells; and water levels for 23 observation wells. Additional water data were collected at various sites, not part of the systematic data collection program, and are published as miscellaneous measurements. These data represent that part of the National Water Data System operated by the U.S. Geological Survey and cooperating State and Federal agencies.			
17. Document Analysis a. Descriptors *Maine, *Hydrologic data, *Surface water, *Ground water, *Water quality, Flow rate, Gaging stations, Lakes, Reservoirs, Chemical analyses, Sediments, Water temperatures, Sampling sites, Water levels, Water analyses.			
b. Identifiers/Open-Ended Terms			
c. COSATI Field/Group			
18. Availability Statement No restriction on distribution. This report may be purchased from: National Technical Information Service, Springfield, VA 22161		19. Security Class (This Report) UNCLASSIFIED	21. No. of Pages 228
		20. Security Class (This Page) UNCLASSIFIED	22. Price

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GAGING STATIONS, IN DOWNSTREAM ORDER, FOR WHICH
RECORDS ARE PUBLISHED

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

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WATER RESOURCES DATA FOR MAINE, 1980

INTRODUCTION

Water resources data for the 1980 water year for Maine consist of records of stage, discharge, and water quality of streams; stage and contents of lakes and reservoirs; and water levels and water quality of ground water. This report contains discharge records for 61 gaging stations; stage only records for 2 gaging stations; contents for 17 lakes and reservoirs; water quality for 14 gaging stations and 12 wells; and water levels for 23 observation wells. Additional water data were collected at various sites, not part of the systematic data-collection program, and are published as miscellaneous measurements. Locations of gaging stations and observation wells are shown in figure 1. 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 Maine.

Records of discharge or stage of streams, and contents or stage of lakes and reservoirs were first published in a series of U.S. Geological Survey water-supply papers entitled "Surface water supply of the United States." Through September 30, 1960, these water-supply papers were in an annual series. Then in a 5-year series for 1961-65 and 1966-70. Records of chemical quality, water temperatures, and suspended sediment were published from 1941 to 1970 in an annual series of water-supply papers entitled "Quality of surface waters of the United States." Records of ground-water levels were published from 1935 to 1974 in a series of water-supply papers entitled "Ground-water levels in the United States." Water-supply papers may be consulted in libraries of the principal cities in the United States or may be purchased from Branch of Distribution, U.S. Geological Survey, 1200 South Eads Street, Arlington, VA 22202.

For water years 1961 through 1974, streamflow data were released by the Geological Survey in annual reports on a State-boundary basis. Water-quality records beginning with the 1968 water year, and ground-water data since the 1971 water year have been similarly released either in separate reports or in conjunction with streamflow records. Beginning with the 1975 water year, water data for streamflow, water quality, and ground water are published as an official Survey report on a State-boundary basis. These official Survey reports carry an identification number consisting of the two-letter State abbreviation, the last two digits of the water year, and the volume number. For example, this report is identified as "U.S. Geological Survey Water-Data Report ME-80-1." Water-data reports are sold by the National Technical Information Service, U.S. Department of Commerce, 5285 Port Royal Road, Springfield, VA 22161.

Additional information, including current prices, for ordering specific reports may be obtained from the subdistrict chief at the address given on the back of the title page of this book, or by telephone (207) 623-4797.

COOPERATION

The U.S. Geological Survey and organizations of the State of Maine have had cooperative agreements for the systematic collection of streamflow records since 1909, and for water-quality and ground-water records since 1957. Organizations that assisted in collecting data through cooperative agreement with the Survey are:

Maine Department of Conservation, Geological Survey, R. E. Barringer, Commissioner.

Maine Department of Environmental Protection, H. E. Warren, Commissioner.

Maine Public Utilities Commission, R. E. Gelder, Chairman.

Maine Department of Transportation, R. L. Mallar, Commissioner, succeeded by G. N. Campbell, Jr.

Androscoggin Valley Regional Planning Commission, J. J. Jaworski, Executive Director.

Cobbossee Watershed District, T. U. Gordon, Executive Director.

Town of Wilton, C. W. Hall, Chairman, Board of Selectmen.

Assistance in the form of funds or services was given by the U.S. Department of State in collecting records published herein for 4 gaging stations and 1 water-quality station; and Corps of Engineers, U.S. Army, for 4 water-quality stations and 1 gaging station.

The following organizations contributed funds and services through the requirements of the Federal Energy Regulatory Commission:

Boise Cascade

Central Maine Power Company

Great Northern Paper Company

Kennebec Water Power Company

Union Water Power Company

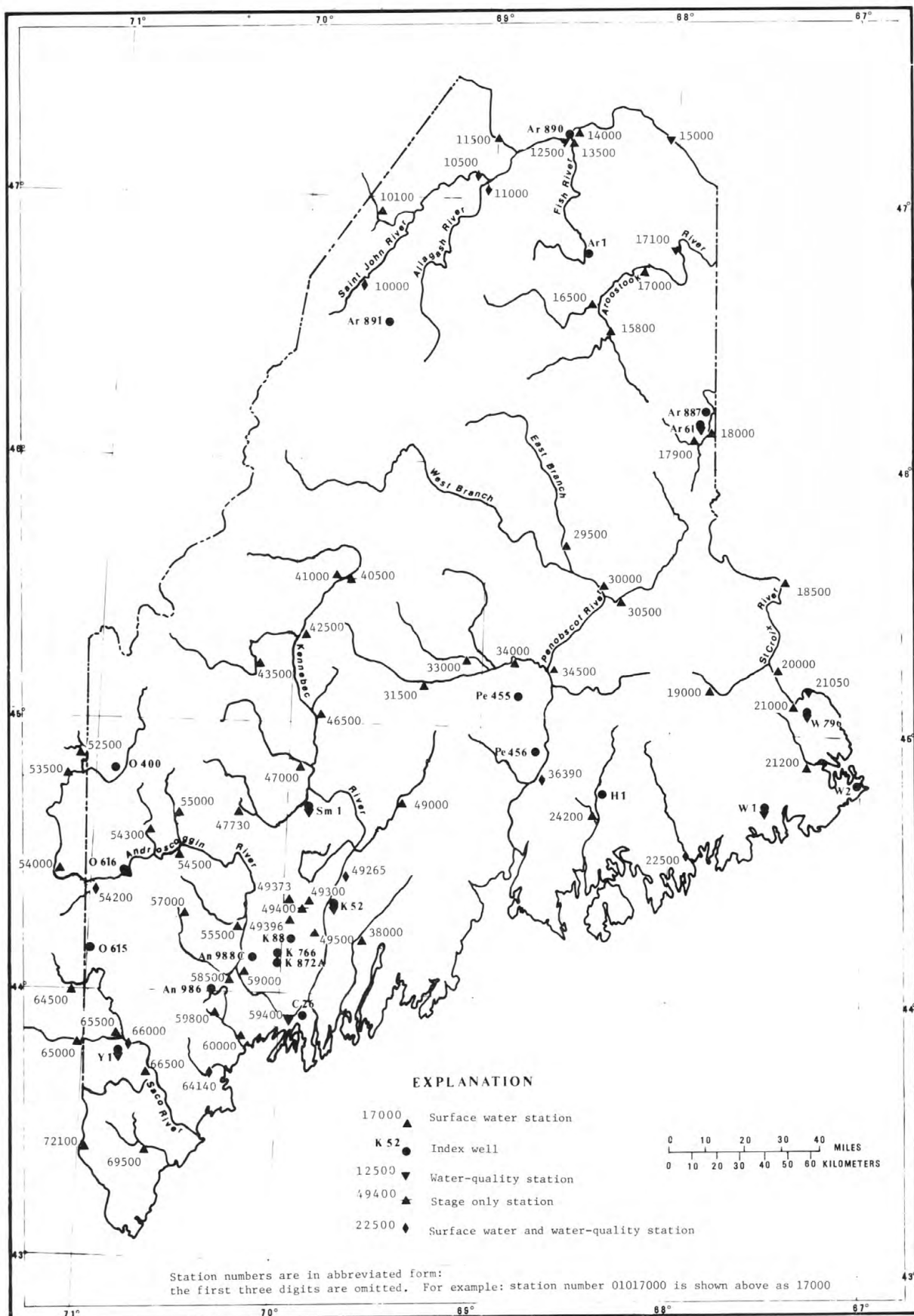


FIGURE 1. LOCATION OF STATIONS

The following organizations aided in collecting records:

Bangor Hydro-Electric Company

Georgia-Pacific Corporation

Maine Public Service Company

Organizations that supplied data are acknowledged in station descriptions or in footnotes to tables.

On waters adjacent to the international boundary, certain gaging stations are maintained by the United States (or Canada) under agreement with Canada (or the United States) and records are obtained and compiled in a manner equally acceptable to both countries. These stations are designated herein as "International gaging stations."

HYDROLOGIC CONDITIONS

Runoff for the water year 1980 was in the deficient range (in the lower quartile of record) over the entire State. Runoff at the four index gaging stations (St. John River below Fish River at Fort Kent, Piscataquis River near Dover-Foxcroft, Little Androscoggin River near South Paris, and Saco River at West Buxton) only ranged from 66 percent to 78 percent of normal at the individual sites.

Mean monthly runoff was in the excessive range (in the upper quartile of record) at three of the four index gaging stations for October, but was in the normal range at all four for November and December.

January runoff was in the normal range at two index stations and in the deficient range at the other two.

February runoff was deficient at all index gaging stations. The lowest February runoff for period of record occurred at the Piscataquis River near Dover-Foxcroft (August 1902-80).

March runoff was in the normal range at all index stations and April runoff was in the normal range at three of the four stations.

May runoff was deficient except at the Dover-Foxcroft station where it was in the normal range, and June was deficient at all index stations.

July through September runoff was in the normal range at the Fort Kent and South Paris stations, and in the deficient range at the West Buxton site. While July runoff was also in the normal range at the Dover-Foxcroft station, August and September runoff was in the excessive range at that site.

Ground-water levels were in the normal range in most of the State at the beginning of the water year. Exceptions were in the extreme northern and southwestern areas where they were in the above-normal range and in a small section in the western mountainous area where they were in the below-normal range. By the end of November water levels had risen to the above-normal range in all but the western section where they were normal or below.

Water levels were normal in all but the western mountainous area during December and January but in February and March were below-normal statewide. Recharge from snowmelt and rain brought normal conditions in April except in the northwest, but levels were again below normal in May and June statewide. Normal ground-water levels prevailed in all but the northern and northwestern section during July and water levels were normal in most of the State during August and September.

Water in usable storage was exactly normal at the start of the water year, rose slightly to a high of 107 percent at the end of November, dropped to a low of 76 percent in January, February and March, recovered slightly in April, but remained below normal through the end of the water year.

Figure 2, for which records of long-term index gaging stations were used, shows a comparison of the monthly and yearly mean discharges for the 1979 water year with median discharges for the 1941-70 period.

DEFINITION OF TERMS

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

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

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 or springs.

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

WATER RESOURCES DATA FOR MAINE, 1980

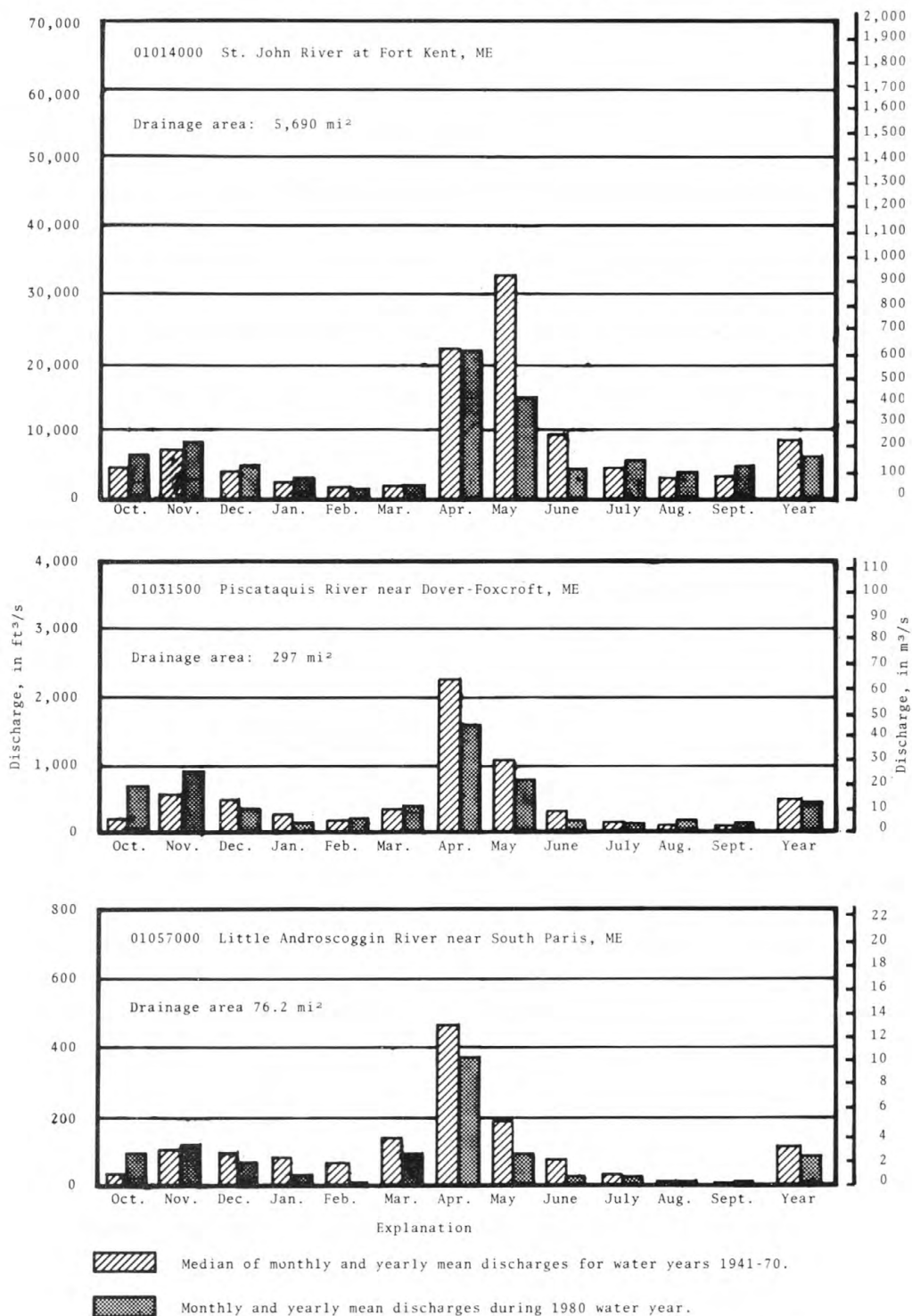


Figure 2.--Comparison of runoff at three long-term index gaging stations during 1980 water year with median runoff for period 1941-70.

Bacteria are microscopic unicellular organisms, 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 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. These bacteria are defined as 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). Concentrations are expressed as number of colonies per 100 mL (milliliters) of sample.

Fecal coliform bacteria are bacteria that are present in the intestines or feces of warmblooded animals. They are often used as indicators of the sanitary quality of water. These bacteria 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). Concentrations are expressed as number of colonies per 100 mL of sample.

Fecal streptococcal bacteria are bacteria found in the intestines 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. These bacteria are defined as all organisms which produce red or pink colonies within 48 hours at 35°C $\pm$ 1.0°C on KF Streptococcus agar (nutrient medium for bacterial growth). Concentrations are expressed as number of colonies per 100 mL of sample.

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

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

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

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

Biomass pigment ratio is the ratio of organic mass in mg/m² (milligrams per square meter) to the mass of chlorophyll a, mg/m².

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

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

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

Bottom material: See Bed material.

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

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

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

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

Chemical oxygen demand (COD) is a measure of the chemically oxidizable material in water, and gives an approximation of the amount of organic and reducing material present.

Chlorophyll refers to the green pigments of plants. Chlorophyll a and b are the most commonly reported green pigments in plants.

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

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

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

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

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

Cubic foot per second (FT³/S, ft³/s) is the rate of discharge representing a volume of 1 cubic foot passing a given point during 1 second and is equivalent to 7.48 gallons per second or 448.8 gallons per minute or 0.2832 cubic meters per second.

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

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

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

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

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

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

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

Drainage area of a stream at a specific location is that area, measured in a horizontal plane, enclosed by a topographic divide from which direct surface runoff from precipitation normally drains by gravity into the 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 a body of impounded surface water together with all tributary surface streams and bodies of impounded surface water.

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

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

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

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

Land-surface datum (1sd) is a datum plane that is approximately at land surface at each ground-water observation well.

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

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 kilogram (UG/KG, ug/kg) is a unit expressing the concentration of a chemical constituent as the mass (micrograms) of the constituent per unit mass (kilogram) of sediment.

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

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

National Geodetic Vertical Datum of 1929 (NGVD) is a geodetic datum derived from a general adjustment of the first order level nets of both the United States and Canada. It was formerly called "Sea Level Datum of 1929" or "mean sea level" in this series of reports. Although the datum was derived from the average sea level over a period of many years at 26 tide stations along the Atlantic, Gulf of Mexico, and Pacific Coasts, it does not necessarily represent local mean sea level at any particular place.

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

Organism count/area refers to the number of organisms enumerated in a sample and adjusted to the number per unit area of habitat, usually square meters (m²). Periphyton, benthic organisms, and macrophytes are expressed in these terms.

Organisms count/volume refers to the number of organisms enumerated in a sample and adjusted to the number per unit volume, usually in cells per milliliter (mL) or liter (L). Numbers of planktonic organisms are expressed in these terms.

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

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

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

Classification	Size (mm)	Method of analysis
Clay.....	0.00024 - 0.004	Sedimentation.
Silt.....	.004 - .062	Sedimentation.
Sand.....	.062 - 2	Sedimentation or sieve.
Gravel.....	2.0 - 64.0	Sieve.

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

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

Periphyton refers to the assemblage of organisms attached to and growing upon submerged surfaces. While primarily consisting of algae, the assemblage may include bacteria, fungi, protozoa, rotifer, and other small organisms.

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

pH is a symbol denoting the negative logarithm (base 10) of the hydrogen ion concentration of a solution; pH values range from 0 to 14--the lower the value, the more acid is the solution; i.e., the more hydrogen ions it contains.

Phytoplankton are the plant part of the plankton communities which exist in standing waters. They are the primary source of food in their aquatic environments, and are commonly known as algae.

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

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

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

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

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

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

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

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

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

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

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

Sodium-adsorption ratio (SAR) is the expression of relative activity of sodium ions in exchange reactions with soil and is an index of sodium or alkali hazard to the soil. Waters range in respect to sodium hazard from those which can be used for irrigation on almost all soils to those which are generally unsatisfactory for irrigation.

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

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

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

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

Substrate is the physical surface upon which an organism lived.

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

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

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

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

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

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

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

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

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

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

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

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

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

Total (as used in tables of chemical analysis):

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

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

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

WDR is used as an abbreviation for "Water-Data Report" in the REVISED RECORDS paragraph to refer to previously published District annual basic-data reports.

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

DOWNSTREAM ORDER AND STATION NUMBER

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

As an added means of identification, each hydrologic station and partial-record station has been assigned a station number. These are in the same downstream order used in this report. In assigning station numbers, no distinction has been made between partial-record stations and other stations; therefore, the station number for a partial-record station indicates downstream-order position in a list made up of both types of stations. Gaps are left in the series of numbers to allow for new stations that may be established; hence, the numbers are not consecutive. The complete 8-digit number for each station such as 01022500, which appears just to the left of the station name, includes the 2-digit part number "01" plus the 6-digit downstream order number "022500".

NUMBERING SYSTEM FOR WELLS AND MISCELLANEOUS SITES

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

The well and miscellaneous site numbering system of the U.S. Geological Survey is based on the grid system or latitude and longitude. The system provides the geographic location of the well or miscellaneous site and a unique number for each site. The number consists of 15 digits. The first 6 digits denote the degrees, minutes, and seconds of latitude, the next 7 digits denote degrees, minutes, and seconds of longitude, and the last 2 digits (assigned sequentially) identify the wells or other sites within a 1-second grid. See figure 3 below.

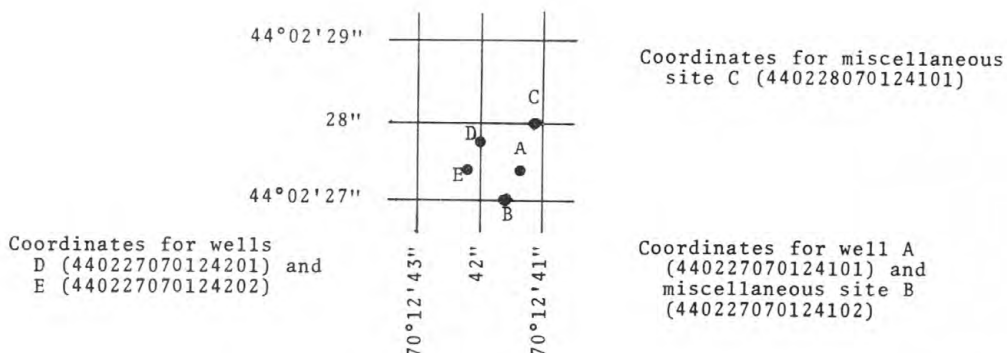


Figure 3.--System for numbering wells and miscellaneous sites (latitude and longitude)

SPECIAL NETWORKS AND PROGRAMS

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

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

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

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

EXPLANATION OF STAGE AND WATER-DISCHARGE RECORDS

Collection and computation of data

The base data collected at gaging stations consist of records of stage and measurements of discharge of streams or canals, and stage, surface area, and contents of lakes or reservoirs. In addition, observations of factors affecting the stage-discharge relation or the stage-capacity relation, weather records, and other information are used to supplement base data in determining the daily flow or volume of water in storage. Records of stage are obtained from either direct readings on a nonrecording gage or from a water-stage recorder that gives either a continuous graph of the fluctuations or a tape punched at selected time intervals. Measurements of discharge are made with a current meter, using the general methods adopted by the Geological Survey. These methods are described in standard textbooks, in Water-Supply Paper 888, and in U.S. Geological Survey Techniques of Water Resources Investigations, book 3, chapter A6.

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

At some stream-gaging stations the stage-discharge relation is affected by the backwater from reservoirs, tributary streams, or other sources. This necessitates the use of the slope method in which the slope or fall in a reach of the stream is a factor in computing discharge. The slope or fall is obtained by means of an auxiliary gage set at some distance from the base gage. At some stations the stage-discharge relation is affected by changing stage; at these stations the rate of change in stage is used as a factor in computing discharge.

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

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

If the stage-capacity curve is subject to changes because of deposition of sediment in the reservoir, periodic resurveys of the reservoir are necessary to define new stage-capacity curves. During the period between reservoir surveys the computed contents may be increasingly in error due to the gradual accumulation of sediment.

For some gaging stations there are periods when no gage-height record is obtained or the recorded gage height is so faulty that it cannot be used to compute daily discharge or contents. This happens when the recorder stops or otherwise fails to operate properly, intakes are plugged, the float is frozen in the well, or for various other reasons. For such periods the daily discharges are estimated on the basis of recorded range in stage, prior and subsequent records, discharge measurements, weather records, and comparison with records for other stations in the same or nearby basins.

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

The description of the gaging station gives the location, drainage area, period of record, notations of revisions of previously published records, type and history of gages, general remarks, average discharge, and extremes of discharge or contents. The location of the gaging station and the drainage area are obtained from most accurate maps available. River mileage, given under "LOCATION" for some stations, is that determined and used by the Corps of Engineers or other agencies. Periods for which there are published records for the present station or for stations generally equivalent to the present one are given under "PERIOD OF RECORD."

Previously published streamflow records of some stations have been found to be in error on the basis of data or information later obtained. Revisions of such records are usually published along with the current records in one of the annual or compilation reports. In order to make it easier to find such revised records, a paragraph headed "REVISED RECORDS" has been added to the description of all stations for which revised records have been published. Listed therein are all the reports in which revisions have been published, each followed by the water years for which figures are revised in that report. In listing the water years only one number is given; for instance, 1965 stands for the water year October 1, 1964, to September 30, 1965. If no daily, monthly, or annual figures of discharge are affected by the revision, the fact is brought out by notations after the year dates as follows: "(M)" means that only the instantaneous maximum discharge was revised; "(m)" that only the instantaneous minimum was revised; and "(P)" that only peak discharges were revised. If the drainage area has been revised, the report in which the revised figure was first published is given. It should be noted that for all stations for which cubic feet per second per square mile and runoff in inches are published, a revision of the drainage area necessitates corresponding revision of all figures based on the drainage area. Revised figures of cubic feet per second per square mile and runoff in inches resulting from a revision of the drainage area only are usually not published in the annual series of reports.

The type of gage currently in use; the datum of the present gage referred to National Vertical Datum, and a condensed history of the types, locations, and datums of previous gages used during the period of record are given under "GAGE." National Geodetic Vertical Datum is explained in "DEFINITION OF TERMS" on page 6.

Information pertaining to the accuracy of the discharge records and to conditions that affect the natural flow at the gaging station, and to supplemental water-quality data collected during the year is given under "REMARKS." For reservoir stations information on the dam forming the reservoir, the capacity, outlet works and spillway, and purpose and use of the reservoir is given under "REMARKS."

The average discharge for the number of years indicated is given under "AVERAGE DISCHARGE;" it is not given for stations having fewer than 5 complete years of record nor for stations where changes in water development during the period of record cause the figure to have little significance.

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

The daily table for stream-gaging stations gives the mean discharge for each day and is followed by monthly and yearly summaries. In the monthly summary below the daily table, the line headed "TOTAL" gives the sum of the daily figures. The line headed "MEAN" gives the average flow in cubic feet per second during the month. The lines headed "MAX" and "MIN" give the maximum and minimum daily discharges, respectively, for the month. Discharge for the month also may be expressed in cubic feet per second per square mile (line headed "CFSM"), and in inches (line headed "IN"). Figures for cubic feet per second per square mile and runoff in inches are omitted if there is extensive regulation or diversion or if the drainage area includes large noncontributing areas. In the yearly summary below the monthly summary, the figures shown are the appropriate discharges for the calendar and water years. At some stations, monthly and (or) yearly observed discharges are adjusted for reservoir storage or diversion, or diversions or reservoir contents are given. These figures are identified by a symbol and corresponding footnote.

Attention is called to periods for which the discharge is computed or estimated by special methods because of no gage-height records, backwater from various sources, or other unusual conditions. Periods of no gage-height record are indicated if the period is continuous for a month or more or includes the maximum discharge for the year. Periods of backwater from an unusual source, or indefinite stage-discharge relation, or of any unusual condition at the gage site are indicated only if they are a month or more in length and the accuracy of the records is affected. Days on which the stage-discharge relation is affected by ice are not indicated. Methods used in computing discharge for various unusual conditions have been explained in preceding paragraphs.

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

Tabulations of miscellaneous data follow the information for continuous record stations and are in two tables; the first is a tabulation of measurements made at miscellaneous sites and the second a tabulation of water temperature and specific conductance data obtained at the time discharge measurements were made at continuous record stations.

Accuracy of field data and computed results

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

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

Figures of daily mean discharge in this report are shown to the nearest hundredth of a cubic foot per second for discharges of less than 1 ft³/s; to tenths between 1.0 and 10 ft³/s; to whole numbers between 10 and 1,000 ft³/s; and to 3 significant figures above 1,000 ft³/s. The number of significant figures used is based solely on the magnitude of the figure. The same rounding rules apply to discharge figures listed for partial-record stations.

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

Other data available

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

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

EXPLANATION OF WATER-QUALITY RECORDS

Collection and examination of data

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

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

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

Water analysis

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

One sample can define adequately the water quality at a given time if the mixture of solutes throughout the stream cross section is homogeneous. However, 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.

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

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

Water temperature

Water temperatures are measured at most of the water-quality stations. In addition, water temperatures are taken at time of discharge measurements for water-discharge stations. 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 recording instruments are used, either mean temperatures or maximum and minimum temperatures for each day are published.

Sediment

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

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

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

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

EXPLANATION OF GROUND-WATER LEVEL RECORDS

Collection of the data

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

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

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

Water-level measurements are reported to the nearest hundredth of a foot with reference to land-surface datum (lsd), which is a datum plane that is approximately at land surface at each well. If known, the altitude of the land-surface datum above National Geodetic Vertical Datum of 1929 is given in the well description. The height of the measuring point (MP) above or below land-surface datum is given in each well description. Water levels in wells equipped with recording gages are reported for every fifth day and the end of each month (eom); and water levels in wells not equipped with recording gages are reported for the end of each month.

PUBLICATIONS ON TECHNIQUES OF WATER-RESOURCES INVESTIGATIONS

Thirty-five manuals by the U.S. Geological Survey have been published to date in the series on techniques describing procedures for planning and executing specialized work in water-resources investigations. Material is grouped under major subject headings called books and further divided into sections and chapters. For example, Section A of Book 3 (Applications of Hydraulics) is on surface water. The chapter, the unit of publication, is limited to a narrow field of subject matter. This format permits flexibility in revision and publication as the need arises. Reports listed below are for sale by U.S. Geological Survey, Branch of Distribution, 1200 South Eads Street, Arlington, VA 22202 (authorized agent of the Superintendent of Documents, Government Printing Office). Prices, effective July 1979, are subject to change. When ordering these publications, please give the series (U.S. Geological Survey Techniques of Water-Resources Investigations), title, book number, and chapter number.

- 1-D1 Water temperature-influential factors, field measurement, and data presentation, by H. H. Stevens, Jr., J. F. Ficke, and G. F. Smoot: USGS--TWRI Book 1, Chapter D1. 1975. 65 pages. \$1.60.
- 1-D2 Guidelines for collection and field analysis of ground-water samples for selected unstable constituents by W.W. Wood: USGS--TWRI Book 1, Chapter D2 1976 24 pages. \$0.85
- 2-D1 Application of surface geophysics to ground-water investigations, by A. A. R. Zohdy, G. P. Eaton, and D. R. Mabey: USGS--TWRI Book 2, Chapter D1. 1974. 116 pages. \$1.90.
- 2-E1 Application of borehole geophysics to water-resources investigations, by W. S. Keys and L. M. MacCary: USGS--TWRI Book 2, Chapter E1. 1971. 126 pages. \$1.75.
- 3-A1 General field and office procedures for indirect discharge measurements, by M. A. Benson and Tate Dalrymple: USGS--TWRI Book 3, Chapter A1. 1967. 30 pages \$1.00.
- 3-A2 Measurement of peak discharge by the slope-area method, by Tate Dalrymple and M. A. Benson: USGS--TWRI Book 3, Chapter A2. 1967. 12 pages. \$0.35.
- 3-A3 Measurement of peak discharge at culverts by indirect methods, by G. L. Bodhaine: USGS--TWRI Book 3, Chapter A3. 1968. 60 pages. \$0.40.
- 3-A4 Measurement of peak discharge at width contractions by indirect methods, by H. F. Matthai: USGS--TWRI Book 3, Chapter A4. 1967. 44 pages. \$1.00.
- 3-A5 Measurement of peak discharge at dams by indirect methods, by Harry Hulsing: USGS--TWRI Book 3 Chapter A5. 1967. 29 pages. \$0.35.
- 3-A6 General procedure for gaging streams, by R. W. Carter and Jacob Davidian: USGS--TWRI Book 3, Chapter A6. 1968. 13 pages. \$1.00.
- 3-A7 Stage measurements at gaging stations, by T. J. Buchanan and W. P. Somers: USGS--TWRI Book 3, Chapter A7. 1968. 28 pages. \$1.40.
- 3-A8 Discharge measurements at gaging stations, by T. J. Buchanan and W. P. Somers: USGS--TWRI Book 3, Chapter A8. 1969. 65 pages. \$1.25.
- 3-A11 Measurement of discharge by moving-boat method, by G. F. Smoot and C. E. Novak: USGS--TWRI Book 3, Chapter A11. 1969. 22 pages. \$1.20.
- 3-A12 Fluorometric procedures for dye tracing, by J. F. Wilson, Jr.: USGS--TWRI Book 3, Chapter A12. 1968. 31 pages. \$0.35. Not currently available.
- 3-B1 Aquifer-test design, observation, and data analysis, by R. W. Stallman: USGS--TWRI Book 3, Chapter B1. 1971. 26 pages. \$0.70.
- 3-B2 Introduction to ground-water hydraulics, a programed text for self-instruction, by G. D. Bennett: USGS--TWRI Book 3, Chapter B2. 1976. 172 pages. \$2.50.
- 3-C1 Fluvial sediment concepts, by H. P. Guy: USGS--TWRI Book 3, Chapter C1. 1970. 55 pages. \$2.50.
- 3-C2 Field methods for measurement of fluvial sediment, by H. P. Guy and V. W. Norman: USGS--TWRI Book 3, Chapter C2. 1970. 59 pages. \$2.50.
- 3-C3 Computation of fluvial-sediment discharge, by George Porterfield: USGS--TWRI Book 3, Chapter C3 1972. 66 pages. \$2.10.
- 4-A1 Some statistical tools in hydrology, by H. C. Riggs: USGS--TWRI Book 4, Chapter A1. 1968. 39 pages. \$1.60.
- 4-A2 Frequency curves, by H.C. Riggs: USGS--TWRI Book 4, Chapter A2. 1968. 15 pages. \$1.20.
- 4-B1 Low-flow investigations, by H. C. Riggs: USGS--TWRI Book 4, Chapter B1. 1972. 18 pages. \$0.65.
- 4-B2 Storage analyses for water supply, by H. C. Riggs and C. H. Hardison: USGS--TWRI Book 4, Chapter B2. 1973. 20 pages. \$0.75.
- 4-B3 Regional analyses of streamflow characteristics, by H. C. Riggs: USGS--TWRI Book 4, Chapter B3 1973. 15 pages. \$0.65.
- 4-D1 Computation of rate and volume of stream depletion by wells, by C. T. Jenkins: USGS--TWRI Book 4, Chapter D1. 1970. 17 pages. \$1.10.
- 5-A1 Methods for determination of inorganic substances in water and fluvial sediments, by M. W. Skougstad, M. J. Fishman, L. C. Friedman, D. E. Erdmann, and S. S. Duncan, editors: USGS--TWRI Book 5, Chapter A1. 1979. 626 pages. \$10.00.
- 5-A2 Determination of minor elements in water by emission spectroscopy, by P. R. Barnett and E. C. Mallory, Jr.: USGS--TWRI Book 5, Chapter A2. 1971. 31 pages. \$0.80.
- 5-A3 Methods for analysis of organic substances in water, by D. F. Goerlitz and Eugene Brown: USGS--TWRI Book 5, Chapter A3. 1972. 40 pages. \$0.90.
- 5-A4 Methods for collection and analysis of aquatic biological and microbiological samples, edited by P. E. Greeson, T.A. Ehlke, G.A. Irwin, B.W. Lium, and K.V. Slack: USGS--TWRI Book 5, Chapter A4. 1977. 332 pages. \$9.25.
- 5-A5 Methods for determination of radioactive substances in water and fluvial sediments, by L. L. Thatcher, V. J. Janzer, and K. W. Edwards: USGS--TWRI Book 5, Chapter A5. 1977. 95 pages. \$5.75.
- 5-C1 Laboratory theory and methods for sediment analysis, by H.P. Guy: USGS--TWRI Book 5, Chapter C1 1969. 58 pages. \$2.10.
- 7-C1 Finite difference model for aquifer simulation in two dimensions with results of numerical experiments, by P. C. Trescott, G. F. Pinder, and S. P. Larson: USGS--TWRI Book 7, Chapter C1. 1976. 116 pages. \$2.30.
- 7-C2 Computer model of two-dimensional solute transport and dispersion in ground water by L. F. Konikow and J.D. Bredehoeft: USGS--TWRI Book 7, Chapter C2. 1978. 90 pages. \$2.75
- 8-A1 Methods of measuring water levels in deep wells, by M. S. Garber and F. C. Koopman: USGS--TWRI Book 8, Chapter A1. 1968. 23 pages. \$1.30.
- 8-B2 Calibration and maintenance of vertical-axis type current meters, by G. F. Smoot and C. E. Novak: USGS--TWRI Book 8, Chapter B2. 1968. 15 pages. \$1.10.

HYDROLOGIC-DATA STATION RECORDS

NORTH ATLANTIC SLOPE BASINS

17

ST. JOHN RIVER BASIN

01010000 ST. JOHN RIVER AT NINEMILE BRIDGE, ME

LOCATION.--Lat 46°42'00", long 69°42'59", Aroostook County, Hydrologic Unit 01010001, on right bank in T. 12, R. 15, 0.1 mi (0.2 km) downstream from Ninemile Brook, 0.4 mi (0.6 km) downstream from site of Ninemile Bridge, and 11 mi (18 km) northwest of Clayton Lake Post Office.

DRAINAGE AREA.--1,290 mi² (3,340 km²), approximately.

WATER DISCHARGE RECORDS

PERIOD OF RECORD.--October 1950 to current year. October 1950 monthly discharge only, published in WSP 1721.

GAGE.--Water-stage recorder. Datum of gage is 931.26 ft (283.848 m) National Geodetic Vertical Datum of 1929.

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

AVERAGE DISCHARGE.--30 years, 2,297 ft³/s (65.1 m³/s), 24.18 in/yr (614 mm/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 44,400 ft³/s (1,260 m³/s) May 1, 1974, gage height, 12.63 ft (3.850 m); minimum, 59 ft³/s (1.67 m³/s) Sept. 5, 1953; minimum gage height, 0.25 ft (0.076 m) Sept. 5, 1953, Sept. 11, 12, 1960.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 15,800 ft³/s (447 m³/s) Apr. 16, gage height 7.30 ft (2.225 m); maximum gage height, 7.44 ft (2.268 m) Apr. 11 (backwater from ice); minimum discharge not determined, occurred during period of ice effect; minimum daily 120 ft³/s (3.40 m³/s) Mar. 1-5.

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	567	1980	2550	850	285	120	700	6690	813	699	996	341
2	569	1860	2100	780	275	120	800	6180	790	615	797	1630
3	639	1900	1800	725	265	120	960	5380	793	557	655	2870
4	636	2640	1650	660	255	120	1300	4560	803	548	644	2230
5	591	3100	1500	620	245	120	1850	3850	919	567	737	1620
6	602	2750	1450	590	235	125	1860	3260	1080	792	662	1150
7	764	2340	1400	550	230	125	1800	2920	962	2300	647	838
8	1370	2050	1320	525	220	130	1750	3170	834	2210	895	638
9	3420	1840	1240	510	210	130	1800	3440	1150	1690	736	505
10	3520	1820	1140	500	205	130	1950	3380	1740	1290	788	420
11	2820	3370	1050	500	195	135	2500	3100	1640	980	802	379
12	2280	3430	970	520	190	140	4500	2770	1320	1050	678	398
13	1980	2850	890	545	180	140	6600	2560	1030	1490	655	799
14	2000	2390	840	600	175	145	10400	2570	805	2820	1080	931
15	2060	2100	1000	740	170	150	14400	2910	657	2440	1330	1360
16	1880	1650	980	920	165	155	15200	2820	596	2070	1820	2070
17	1670	1300	930	880	160	160	11600	2480	603	2590	2100	1780
18	1480	1050	880	810	155	170	8740	2160	580	2960	1750	1420
19	1330	850	810	720	150	185	6220	2610	517	2810	1290	1640
20	1230	700	770	650	145	205	5190	4170	453	2330	954	1550
21	1470	680	735	590	140	230	5430	3630	459	2260	746	1850
22	1530	815	705	530	140	260	5020	2870	784	1820	602	3140
23	1420	920	680	485	135	295	4370	2350	1180	1620	498	3730
24	1300	1200	650	450	130	340	4250	2020	970	2620	417	3490
25	1830	1600	640	420	130	380	4880	1750	775	3670	359	2650
26	2990	2000	645	395	125	430	5490	1520	710	2710	321	2100
27	2790	2900	740	365	125	480	6720	1340	698	1960	287	2460
28	2340	4000	1280	345	125	530	8660	1220	998	1510	279	2690
29	2640	3550	1200	330	125	560	8120	1120	1200	1300	267	2430
30	1970	3050	1100	315	---	590	6950	1010	904	1170	273	2030
31	1940	---	950	300	---	650	---	885	---	1080	298	---
TOTAL	52958	62685	34605	17720	5285	7570	160010	90695	26763	54998	24363	51139
MEAN	1708	2090	1116	572	182	244	5334	2926	892	1774	786	1705
MAX	3520	4000	2550	920	285	650	15200	6690	1740	3670	2100	3730
MIN	567	680	640	300	125	120	700	885	453	548	267	341
CFSM	1.32	1.62	.87	.44	.14	.14	4.14	2.27	.69	1.38	.61	1.32
IN.	1.53	1.81	1.00	.51	.15	.22	4.61	2.62	.77	1.59	.70	1.47

CAL YR 1979 TOTAL 1080697 MEAN 2961 MAX 34200 MIN 195 CFSM 2.30 IN 31.16
WTR YR 1980 TOTAL 588791 MEAN 1609 MAX 15200 MIN 120 CFSM 1.25 IN 16.98

01010000 ST. JOHN RIVER AT NINEMILE BRIDGE, ME--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 1976 to July 1980 (discontinued).

PERIOD OF DAILY RECORD.--

SPECIFIC CONDUCTANCE: October 1975 to July 1980.

WATER TEMPERATURES: October 1975 to July 1980.

INSTRUMENTATION.--Water-quality monitor October 1975 to September 1980.

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

EXTREMES FOR PERIOD OF DAILY RECORD.--

SPECIFIC CONDUCTANCE: Maximum, 99 micromhos Feb. 11, 1980; minimum, 26 micromhos June 24, 1977.

WATER TEMPERATURES: Maximum, 30.5°C July 30, 1979; minimum, 0.0°C on many days during winter periods.

EXTREMES FOR CURRENT YEAR.--

SPECIFIC CONDUCTANCE: Maximum, 99 micromhos Feb. 11; minimum, 40 micromhos Oct. 11.

WATER TEMPERATURES: Maximum, 25.5°C June 25; minimum, 0.0°C on many days during winter period.

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

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
OCTOBER				NOVEMBER			DECEMBER			JANUARY		
1	---	---	---	49	43	57	---	---	---	---	---	---
2	---	---	---	45	44	44	---	---	---	---	---	---
3	55	53	55	47	44	45	---	---	---	---	---	---
4	56	54	55	48	45	47	---	---	---	---	---	---
5	58	54	56	50	45	47	---	---	---	---	---	---
6	58	55	56	48	43	45	---	---	---	---	---	---
7	60	58	59	43	43	43	---	---	---	---	---	---
8	59	56	58	47	42	45	---	---	---	---	---	---
9	57	48	53	48	41	45	---	---	---	---	---	---
10	50	43	46	49	47	48	---	---	---	---	---	---
11	46	40	44	---	---	---	---	---	---	---	---	---
12	---	---	---	---	---	---	---	---	---	---	---	---
13	---	---	---	---	---	---	---	---	---	---	---	---
14	---	---	---	---	---	---	---	---	---	---	---	---
15	---	---	---	---	---	---	---	---	---	---	---	---
16	---	---	---	---	---	---	---	---	---	---	---	---
17	---	---	---	---	---	---	---	---	---	---	---	---
18	---	---	---	---	---	---	---	---	---	---	---	---
19	---	---	---	---	---	---	---	---	---	---	---	---
20	---	---	---	---	---	---	---	---	---	---	---	---
21	---	---	---	---	---	---	---	---	---	---	---	---
22	---	---	---	47	45	46	---	---	---	---	---	---
23	---	---	---	46	43	44	61	60	60	---	---	---
24	54	52	54	44	42	43	61	60	60	---	---	---
25	55	54	55	59	44	47	61	60	60	---	---	---
26	55	53	54	58	50	54	62	61	61	---	---	---
27	53	52	53	54	52	53	63	62	62	---	---	---
28	52	51	52	59	44	56	64	63	63	---	---	---
29	52	51	51	---	---	---	65	65	65	---	---	---
30	51	51	51	56	55	55	68	66	67	---	---	---
31	51	48	50	---	---	---	73	69	71	---	---	---
MONTH	60	40	53	59	41	48	73	60	63	---	---	---

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

[illegible]

ST. JOHN RIVER BASIN

01010100 SHIELDS BRANCH BIG BLACK RIVER NEAR SEVEN ISLANDS, ME

LOCATION.--Lat 46°56'30", long 69°38'58", Aroostook County, Hydrologic Unit 01010001, on left bank 75 ft (23 m) upstream from bridge, 5.5 mi (8.8 km) east of international boundary at Seven Islands Village, and 2.7 mi (4.3 km) upstream from mouth.

DRAINAGE AREA.--161 mi² (417 km²).

PERIOD OF RECORD.--October 1976 to September 1980 (seasonal records only, discontinued).

GAGE.--Water-stage recorder. Altitude of gage is 830 ft (250 m), from topographic map.

REMARKS.--Records fair. Several observations of water temperature and specific conductance were made during the year.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 5,190 ft³/s (147 m³/s) Apr. 29, 1979, gage height, 22.49 ft (6.855 m), backwater from bridge, from rating extended above 2,500 ft³/s (71 m³/s); minimum daily, 5.4 ft³/s (0.15 m³/s) Aug. 23, 24, 1978.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 2,110 ft³/s (59.8 m³/s) Apr. 16, gage height, 15.67 ft (4.776 m), maximum gage height, 16.74 ft (5.102 m) Apr. 12 (backwater from ice); minimum daily discharge 20 ft³/s (0.57 m³/s) Aug. 25, 30.

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	52	165					---	519	76	42	79	38
2	57	150					140	465	78	34	60	84
3	56	147					165	405	77	30	49	151
4	57	163					230	347	80	28	69	295
5	59	156					270	294	83	26	89	227
6	94	137					260	255	76	155	73	139
7	195	123					240	267	64	346	101	136
8	290	113					220	414	76	277	108	101
9	516	105					230	459	261	172	83	70
10	408	148					265	376	278	118	75	54
11	272	374					370	304	203	86	61	44
12	198	335					600	260	143	280	48	42
13	164	243					1000	237	103	574	74	41
14	175	147					1650	283	78	537	106	40
15	175	150					1880	376	62	341	112	50
16	154	120					1980	325	65	229	179	62
17	135	105					1260	252	72	154	227	55
18	127	90					800	206	65	112	167	48
19	198	83					555	271	56	85	106	58
20	103	50					488	403	49	152	72	58
21	119	---					505	314	55	267	54	256
22	131	---					424	236	83	229	41	596
23	127	---					773	190	87	178	31	728
24	125	---					405	153	69	216	24	546
25	451	---					533	129	52	222	20	332
26	494	---					598	113	49	160	22	232
27	324	---					691	103	91	104	26	287
28	232	---					771	96	109	77	27	326
29	187	---					669	89	84	97	24	247
30	177	---					584	81	59	92	20	185
31	174	---					---	75	---	91	23	---
TOTAL	5957	---					---	8297	2783	5561	2250	5528
MEAN	192	---					---	268	92.8	179	72.6	184
MAX	516	---					---	519	278	574	227	728
MIN	56	---					---	75	49	26	20	38
CFSM	1.12	---					---	1.67	.58	1.11	.45	1.14
IN.	1.30	---					---	1.92	.64	1.28	.52	1.28

01010500 ST. JOHN RIVER AT DICKEY, ME

LOCATION.--Lat 47°06'44", long 69°05'25", Aroostook County, Hydrologic Unit 01010001, on right bank at downstream side of highway bridge at Dickey, 0.4 mi (0.6 km) downstream from Little Black River, and 2.8 mi (4.5 km) upstream from Allagash River.

DRAINAGE AREA.--2,700 mi² (7,000 km²), approximately.

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--July to November 1910 and April to November 1911 (published as "near Dickey"), September 1946 to current year.

GAGE.--Water-stage recorder. Datum of gage is 590.66 ft (180.033 m) National Geodetic Vertical Datum of 1929 (levels by Corps of Engineers). Prior to December 1911, nonrecording gage at site 2,300 ft (700 m) downstream at different datum. September 1946 to April 1962, water-stage recorder at site 1,300 ft (400 m) downstream at same datum.

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

AVERAGE DISCHARGE.--34 years (water years 1947-80), 4,709 ft³/s (133.4 m³/s), 23.68 in/yr (601 mm/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 91,700 ft³/s (2,600 m³/s) Apr. 29, 1979, gage height, 19.13 ft (5.831 m); maximum gage height, 29.16 ft (8.888 m) Apr. 30, 1974 (backwater from ice); minimum discharge, 129 ft³/s (3.65 m³/s) Sept. 17, 1948.

EXTREMES FOR CURRENT YEAR.--Peak discharges above base of 27,000 ft³/s (760 m³/s) and maximum (*):

Date	Time	Discharge (ft ³ /s) (m ³ /s)	Gage height (ft) (m)
Apr. 16	1400	*34,400 974	12.30 3.749

Minimum discharge not determined, occurred during period of backwater from ice; minimum daily discharge, 295 ft³/s (8.4 m³/s), Mar. 3.

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1660	3440	6000	2120	630	300	1500	12700	1900	1530	2260	567
2	1590	3400	4550	1410	610	300	1700	12000	1800	1200	1990	807
3	1430	3170	3700	1610	540	295	1900	10700	1780	1090	2060	2340
4	1330	3480	3200	1490	560	300	2150	9140	1760	995	3300	4320
5	1360	4490	2850	1370	540	300	2750	7730	1780	897	2690	3880
6	1410	4640	2650	1300	525	305	3600	6560	1820	1510	2290	2740
7	1650	4060	2680	1200	500	305	3750	5870	1890	3610	2270	2000
8	2260	3570	2700	1100	490	310	3700	6350	1770	5330	2140	1610
9	4160	3200	2550	1080	470	310	3700	7190	2280	4220	2180	1260
10	6750	3040	2350	1050	450	315	4050	6900	3400	3140	1970	910
11	5910	4130	2100	1060	450	320	5300	6230	3850	2450	1780	756
12	4710	6670	1900	1100	430	325	9000	5590	3270	2540	1590	659
13	3930	5830	1800	1150	420	330	14000	5050	2600	3930	1610	612
14	3570	4770	1700	1250	410	345	22500	5200	2060	5900	1670	764
15	3560	4090	1750	1330	395	355	29400	5940	1590	5980	2130	1210
16	3550	3640	2000	1500	385	370	33700	5950	1450	4710	3110	1520
17	3340	3200	1950	1600	340	385	26700	5200	1400	3780	4440	2320
18	3000	2800	1830	1780	365	425	19100	4600	1320	4020	4380	2030
19	2780	2400	1710	1700	355	470	13900	4360	1250	4100	3310	1690
20	2600	2100	1600	1600	345	525	11000	6060	1120	3850	2440	1850
21	2540	2000	1500	1400	340	600	10600	7070	1070	3940	1870	2560
22	2540	1950	1450	1300	335	680	10100	6140	1220	4140	1520	5160
23	2560	2200	1380	1180	330	760	8870	5090	1550	3990	1290	8060
24	2590	2500	1330	1060	325	850	8440	4240	1980	4500	972	7700
25	3490	3300	1300	970	320	950	9760	3660	1710	5520	843	6130
26	5920	4200	1280	890	315	1000	11300	3190	1430	5620	750	4620
27	6290	5000	1270	830	310	1100	12800	2840	1650	4130	722	4140
28	5330	6400	1400	780	310	1200	15900	2590	1880	3110	599	5130
29	4240	7800	2600	730	305	1250	16200	2380	1910	2780	556	4860
30	3670	7200	2500	690	---	1300	14200	2190	1940	2470	517	4080
31	3620	---	2350	660	---	1400	---	2020	---	2360	507	---
TOTAL	103130	118670	69930	38690	12190	17980	331470	180730	56430	107332	59756	86285
MEAN	3327	3956	2256	1248	420	580	11050	5830	1881	3462	1928	2876
MAX	6750	7800	6000	2120	630	1400	33700	12700	3850	5980	4440	8060
MIN	1330	1950	1270	660	305	295	1500	2020	1070	897	507	567
CFSM	1.23	1.47	.84	.46	.16	.22	4.09	2.16	.70	1.28	.71	1.07
IN.	1.42	1.64	.96	.53	.17	.25	4.57	2.49	.78	1.48	.82	1.19

CAL YR	TOTAL	MEAN	MAX	MIN	CFSM	IN
1979	2251441	6168	26800	406	2.28	31.02
1980	1182593	3231	33700	295	1.20	16.29

01010500 ST. JOHN RIVER AT DICKEY, ME--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 1975 to September 1980 (discontinued).

PERIOD OF DAILY RECORD.--

SPECIFIC CONDUCTANCE: April 1975 to September 1980.

WATER TEMPERATURES: April 1975 to September 1980.

SUSPENDED SEDIMENT DISCHARGE: October 1975 to September 1976.

INSTRUMENTATION.- Water-quality monitor April 1975 to September 1980.

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

EXTREMES FOR PERIOD OF DAILY RECORD.--

SPECIFIC CONDUCTANCE: Maximum, 109 micromhos Sept. 1, 1975; minimum, 30 micromhos Apr. 20, 1976, May 19, 20, June 23, 1977.

WATER TEMPERATURES: Maximum, 30.0°C July 30, 1979; minimum, 0.0°C on many days during winter periods.

SEDIMENT CONCENTRATIONS: Maximum daily mean, 161 mg/L Apr. 21, 1976; minimum daily mean, 1 mg/L on many days during water year.

SEDIMENT LOADS: Maximum daily, 26,500 tons (24,000 metric tons) Apr. 21, 1976; minimum daily, 2.2 tons (2.0 metric tons) Jan. 15-29, 1976.

EXTREMES FOR CURRENT YEAR.--

SPECIFIC CONDUCTANCE: Maximum, 95 micromhos Mar. 4; minimum, 34 micromhos Dec. 2, 3.

WATER TEMPERATURES: Maximum, 25.5°C June 25, Aug. 1, 5, 7, 8; minimum, 0.0°C on many days during winter period.

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

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
OCTOBER			NOVEMBER			DECEMBER			JANUARY			
1	72	71	71	53	50	51	46	42	45	54	52	53
2	74	72	73	51	50	50	42	34	38	54	53	53
3	74	74	74	50	50	50	48	34	38	54	53	54
4	75	74	74	51	50	51	52	38	44	56	40	54
5	75	74	74	51	49	50	53	43	48	57	41	55
6	74	73	74	51	48	49	53	47	51	75	43	60
7	74	73	74	49	49	49	52	51	52	59	58	59
8	74	73	73	50	49	49	52	44	49	61	58	59
9	75	73	74	52	50	51	54	46	49	62	61	61
10	72	63	67	51	47	50	58	43	54	63	62	63
11	62	60	61	53	51	52	59	43	57	64	59	63
12	60	58	59	52	50	51	63	40	57	65	51	59
13	58	58	58	51	48	50	52	39	45	67	65	66
14	57	57	57	50	48	48	60	46	48	67	61	65
15	57	56	57	50	47	48	59	57	58	68	60	64
16	56	55	56	49	47	48	59	57	58	69	68	68
17	56	54	56	50	43	47	59	58	58	70	68	69
18	58	56	57	52	38	44	60	58	59	70	68	69
19	59	56	58	56	42	48	63	61	62	69	68	68
20	58	58	58	56	39	47	67	64	66	70	68	69
21	59	58	59	56	55	56	68	66	67	72	69	70
22	60	59	59	55	52	53	67	66	67	74	72	73
23	61	58	59	53	52	53	65	63	64	74	73	74
24	60	55	58	53	53	53	62	61	62	75	74	75
25	57	55	56	54	53	53	61	59	60	75	74	74
26	59	56	58	53	50	52	62	59	60	75	74	74
27	56	52	54	51	50	50	62	60	62	75	74	75
28	52	51	52	50	48	49	63	62	63	76	75	75
29	51	50	50	47	46	46	63	56	59	76	75	76
30	50	50	50	46	45	46	56	53	55	76	76	76
31	52	50	51	---	---	---	53	52	52	77	76	77
MONTH	75	50	62	56	38	50	68	34	55	77	40	66

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

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
FEBRUARY				MARCH			APRIL			MAY		
1	78	77	78	92	91	92	80	75	77	---	---	---
2	79	78	78	93	91	92	78	73	75	---	---	---
3	80	78	80	94	92	93	73	68	71	58	55	56
4	81	80	80	95	93	94	69	65	67	57	55	56
5	81	80	81	94	93	94	65	58	63	57	55	56
6	81	81	81	94	93	94	58	57	58	57	56	57
7	82	81	81	94	94	94	58	57	57	57	57	57
8	83	81	82	94	94	94	57	56	57	57	57	57
9	83	81	82	94	93	94	57	52	53	59	57	58
10	84	82	83	94	93	93	52	42	46	60	58	59
11	84	82	83	93	90	92	45	40	42	---	---	---
12	86	83	84	93	92	93	43	40	42	---	---	---
13	86	84	85	94	91	92	45	44	44	---	---	---
14	88	84	86	94	91	92	48	45	46	---	---	---
15	87	84	86	92	91	92	49	47	48	---	---	---
16	88	84	87	93	92	93	49	49	49	---	---	---
17	89	88	89	94	91	93	50	49	50	---	---	---
18	89	88	89	92	90	91	52	50	51	---	---	---
19	90	89	90	92	92	92	53	52	52	---	---	---
20	90	89	90	92	91	91	52	51	51	---	---	---
21	90	89	90	91	90	91	53	50	52	---	---	---
22	90	89	90	90	85	88	54	51	52	55	55	55
23	91	90	90	84	82	84	52	51	52	56	54	55
24	91	90	91	83	81	82	55	52	53	57	55	56
25	91	90	91	82	81	82	---	---	---	57	55	56
26	91	90	91	82	81	82	---	---	---	57	56	56
27	92	89	91	84	82	83	---	---	---	58	56	57
28	92	91	91	84	83	83	---	---	---	59	57	58
29	92	91	91	84	82	83	---	---	---	62	58	60
30	---	---	---	82	79	80	---	---	---	63	61	62
31	---	---	---	81	77	79	---	---	---	63	62	63
MONTH	92	77	86	95	77	89	80	40	55	63	54	57
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
JUNE				JULY			AUGUST			SEPTEMBER		
1	64	62	63	68	67	67	57	55	56	76	72	75
2	64	63	64	67	67	67	58	57	57	77	72	74
3	64	64	64	68	68	68	60	57	59	77	68	75
4	63	63	63	69	68	68	64	59	62	67	59	62
5	64	62	63	70	68	69	66	63	64	62	59	60
6	65	63	64	68	67	68	66	64	66	63	62	63
7	65	64	65	68	63	65	68	65	66	62	61	62
8	64	63	64	66	63	65	68	66	67	62	61	61
9	64	63	64	63	57	59	67	65	66	62	58	61
10	65	62	63	58	57	58	67	65	66	62	61	61
11	65	64	64	58	56	57	68	66	67	63	61	61
12	63	60	61	58	56	58	68	65	67	63	61	62
13	61	59	60	57	56	56	67	64	65	66	63	64
14	61	60	61	58	55	56	67	65	66	66	63	64
15	62	61	61	55	52	53	66	63	65	64	62	63
16	63	61	62	53	51	52	66	63	64	64	61	63
17	65	63	64	52	51	52	63	61	62	61	56	59
18	66	65	65	52	50	51	62	59	60	56	55	56
19	67	65	66	52	50	50	59	58	59	56	55	56
20	68	67	67	50	49	49	59	58	58	56	54	56
21	68	67	67	51	49	51	60	58	59	58	53	55
22	69	67	68	54	51	53	61	59	60	60	57	59
23	71	69	70	56	53	55	64	60	62	60	56	58
24	70	68	69	56	54	55	66	63	64	56	53	55
25	69	68	68	54	50	52	67	65	66	53	52	53
26	69	67	68	50	49	50	68	66	67	52	50	51
27	69	68	69	50	49	50	69	67	68	52	51	51
28	69	68	69	52	50	51	70	68	68	52	51	52
29	70	68	69	53	52	53	73	69	71	53	52	53
30	69	68	68	54	52	53	76	72	74	53	52	52
31	---	---	---	55	54	55	76	73	75	---	---	---
MONTH	71	59	65	70	49	57	76	55	64	77	50	60
YEAR	95	34	64									

01010500 ST. JOHN RIVER AT DICKEY, ME--Continued

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

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
OCTOBER			NOVEMBER			DECEMBER			JANUARY			
1	12.0	10.5	11.0	5.5	4.0	5.0	1.5	.5	1.0	.0	.0	.0
2	14.0	11.5	12.5	5.5	4.5	5.0	.5	.5	.5	.0	.0	.0
3	12.5	10.5	11.0	6.0	5.5	5.5	.5	.5	.5	.0	.0	.0
4	12.5	10.5	11.5	6.0	5.0	5.0	.5	.5	.5	.0	.0	.0
5	13.5	11.5	12.5	5.5	4.5	5.0	.5	.5	.5	.0	.0	.0
6	13.0	10.5	12.5	5.0	4.0	4.5	1.5	.5	1.0	.0	.0	.0
7	12.0	10.0	11.0	4.5	4.0	4.5	1.5	.5	1.0	.0	.0	.0
8	11.5	9.0	10.5	4.5	4.0	4.5	.5	.0	.0	.0	.0	.0
9	9.0	7.5	8.0	5.0	4.0	4.5	.0	.0	.0	.0	.0	.0
10	7.5	6.0	6.5	5.5	4.0	4.5	.0	.0	.0	.0	.0	.0
11	7.0	5.5	6.0	5.5	4.5	5.0	.0	.0	.0	.0	.0	.0
12	5.5	4.5	5.0	4.5	4.0	4.5	.5	.0	.0	.0	.0	.0
13	5.5	5.0	5.0	4.5	3.5	4.0	.0	.0	.0	.0	.0	.0
14	6.0	5.0	5.5	3.5	3.5	3.5	.0	.0	.0	.0	.0	.0
15	5.0	4.5	4.5	3.5	2.0	3.0	.0	.0	.0	.0	.0	.0
16	4.5	3.5	4.0	2.0	.5	1.5	.0	.0	.0	.0	.0	.0
17	5.0	2.5	4.0	.5	.5	.5	.0	.0	.0	.0	.0	.0
18	7.0	4.5	5.5	.5	.5	.5	.0	.0	.0	.0	.0	.0
19	6.5	4.0	5.5	.5	.5	.5	.0	.0	.0	.0	.0	.0
20	7.0	5.5	6.5	.5	.5	.5	.0	.0	.0	.0	.0	.0
21	10.0	7.0	8.5	1.0	.5	.5	.0	.0	.0	.0	.0	.0
22	11.5	10.0	10.5	1.0	.5	.5	.0	.0	.0	.0	.0	.0
23	14.0	11.0	12.0	1.5	1.0	1.0	.0	.0	.0	.0	.0	.0
24	14.0	12.5	13.0	2.0	1.5	1.5	.0	.0	.0	.0	.0	.0
25	12.5	9.0	11.0	2.5	1.5	2.0	.0	.0	.0	.0	.0	.0
26	8.5	7.5	8.0	3.5	2.5	3.0	.0	.0	.0	.0	.0	.0
27	7.5	6.0	6.5	4.5	3.5	4.5	.0	.0	.0	.0	.0	.0
28	6.0	5.5	5.5	4.5	4.0	4.0	.0	.0	.0	.0	.0	.0
29	5.0	5.0	5.0	4.5	3.0	4.0	.0	.0	.0	.0	.0	.0
30	5.5	5.0	5.0	3.0	1.5	2.5	.0	.0	.0	.0	.0	.0
31	6.0	4.5	5.0	---	---	---	.0	.0	.0	.0	.0	.0
MONTH	14.0	2.5	8.0	6.0	.5	3.0	1.5	.0	.0	.0	.0	.0

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
FEBRUARY			MARCH			APRIL			MAY			
1	.0	.0	.0	.0	.0	.0	.0	.0	.0	---	---	---
2	.0	.0	.0	.0	.0	.0	.0	.0	.0	---	---	---
3	.0	.0	.0	.0	.0	.0	.0	.0	.0	10.0	7.5	9.0
4	.0	.0	.0	.0	.0	.0	.0	.0	.0	9.5	8.0	9.0
5	.0	.0	.0	.0	.0	.0	.0	.0	.0	9.5	7.0	8.5
6	.0	.0	.0	.0	.0	.0	.0	.0	.0	9.5	8.0	9.0
7	.0	.0	.0	.0	.0	.0	.0	.0	.0	9.5	7.5	8.5
8	.0	.0	.0	.0	.0	.0	.0	.0	.0	7.5	6.5	7.0
9	.0	.0	.0	.0	.0	.0	.0	.0	.0	8.0	7.0	7.5
10	.0	.0	.0	.0	.0	.0	.5	.0	.5	8.5	7.0	7.5
11	.0	.0	.0	.0	.0	.0	2.0	1.0	1.0	---	---	---
12	.0	.0	.0	.0	.0	.0	2.0	1.0	1.5	---	---	---
13	.0	.0	.0	.0	.0	.0	2.5	1.5	2.0	---	---	---
14	.0	.0	.0	.5	.0	.0	4.0	2.5	3.0	---	---	---
15	.0	.0	.0	.5	.0	.0	4.0	2.0	3.5	---	---	---
16	.0	.0	.0	.0	.0	.0	2.5	2.0	2.5	---	---	---
17	.0	.0	.0	.0	.0	.0	3.0	2.5	3.0	---	---	---
18	.0	.0	.0	.0	.0	.0	4.0	3.0	4.0	---	---	---
19	.0	.0	.0	.0	.0	.0	5.0	4.0	5.0	---	---	---
20	.0	.0	.0	.0	.0	.0	5.0	4.5	5.0	---	---	---
21	.0	.0	.0	.0	.0	.0	6.5	3.5	5.0	---	---	---
22	.0	.0	.0	.0	.0	.0	7.5	5.0	6.0	16.5	14.0	15.5
23	.0	.0	.0	.0	.0	.0	7.5	7.0	7.0	17.0	14.0	15.5
24	.0	.0	.0	.0	.0	.0	9.0	6.5	7.5	16.0	14.0	15.0
25	.0	.0	.0	.0	.0	.0	---	---	---	15.5	13.5	14.5
26	.0	.0	.0	.0	.0	.0	---	---	---	13.5	12.0	13.0
27	.0	.0	.0	.0	.0	.0	---	---	---	13.0	11.5	12.0
28	.0	.0	.0	.0	.0	.0	---	---	---	13.0	11.0	12.0
29	.0	.0	.0	.0	.0	.0	---	---	---	15.0	11.0	13.0
30	---	---	---	.0	.0	.0	---	---	---	18.0	12.5	15.0
31	---	---	---	.0	.0	.0	---	---	---	18.5	15.5	17.0
MONTH	.0	.0	.0	.5	.0	.0	9.0	.0	2.5	18.5	6.5	11.5

01011000 ALLAGASH RIVER NEAR ALLAGASH, ME

LOCATION.--Lat 47°04'14", long 69°04'51", Aroostook County, Hydrologic Unit 01010002, on left bank 3.0 mi (4.8 km) upstream from mouth and village of Allagash.

DRAINAGE AREA.--1,250 mi² (3,240 km²), approximately, not including 249 mi² (645 km²) drained by Chamberlain Lake through Telos Canal.

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--July 1910 to November 1910, May to November 1911, September 1931 to current year.

REVISED REOCRDS.--WSP 726; Drainage area. WSP 1231; 1911.

GAGE.--Water-stage recorder. Datum of gage is 604.6 ft (184.28 m) National Geodetic Vertical Datum of 1929. Prior to December 1911, nonrecording gage at site 3.0 mi (4.8 km) downstream at different datum.

REMARKS.--Records good except those for winter period, which are fair. Some regulation for recreational purposes since May 1969 by Churchill Lake, usable capacity, about 3.4 billion ft³ (96 million m³), 58 mi (93 km) upstream.

AVERAGE DISCHARGE.--49 years (water years 1932-80), 1,917 ft³/s (54.29 m³/s), 20.83 in/yr (529 mm/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 29,400 ft³/s, (933 m³/s) Apr. 29, 1973, gage height 12.33 ft (3.758 m); maximum gage height, 14.43 ft (4.398 m) Apr. 3, 1976 (backwater from ice); minimum discharge, 87 ft³/s (2.46 m³/s) Sept. 11, 1960.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 8,920 ft³/s (253 m³/s) Apr. 16, gage height 7.14 ft (2.176 m); maximum gage height, 10.19 ft (3.10 m) Apr. 12 (backwater from ice); minimum discharge not determined, occurred during period of backwater from ice; minimum daily discharge 300 ft³/s (8.50 m³/s) Mar. 4, 5.

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1140	1470	2270	660	380	310	760	3910	1310	807	1080	770
2	1120	1420	1950	645	380	305	850	3790	1270	813	984	899
3	1100	1460	1600	630	375	305	950	3610	1240	870	941	1360
4	1000	2050	1350	615	370	300	1020	3390	1220	889	1640	1570
5	900	2190	1250	605	365	300	1120	3130	1190	795	1440	1500
6	888	2080	1150	595	365	305	1200	2910	1140	942	1160	1290
7	1030	1950	1070	580	360	305	1300	2790	1090	1290	1130	1130
8	1230	1840	985	575	360	305	1450	2990	1070	1220	1080	1060
9	1980	1750	910	570	355	305	1700	3250	1230	1130	1040	984
10	2020	1790	890	560	350	305	2100	3280	1290	1010	970	920
11	1880	2110	870	550	350	310	2700	3040	1220	924	960	888
12	1700	2070	850	540	350	310	3700	2770	1150	980	955	858
13	1630	1950	840	535	345	310	5000	2590	1040	1280	970	828
14	1620	1840	810	525	345	310	6300	2770	962	1670	1030	780
15	1590	1750	800	520	340	310	7200	3130	902	1560	1070	770
16	1510	1670	780	510	340	315	8610	2860	918	1430	1280	789
17	1380	1560	770	500	340	315	6860	2550	912	1260	1200	761
18	1280	1460	750	490	335	320	5740	2350	882	1130	1080	742
19	1190	1310	735	480	330	325	4780	2500	844	1040	962	780
20	1130	1290	720	470	330	330	4200	2720	802	1200	878	770
21	1120	1290	710	460	325	335	4320	2650	845	1520	808	742
22	1100	1300	705	450	325	345	3630	2530	1140	1250	752	1240
23	1060	1310	700	440	325	360	3430	2380	1220	1260	697	1560
24	1040	1430	700	430	320	385	3480	2230	1160	1400	654	1940
25	1400	1580	700	420	320	410	3700	2030	1070	1470	620	1860
26	1780	1710	700	415	320	440	3890	1830	988	1430	603	1620
27	1810	2200	700	405	315	475	4280	1730	992	1290	770	1430
28	1700	3060	695	400	315	520	4520	1610	982	1180	952	1440
29	1600	2850	690	395	310	570	4290	1490	884	1090	920	1430
30	1530	2580	680	390	---	630	4070	1410	835	1060	848	1270
31	1510	---	670	385	---	690	---	1340	---	1090	780	---
TOTAL	42968	54320	28900	15745	9940	11360	107150	81560	31798	36280	30254	33981
MEAN	1386	1811	932	508	343	366	3572	2631	1060	1170	976	1133
MAX	2020	3060	2270	660	380	690	8610	3910	1310	1670	1640	1940
MIN	888	1290	670	385	310	300	760	1340	802	795	603	742
CFSM	1.11	1.45	.75	.41	.27	.29	2.86	2.11	.85	.94	.78	.91
IN.	1.28	1.62	.86	.47	.30	.34	3.19	2.43	.95	1.08	.90	1.01
CAL YR 1979	TOTAL	908038	MEAN	2488	MAX	26700	MIN	400	CFSM	1.99	IN	27.02
WTR YR 1980	TOTAL	484256	MEAN	1323	MAX	8610	MIN	300	CFSM	1.06	IN	14.41

01011000 ALLAGASH RIVER NEAR ALLAGASH, ME--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 1975 to September 1980 (discontinued).

PERIOD OF DAILY RECORD.--

SPECIFIC CONDUCTANCE: April 1975 to September 1980.

WATER TEMPERATURES: April 1975 to September 1980.

SUSPENDED SEDIMENT DISCHARGE: October 1975 to September 1976.

INSTRUMENTATION.--Water-quality monitor April 1975 to September 1980.

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

EXTREMES FOR PERIOD OF DAILY RECORD.--

SPECIFIC CONDUCTANCE: Maximum, 95 micromhos Dec. 4, 1977; minimum, 30 micromhos on many days during April 1976.

WATER TEMPERATURES: Maximum, 27.5°C Aug. 2, 1975; minimum, 0.0°C on many days during winter periods.

SEDIMENT CONCENTRATIONS: Maximum daily mean, 160 mg/L Apr. 3, 1976; minimum daily mean, 1 mg/L on many days.

SEDIMENT LOADS: Maximum daily, 5,830 tons (5,290 metric tons) Apr. 3, 1976; minimum daily, 1.3 tons (1.2 metric tons) Oct. 10-12, 1975, Jan. 16-30, 1976.

EXTREMES FOR CURRENT YEAR.--

SPECIFIC CONDUCTANCE: Maximum, 80 micromhos Mar. 3; minimum, 37 micromhos Apr. 14.

WATER TEMPERATURES: Maximum, 26.0°C Aug. 8; minimum, 0.0°C on many days during winter period.

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

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
OCTOBER			NOVEMBER			DECEMBER			JANUARY			
1	61	60	60	60	60	60	59	58	58	59	58	58
2	62	61	61	60	59	60	59	55	57	59	58	58
3	63	61	62	60	59	60	60	59	60	59	58	58
4	64	63	63	61	60	60	60	59	60	60	58	59
5	64	63	64	61	59	59	60	60	60	60	59	60
6	64	63	64	59	58	58	60	60	60	60	59	60
7	65	64	64	58	58	58	60	55	58	60	60	60
8	65	62	64	58	58	58	55	55	55	60	60	60
9	62	61	62	59	58	59	64	55	58	60	59	60
10	61	59	59	59	58	58	66	56	60	60	59	59
11	59	58	59	59	59	59	64	58	60	60	59	60
12	59	58	58	59	59	59	58	56	57	62	59	60
13	58	58	58	59	58	59	59	55	58	60	58	59
14	58	58	58	59	59	59	62	59	60	61	60	61
15	58	57	57	59	58	59	62	62	62	62	61	61
16	58	57	57	59	59	59	61	60	60	61	60	61
17	58	57	58	59	59	59	61	58	59	62	61	61
18	58	57	58	59	59	59	61	58	59	62	61	61
19	59	57	58	61	59	59	61	60	61	60	58	59
20	58	57	58	61	59	60	61	59	60	58	58	58
21	58	57	58	60	59	59	60	58	59	58	58	58
22	58	57	58	60	59	60	60	57	58	60	58	59
23	58	57	58	60	59	59	60	58	59	60	60	60
24	63	57	60	60	59	60	60	60	60	60	59	60
25	63	60	61	60	60	60	60	59	60	60	58	59
26	62	61	62	60	59	60	61	60	61	60	59	60
27	61	60	60	60	59	59	61	60	61	60	60	60
28	60	59	60	60	59	60	61	59	60	60	59	60
29	60	59	60	59	59	59	60	60	60	60	59	60
30	60	59	60	59	59	59	60	58	59	60	59	60
31	60	59	60	---	---	---	58	58	58	61	60	61
MONTH	65	57	60	61	58	59	66	55	59	62	58	60

ST. JOHN RIVER BASIN

01011000 ALLAGASH RIVER NEAR ALLAGASH, ME--Continued

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

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
FEBRUARY			MARCH			APRIL			MAY			
1	62	61	62	76	75	76	52	50	51	---	---	---
2	63	62	62	76	74	76	51	50	50	---	---	---
3	63	63	63	80	74	76	50	45	48	50	48	49
4	63	63	63	76	75	76	48	47	48	50	48	50
5	64	64	64	76	75	75	48	45	47	50	49	50
6	65	64	64	76	75	76	47	46	46	50	49	50
7	65	64	65	75	74	74	48	46	47	49	49	49
8	67	65	66	74	73	73	47	46	47	49	48	49
9	68	65	67	73	73	73	46	44	45	49	49	49
10	68	66	67	73	70	73	44	41	43	50	49	49
11	69	67	68	73	72	72	42	40	41	51	49	50
12	70	69	69	72	70	71	40	38	39	52	50	51
13	70	69	70	71	70	71	38	38	38	52	50	51
14	71	70	70	70	70	70	39	37	38	51	50	51
15	72	70	71	70	70	70	---	---	---	52	49	51
16	71	71	71	70	69	70	---	---	---	52	50	51
17	72	72	72	70	69	70	---	---	---	52	50	51
18	73	72	72	70	69	69	---	---	---	52	51	52
19	74	73	74	68	66	67	---	---	---	52	51	52
20	75	73	74	67	65	66	---	---	---	53	51	52
21	75	73	75	68	66	67	---	---	---	54	51	52
22	74	72	73	68	66	67	---	---	---	54	52	53
23	76	74	75	66	64	65	42	41	41	53	51	52
24	76	74	75	64	63	63	43	42	43	54	51	52
25	77	76	76	63	63	63	44	42	44	54	52	53
26	77	75	76	63	62	63	---	---	---	53	51	52
27	75	74	75	62	61	62	---	---	---	53	52	53
28	76	74	75	60	59	60	---	---	---	54	52	53
29	76	75	76	60	58	59	---	---	---	56	52	54
30	---	---	---	58	57	58	---	---	---	55	52	54
31	---	---	---	57	51	55	---	---	---	54	52	53
MONTH	77	61	70	80	51	69	52	37	44	56	48	51
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
JUNE			JULY			AUGUST			SEPTEMBER			
1	52	51	51	46	43	44	54	53	53	58	57	57
2	51	49	50	46	44	45	54	52	53	62	58	60
3	49	47	48	47	43	45	53	51	53	63	60	62
4	47	45	46	48	46	47	55	52	53	60	57	58
5	46	41	43	47	46	46	56	54	55	58	57	58
6	42	40	42	47	43	44	55	54	54	58	56	57
7	43	41	42	46	44	45	55	54	54	58	57	57
8	43	40	41	46	44	45	55	54	54	58	57	58
9	41	39	40	44	43	43	54	52	52	58	57	58
10	41	40	40	46	42	44	54	52	53	59	58	58
11	40	39	40	46	45	46	55	53	55	58	57	58
12	40	39	39	46	43	44	56	53	54	59	57	58
13	43	40	41	43	42	42	56	54	55	60	58	59
14	44	42	43	43	40	42	59	57	58	60	59	59
15	44	43	43	---	---	---	59	56	58	61	59	60
16	45	42	43	---	---	---	58	56	57	63	61	62
17	45	43	44	---	---	---	57	56	57	63	61	62
18	45	43	44	---	---	---	58	56	57	62	61	61
19	45	43	44	---	---	---	58	56	57	62	61	61
20	45	43	44	---	---	---	57	57	57	62	62	62
21	46	43	44	---	---	---	57	55	57	66	61	63
22	46	43	44	---	---	---	58	56	57	67	65	65
23	46	45	46	---	---	---	59	57	58	65	62	63
24	45	43	44	---	---	---	59	58	59	63	62	62
25	45	43	44	53	51	51	59	58	58	62	59	61
26	45	44	45	51	49	50	59	58	59	62	60	61
27	45	43	44	50	48	49	59	56	58	62	61	61
28	46	43	44	50	49	49	56	56	56	63	62	63
29	46	44	45	51	49	50	57	56	57	63	61	62
30	46	44	45	51	49	50	57	56	57	63	63	63
31	---	---	---	53	51	52	58	57	57	---	---	---
MONTH	52	39	44	53	40	46	59	51	56	67	56	60
YEAR	80	37	57									

01011000 ALLAGASH RIVER NEAR ALLAGASH, ME--Continued

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

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
OCTOBER			NOVEMBER			DECEMBER			JANUARY			
1	12.5	10.5	11.5	7.0	5.5	6.5	1.0	.5	1.0	.0	.0	.0
2	14.0	11.5	12.5	7.0	5.5	6.5	.5	.5	.5	.0	.0	.0
3	12.0	10.5	11.0	7.0	6.5	7.0	.5	.5	.5	.0	.0	.0
4	12.5	10.5	11.5	6.5	6.0	6.5	.5	.5	.5	.0	.0	.0
5	13.5	11.5	12.5	6.5	5.5	6.0	.5	.5	.5	.0	.0	.0
6	13.5	11.0	12.5	6.0	5.0	5.5	1.0	.5	.5	.0	.0	.0
7	12.5	10.0	11.5	6.0	5.0	5.5	2.0	1.0	1.5	.0	.0	.0
8	12.0	9.5	11.0	6.0	5.5	5.5	1.0	.0	1.0	.0	.0	.0
9	9.5	8.0	8.5	6.0	5.0	5.5	.0	.0	.0	.0	.0	.0
10	8.0	7.0	7.5	6.5	5.0	6.0	.0	.0	.0	.0	.0	.0
11	9.0	7.0	7.5	6.0	5.5	6.0	.0	.0	.0	.0	.0	.0
12	7.5	6.0	7.0	5.5	4.5	5.0	.0	.0	.0	.0	.0	.0
13	7.5	7.0	7.0	5.0	4.0	4.5	.0	.0	.0	.0	.0	.0
14	7.5	6.5	7.0	4.5	4.0	4.5	.0	.0	.0	.0	.0	.0
15	7.0	6.0	6.5	4.0	3.0	3.5	.0	.0	.0	.0	.0	.0
16	7.0	5.5	6.0	3.0	2.0	2.5	.0	.0	.0	.0	.0	.0
17	7.0	5.0	6.0	1.5	1.0	1.5	.0	.0	.0	.0	.0	.0
18	8.5	7.0	7.5	1.5	.5	1.0	.0	.0	.0	.0	.0	.0
19	8.0	6.0	7.0	.5	.5	.5	.0	.0	.0	.0	.0	.0
20	8.5	7.0	8.0	.5	.5	.5	.0	.0	.0	.0	.0	.0
21	11.0	8.5	10.0	2.0	.5	1.5	.0	.0	.0	.0	.0	.0
22	12.0	10.5	11.5	2.0	1.5	2.0	.0	.0	.0	.0	.0	.0
23	14.0	11.5	13.0	2.5	2.0	2.0	.0	.0	.0	.0	.0	.0
24	14.0	12.5	13.0	3.0	2.5	2.5	.0	.0	.0	.0	.0	.0
25	12.5	9.0	10.5	3.5	2.5	3.0	.0	.0	.0	.0	.0	.0
26	9.0	7.5	8.0	3.5	3.0	3.0	.0	.0	.0	.0	.0	.0
27	7.5	7.0	7.0	4.5	3.5	4.5	.0	.0	.0	.0	.0	.0
28	7.5	6.5	7.0	4.0	3.5	3.5	.0	.0	.0	.0	.0	.0
29	7.0	6.5	6.5	3.5	2.5	3.0	.0	.0	.0	.0	.0	.0
30	7.0	6.5	7.0	2.5	1.0	2.0	.0	.0	.0	.0	.0	.0
31	7.5	6.0	6.5	---	---	---	.0	.0	.0	.0	.0	.0
MONTH	14.0	5.0	9.0	7.0	.5	4.0	2.0	.0	.0	.0	.0	.0

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
FEBRUARY			MARCH			APRIL			MAY			
1	.0	.0	.0	.0	.0	.0	.5	.0	.0	---	---	---
2	.0	.0	.0	.0	.0	.0	.0	.0	.0	---	---	---
3	.0	.0	.0	.0	.0	.0	.0	.0	.0	9.0	6.5	8.0
4	.0	.0	.0	.0	.0	.0	.0	.0	.0	8.5	6.5	7.5
5	.0	.0	.0	.0	.0	.0	.0	.0	.0	8.5	6.0	7.5
6	.0	.0	.0	.0	.0	.0	.0	.0	.0	9.0	7.0	8.0
7	.0	.0	.0	.0	.0	.0	.0	.0	.0	8.5	6.5	7.5
8	.0	.0	.0	.0	.0	.0	.0	.0	.0	7.0	6.5	7.0
9	.0	.0	.0	.0	.0	.0	.0	.0	.0	8.0	6.5	7.0
10	.0	.0	.0	.0	.0	.0	.0	.0	.0	8.5	6.5	7.5
11	.0	.0	.0	.0	.0	.0	.0	.0	.0	10.5	7.0	9.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	12.5	9.5	11.0
13	.0	.0	.0	.0	.0	.0	.0	.0	.0	11.0	9.5	10.5
14	.0	.0	.0	.0	.0	.0	.0	.0	.0	10.5	8.5	9.5
15	.0	.0	.0	.0	.0	.0	1.5	.5	1.0	10.0	7.5	9.0
16	.0	.0	.0	.0	.0	.0	1.0	.5	.5	11.5	8.5	10.0
17	.0	.0	.0	.0	.0	.0	2.0	.0	1.0	12.5	9.0	11.0
18	.0	.0	.0	.0	.0	.0	2.0	.5	1.5	12.5	10.5	11.5
19	.0	.0	.0	.0	.0	.0	3.5	.5	2.5	13.5	11.0	12.0
20	.0	.0	.0	.0	.0	.0	3.0	1.5	2.5	13.5	10.5	12.5
21	.0	.0	.0	.0	.0	.0	2.5	1.0	2.0	15.0	11.0	13.5
22	.0	.0	.0	.0	.0	.0	2.0	.5	1.0	16.0	13.5	15.0
23	.0	.0	.0	.0	.0	.0	2.5	1.5	2.0	15.5	13.0	14.5
24	.0	.0	.0	.0	.0	.0	3.5	2.0	3.0	15.0	12.5	14.0
25	.0	.0	.0	.0	.0	.0	4.0	3.0	3.5	14.5	12.5	13.5
26	.0	.0	.0	.0	.0	.0	---	---	---	12.5	11.0	12.0
27	.0	.0	.0	.0	.0	.0	---	---	---	13.0	11.0	12.0
28	.0	.0	.0	.0	.0	.0	---	---	---	13.0	11.0	12.0
29	.0	.0	.0	.0	.0	.0	---	---	---	15.5	10.5	13.0
30	---	---	---	.0	.0	.0	---	---	---	17.5	12.5	15.0
31	---	---	---	.5	.0	.0	---	---	---	16.5	15.0	16.0
MONTH	.0	.0	.0	.5	.0	.0	4.0	.0	1.0	17.5	6.0	11.0

01011500 ST. FRANCIS RIVER AT OUTLET OF GLASIER LAKE, NEAR CONNORS, NEW BRUNSWICK
(International gaging station)

LOCATION.--Lat 47°12'25", long 68°57'25", Madawaska County, on left bank at outlet of Glasier Lake, 4.0 mi (6.4 km) upstream from mouth, and 6.5 mi (10.5 km) west of Connors.

DRAINAGE AREA.--520 mi² (1,347 km²).

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

REVISED RECORDS.--WSP 1621: Drainage area.

GAGE.--Water-stage recorder. Altitude of gage is 550 ft (168 m), from International Boundary Map.

REMARKS.--Records excellent.

COOPERATION.--This station is maintained by Canada under agreement with the United States.

AVERAGE DISCHARGE.--29 years, 883 ft³/s (25.0 m³/s), 23.06 in/yr (586 mm/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 15,000 ft³/s (425 m³/s) Apr. 30, 1979, gage height 15.39 ft (4.691 m); minimum, 58 ft³/s (1.64 m³/s) Oct. 12, 1978.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 4,440 ft³/s (126 m³/s) Apr. 18, gage height, 8.16 ft (2.487 m); minimum, 115 ft³/s (3.26 m³/s) Mar. 11, gage height, 2.28 ft (0.695 m).

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	669	696	1040	377	246	131	251	3720	666	427	429	368
2	635	684	1030	365	239	130	264	3530	628	395	436	383
3	593	661	964	362	231	130	285	3290	606	369	453	370
4	553	649	894	349	227	131	310	3000	594	345	517	395
5	529	631	832	337	219	125	353	2720	585	316	597	591
6	513	614	782	320	215	130	388	2440	571	360	667	791
7	509	586	755	301	208	122	409	2190	554	410	695	860
8	522	565	729	307	200	124	438	2030	534	510	690	866
9	522	545	699	298	193	129	465	1980	535	626	687	801
10	518	533	663	293	193	125	544	1940	533	674	639	743
11	516	538	620	291	185	122	719	1880	551	678	590	685
12	512	549	595	304	182	126	1040	1770	560	705	559	638
13	503	571	576	304	181	121	1490	1630	574	736	540	594
14	505	590	556	303	174	120	2020	1570	562	746	517	574
15	493	594	536	310	175	123	2650	1530	545	755	553	562
16	491	576	522	319	168	126	3570	1510	533	751	631	527
17	487	555	530	334	161	124	4250	1470	505	721	792	508
18	480	548	502	344	163	135	4360	1380	489	686	970	509
19	467	516	490	339	157	141	4030	1320	474	634	1010	492
20	467	494	468	339	154	135	3580	1280	455	600	975	477
21	463	471	444	340	151	140	3240	1270	456	562	912	493
22	464	460	424	325	153	150	2940	1250	457	524	838	519
23	473	457	414	320	148	160	2720	1170	462	507	740	583
24	477	463	405	310	147	159	2560	1090	473	490	667	647
25	483	455	411	307	145	172	2530	1020	476	478	620	702
26	514	471	434	302	145	189	2650	949	473	472	561	735
27	602	536	432	289	139	198	2950	884	500	454	520	746
28	671	654	416	278	139	205	3370	830	502	446	487	756
29	705	841	410	263	138	217	3650	771	474	459	440	769
30	711	987	399	253	---	229	3790	718	452	448	402	773
31	704	---	388	253	---	240	---	695	---	436	384	---
TOTAL	16751	17490	18360	9736	5176	4609	61816	52827	15779	16720	19518	18457
MEAN	540	583	592	314	178	149	2061	1704	526	539	630	615
MAX	711	987	1040	377	246	240	4360	3720	666	755	1010	866
MIN	463	455	388	253	138	120	251	695	452	316	384	368
CFSM	1.04	1.12	1.14	.60	.34	.29	3.96	3.28	1.01	1.04	1.21	1.18
IN.	1.20	1.25	1.31	.70	.37	.33	4.42	3.78	1.13	1.20	1.40	1.32

CAL YR 1979 TOTAL 399609 MEAN 1095 MAX 14500 MIN 111 CFSM 2.11 IN 28.59
WTR YR 1980 TOTAL 257239 MEAN 703 MAX 4360 MIN 120 CFSM 1.35 IN 18.40

01012500 ST. JOHN RIVER ABOVE FISH RIVER, AT FORT KENT, ME

LOCATION.--Lat 47°14'55", long 68°36'20", Aroostook County, Hydrologic Unit 01010001, on right bank 10 ft (3 m) downstream from International Bridge at Fort Kent and 1 mi (1.6 km) upstream from Fish River.

DRAINAGE AREA.--4,790 mi² (12,406 km²).

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

PERIOD OF DAILY RECORD.--

SPECIFIC CONDUCTANCE: April 1977 to September 1980.

WATER TEMPERATURES: April 1977 to September 1980.

INSTRUMENTATION.--Water-quality monitor April 1977 to September 1980.

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

EXTREMES FOR PERIOD OF DAILY RECORD.--

SPECIFIC CONDUCTANCE: Maximum, 97 micromhos Jan. 9, 1978; minimum, 35 micromhos Apr. 11, 1980.

WATER TEMPERATURES: Maximum, 28.5°C July 26, 1979; minimum, 0.0°C on many days during winter periods.

EXTREMES FOR CURRENT YEAR.--

SPECIFIC CONDUCTANCE: Maximum, 96 micromhos Oct. 10; minimum, 35 micromhos Apr. 11.

WATER TEMPERATURES: Maximum, 25.5°C Aug. 2, 8; minimum, 0.0°C on many days during winter period.

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

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
	OCTOBER			NOVEMBER			DECEMBER			JANUARY		
1	88	76	78	77	58	60	64	51	58	89	58	73
2	70	67	68	78	58	61	64	49	57	88	58	73
3	78	67	72	78	59	60	55	51	53	86	59	73
4	79	68	74	79	59	62	63	55	59	84	59	72
5	80	68	74	79	57	61	66	57	62	84	59	72
6	80	70	75	59	56	57	73	59	66	91	61	76
7	80	70	75	61	56	57	85	60	67	71	65	68
8	78	68	73	58	57	58	85	83	84	92	67	80
9	80	65	72	73	57	58	84	84	84	87	67	77
10	96	63	80	80	58	66	69	58	64	91	66	80
11	78	58	68	77	58	60	85	65	75	73	69	71
12	77	58	68	59	56	57	70	68	69	91	69	89
13	65	59	62	56	56	56	89	67	78	91	69	89
14	78	59	68	56	56	56	88	67	78	93	70	82
15	78	59	68	56	55	56	89	67	78	90	69	80
16	78	69	68	56	55	56	75	67	71	91	68	80
17	77	59	68	58	55	57	85	65	75	93	70	82
18	61	59	60	56	54	55	72	65	69	74	72	73
19	63	59	61	61	56	59	84	65	74	75	72	74
20	65	59	62	64	59	62	84	58	71	---	---	---
21	---	---	---	72	62	67	84	54	69	---	---	---
22	---	---	---	85	61	73	84	68	76	---	---	---
23	---	---	---	85	64	75	80	69	75	---	---	---
24	---	---	---	89	85	87	74	68	71	---	---	---
25	---	---	---	90	54	72	75	68	72	---	---	---
26	77	60	64	61	59	60	68	67	68	---	---	---
27	78	59	62	63	60	62	85	67	76	---	---	---
28	78	58	62	---	---	---	91	66	79	77	75	76
29	58	57	58	---	---	---	85	65	75	76	75	76
30	59	58	58	---	---	---	91	62	77	---	---	---
31	80	58	64	---	---	---	89	59	74	---	---	---
MONTH	96	57	68	90	54	62	91	49	71	93	58	77

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

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
FEBRUARY			MARCH			APRIL			MAY			
1	75	72	74	64	62	63	63	59	61	---	---	---
2	75	73	74	65	63	64	60	57	59	---	---	---
3	75	73	74	66	63	65	57	55	56	---	---	---
4	74	73	74	67	66	67	55	51	53	---	---	---
5	74	72	73	68	67	68	51	47	49	44	44	44
6	75	71	72	70	67	69	48	44	46	46	45	45
7	74	70	72	70	68	69	45	39	42	49	46	48
8	74	70	72	70	70	70	40	37	38	50	49	50
9	73	69	72	71	69	70	38	36	37	50	48	49
10	73	70	72	72	69	71	40	36	37	50	49	50
11	73	69	71	72	71	72	39	35	36	52	50	51
12	72	69	71	73	73	73	---	---	---	60	50	53
13	72	70	71	73	70	72	---	---	---	53	51	52
14	72	69	71	74	72	73	---	---	---	55	53	54
15	71	70	71	74	72	73	---	---	---	56	54	56
16	71	70	70	74	71	73	---	---	---	56	53	54
17	70	69	70	74	71	73	---	---	---	55	54	54
18	70	68	69	83	73	77	---	---	---	57	54	55
19	68	66	67	84	77	79	---	---	---	58	57	58
20	67	65	66	77	73	75	---	---	---	59	57	58
21	66	64	65	76	72	75	---	---	---	57	55	56
22	65	63	64	79	74	77	---	---	---	57	55	56
23	65	61	63	79	74	77	---	---	---	60	58	59
24	64	61	63	76	69	72	---	---	---	61	60	60
25	62	61	61	69	64	66	---	---	---	62	61	61
26	62	60	61	65	63	64	---	---	---	64	63	63
27	62	58	60	64	61	63	---	---	---	68	65	66
28	61	59	60	65	59	63	---	---	---	69	67	68
29	63	61	62	67	63	65	---	---	---	69	66	68
30	---	---	---	66	62	64	---	---	---	68	66	68
31	---	---	---	64	61	62	---	---	---	69	67	67
MONTH	75	58	68	84	59	70	63	35	47	69	44	56

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
JUNE			JULY			AUGUST			SEPTEMBER			
1	70	67	68	67	64	65	69	67	68	79	76	77
2	69	66	68	67	64	65	71	68	69	79	77	78
3	69	67	68	67	63	65	70	69	69	78	75	76
4	68	66	66	67	63	65	70	68	69	7	71	75
5	67	63	65	67	64	66	70	67	69	71	69	70
6	66	62	64	66	63	64	72	68	70	71	68	70
7	65	62	64	64	62	63	74	71	73	73	70	72
8	64	63	63	63	59	60	75	73	74	73	72	72
9	63	61	62	60	59	59	74	71	72	76	72	74
10	61	60	60	61	58	60	73	70	72	76	73	74
11	60	59	59	62	59	60	74	70	72	75	73	74
12	60	59	59	61	60	60	72	72	72	74	72	73
13	63	59	61	60	59	60	73	71	72	76	72	74
14	63	60	61	59	58	58	74	70	72	76	74	75
15	61	59	60	59	57	58	74	72	73	75	73	74
16	61	60	61	58	56	57	72	71	71	74	71	73
17	63	60	62	57	55	56	73	69	71	73	71	72
18	64	62	63	58	55	57	71	68	69	71	68	69
19	66	62	64	57	55	56	72	68	70	68	67	68
20	66	63	64	57	55	56	73	69	71	70	67	68
21	65	63	64	57	55	56	74	71	72	69	66	67
22	66	63	64	58	56	57	76	72	74	68	66	67
23	67	64	65	59	57	58	77	73	75	69	67	68
24	67	65	66	62	58	60	79	75	77	66	61	64
25	68	64	66	67	56	66	79	76	78	63	59	61
26	66	64	65	65	59	62	81	77	80	62	60	61
27	65	63	64	60	58	59	80	78	79	61	60	61
28	64	62	63	64	60	62	79	77	78	62	60	61
29	66	63	65	66	63	65	78	75	77	62	59	60
30	65	63	65	67	65	66	78	74	76	63	60	61
31	---	---	---	68	66	67	78	76	77	---	---	---
MONTH	70	59	64	68	55	61	81	67	73	79	59	70
YEAR	96	35	66									

01012500 ST. JOHN RIVER ABOVE FISH RIVER, AT FORT KENT, ME--Continued

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

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
OCTOBER			NOVEMBER			DECEMBER			JANUARY			
1	13.0	11.5	12.0	6.0	5.0	5.5	.0	.0	.0	.0	.0	.0
2	14.5	12.5	13.5	6.0	5.5	6.0	.0	.0	.0	.0	.0	.0
3	12.5	11.5	12.0	6.5	5.5	6.0	.0	.0	.0	.0	.0	.0
4	12.5	11.0	12.0	6.0	5.0	5.5	.0	.0	.0	.0	.0	.0
5	13.5	12.0	12.5	5.5	4.0	5.0	.0	.0	.0	.0	.0	.0
6	13.5	11.0	12.0	5.0	4.5	5.0	.0	.0	.0	.0	.0	.0
7	13.5	11.0	12.0	5.0	4.5	4.5	.0	.0	.0	.0	.0	.0
8	12.0	9.5	11.0	5.0	4.5	5.0	.0	.0	.0	.0	.0	.0
9	9.0	7.5	8.0	5.0	4.5	4.5	.0	.0	.0	.0	.0	.0
10	7.5	6.5	7.0	5.5	4.5	5.0	.0	.0	.0	.0	.0	.0
11	7.5	6.5	7.0	5.5	4.5	5.0	.0	.0	.0	.0	.0	.0
12	7.0	6.5	6.5	4.5	4.0	4.5	.0	.0	.0	.0	.0	.0
13	6.5	6.0	6.0	4.5	3.5	4.0	.0	.0	.0	.0	.0	.0
14	6.5	5.5	6.0	4.0	3.5	4.0	.0	.0	.0	.0	.0	.0
15	6.0	5.0	5.5	3.5	2.5	3.0	.0	.0	.0	.0	.0	.0
16	5.5	3.0	4.5	2.5	1.5	2.0	.0	.0	.0	.0	.0	.0
17	6.0	3.0	4.5	1.0	.5	1.0	.0	.0	.0	.0	.0	.0
18	7.0	5.5	6.5	.5	.0	.5	.0	.0	.0	.0	.0	.0
19	7.0	5.5	6.5	.5	.0	.5	.0	.0	.0	.0	.0	.0
20	7.5	6.5	7.0	.5	.0	.5	.0	.0	.0	.0	.0	.0
21	---	---	---	.5	.5	.5	.0	.0	.0	.0	.0	.0
22	---	---	---	.5	.0	.5	.0	.0	.0	.0	.0	.0
23	---	---	---	.5	.0	.5	.0	.0	.0	.0	.0	.0
24	---	---	---	2.0	1.0	1.5	.0	.0	.0	.0	.0	.0
25	---	---	---	2.5	2.0	2.0	.0	.0	.0	.0	.0	.0
26	9.0	7.0	8.0	4.0	.0	2.0	.0	.0	.0	.0	.0	.0
27	7.5	6.5	7.0	4.0	.0	2.0	.0	.0	.0	.0	.0	.0
28	6.5	6.0	6.5	3.5	2.5	2.5	.0	.0	.0	.0	.0	.0
29	6.5	6.0	6.0	2.5	1.0	2.0	.0	.0	.0	.0	.0	.0
30	6.0	6.0	6.0	1.0	.0	1.0	.0	.0	.0	.0	.0	.0
31	6.0	5.5	6.0	---	---	---	.0	.0	.0	.0	.0	.0
MONTH	14.5	3.0	8.0	6.5	.0	3.0	.0	.0	.0	.0	.0	.0

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
FEBRUARY			MARCH			APRIL			MAY			
1	.0	.0	.0	.0	.0	.0	.0	.0	.0	7.5	5.5	6.5
2	.0	.0	.0	.0	.0	.0	.0	.0	.0	8.5	6.5	7.5
3	.0	.0	.0	.0	.0	.0	.0	.0	.0	9.0	7.0	8.0
4	.0	.0	.0	.0	.0	.0	.0	.0	.0	8.5	7.5	8.0
5	.0	.0	.0	.0	.0	.0	.0	.0	.0	8.0	6.5	7.5
6	.0	.0	.0	.0	.0	.0	.0	.0	.0	8.0	7.0	7.5
7	.0	.0	.0	.0	.0	.0	.0	.0	.0	7.5	7.0	7.0
8	.0	.0	.0	.0	.0	.0	.0	.0	.0	7.0	6.0	6.5
9	.0	.0	.0	.0	.0	.0	.0	.0	.0	7.0	6.0	6.5
10	.0	.0	.0	.0	.0	.0	.0	.0	.0	8.0	6.5	7.5
11	.0	.0	.0	.0	.0	.0	.0	.0	.0	9.5	7.0	8.5
12	.0	.0	.0	.0	.0	.0	.5	.0	.0	11.0	9.0	10.0
13	.0	.0	.0	.0	.0	.0	.5	.0	.5	11.0	10.0	10.5
14	.0	.0	.0	.0	.0	.0	1.0	.0	.5	10.5	9.5	10.0
15	.0	.0	.0	.0	.0	.0	1.0	.5	.5	10.0	8.5	9.5
16	.0	.0	.0	.0	.0	.0	1.0	.5	1.0	11.0	9.0	10.0
17	.0	.0	.0	.0	.0	.0	2.0	.5	1.0	12.0	9.5	11.0
18	.0	.0	.0	.0	.0	.0	2.0	1.5	1.5	11.5	11.0	11.5
19	.0	.0	.0	.0	.0	.0	3.5	1.5	2.5	12.5	11.0	12.0
20	.0	.0	.0	.0	.0	.0	3.5	2.5	3.0	13.5	11.0	12.5
21	.0	.0	.0	.0	.0	.0	3.0	2.5	3.0	14.5	12.0	13.0
22	.0	.0	.0	.0	.0	.0	2.5	1.5	2.0	15.0	13.5	14.0
23	.0	.0	.0	.0	.0	.0	3.0	2.0	2.5	15.0	13.5	14.5
24	.0	.0	.0	.0	.0	.0	4.0	2.5	3.5	15.0	13.5	14.0
25	.0	.0	.0	.0	.0	.0	4.5	3.5	4.0	14.0	12.5	13.5
26	.0	.0	.0	.0	.0	.0	4.5	4.0	4.5	12.5	11.5	12.0
27	.0	.0	.0	.0	.0	.0	4.5	4.0	4.5	12.0	11.0	11.5
28	.0	.0	.0	.0	.0	.0	6.0	4.0	5.0	12.0	10.5	11.5
29	.0	.0	.0	.0	.0	.0	7.0	5.0	6.0	13.5	10.5	12.0
30	---	---	---	.0	.0	.0	6.5	6.0	6.0	16.0	12.0	14.0
31	---	---	---	.0	.0	.0	---	---	---	16.0	14.5	15.0
MONTH	.0	.0	.0	.0	.0	.0	7.0	.0	1.5	16.0	5.5	10.5

01013500 FISH RIVER NEAR FORT KENT, ME

LOCATION.--Lat 47°14'14", long 68°34'56", Aroostook County, Hydrologic Unit 01010003, on right bank 300 ft (91 m) upstream from highway bridge at Fort Kent Mills, 2 mi (3 km) upstream from mouth, and 2 mi (3 km) south of Fort Kent.

DRAINAGE AREA.--871 mi² (2,256 km²).

PERIOD OF RECORD.--July 1903 to December 1908 and May to November 1911 (published as "at Wallagrass"), September 1929 to current year.

REVISED RECORDS.--WSP 1001: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 511.38 ft (155.869 m) National Geodetic Vertical Datum of 1929. July 1903 to December 1908 and May to November 1911, nonrecording gage at site 10 mi (16 km) upstream at different datum.

REMARKS.--Records good except those for winter period and period of no gage-height record Oct. 23 to Dec. 13, which are fair. Large lake area above station has not yet been developed for storage. Several observations of water temperature and specific conductance were made during the year.

AVERAGE DISCHARGE.--56 years (water years 1904-08, 1930-80), 1,398 ft³/s (39.59 m³/s), 21.80 in/yr (554 mm/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 15,800 ft³/s (447 m³/s) Apr. 30, 1973, gage height, 12.43 ft (3.789 m); minimum, 34 ft³/s (0.963 m³/s) Aug. 29, 1968.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 5,610 ft³/s (159 m³/s) Apr. 16, gage height, 7.29 ft (2.222 m); minimum discharge, 192 ft³/s (5.44 m³/s) Sept. 12-14, 20, gage height, 2.42 ft (0.738 m).

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1040	915	1380	655	445	280	625	3290	1280	491	560	289
2	997	900	1400	640	440	280	670	3210	1220	494	556	306
3	965	880	1360	625	425	280	700	3170	1170	476	561	295
4	933	860	1320	620	415	275	781	3180	1120	450	585	279
5	992	840	1280	605	400	275	857	3120	1050	433	585	278
6	949	825	1250	585	390	275	919	3040	1010	439	580	273
7	918	815	1220	570	380	270	976	2930	967	439	576	254
8	895	800	1180	555	370	270	1090	2860	937	447	565	241
9	895	795	1140	540	360	270	1370	2870	889	453	566	233
10	872	790	1100	535	355	270	1660	2800	850	450	485	228
11	850	790	1080	530	345	270	2260	2700	802	457	482	218
12	825	800	1040	525	340	270	2940	2620	750	500	473	203
13	833	810	995	520	335	270	3960	2550	713	543	476	195
14	817	825	960	525	330	270	4970	2440	682	545	463	204
15	801	825	940	525	320	265	5660	2400	651	543	503	208
16	777	815	920	535	320	265	5560	2400	658	532	511	201
17	762	800	900	545	315	270	5380	2420	645	522	501	206
18	739	785	865	550	310	270	5130	2470	622	511	491	208
19	724	775	850	555	305	270	4930	2480	586	497	485	196
20	724	760	820	545	305	275	4610	2420	568	530	467	198
21	716	755	795	540	305	280	4510	2300	572	539	448	272
22	709	740	765	540	300	285	4650	2170	613	533	430	362
23	700	740	740	535	295	295	4750	2060	599	548	407	419
24	695	740	725	520	295	315	4630	1940	581	576	386	437
25	700	745	725	515	295	345	4470	1820	561	581	374	449
26	750	760	740	505	290	380	4290	1730	565	571	364	480
27	800	800	745	495	290	400	4090	1640	582	565	347	525
28	870	885	730	585	285	440	3870	1560	540	567	330	523
29	925	1050	710	575	285	460	3680	1480	526	560	314	519
30	940	1300	695	465	---	520	3480	1410	507	573	301	523
31	930	---	675	455	---	570	---	1350	---	579	295	---
TOTAL	25953	24920	30045	17015	9845	9735	97268	74830	22816	15944	14447	9222
MEAN	837	831	969	549	339	314	3242	2414	761	514	466	307
MAX	1040	1300	1400	655	445	570	5560	3290	1280	581	585	525
MIN	695	740	675	455	285	265	625	1350	507	433	295	195
CFSM	.96	.95	1.11	.63	.39	.36	3.72	2.77	.87	.59	.54	.35
IN.	1.11	1.06	1.28	.73	.42	.42	4.15	3.20	.97	.68	.62	.39
CAL YR 1979 TOTAL	633324			MEAN 1735	MAX 12800	MIN 120	CFSM 1.99	IN 27.05				
WTR YR 1980 TOTAL	352040			MEAN 962	MAX 5560	MIN 195	CFSM 1.10	IN 15.04				

01014000 ST. JOHN RIVER BELOW FISH RIVER, AT FORT KENT, ME
(International gaging station)

LOCATION.--Lat 47°15'27", long 68°35'35", Aroostook County, Hydrologic Unit 01010001, on right bank at Fort Kent and 0.2 mi (0.3 km) downstream from Fish River.

DRAINAGE AREA.--5,690 mi² (14,740 km²), approximately, not including 249 mi² (645 km²) drained by Chamberlain Lake through Telos Canal.

PERIOD OF RECORD.--October 1926 to current year. Prior to October 1931, published as "at Fort Kent."

GAGE.--Water-stage recorder. Datum of gage is 488.9 ft (149.02 m) National Geodetic Vertical Datum of 1929. Prior to Oct. 10, 1933, nonrecording gage on opposite bank at same datum.

REMARKS.--Records good except those for winter period, which are fair. Several observations of water temperature and specific conductance were made during the year.

COOPERATION.--This station is maintained by the United States under agreement with Canada.

AVERAGE DISCHARGE.--54 years, 9,647 ft³/s (273 m³/s), 23.02 in/yr (585 mm/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 151,000 ft³/s (4,280 m³/s) Apr. 30, 1979, gage height, 27.31 ft (8.324 m); minimum daily, 510 ft³/2 (14.4 m³/s) Mar. 13-15, 1948.

EXTREMES FOR CURRENT YEAR.--Peak discharges above base of 45,000 ft³/s (1,300 m³/s) and maximums (*):

Date	Time	Discharge (ft ³ /s) (m ³ /s)	Gage height (ft) (m)	Date	Time	Discharge (ft ³ /s) (m ³ /s)	Gage height (ft) (m)
Apr. 12	0415	ice jam	*16.95 5.166	Apr. 16	1700	*56,000 1,590	16.40 4.999

Minimum discharge not determined, occurred during period of backwater from ice; minimum daily discharge, 1,010 ft³/s (28.6 m³/s) Mar. 4, 5.

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	4850	6600	11900	4550	1850	1030	4300	26600	5780	3850	4710	2390
2	4640	6550	9900	4000	1800	1020	4350	25200	5540	3490	4450	2780
3	4500	6460	9580	3500	1700	1020	5100	23500	5320	3760	4240	3460
4	4350	6940	7100	3200	1650	1010	6000	21400	5240	3120	5300	6380
5	4220	8100	6830	2950	1600	1010	7100	19300	5150	2890	6010	6770
6	4280	8530	7010	2800	1580	1020	7900	17300	5010	3110	5200	6000
7	4450	7970	7270	2650	1530	1020	8300	15900	4920	4840	4950	5050
8	5050	7290	7010	2500	1510	1020	8500	15800	4800	7210	4990	4430
9	6440	6780	5300	2400	1480	1030	8500	17000	4860	7190	4960	3940
10	9790	6640	4790	2350	1440	1040	8900	17100	5900	6000	4770	3520
11	9760	7290	4260	2350	1400	1070	11500	16000	6670	5150	4290	3160
12	8400	9870	3930	2450	1380	1100	17500	14800	6310	5080	4100	2940
13	7390	9840	3700	2550	1350	1110	25000	13800	5570	6130	4090	2730
14	6830	8760	3550	2700	1320	1130	34500	13800	4870	8560	4060	2690
15	6670	7920	3500	2850	1280	1150	44000	14800	4340	9420	4400	3090
16	6710	7290	4100	3050	1250	1180	54800	14400	4130	8210	5580	3280
17	6270	6710	3950	3250	1220	1200	49600	13700	3970	6970	6690	3960
18	5820	6080	3650	3400	1200	1300	39300	12400	3810	6510	7400	4260
19	5400	5230	3250	3400	1180	1450	31500	11800	3630	6610	6530	3850
20	5130	4610	3200	3300	1160	1750	26500	12700	3440	6480	5480	3650
21	4960	5190	3000	3150	1150	1950	25200	14500	3410	6620	4670	4420
22	5000	5700	2900	2950	1130	2150	23700	13300	3680	6720	4090	6780
23	5280	5720	2800	2800	1110	2300	22100	11800	4050	6290	3640	10400
24	5150	6270	2750	2650	1100	2450	21000	10600	4430	7050	3270	11600
25	5420	7340	2700	2550	1080	2550	21800	9560	4390	7470	2960	10100
26	7920	8750	2650	2400	1070	2700	23700	8710	3990	8530	2760	8400
27	9470	10100	2600	2300	1060	2900	26000	8010	4070	7180	2640	7480
28	8680	13800	2700	2200	1050	3100	29500	7440	4330	5870	2810	7870
29	7750	15400	4400	2100	1040	3300	30800	6920	4140	5300	2710	8070
30	7060	13800	5100	2000	---	3500	28800	6450	4090	5090	2540	7230
31	6730	---	4950	1900	---	3550	---	6070	---	4840	2400	---
TOTAL	194370	237540	149430	87200	38670	53110	655750	441060	139840	185040	136690	161080
MEAN	6270	7918	4820	2813	1333	1713	21860	14230	4661	5969	4409	5369
MAX	9790	15400	11900	4550	1850	3550	54800	26600	6670	9420	7400	11600
MIN	4220	4610	2600	1900	1040	1010	4300	6070	3410	2890	2400	2390
CFSM	1.10	1.39	.85	.49	.23	.30	3.84	2.50	.82	1.05	.78	.94
IN.	1.27	1.55	.94	.57	.25	.35	4.29	2.88	.91	1.21	.89	1.05

CAL YR 1979 TOTAL 4433010 MEAN 12150 MAX 146000 MIN 1400 CFSM 2.14 IN 28.98
WTR YR 1980 TOTAL 2479780 MEAN 6775 MAX 54800 MIN 1010 CFSM 1.19 IN 16.21

01015000 ST. JOHN RIVER AT VAN BUREN, ME
(National stream-quality accounting network station)

LOCATION.--Lat 47°09'35", long 67°55'55", Aroostook County, Hydrologic Unit 01010001, on left bank 1,000 ft (305 m) downstream from International Bridge at Van Buren.

DRAINAGE AREA.--8,270 mi² (21,419 km²).

PERIOD OF RECORD.--Water years 1978 to current year.

PERIOD OF DAILY RECORD.--

SPECIFIC CONDUCTANCE: November 1978 to current year.

WATER TEMPERATURES: November 1978 to current year.

INSTRUMENTATION.--Water-quality monitor since November 1978.

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

EXTREMES FOR PERIOD OF DAILY RECORD.--

SPECIFIC CONDUCTANCE: Maximum, 140 micromhos Mar. 7, 1979; minimum, 39 micromhos Mar. 10, 1979.

WATER TEMPERATURES: Maximum, 27.0°C July 28, Aug. 5, 1979; minimum, 0.0°C on many days during winter periods.

EXTREMES FOR CURRENT YEAR.--

SPECIFIC CONDUCTANCE: Maximum, 124 micromhos Jan. 14; minimum, 60 micromhos May 1.

WATER TEMPERATURES: Maximum, 22.0°C June 26, 27; minimum, 0.0°C on many days during winter period.

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

DATE	TIME	STREAM- FLOW (CFS)	SPE- CIFIC CON- DUCT- ANCE (MICRO- MHOS)	PH FIELD (UNITS)	TEMPER- ATURE, AIR (DEG C)	TEMPER- ATURE, WATER (DEG C)	TUR- BID- ITY (NTU)	OXYGEN, DIS- SOLVED (MG/L)	OXYGEN, DIS- SOLVED (PER- CENT SATUR- ATION)	COLI- FORM, FECAL, 0.7 UM-MF (COLS./ 100 ML)	STREP- TOCOCCI KF AGAR (COLS. PER 100 ML)	HARD- NESS (MG/L AS CACO3)
OCT 31...	0830	9780	86	7.0	8.0	5.0	1.0	9.9	79	560	160	32
NOV 21...	0915	7540	98	6.8	2.0	.0	1.0	13.4	93	420	22	37
DEC 12...	1100	5710	108	7.0	1.0	.0	1.0	13.9	97	480	140	40
JAN 29...	1245	3050	140	6.7	-5.0	.0	.60	12.4	86	110	220	53
FEB 26...	1200	1560	185	6.6	-6.0	.0	1.0	11.8	82	120	23	56
APR 02...	1000	6320	104	6.7	7.0	.0	.20	11.7	81	K360	29	44
30...	0900	41900	62	6.9	8.5	5.5	3.6	11.8	95	120	K14	29
MAY 20...	0900	18500	85	7.2	23.0	11.0	.35	10.4	96	270	K18	38
JUN 25...	1030	6380	98	7.1	28.5	21.0	.50	8.0	91	44	K2	40
JUL 30...	1000	7400	90	7.1	22.5	20.5	1.9	7.4	83	K500	K18	41
SEP 03...	1000	5030	109	7.5	21.0	19.0	.40	8.2	89	225	K22	55
23...	0915	15700	95	7.1	16.0	12.0	.90	9.3	88	200	260	41

DATE	HARD- NESS, NONCAR- BONATE (MG/L CACO3)	CALCIUM DIS- SOLVED (MG/L AS CA)	MAGNE- SIUM, DIS- SOLVED (MG/L AS MG)	SODIUM, DIS- SOLVED (MG/L AS NA)	SODIUM PERCENT	SODIUM AD- SORP- TION RATIO	POTAS- SIUM, DIS- SOLVED (MG/L AS NA)	POTAS- SIUM, DIS- SOLVED (MG/L AS K)	ALKA- LINITY (MG/L AS CACO3)	SULFATE DIS- SOLVED (MG/L AS SO4)	CHLO- RIDE, DIS- SOLVED (MG/L AS CL)	FLUO- RIDE, DIS- SOLVED (MG/L AS F)
OCT 31...	13	10	1.8	2.1	12	.2	2.5	.4	19	7.7	2.8	.0
NOV 21...	6	12	1.8	2.3	14	.2	2.7	.4	31	8.3	2.7	.0
DEC 12...	11	13	1.9	2.2	13	.2	2.6	.4	29	8.4	2.3	.0
JAN 29...	22	15	3.8	3.4	12	.2	4.0	.6	31	16	5.1	.1
FEB 26...	20	17	3.3	5.1	16	.3	5.7	.6	36	16	7.1	.1
APR 02...	12	14	2.2	3.3	14	.2	3.9	.6	32	10	5.2	.1
30...	6	9.5	1.2	1.3	9	.1	--	.4	23	5.4	1.7	.0
MAY 20...	12	12	1.9	1.9	10	.1	--	.4	26	7.2	2.2	.1
JUN 25...	4	13	1.9	2.9	13	.2	--	.5	36	7.8	3.4	.1
JUL 30...	7	13	2.0	2.5	12	.2	--	.4	34	9.6	2.7	.0
SEP 03...	12	18	2.5	2.2	8	.1	--	.5	43	6.6	2.2	.1
23...	16	13	2.0	2.4	11	.2	--	.5	25	4.3	3.0	.1

01015000 ST. JOHN RIVER AT VAN BUREN, ME--Continued

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

DATE	SILICA, DIS- SOLVED (MG/L AS SiO2)	SOLIDS, RESIDUE AT 180 DEG. C DIS- SOLVED (MG/L)	SOLIDS, SUM OF CONSTITUENTS, DIS- SOLVED (MG/L)	SOLIDS, DIS- SOLVED (TONS PER AC-FT)	SOLIDS, DIS- SOLVED (TONS PER DAY)	NITRO- GEN, NO2+NO3 TOTAL (MG/L AS N)	NITRO- GEN, NO2+NO3 DIS- SOLVED (MG/L AS N)	NITRO- GEN, AMMONIA TOTAL (MG/L AS N)	NITRO- GEN, AMMONIA DIS- SOLVED (MG/L AS N)	NITRO- GEN, AMMONIA TOTAL (MG/L AS NH4)	NITRO- GEN, AMMONIA DIS- SOLVED (MG/L AS NH4)	NITRO- GEN, ORGANIC TOTAL (MG/L AS N)
OCT 31...	4.0	67	41	.09	1770	.11	.12	.000	.020	.00	.03	.86
NOV 21...	4.1	65	51	.09	1320	.38	.21	.010	.000	.01	.00	.37
DEC 12...	4.2	74	51	.10	1140	.23	.22	.030	.040	.04	.05	.36
JAN 29...	4.4	103	68	.14	848	.18	.21	.070	.020	.08	.03	.35
FEB 26...	4.4	118	77	.16	497	.15	.25	.000	.040	.00	.05	.42
APR 02...	4.0	82	61	.11	1400	.39	.42	.000	.000	.00	.00	.45
30...	3.4	50	38	.07	5660	.22	.28	.060	.040	.07	.05	.22
MAY 20...	3.1	52	45	.07	2600	.19	.20	.000	.030	.00	.04	.40
JUN 25...	2.4	76	55	.10	1310	.05	.22	.030	.120	.04	.15	.28
JUL 30...	3.2	90	54	.12	1800	.06	.06	.030	.000	.04	.00	.09
SEP 03...	2.4	76	62	.10	1030	.08	.28	.050	.010	.06	.01	.20
23...	3.3	71	44	.10	3010	.14	.09	.020	.010	.02	.01	.25
DATE	NITRO- GEN, ORGANIC DIS- SOLVED (MG/L AS N)	NITRO- GEN,AM- MONIA + ORGANIC TOTAL (MG/L AS N)	NITRO- GEN,NH4 + ORG. SUSP. TOTAL (MG/L AS N)	NITRO- GEN,AM- MONIA + ORGANIC DIS. (MG/L AS N)	NITRO- GEN, TOTAL (MG/L AS N)	NITRO- GEN, DIS- SOLVED (MG/L AS N)	NITRO- GEN, TOTAL (MG/L AS NO3)	PHOS- PHORUS, TOTAL (MG/L AS P)	PHOS- PHORUS, TOTAL (MG/L AS PO4)	PHOS- PHORUS, DIS- SOLVED (MG/L AS P)	ARSENIC TOTAL (UG/L AS AS)	ARSENIC SUS- PENDED TOTAL (UG/L AS AS)
OCT 31...	1.1	.86	.00	1.1	.97	1.2	4.3	.020	.06	.060	--	--
NOV 21...	.25	.38	.13	.25	.76	.46	3.4	.010	.03	.010	3	1
DEC 12...	.30	.39	.05	.34	.62	.56	2.7	.010	.03	.010	--	--
JAN 29...	.48	.42	.00	.50	.60	.71	2.7	.020	.06	.030	--	--
FEB 26...	.29	.42	.09	.33	.57	.58	2.5	.020	.06	.010	0	0
APR 02...	.22	.45	.23	.22	.84	.64	3.7	.020	.06	.010	--	--
30...	.24	.28	.00	.28	.50	.56	2.2	.020	.06	.010	--	--
MAY 20...	.31	.40	.06	.34	.59	.54	2.6	.010	.03	.010	0	0
JUN 25...	.06	.31	.13	.18	.36	.40	1.6	.020	.06	.000	--	--
JUL 30...	.21	.12	.00	.21	.18	.27	.80	.060	.18	.010	--	--
SEP 03...	.12	.25	.12	.13	.33	.41	1.5	.030	.09	.010	1	1
23...	.26	.27	.00	.27	.41	.36	1.8	.020	.06	.010	--	--

01015000 ST. JOHN RIVER AT VAN BUREN, ME--Continued

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

[illegible][illegible]

01015000 ST. JOHN RIVER AT VAN BUREN, ME--Continued

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

DATE	MANGANESE, DIS- SOLVED (UG/L AS MN)	MERCURY TOTAL RECOV- ERABLE (UG/L AS HG)	MERCURY SUS- PENDED RECOV- ERABLE (UG/L AS HG)	MERCURY DIS- SOLVED (UG/L AS HG)	NICKEL, TOTAL RECOV- ERABLE (UG/L AS NI)	NICKEL, SUS- PENDED RECOV- ERABLE (UG/L AS NI)	NICKEL, DIS- SOLVED (UG/L AS NI)	SELE- NIUM, TOTAL RECOV- ERABLE (UG/L AS SE)	SELE- NIUM, SUS- PENDED RECOV- ERABLE (UG/L AS SE)	SELE- NIUM, DIS- SOLVED (UG/L AS SE)	SILVER, TOTAL RECOV- ERABLE (UG/L AS AG)
OCT 31...	--	--	--	--	--	--	--	--	--	--	--
NOV 21...	20	.3	.2	.1	1	0	1	0	0	0	0
DEC 12...	--	--	--	--	--	--	--	--	--	--	0
JAN 29...	--	--	--	--	--	--	--	--	--	--	--
FEB 26...	70	.2	.1	.1	2	2	0	0	0	0	0
APR 02...	--	--	--	--	--	--	--	--	--	--	0
30...	--	--	--	--	--	--	--	--	--	--	--
MAY 20...	20	.2	.0	.2	0	0	0	0	0	0	0
JUN 25...	--	--	--	--	--	--	--	--	--	--	0
JUL 30...	--	--	--	--	--	--	--	--	--	--	--
SEP 03...	20	.1	.0	.1	3	2	1	0	0	0	0
23...	--	--	--	--	--	--	--	--	--	--	0

DATE	SILVER, SUS- PENDED RECOV- ERABLE (UG/L AS AG)	SILVER, DIS- SOLVED (UG/L AS AG)	ZINC, TOTAL RECOV- ERABLE (UG/L AS ZN)	ZINC, SUS- PENDED RECOV- ERABLE (UG/L AS ZN)	ZINC, DIS- SOLVED (UG/L AS ZN)	CARBON, ORGANIC TOTAL (MG/L AS C)	CARBON, ORGANIC DIS- SOLVED (MG/L AS C)	CARBON, ORGANIC SUS- PENDED (MG/L AS C)	SEDI- MENT, SUS- PENDED (MG/L)	SEDI- MENT DIS- CHARGE, SUS- PENDED (T/DAY)	SED. SUSP. SIEVE DIAM. % FINER THAN .062 MM
OCT 31...	--	--	--	--	--	15	--	--	7	185	58
NOV 21...	0	0	20	0	20	--	692	.4	9	183	59
DEC 12...	--	--	--	--	--	--	--	--	11	170	100
JAN 29...	--	--	--	--	--	27	--	--	5	41	72
FEB 26...	0	0	130	80	50	--	26	.6	6	25	76
APR 02...	--	--	--	--	--	8.2	--	--	9	154	86
30...	--	--	--	--	--	7.0	--	--	22	2490	64
MAY 20...	0	0	10	2	8	--	590	.1	8	400	63
JUN 25...	--	--	--	--	--	5.0	--	--	5	86	100
JUL 30...	--	--	--	--	--	11	--	--	16	320	100
SEP 03...	0	0	50	50	0	--	5.5	.5	5	68	100
23...	--	--	--	--	--	10	--	--	37	1570	91

BIOLOGICAL DATA, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

PERIPHYTON

(Sampling method - Polyethylene strip)

DATES OF EXPOSURE	LENGTH OF EXPO- SURE (DAYS)	PERI- PHYTON BIOMASS TOTAL DRY WEIGHT (G/SQ M)	PERI- PHYTON BIOMASS ASH WEIGHT (G/SQ M)	CHLOR-A PERI- PHYTON CHROMO- GRAPHIC FLUOROM. (MG/M ²)	CHLOR-B PERI- PHYTON CHROMO- GRAPHIC FLUOROM. (MG/M ²)	BIOMASS PIGMENT RATIO
SEP 03 TO SEP 23	20	4.57	3.70	7.83	1.90	111

PHYTOPLANKTON ANALYSES, OCTOBER 1979 TO SEPTEMBER 1980

DATE TIME	NOV 21,79 0915	APR 2,80 1000	MAY 20,80 0900	JUN 25,80 1030
TOTAL CELLS/ML	1500	3700	360	7400
DIVERSITY: DIVISION	1.3	0.2	1.6	0.6
..CLASS	1.3	0.2	1.6	0.6
..ORDER	1.4	0.2	2.0	1.5
...FAMILY	1.9	0.2	2.3	1.6
....GENUS	2.3	0.2	2.4	1.6

ORGANISM	CELLS /ML	PER- CENT	CELLS /ML	PER- CENT	CELLS /ML	PER- CENT	CELLS /ML	PER- CENT
CHLOROPHYTA (GREEN ALGAE)								
..CHLOROPHYCEAE								
...CHLOROCOCCALES								
....COELASTRACEAE								
.....COELASTRUM	--	-	--	-	90# 25	--	-	
....MICRACTINIACEAE								
.....GOLENKINIA	--	-	--	-	--	-	--	-
....MICRACTINIUM	--	-	--	-	--	-	--	-
....OOCYSTACEAE								
.....ANKISTRODESMUS	76	5	--	-	--	-	*	0
....CHLORELLA	81	6	--	-	--	-	--	-
....CHODATELLA	*	0	*	0	--	-	--	-
....DICTYOSPHAERIUM	--	-	--	-	--	-	--	-
....OOCYSTIS	--	-	--	-	--	-	--	-
....SCENEDESMACEAE								
.....CRUCIGENIA	--	-	--	-	--	-	--	-
....SCENEDESMUS	--	-	--	-	--	-	310	4
..VOLVOCELES								
...CHLAMYDOMONADACEAE								
....CHLAMYDOMONAS	--	-	--	-	13	4	65	1
...VOLVOCEAE								
....PANDORINA	--	-	--	-	--	-	210	3
...ZYGNEMATALES								
....DESMIDIACEAE								
.....COSMARIUM	--	-	--	-	--	-	--	-
....SPONDYLIOSIUM	--	-	--	-	--	-	65	1
...ZYGNEMATAACEAE								
....MOUGEOTIA	--	-	--	-	--	-	--	-
CHRYSTOPHYTA								
..BACILLARIOPHYCEAE								
...CENTRALES								
....COSCINODISCEACEAE								
.....CYCLOTELLA	10	1	*	0	39	11	65	1
....MELOSIRA	66	4	--	-	26	7	*	0
..PENNALES								
....ACHNANTHACEAE								
.....ACHNANTHES	60	4	--	-	--	-	*	0
....CYMBELLACEAE								
.....CYMBELLA	15	1	--	-	--	-	--	-
....DIATOMACEAE								
.....DIATOMA	*	0	64	2	13	4	--	-
....FRAGILARIACEAE								
.....FRAGILARIA	*	0	--	-	--	-	*	0
....SYNEDRA	66	4	--	-	26	7	52	1
...GOMPHONEMATAACEAE								
....GOMPHONEMA	*	0	--	-	--	-	--	-
....NAVICULACEAE								
.....NAVICULA	15	1	--	-	--	-	--	-
....NITZSCHACEAE								
.....NITZSCHIA	15	1	*	0	13	4	39	1
....TABELLARIACEAE								
.....TABELLARIA	76	5	--	-	--	-	--	-
..CHRYSTOPHYCEAE								
...CHRYSONOMADALES								
....OCHROMONADACEAE								
.....DINOBRYON	--	-	--	-	--	-	*	0
CYANOPHYTA (BLUE-GREEN ALGAE)								
..CYANOPHYCEAE								
...CHROOCOCCALES								
....CHROOCOCCACEAE								
.....AGMENELLUM	--	-	--	-	--	-	--	-
....ANACYSTIS	--	-	--	-	140# 39		1600# 21	
...HORMOGONALES								
....NOSTOCACEAE								
.....APHANIZOMENON	--	-	--	-	--	-	--	-
....OSCILLATORIA								
.....OSCILLATORIA	880# 60		3600# 97		--	-	4900# 67	
....SCHIZOTHRIX	81	6	--	-	--	-	--	-
EUGLENOPHYTA (EUGLENIDS)								
..EUGLENOPHYCEAE								
...EUGLENALES								
....EUGLENACEAE								
.....TRACHELOMONAS	*	0	--	-	--	-	--	-

NOTE: # - DOMINANT ORGANISM; EQUAL TO OR GREATER THAN 15%

* - OBSERVED ORGANISM, MAY NOT HAVE BEEN COUNTED; LESS THAN 1/2%

01015000 ST. JOHN RIVER AT VAN BUREN, ME--Continued

PHYTOPLANKTON ANALYSES, OCTOBER 1979 TO SEPTEMBER 1980

DATE TIME	JUL 30,80 1000	SEP 3,80 1000	SEP 23,80 0915
TOTAL CELLS/ML	2200	4100	790
DIVERSITY: DIVISION	1.5	0.5	1.3
..CLASS	1.5	0.5	1.3
...ORDER	2.1	1.4	1.5
...FAMILY	2.5	1.5	1.9
...GENUS	2.7	1.5	1.9

ORGANISM	CELLS /ML	PER- CENT	CELLS /ML	PER- CENT	CELLS /ML	PER- CENT
CHLOROPHYTA (GREEN ALGAE)						
..CHLOROPHYCEAE						
...CHLOROCOCCALES						
...COELASTRACEAE						
...COELASTRUM	--	-	--	-	--	-
...MICRACTINIACEAE						
...GOLENKINIA	--	-	* 0		--	-
...MICRACTINIUM	--	-	--	-	52	7
...OOCYSTACEAE						
...ANKISTRODESMUS	26	1	--	-	--	-
...CHLORELLA	--	-	--	-	--	-
...CHODATELLA	--	-	--	-	--	-
...DICTYOSPHAERIUM	360#	16	--	-	--	-
...OOCYSTIS	13	1	26	1	--	-
...SCENEDESMACEAE						
...CRUCIGENIA	310	14	--	-	--	-
...SCENEDESMUS	26	1	130	3	52	7
..VOLVOCALES						
...CHLAMYDOMONADACEAE						
...CHLAMYDOMONAS	13	1	--	-	--	-
...VOLVOCAEAE						
...PANDORINA	--	-	--	-	--	-
...ZYGNEMATALES						
...DESMIDIACEAE						
...COSMARIUM	13	1	--	-	--	-
...SPONDYLIOSIUM	--	-	--	-	--	-
...ZYGNEMATAEAE						
...MOUGEOTIA	--	-	39	1	--	-
CHRYSTOPHYTA						
..BACILLARIOPHYCEAE						
...CENTRALES						
...COSCINODISCACEAE						
...CYCLOTELLA	26	1	65	2	--	-
...MELOSTIRA	350#	16	26	1	--	-
..PENNALES						
...ACHNANTHACEAE						
...ACHNANTHES	--	-	--	-	--	-
...CYMBELLACEAE						
...CYMBELLA	--	-	--	-	--	-
...DIATOMACEAE						
...DIATOMA	--	-	--	-	--	-
...FRAGILARIACEAE						
...FRAGILARIA	--	-	39	1	160#	20
...SYNEDRA	--	-	--	-	--	-
...GOMPHONEMATAEAE						
...GOMPHONEMA	--	-	--	-	--	-
...NAVICULACEAE						
...NAVICULA	13	1	* 0		26	3
...NITZSCHIAEAE						
...NITZSCHIA	13	1	39	1	39	5
...TABELLARIACEAE						
...TABELLARIA	100	5	--	-	--	-
..CHRYSTOPHYCEAE						
...CHRYSONOMADALES						
...OCHROMONADACEAE						
...DINOBRYON	--	-	--	-	--	-
CYANOPHYTA (BLUE-GREEN ALGAE)						
..CYANOPHYCEAE						
...CHROOCOCCALES						
...CHROOCOCCACEAE						
...AGMENELLUM	210	9	--	-	--	-
...ANACYSTIS	--	-	2700#	65	13	2
...HORMOGONALES						
...NOSTOCACEAE						
...APHANIZOMENON	720#	33	--	-	--	-
...OSCILLATORIACEAE						
...OSCILLATORIA	--	-	1000#	25	450#	57
...SCHIZOTHRIX	--	-	--	-	--	-
EUGLENOPHYTA (EUGLENOIDS)						
..EUGLENOPHYCEAE						
...EUGLENALES						
...EUGLENACEAE						
...TRACHELOMONAS	--	-	--	-	--	-

NOTE: # - DOMINANT ORGANISM; EQUAL TO OR GREATER THAN 15%

* - OBSERVED ORGANISM, MAY NOT HAVE BEEN COUNTED; LESS THAN 1/2%

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

[illegible]

01015000 ST. JOHN RIVER AT VAN BUREN, ME--Continued

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

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
	JUNE			JULY			AUGUST			SEPTEMBER		
1	86	84	85	84	83	84						
2	88	86	87	---	---	---						
3	91	86	87	---	---	---						
4	90	87	88	---	---	---						
5	91	88	89	---	---	---						
6	90	86	88	---	---	---						
7	91	84	88	---	---	---						
8	92	87	90	---	---	---						
9	90	85	87	---	---	---						
10	90	85	87	---	---	---						
11	88	83	85	---	---	---						
12	85	79	81	---	---	---						
13	86	81	82	---	---	---						
14	86	80	82	---	---	---						
15	87	81	83	---	---	---						
16	88	83	85	---	---	---						
17	93	85	89	---	---	---						
18	91	87	89	---	---	---						
19	91	87	88	---	---	---						
20	93	87	89	---	---	---						
21	92	85	89	---	---	---						
22	94	87	91	---	---	---						
23	97	90	94	---	---	---						
24	93	90	91	---	---	---						
25	94	81	87	---	---	---						
26	85	80	83	---	---	---						
27	85	83	84	---	---	---						
28	86	81	84	---	---	---						
29	87	81	84	---	---	---						
30	85	81	84	---	---	---						
31	---	---	---	---	---	---						
MONTH	97	79	87	84	83	84						
YEAR	124	60	90									

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

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
	OCTOBER			NOVEMBER			DECEMBER			JANUARY		
1	12.0	11.5	11.5	5.5	5.0	5.5	1.0	.0	.5	.0	.0	.0
2	12.5	11.5	12.0	5.5	5.5	5.5	.0	.0	.0	.0	.0	.0
3	12.0	12.0	12.0	5.5	5.5	5.5	.0	.0	.0	.0	.0	.0
4	12.5	12.0	12.0	5.5	5.0	5.5	.0	.0	.0	.0	.0	.0
5	12.5	12.0	12.0	5.5	5.0	5.0	.0	.0	.0	.0	.0	.0
6	13.0	12.5	12.5	4.5	4.5	4.5	.0	.0	.0	.0	.0	.0
7	13.0	12.5	12.5	4.5	4.0	4.5	.0	.0	.0	.0	.0	.0
8	12.5	11.5	12.0	4.5	4.5	4.5	.0	.0	.0	.0	.0	.0
9	11.5	9.5	10.5	5.0	4.5	4.5	.0	.0	.0	.0	.0	.0
10	9.5	8.0	8.5	5.0	4.5	5.0	.0	.0	.0	.0	.0	.0
11	8.0	7.0	7.5	5.0	4.5	5.0	.0	.0	.0	.0	.0	.0
12	7.0	6.5	7.0	4.5	4.0	4.5	.0	.0	.0	.0	.0	.0
13	6.5	6.5	6.5	4.0	3.5	4.0	.0	.0	.0	.0	.0	.0
14	6.5	5.5	6.0	4.0	3.5	3.5	.0	.0	.0	.0	.0	.0
15	5.5	5.0	5.5	3.5	2.5	3.0	.0	.0	.0	.0	.0	.0
16	5.5	5.5	5.5	2.5	1.5	2.0	.0	.0	.0	.0	.0	.0
17	5.5	5.0	5.0	1.5	.5	1.0	.0	.0	.0	.0	.0	.0
18	6.0	5.5	5.5	.5	.0	.0	.0	.0	.0	.0	.0	.0
19	6.0	5.5	6.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20	6.5	6.0	6.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
21	8.0	6.5	7.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
22	9.5	8.0	8.5	.0	.0	.0	.0	.0	.0	.0	.0	.0
23	12.0	9.5	10.5	.0	.0	.0	.0	.0	.0	.0	.0	.0
24	13.0	12.0	12.5	1.0	.0	.5	.0	.0	.0	.0	.0	.0
25	12.5	11.5	12.5	1.5	1.0	1.0	.0	.0	.0	.0	.0	.0
26	11.5	9.0	10.5	2.0	1.5	1.5	.0	.0	.0	.0	.0	.0
27	9.0	7.0	8.0	3.0	2.0	2.5	.0	.0	.0	.0	.0	.0
28	7.0	6.0	6.5	3.0	2.5	3.0	.0	.0	.0	.0	.0	.0
29	6.0	6.0	6.0	3.0	2.0	3.0	.0	.0	.0	.0	.0	.0
30	6.0	5.5	6.0	2.0	1.0	1.5	.0	.0	.0	.0	.0	.0
31	5.5	5.5	5.5	---	---	---	.0	.0	.0	.0	.0	.0
MONTH	13.0	5.0	8.5	5.5	.0	3.0	1.0	.0	.0	.0	.0	.0

01015800 AROOSTOOK RIVER NEAR MASARDIS, ME

LOCATION.--Lat 46°31'21", long 68°22'23", Aroostook County, Hydrologic Unit 01010004, on left bank 180 ft (55 m) upstream from new highway bridge, and 1.8 mi (2.9 km) downstream from St. Croix Stream and Masardis.

DRAINAGE AREA.--888 mi² (2,300 km²).

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

GAGE.--Water-stage recorder. Datum of gage is 530.0 ft (161.54 m) National Geodetic Vertical Datum of 1929.

REMARKS.--Records good except those for winter period, which are fair. Considerable regulation by Millinocket Lake, capacity 1,110,000,000 ft³ (31,400,000 m³) used for power. Several observations of water temperature and specific conductance were made during the year.

AVERAGE DISCHARGE.--23 years, 1,502 ft³/s (42.54 m³/s).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 21,500 ft³/s (609 m³/s) Apr. 25, 1958, gage height, 16.30 ft (4.968 m); maximum gage height, 16.76 ft (5.108 m) Apr. 30, 1979; minimum discharge, 41 ft³/s (1.16 m³/s) Sept. 26, 27, 1968, gage height 1.89 ft (0.576 m).

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 7,540 ft³/s (214 m³/s) Apr. 16, gage height 10.69 ft (3.258 m); maximum gage height, 12.69 ft (3.868 m) Apr. 12 (backwater from ice); minimum discharge not determined, occurred during period of backwater from ice; minimum daily discharge, 145 ft³/s (4.106 m³/s) Mar. 8.

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	289	695	1590	630	295	155	510	3420	894	520	854	256
2	289	665	1190	575	285	155	570	3280	857	560	761	360
3	306	828	1920	535	275	155	650	3110	823	620	851	762
4	324	2570	960	495	265	150	780	2880	817	620	890	857
5	330	3230	890	465	260	150	980	2650	891	580	793	666
6	350	2740	840	445	250	150	1100	2410	885	650	691	527
7	408	2220	790	425	240	150	1170	2210	812	800	746	440
8	621	1840	750	405	235	145	1150	2280	737	785	692	365
9	1390	1590	730	395	230	150	1150	2810	713	760	638	311
10	1650	1510	700	390	225	155	1200	3760	666	729	605	279
11	1460	1610	680	390	220	155	1400	3810	548	648	542	262
12	1230	1540	660	395	210	160	2200	3270	504	629	476	259
13	1120	1380	640	415	205	165	3500	2870	464	700	561	260
14	1170	1250	630	470	200	170	5300	2630	417	738	691	280
15	1160	1150	620	540	195	175	6900	2650	373	718	656	493
16	1050	1010	615	620	195	180	7410	2610	365	650	529	712
17	927	895	610	610	190	185	6700	2390	367	563	508	659
18	830	795	610	580	185	200	5250	2120	340	522	464	565
19	754	710	590	540	180	215	4060	1990	320	495	399	588
20	700	670	575	510	175	230	3300	2040	310	451	339	587
21	676	715	565	480	175	245	3220	1940	500	421	294	549
22	659	725	555	455	170	260	3350	1840	850	394	257	565
23	635	820	545	435	165	280	3240	1750	800	411	227	680
24	606	900	540	410	165	310	3680	1600	710	573	207	843
25	625	1020	560	395	165	330	4020	1460	600	1110	192	826
26	668	1100	620	375	160	365	3910	1340	530	1070	188	767
27	641	1400	820	360	160	375	3860	1260	620	841	236	909
28	595	2180	880	340	160	395	4260	1180	700	732	300	1090
29	572	2230	840	330	160	410	4060	1100	630	680	291	1020
30	601	1420	740	315	---	425	3640	1020	500	653	266	880
31	666	---	675	305	---	460	---	945	---	784	249	---
TOTAL	23301	41978	23030	14030	5995	7205	92520	70625	18543	20407	15393	17617
MEAN	752	1399	743	453	207	232	3084	2278	618	658	497	587
MAX	1650	3230	1590	630	295	460	7410	3810	894	1110	890	1090
MIN	289	665	540	305	160	145	510	945	310	394	188	256

CAL YR 1979 TOTAL 715095 MEAN 1959 MAX 20200 MIN 135
WTR YR 1980 TOTAL 350644 MEAN 958 MAX 7410 MIN 145

01016500 MACHIAS RIVER NEAR ASHLAND, ME

LOCATION.--Lat 46°37'42", long 68°26'07", Aroostook County, Hydrologic Unit 01010004, on right bank 100 ft (30 m) upstream from highway bridge, 0.8 mi (1.3 km) upstream from mouth, and 1.5 mi (2.4 km) west of Ashland.

DRAINAGE AREA.--330 mi² (855 km²).

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

REVISED RECORDS.--WSP 1501: Drainage area.

GAGE.--Water-stage recorder. Altitude of gage is 535 ft (163 m), from topographic map.

REMARKS.--Records good except those for winter period, which are fair. Several observations of water temperature and specific conductance were made during the year.

AVERAGE DISCHARGE.--29 years, 569 ft³/s (16.11 m³/s), 23.41 in/yr (595 mm/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 16,600 ft³/s (470 m³/s) June 29, 1954, gage height, 11.94 ft (3.639 m), from rating curve extended above 7,900 ft³/s (220 m³/s); minimum, 5.4 ft³/s (0.15 m³/s) Sept. 17, 1952.

EXTREMES FOR CURRENT YEAR.--Peak discharges above base of 3,200 ft³/s (91 m³/s) and maximums (*):

Date	Time	Discharge (ft ³ /s) (m ³ /s)	Gage height (ft) (m)	Date	Time	Discharge (ft ³ /s) (m ³ /s)	Gage height (ft) (m)
Apr. 11	0400	ice jam	* 7.50 2.286	Apr. 16	0700	*3,240 91.8	4.44 1.353

Minimum discharge not determined, occurred during period of backwater from ice; minimum daily, 42 ft³/s (1.19 m³/s) Mar. 6.

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	220	270	484	225	95	45	200	1470	285	173	285	71
2	220	258	527	200	93	44	225	1330	271	191	268	150
3	215	370	442	190	90	44	280	1200	253	224	290	209
4	209	778	410	170	86	43	360	1080	257	223	275	196
5	204	826	375	160	83	43	460	974	264	186	248	169
6	218	734	350	150	80	42	450	873	245	216	229	147
7	254	642	320	145	77	43	430	838	223	241	222	130
8	325	579	295	140	74	43	430	952	207	249	199	111
9	448	528	275	135	72	44	440	1250	207	229	192	97
10	486	531	260	130	70	44	475	1400	200	210	183	89
11	462	560	250	125	68	45	550	1220	186	186	159	85
12	419	541	240	130	66	46	1000	1060	177	188	140	79
13	401	511	230	140	64	47	1800	958	164	197	146	74
14	412	435	225	160	62	49	2700	993	149	222	149	86
15	406	375	220	200	60	51	3030	1080	136	230	152	121
16	378	325	255	240	58	53	3190	1020	131	215	163	127
17	351	285	250	230	57	56	2810	910	127	201	168	106
18	330	260	230	215	55	60	2280	800	119	196	154	115
19	314	235	215	200	54	64	1750	759	116	180	136	139
20	303	235	205	180	53	68	1390	753	107	171	121	132
21	299	245	195	170	52	74	1390	705	150	177	109	152
22	295	270	185	160	51	81	1290	637	304	168	99	195
23	287	325	180	150	50	90	1250	575	282	203	90	249
24	279	370	170	140	49	105	1370	517	232	447	83	281
25	290	401	165	130	48	120	1450	471	199	497	77	266
26	287	430	200	120	47	130	1490	434	180	393	73	262
27	273	570	335	115	46	145	1700	405	222	325	69	325
28	261	826	330	115	46	155	1870	377	252	286	72	322
29	262	885	310	110	45	165	1790	349	201	254	67	285
30	270	809	280	105	---	175	1640	323	165	251	61	249
31	276	---	250	99	---	185	---	301	---	287	59	---
TOTAL	9654	14409	8858	6879	1851	2399	39490	26014	6011	7456	4738	5019
MEAN	311	460	286	157	63.8	77.4	1316	839	200	241	153	167
MAX	486	885	684	240	95	185	3190	1470	304	497	290	325
MIN	204	235	165	99	45	42	200	301	107	168	59	71
CFSM	.94	1.46	.87	.48	.19	.24	3.99	2.54	.61	.73	.46	.51
IN.	1.09	1.62	1.00	.55	.21	.27	4.45	2.93	.68	.84	.53	.57
CAL YR 1979 TOTAL	270505		MEAN 741	MAX 8300	MIN 48	CFSM 2.25	IN 30.49					
WTR YR 1980 TOTAL	130778		MEAN 357	MAX 2190	MIN 42	CFSM 1.08	IN 14.74					

01017000 AROOSTOOK RIVER AT WASHBURN, ME

LOCATION.--Lat 46°46'36", long 68°09'29", Aroostook County, Hydrologic Unit 01010004, on right bank 50 ft (15 m) upstream from Bangor and Aroostook Railroad bridge, 0.1 mi (0.2 km) downstream from Salmon Brook, and 1.0 mi (1.6 km) south of railroad station at Washburn.

DRAINAGE AREA.--1,652 mi² (4,279 km²).

PERIOD OF RECORD.--August 1930 to current year.

REVISED RECORDS.--WSP 951: 1935. WSP 1301: 1933-50 (adjusted monthly runoff). WSP 1501: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 436.40 ft (133.015 m) National Geodetic Vertical Datum of 1929. Prior to Oct. 1, 1948, at datum 2.0 ft (0.610 m) higher.

REMARKS.--Records good except those for winter period, which are fair. Considerable regulation by Squa Pan Lake, capacity 2,893,000,000 ft³ (81,900,000 m³), and by Millinocket Lake, capacity 1,110,000,000 ft³ (31,400,000 m³) used for power. Several observations of water temperature and specific conductance were made during the year.

AVERAGE DISCHARGE.--50 years, 2,643 ft³/s (74.85 m³/s).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 43,100 ft³/s (1,220 m³/s) Apr. 30, 1973, gage height, 13.68 ft (4.170 m) present datum; maximum gage height, 20.91 ft (6.373 m) Dec. 24, 1973, (backwater from ice); minimum daily discharge, 75 ft³/s (2.12 m³/s) Feb. 13-15, 1948.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 13,400 ft³/s (379 m³/s) Apr. 16, gage height 7.84 (2.390 m); maximum gage height, 8.65 ft (2.636 m) Apr. 11 (backwater from ice); minimum daily discharge, 309 ft³/s (8.75 m³/s) Aug. 27.

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	650	1230	2800	1130	720	480	1030	6290	1370	1050	1350	405
2	634	1190	2240	1080	700	475	1120	5930	1310	1090	1300	589
3	643	1470	1630	1010	685	475	1260	5540	1260	1220	1600	870
4	654	3570	1570	960	670	470	1550	5070	1220	1330	1730	1220
5	662	5000	1500	920	660	465	2000	4620	1280	1200	1670	1110
6	700	4390	1450	980	650	465	2300	4130	1300	1110	1380	884
7	751	3570	1400	850	640	460	2250	3840	1220	1360	1290	745
8	937	2980	1380	830	630	460	2180	4300	1100	1410	1280	616
9	1590	2590	1350	815	620	455	2150	5850	1030	1310	1170	517
10	2250	2460	1300	800	610	450	2300	7340	1010	1230	945	452
11	2160	2570	1280	800	600	455	2600	6830	914	1070	919	405
12	1860	2530	1250	810	590	460	4000	5770	828	977	1020	383
13	1680	2320	1200	820	580	465	6000	5070	784	1100	1030	368
14	1690	2100	1180	870	570	470	9500	4840	716	1300	1190	410
15	1730	2000	1150	940	560	475	12000	5120	619	1250	1250	497
16	1670	1910	1120	1020	555	480	13300	4940	568	1110	995	409
17	1640	1750	1100	1080	550	495	12000	4390	556	976	921	890
18	1470	1560	1080	1120	540	515	9790	3850	544	904	858	824
19	1280	1230	1060	1090	530	530	7580	3510	507	844	766	802
20	1310	1210	1050	1050	530	545	6110	3450	473	1050	631	834
21	1120	1290	1030	1000	525	570	6010	3300	487	1170	539	855
22	1110	1330	1020	970	520	590	5970	3020	805	945	469	1020
23	1230	1420	1000	930	510	620	5810	2850	1380	874	413	1390
24	1190	1520	1020	900	505	660	6740	2590	1260	1480	369	1560
25	1240	1670	1080	870	500	700	7360	2340	1060	2120	336	1540
26	1275	1840	1220	845	495	740	7180	2120	906	2030	312	1450
27	1190	2310	1420	820	490	770	7280	1960	925	1590	309	1570
28	1010	3390	1500	800	490	810	7940	1820	1340	1340	351	1770
29	983	3750	1420	780	485	850	7530	1680	1450	1190	395	1630
30	1160	3370	1300	750	---	890	6760	1560	1230	1110	376	1480
31	1190	---	1220	735	---	950	---	1460	---	1220	386	---
TOTAL	38650	59500	41320	24275	16710	17695	169600	125380	29451	37960	27550	27895
MEAN	1247	2317	1333	912	576	571	5653	4045	982	1225	889	930
MAX	2250	5000	2800	1130	720	950	13300	7340	1450	2120	1730	1770
MIN	634	1190	1000	735	485	450	1030	1460	473	844	309	368
CM YR 1979	TOTAL	1244611	MEAN	3519	MAX	37100	MIN	264				
WTR YR 1980	TOTAL	629956	MEAN	1721	MAX	13300	MIN	309				

01017100 AROOSTOOK RIVER AT CARIBOU, ME
(National stream-quality accounting network station)

LOCATION.--Lat 46°50'57", long 68°00'12", Aroostook County, Hydrologic Unit 01010004, on left bank of powerhouse intake pool of Maine Public Service Corporation at Caribou Dam.

DRAINAGE AREA.--1,943 mi² (5,030 km²).

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

PERIOD OF DAILY RECORD.--

SPECIFIC CONDUCTANCE: October 1975 to current year.

WATER TEMPERATURES: October 1975 to current year.

INSTRUMENTATION.--Water-quality monitor since October 1975.

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

EXTREMES FOR PERIOD OF DAILY RECORD.--

SPECIFIC CONDUCTANCE: Maximum, 194 micromhos July 20, 1976; minimum, 35 micromhos May 2, 1979.

WATER TEMPERATURES: Maximum, 27.5°C Aug. 17, 19, 1978; minimum, 0.0°C on many days during winter periods.

EXTREMES FOR CURRENT YEAR.--

SPECIFIC CONDUCTANCE: Maximum, 188 micromhos Mar. 4; minimum, 40 micromhos Apr. 16.

WATER TEMPERATURES: Maximum, 25.5°C Aug. 21; minimum, 0.0°C on many days during winter period.

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

DATE	TIME	STREAM- FLOW (CFS)	SPE- CIFIC CON- DUCT- ANCE (MICRO- MHOS)	PH FIELD (UNITS)	TEMPER- ATURE, AIR (DEG C)	TEMPER- ATURE, WATER (DEG C)	TUR- BID- ITY (NTU)	OXYGEN, DIS- SOLVED (MG/L)	OXYGEN, DIS- SOLVED (PER- CENT SATUR- ATION)	COLI- FORM, FECAL, 0.7 UM-MF (COLS./ 100 ML)	STREP- TOCOCCI FECAL, KF AGAR (COLS. PER 100 ML)	HARD- NESS (MG/L AS CAC03)
OCT 30...	1415	1360	102	7.2	6.0	6.0	1.0	10.2	83	110	26	39
NOV 20...	1430	1420	96	6.8	-4.5	.0	1.0	11.6	81	280	54	38
DEC 12...	0930	1470	122	6.9	2.0	.0	1.0	11.9	83	110	140	47
JAN 29...	1045	917	115	7.0	3.5	.0	.50	12.3	85	K1700	150	42
FEB 26...	1415	582	148	6.6	-7.0	.0	.30	11.3	78	220	100	47
APR 02...	0800	1320	85	6.8	6.0	.0	.15	11.0	76	280	>2000	37
29...	1615	8860	53	6.8	19.5	7.5	1.4	10.5	89	55	28	22
MAY 19...	1600	4130	62	7.2	18.5	13.0	1.0	10.0	97	32	K5	26
JUN 24...	1800	1480	86	7.3	22.0	21.0	.30	7.1	81	240	K14	36
JUL 29...	1800	1400	75	7.2	24.0	20.5	1.7	8.2	92	210	K40	35
SEP 02...	1645	693	110	7.3	23.5	22.0	.20	7.4	85	--	K10	48
23...	1130	1630	89	7.3	17.5	13.0	.60	11.6	113	180	70	39

DATE	HARD- NESS, NONCAR- BONATE (MG/L CAC03)	CALCIUM DIS- SOLVED (MG/L AS CA)	MAGNE- SIUM, DIS- SOLVED (MG/L AS MG)	SODIUM, DIS- SOLVED (MG/L AS NA)	SODIUM PERCENT	SODIUM AD- SORP- TION RATIO	SODIUM+ POTAS- SIUM DIS- SOLVED (MG/L AS NA)	POTAS- SIUM, DIS- SOLVED (MG/L AS K)	ALKA- LINITY (MG/L AS CAC03)	SULFATE DIS- SOLVED (MG/L AS S04)	CHLO- RIDE, DIS- SOLVED (MG/L AS CL)	FLUO- RIDE, DIS- SOLVED (MG/L AS F)
OCT 30...	9	12	2.1	2.3	11	.2	3.3	1.0	30	5.2	2.5	.0
NOV 20...	12	12	1.9	1.8	11	.1	2.5	.7	26	7.1	2.2	.0
DEC 12...	17	15	2.4	2.2	9	.1	3.0	.8	30	8.1	3.0	.0
JAN 29...	11	13	2.2	2.3	10	.2	3.3	1.0	31	8.7	2.9	.0
FEB 26...	7	15	2.3	4.1	15	.3	7.2	3.1	40	8.4	4.4	.0
APR 02...	7	12	1.8	1.8	9	.1	3.2	1.4	30	6.9	3.0	.1
29...	8	7.0	1.2	1.1	9	.1	--	.6	14	5.6	1.5	.0
MAY 19...	7	8.0	1.5	1.5	11	.1	--	.4	19	6.0	1.6	.1
JUN 24...	11	11	2.0	2.0	11	.1	--	.8	25	6.2	1.8	.1
JUL 29...	11	11	1.9	1.8	10	.1	--	.5	24	6.3	1.5	.0
SEP 02...	8	15	2.5	3.5	13	.2	--	.9	40	6.5	4.7	.1
23...	12	12	2.1	2.3	11	.2	--	.8	27	5.8	2.7	.1

01017100 AROOSTOOK RIVER AT CARIBOU, ME--Continued

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

DATE	SILICA, DIS- SOLVED (MG/L AS SiO2)	SOLIDS, RESIDUE AT 180 DEG. C DIS- SOLVED (MG/L)	SOLIDS, SUM OF CONSTI- TUENTS, DIS- SOLVED (MG/L)	SOLIDS, DIS- SOLVED (TONS PER AC-FT)	SOLIDS, DIS- SOLVED (TONS PER DAY)	NITRO- GEN, NO2+NO3 TOTAL (MG/L AS N)	NITRO- GEN, NO2+NO3 DIS- SOLVED (MG/L AS N)	NITRO- GEN, AMMONIA TOTAL (MG/L AS N)	NITRO- GEN, AMMONIA DIS- SOLVED (MG/L AS N)	NITRO- GEN, AMMONIA TOTAL (MG/L AS NH4)	NITRO- GEN, AMMONIA DIS- SOLVED (MG/L AS NH4)	NITRO- GEN, ORGANIC TOTAL (MG/L AS N)
OCT 30...	3.8	64	48	.09	235	.17	.15	.050	.000	.06	.00	.68
NOV 20...	5.1	162	49	.22	621	.60	.60	.130	.000	.16	.00	.68
DEC 12...	5.8	82	59	.11	325	1.6	.78	.070	.010	.08	.01	.34
JAN 29...	4.7	66	55	.09	163	.35	.37	.060	.080	.07	.10	.24
FEB 26...	4.2	87	67	.12	137	.32	.32	.040	.050	.05	.06	.72
APR 02...	3.1	82	51	.11	292	.53	.54	.050	.010	.06	.01	.82
29...	3.4	50	30	.07	1200	.25	.30	.040	.010	.05	.01	.26
MAY 19...	2.1	46	34	.06	513	.19	.21	.000	.040	.00	.05	.44
JUN 24...	1.6	64	41	.09	256	.09	.17	.060	.020	.07	.03	.28
JUL 29...	3.9	80	42	.11	302	.10	.10	.040	.010	.05	.01	.06
SEP 02...	1.7	75	60	.10	140	.21	.23	.070	.040	.08	.05	.26
23...	3.4	66	46	.09	290	.16	.14	.040	.000	.05	.00	.30

DATE	NITRO- GEN, ORGANIC DIS- SOLVED (MG/L AS N)	NITRO- GEN,AM- MONIA + ORGANIC TOTAL (MG/L AS N)	NITRO- GEN,NH4 + ORG. SUSP. TOTAL (MG/L AS N)	NITRO- GEN,AM- MONIA + ORGANIC DIS. (MG/L AS N)	NITRO- GEN, TOTAL (MG/L AS N)	NITRO- GEN, DIS- SOLVED (MG/L AS N)	NITRO- GEN, TOTAL (MG/L AS NO3)	PHOS- PHORUS, TOTAL (MG/L AS P)	PHOS- PHORUS, TOTAL (MG/L AS PO4)	PHOS- PHORUS, DIS- SOLVED (MG/L AS P)	ARSENIC TOTAL (UG/L AS AS)	ARSENIC SUS- PENDEED TOTAL (UG/L AS AS)
OCT 30...	.65	.73	.08	.65	.90	.80	4.0	.060	.18	.020	--	--
NOV 20...	.63	.81	.18	.63	1.4	1.2	6.2	.100	.31	.030	3	1
DEC 12...	.45	.41	.00	.46	2.0	1.2	8.9	.020	.06	.020	--	--
JAN 29...	.31	.30	.00	.39	.65	.76	2.9	.050	.15	.070	--	--
FEB 26...	.72	.76	.00	.77	1.1	1.1	4.8	.210	.64	.150	0	0
APR 02...	.57	.87	.29	.58	1.4	1.1	6.2	.120	.37	.030	--	--
29...	.23	.30	.06	.24	.55	.54	2.4	.020	.06	.010	--	--
MAY 19...	.23	.44	.17	.27	.63	.48	2.8	.010	.03	.010	1	1
JUN 24...	.22	.34	.10	.24	.43	.41	1.9	.030	.09	.010	--	--
JUL 29...	.30	.10	.00	.31	.20	.41	.89	.050	.15	.010	--	--
SEP 02...	.15	.33	.14	.19	.54	.42	2.4	.050	.15	.040	1	1
23...	.23	.34	.11	.23	.50	.37	2.2	.020	.06	.010	--	--

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

[illegible]

01017109 AROOSTOOK RIVER AT CARIBOU, ME--Continued

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

DATE	MANGANESE, DIS- SOLVED (UG/L AS MN)	MERCURY TOTAL RECOV- ERABLE (UG/L AS HG)	MERCURY SUS- PENDE RECov- ERABLE (UG/L AS HG)	MERCURY DIS- SOLVED (UG/L AS HG)	NICKEL, TOTAL RECOV- ERABLE (UG/L AS NI)	NICKEL, SUS- PENDE RECov- ERABLE (UG/L AS NI)	NICKEL, DIS- SOLVED (UG/L AS NI)	SELE- NIUM, TOTAL RECOV- ERABLE (UG/L AS SE)	SELE- NIUM, SUS- PENDE TOTAL (UG/L AS SE)	SELE- NIUM, DIS- SOLVED (UG/L AS SE)	SILVER, TOTAL RECOV- ERABLE (UG/L AS AG)
OCT 30...	--	--	--	--	--	--	--	--	--	--	--
NOV 20...	30	.3	.2	.1	0	0	0	0	0	0	0
DEC 12...	--	--	--	--	--	--	--	--	--	--	0
JAN 29...	--	--	--	--	--	--	--	--	--	--	--
FEB 26...	50	.1	.0	<.1	2	2	0	0	0	0	0
APR 02...	--	--	--	--	--	--	--	--	--	--	0
29...	--	--	--	--	--	--	--	--	--	--	--
MAY 19...	20	.2	.0	.2	0	0	0	0	0	0	0
JUN 24...	--	--	--	--	--	--	--	--	--	--	0
JUL 29...	--	--	--	--	--	--	--	--	--	--	--
SEP 02...	20	.1	.0	.1	3	3	0	0	0	0	0
23...	--	--	--	--	--	--	--	--	--	--	0

DATE	SILVER, SUS- PENDE RECov- ERABLE (UG/L AS AG)	SILVER, DIS- SOLVED (UG/L AS AG)	ZINC, TOTAL RECOV- ERABLE (UG/L AS ZN)	ZINC, SUS- PENDE RECov- ERABLE (UG/L AS ZN)	ZINC, DIS- SOLVED (UG/L AS ZN)	CARBON, ORGANIC TOTAL (MG/L AS C)	CARBON, ORGANIC DIS- SOLVED (MG/L AS C)	CARBON, ORGANIC SUS- PENDE (MG/L AS C)	SEDI- MENT, SUS- PENDE (MG/L)	SEDI- MENT DIS- CHARGE, SUS- PENDE (T/DAY)	SED. SUSP. SIEVE DIAM. % FINER THAN .062 MM
OCT 30...	--	--	--	--	--	8.5	--	--	3	11	100
NOV 20...	0	0	10	0	10	--	216	1.7	4	15	100
DEC 12...	--	--	--	--	--	--	--	--	2	7.9	100
JAN 29...	--	--	--	--	--	13	--	--	--	--	--
FEB 26...	0	0	20	0	80	--	154	--	--	--	--
APR 02...	--	--	--	--	--	5.1	--	--	13	46	92
29...	--	--	--	--	--	12	--	--	5	120	89
MAY 19...	0	0	10	10	0	--	570	.2	15	167	58
JUN 24...	--	--	--	--	--	8.2	--	--	2	8.0	100
JUL 29...	--	--	--	--	--	12	--	--	6	23	100
SEP 02...	0	0	20	0	400	--	14	.4	5	9.4	100
23...	--	--	--	--	--	8.6	--	--	5	22	100

BIOLOGICAL DATA, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

PERIPHYTON

(Sampling method - Polyethylene strip)

DATES OF EXPOSURE	LENGTH OF EXPO- SURE (DAYS)	PERI- PHYTON BIOMASS TOTAL DRY WEIGHT (G/SQ M)	PERI- PHYTON BIOMASS ASH WEIGHT (G/SQ M)	CHLOR-A PERI- PHYTON CHROMO- GRAPHIC FLUOROM. (MG/M ²)	CHLOR-B PERI- PHYTON CHROMO- GRAPHIC FLUOROM. (MG/M ²)	BIOMASS PIGMENT RATIO
SEP 19 TO OCT 30	41	.630	.390	7.36	.290	32.6
APR 29 TO MAY 19	20	2.36	1.58	14.5	.050	53.8
MAY 19 TO JUL 29	71	9.21	5.75	26.3	2.58	132
SEP 09 TO SEP 23	21	1.65	.945	11.1	1.47	63.5

01017100 AROOSTOOK RIVER AT CARIBOU, ME--Continued

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

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
OCTOBER			NOVEMBER			DECEMBER			JANUARY			
1	111	108	110	106	94	100	91	87	89	94	92	93
2	116	110	114	106	96	100	93	89	91	97	93	95
3	118	113	116	116	95	103	100	92	95	98	95	97
4	123	115	119	130	110	121	102	100	102	99	95	98
5	126	118	122	109	85	93	102	102	102	100	98	99
6	124	116	121	85	79	82	103	102	102	100	99	100
7	121	114	118	86	82	84	103	102	102	104	100	101
8	121	118	120	86	84	85	102	102	102	106	103	105
9	121	114	117	91	86	88	103	101	102	108	105	107
10	114	95	101	99	88	93	116	104	110	111	105	108
11	94	84	86	100	96	98	117	115	116	113	101	109
12	85	79	82	97	93	95	136	118	124	124	98	112
13	87	79	82	95	93	94	139	126	135	116	110	113
14	94	87	91	97	92	95	125	117	121	120	108	117
15	94	86	90	102	95	98	118	115	116	124	99	110
16	90	84	87	103	98	100	119	118	119	116	108	112
17	89	83	86	103	98	100	121	118	119	111	100	107
18	88	83	85	102	99	101	121	117	119	100	99	100
19	88	82	85	103	101	102	118	116	117	108	99	103
20	96	86	89	102	101	102	118	112	115	111	99	104
21	97	88	92	115	102	109	118	114	116	115	109	112
22	98	92	95	113	102	108	118	114	117	117	114	116
23	97	91	95	111	101	104	117	108	111	115	105	109
24	97	91	94	114	101	108	114	109	112	114	106	110
25	98	92	95	111	106	109	120	108	114	115	107	111
26	104	93	97	109	99	104	135	115	121	120	109	113
27	104	97	101	109	96	101	139	115	128	123	110	116
28	103	94	99	109	96	105	115	100	105	121	108	115
29	103	97	100	97	90	93	100	93	97	114	111	112
30	110	99	103	89	87	88	94	93	94	120	114	118
31	109	101	104	---	---	---	94	93	94	125	118	122
MONTH	126	79	100	130	79	99	139	87	110	125	92	108

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
FEBRUARY			MARCH			APRIL			MAY			
1	126	118	122	159	131	141	100	90	95	63	57	59
2	126	118	122	144	126	134	---	---	---	68	62	66
3	131	120	126	162	139	150	90	84	87	68	65	66
4	147	130	141	188	150	173	85	84	84	72	68	69
5	130	120	122	176	138	159	84	84	84	69	66	68
6	120	113	116	150	129	137	84	83	84	69	66	67
7	118	111	115	129	109	122	83	75	78	72	66	69
8	126	114	120	132	107	119	79	75	76	76	69	72
9	127	119	123	126	110	116	79	76	77	79	68	76
10	123	116	119	152	127	141	78	63	72	69	61	65
11	122	116	118	166	152	160	75	45	59	63	58	60
12	123	116	119	169	138	153	61	50	56	66	63	65
13	124	117	119	172	136	157	60	47	50	67	65	66
14	123	116	119	151	135	141	50	47	48	67	63	65
15	125	118	121	147	132	138	50	43	47	68	63	65
16	126	123	125	148	127	133	50	40	47	66	61	64
17	127	123	125	166	141	156	50	42	45	65	61	63
18	126	125	125	168	134	145	53	50	51	65	63	64
19	146	127	136	166	141	151	56	49	52	65	64	65
20	151	129	138	139	119	127	61	52	55	70	65	67
21	155	137	148	126	123	125	71	62	68	68	64	66
22	139	129	135	134	118	123	67	65	66	65	63	64
23	148	134	139	138	119	133	71	64	67	65	64	64
24	144	128	135	116	105	111	69	58	64	70	64	66
25	157	131	146	107	102	104	60	54	56	67	64	66
26	152	135	144	107	101	104	59	55	57	68	66	67
27	166	145	155	112	100	107	60	50	57	70	66	69
28	168	147	159	110	97	103	63	53	57	72	69	70
29	156	136	148	123	103	111	62	52	56	75	69	72
30	---	---	---	117	92	101	58	52	55	72	69	70
31	---	---	---	97	89	93	---	---	---	75	71	74
MONTH	168	111	130	188	89	131	100	40	64	79	57	67

01017100 AROOSTOOK RIVER AT CARIBOU, ME--Continued

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

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
	JUNE			JULY			AUGUST			SEPTEMBER		
1	78	74	75	74	71	72	85	81	83	112	110	111
2	81	75	77	82	73	77	82	78	80	115	108	112
3	78	75	76	84	81	83	101	77	86	117	110	114
4	84	75	79	89	85	87	93	77	82	116	99	109
5	83	80	82	86	77	82	78	75	77	98	82	89
6	84	77	80	77	75	76	77	75	76	85	80	82
7	79	75	77	86	76	81	78	74	76	84	79	82
8	80	76	78	88	83	85	81	78	79	86	81	84
9	85	77	80	82	78	79	83	78	81	87	82	84
10	80	76	78	79	75	78	82	79	81	92	85	88
11	81	79	80	80	78	79	84	82	83	94	90	92
12	82	78	80	80	77	79	87	84	86	98	93	96
13	85	80	83	84	78	80	87	81	84	100	97	98
14	87	84	85	86	81	83	87	79	83	105	98	102
15	91	84	87	87	82	84	85	81	83	111	102	106
16	95	90	92	82	77	80	83	78	81	114	106	110
17	95	89	92	79	76	77	90	81	85	113	93	105
18	104	91	94	80	76	78	91	87	89	93	85	89
19	98	94	95	81	78	79	92	89	90	87	82	84
20	96	93	94	89	79	82	93	90	91	86	82	84
21	97	95	96	94	88	91	97	91	93	86	82	84
22	101	95	98	95	91	93	97	93	95	87	82	85
23	103	98	100	92	89	91	102	96	99	96	86	91
24	97	81	89	101	91	94	104	99	102	93	81	87
25	83	78	80	99	79	90	109	101	103	82	76	79
26	82	79	80	79	69	73	110	103	107	77	86	75
27	97	82	84	70	68	69	111	104	109	83	75	79
28	94	87	90	72	69	71	122	112	113	85	80	83
29	92	77	84	76	72	73	119	111	114	80	74	77
30	77	73	75	78	74	76	118	115	117	76	71	74
31	---	---	---	84	77	81	117	110	112	---	---	---
MONTH	104	73	85	101	68	81	122	74	91	117	71	91
YEAR	188	40	96									

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
	OCTOBER			NOVEMBER			DECEMBER			JANUARY		
1	12.0	11.5	12.0	6.0	5.5	5.5	1.0	.0	.5	.0	.0	.0
2	12.5	11.5	12.0	6.0	5.5	5.5	.0	.0	.0	.0	.0	.0
3	13.0	12.5	13.0	6.0	5.5	6.0	.0	.0	.0	.0	.0	.0
4	13.0	12.0	12.5	6.0	5.5	6.0	.0	.0	.0	.0	.0	.0
5	12.5	12.0	12.5	5.5	5.5	5.5	.0	.0	.0	.0	.0	.0
6	13.5	12.5	13.0	5.5	4.5	4.5	.0	.0	.0	.0	.0	.0
7	14.0	13.0	13.5	4.5	4.0	4.5	.0	.0	.0	.5	.0	.0
8	13.0	11.5	12.5	4.5	4.5	4.5	.0	.0	.0	.5	.0	.0
9	11.5	9.0	10.5	5.0	4.5	5.0	.0	.0	.0	.0	.0	.0
10	9.0	7.0	8.0	6.0	5.0	5.5	.0	.0	.0	.0	.0	.0
11	7.0	7.0	7.0	6.0	5.5	6.0	.0	.0	.0	.5	.0	.0
12	7.0	6.5	6.5	5.5	5.0	5.0	.0	.0	.0	.5	.0	.0
13	6.5	6.0	6.0	5.0	4.0	4.5	.0	.0	.0	.0	.0	.0
14	6.0	5.5	6.0	4.0	4.0	4.0	.0	.0	.0	.5	.0	.0
15	5.5	5.0	5.0	4.0	2.5	3.5	.0	.0	.0	.0	.0	.0
16	5.5	5.0	5.0	2.5	1.5	2.0	.0	.0	.0	.0	.0	.0
17	5.0	4.5	5.0	1.5	.0	.5	.5	.0	.0	.0	.0	.0
18	6.5	5.0	6.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
19	7.0	6.0	6.5	.0	.0	.0	.5	.0	.0	.0	.0	.0
20	6.5	6.0	6.5	.0	.0	.0	.5	.0	.0	.0	.0	.0
21	8.5	6.5	7.5	.0	.0	.0	.0	.0	.0	.5	.0	.0
22	10.5	9.0	10.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23	13.0	10.5	12.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
24	14.0	13.0	14.0	.0	.0	.0	.0	.0	.0	.5	.0	.0
25	14.0	12.0	13.5	1.0	.0	.5	.0	.0	.0	.5	.0	.0
26	12.0	8.5	10.0	2.0	1.5	1.5	.0	.0	.0	.0	.0	.0
27	8.0	6.5	7.5	4.0	2.5	3.5	.0	.0	.0	.0	.0	.0
28	6.5	6.0	6.0	4.0	3.5	3.5	.0	.0	.0	1.0	.0	.0
29	6.5	6.0	6.0	3.5	3.0	3.0	.0	.0	.0	.5	.0	.0
30	6.0	5.5	5.5	3.0	1.0	2.0	.0	.0	.0	.0	.0	.0
31	6.0	5.5	5.5	---	---	---	.0	.0	.0	.5	.0	.0
MONTH	14.0	4.5	9.0	6.0	.0	3.0	1.0	.0	.0	1.0	.0	.0

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

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
FEBRUARY				MARCH			APRIL			MAY		
1	1.0	.0	.5	1.0	.0	1.0	.5	.0	.5	9.0	7.0	8.0
2	.5	.0	.0	1.5	.0	.5	---	---	---	10.0	8.5	9.0
3	.5	.0	.5	1.5	.0	.5	.5	.0	.0	10.0	8.5	9.5
4	.5	.0	.0	1.5	.5	1.0	.0	.0	.0	10.0	8.5	9.0
5	.5	.0	.0	.0	.0	.0	.0	.0	.0	8.5	8.0	8.5
6	.0	.0	.0	.0	.0	.0	.0	.0	.0	9.5	8.0	8.5
7	.0	.0	.0	.0	.0	.0	.5	.0	.0	9.5	8.0	9.0
8	.0	.0	.0	.0	.0	.0	.5	.0	.0	8.0	6.5	7.5
9	.0	.0	.0	.0	.0	.0	.5	.0	.0	6.5	6.0	6.5
10	.0	.0	.0	.0	.0	.0	.5	.0	.5	7.0	6.0	6.5
11	1.0	.0	.5	.0	.0	.0	.5	.0	.5	9.5	6.5	8.0
12	.5	.0	.5	.5	.0	.0	.5	.5	.5	11.5	9.0	10.0
13	.0	.0	.0	.0	.0	.0	1.5	.5	1.0	12.0	10.5	11.5
14	.0	.0	.0	.0	.0	.0	2.5	1.0	1.5	12.0	11.0	11.5
15	.0	.0	.0	.0	.0	.0	2.5	2.0	2.5	11.0	10.0	10.5
16	.0	.0	.0	.0	.0	.0	2.5	2.0	2.5	11.0	10.5	11.0
17	.0	.0	.0	.0	.0	.0	3.0	1.5	2.0	12.5	10.5	11.5
18	.5	.0	.0	.0	.0	.0	3.0	2.0	2.5	12.5	12.5	12.5
19	.0	.0	.0	.0	.0	.0	4.0	2.0	3.0	13.5	12.5	13.0
20	.5	.0	.0	.0	.0	.0	5.0	3.5	4.0	14.5	13.0	13.5
21	.5	.0	.0	.0	.0	.0	5.0	4.0	4.5	15.5	14.0	14.5
22	1.0	.0	.5	.0	.0	.0	4.0	3.0	3.0	16.0	15.5	16.0
23	.5	.0	.0	.0	.0	.0	3.0	2.5	3.0	16.5	15.5	16.0
24	1.0	.0	.5	.0	.0	.0	5.0	3.0	4.0	16.0	15.5	16.0
25	.0	.0	.0	.0	.0	.0	5.5	4.5	5.0	15.5	14.5	15.0
26	.5	.0	.0	.0	.0	.0	5.5	5.0	5.5	14.0	13.0	13.5
27	1.0	.0	.5	.5	.0	.0	5.5	5.0	5.5	13.0	12.5	13.0
28	1.5	.0	.5	.5	.0	.5	6.5	4.5	5.5	13.5	12.5	13.0
29	1.5	.0	1.0	.5	.0	.5	8.0	5.5	7.0	15.0	12.5	13.5
30	---	---	---	.5	.0	.0	8.0	7.5	7.5	17.0	14.5	15.0
31	---	---	---	.5	.0	.5	---	---	---	17.0	16.0	16.5
MONTH	1.5	.0	.0	1.5	.0	.0	8.0	.0	2.5	17.0	6.0	11.5

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
JUNE				JULY			AUGUST			SEPTEMBER		
1	18.5	16.5	17.0	19.5	18.0	18.5	23.5	22.5	23.0	22.5	22.0	22.0
2	18.5	17.5	18.0	20.0	18.0	19.5	24.5	23.0	24.5	22.5	21.5	21.5
3	18.5	16.0	17.0	20.0	19.5	19.5	24.5	22.0	23.5	23.0	22.0	22.5
4	16.0	15.0	15.5	21.5	20.0	21.0	22.0	20.0	20.5	22.0	20.0	21.0
5	16.0	15.0	15.5	22.5	21.0	22.0	23.0	21.0	22.0	20.5	19.5	20.0
6	17.5	15.5	16.0	22.0	19.0	21.0	23.5	22.5	23.0	20.0	19.5	19.5
7	19.5	17.5	18.5	19.0	15.0	16.5	22.5	21.0	22.0	20.0	18.5	19.5
8	19.5	18.0	19.0	16.5	15.5	16.0	24.0	22.0	23.0	19.0	17.0	18.5
9	17.5	14.0	15.5	17.0	16.0	16.5	25.0	24.0	24.5	17.0	16.0	16.5
10	14.0	13.0	13.5	17.5	16.0	16.5	24.5	21.0	23.0	17.5	16.0	16.5
11	14.0	12.5	13.5	19.5	17.5	18.5	21.0	20.5	20.5	17.0	16.5	16.5
12	13.0	12.5	13.0	20.0	19.0	19.5	22.5	21.0	21.5	16.0	15.0	15.5
13	16.0	13.0	14.5	19.5	18.5	19.0	21.0	20.0	20.5	15.0	14.0	14.5
14	19.0	16.0	18.0	18.5	17.0	17.5	20.0	19.5	20.0	15.0	14.5	15.0
15	20.5	19.0	20.0	20.0	18.5	19.0	20.5	20.0	20.5	15.0	13.5	14.5
16	19.5	18.0	19.0	21.0	20.0	20.0	21.0	19.5	20.5	14.5	13.5	14.0
17	18.0	16.5	17.0	22.5	21.5	22.0	19.5	18.0	19.0	14.0	13.0	14.0
18	18.0	16.0	17.5	22.5	21.5	22.0	21.0	19.5	20.0	14.5	13.5	14.0
19	19.0	17.0	18.0	23.5	22.0	22.5	22.0	20.5	21.5	14.0	13.0	14.0
20	20.0	18.5	19.0	23.5	22.0	22.5	23.0	21.5	22.5	13.5	12.5	13.0
21	19.5	19.0	19.5	23.0	22.0	22.5	25.5	22.5	23.5	12.5	12.5	12.5
22	19.0	18.0	18.5	23.0	22.5	23.0	23.0	23.0	23.0	13.0	12.5	13.0
23	20.0	18.0	19.5	22.5	22.0	22.5	23.5	22.5	23.0	13.5	12.5	13.0
24	22.0	20.5	21.0	22.0	21.0	21.5	25.0	23.0	23.5	13.5	12.0	13.0
25	23.0	21.5	22.5	22.5	21.0	22.0	25.0	24.0	24.5	12.5	11.5	12.0
26	24.5	22.5	24.0	23.0	22.0	22.5	24.5	24.0	24.0	12.0	11.5	12.0
27	24.5	23.0	24.0	22.5	21.0	21.5	25.0	23.5	24.0	11.5	10.0	11.0
28	22.5	19.0	21.0	21.0	20.0	20.5	24.5	23.5	24.0	10.0	9.0	9.5
29	19.0	18.5	18.5	21.0	20.0	20.5	24.0	22.0	23.0	9.0	7.5	8.0
30	20.0	19.0	19.5	22.0	20.5	21.5	23.0	22.0	22.5	8.5	8.0	8.0
31	---	---	---	22.5	22.0	22.5	22.5	21.5	22.0	---	---	---
MONTH	24.5	12.5	18.0	23.5	15.0	20.5	25.5	18.0	22.5	23.0	7.5	15.0
YEAR	25.5	.0	8.5									

01017100 AROOSTOOK RIVER AT CARIBOU, ME--Continued

PHYTOPLANKTON ANALYSES, OCTOBER 1979 TO SEPTEMBER 1980

DATE TIME	NOV 20,79 1430	APR 2,80 0800	MAY 19,80 1600	JUN 24,80 1800				
TOTAL CELLS/ML	1000	6500	2100	3700				
DIVERSITY: DIVISION	0.8	0.0	0.6	1.3				
..CLASS	0.8	0.0	0.6	1.3				
...ORDER	0.0	0.0	0.7	1.5				
...FAMILY	0.0	0.0	1.0	1.8				
...GENUS	0.0	0.0	1.2	2.1				
ORGANISM	CELLS /ML	PER- CENT	CELLS /ML	PER- CENT	CELLS /ML	PER- CENT	CELLS /ML	PER- CENT
CHLOROPHYTA (GREEN ALGAE)								
..CHLOROPHYCEAE								
...CHLOROCOCCALES								
...CHARACIACEAE								
...SCHROEDERIA	--	-	--	-	--	-	*	0
...CHLOROCOCCACEAE								
...CHLOROCOCCUM	9	1	--	-	--	-	--	-
...COELASTRACEAE								
...COELASTRUM	--	-	--	-	--	-	--	-
...OOCYSTACEAE								
...ANKISTRODESMUS	9	1	--	-	--	-	78	2
...DICTYOSPHAERIUM	--	-	--	-	--	-	140	4
...NEPHROCYTIUM	--	-	--	-	--	-	100	3
...OOCYSTIS	--	-	--	-	--	-	*	0
...SELENASTRUM	--	-	--	-	--	-	*	0
...TETRAEDRON	--	-	--	-	--	-	*	0
...SCENEDESMACEAE								
...CRUCIGENIA	--	-	--	-	--	-	52	1
...SCENEDESMUS	--	-	--	-	--	-	880#	24
...VOLVOCALES								
...CHLAMYDOMONADACEAE								
...CHLAMYDOMONAS	9	1	--	-	--	-	--	-
...PLATYMONAS	19	2	--	-	--	-	--	-
...VOLVOCAEAE								
...GONIUM	--	-	--	-	--	-	100	3
...ZYGNEATALES								
...DESMIDIACEAE								
...COSMARIUM	--	-	--	-	--	-	*	0
...EUASTRUM	--	-	--	-	--	-	--	-
CHRYSOPHYTA								
..BACILLARIOPHYCEAE								
...CENTRALES								
...COSCINODISCEAE								
...CYCLOTELLA	66	6	--	-	--	-	140	4
...MELOSIRA	--	-	--	-	--	-	--	-
...PENNALES								
...ACHNANTHACEAE								
...ACHNANTHES	9	1	--	-	26	1	--	-
...COCCONEIS	19	2	--	-	--	-	--	-
...CYMBELLACEAE								
...CYMBELLA	66	6	--	-	--	-	--	-
...DIATOMACEAE								
...DIATOMA	--	-	--	-	65	3	--	-
...FRAGILARIACEAE								
...SYNEDRA	--	-	--	-	180	9	--	-
...NAVICULACEAE								
...NAVICULA	450#	44	--	-	26	1	--	-
...PLAGIOTROPIS	19	2	--	-	--	-	--	-
...NITZSCHIAEAE								
...NITZSCHIA	220#	21	*	0	39	2	52	1
CRYPTOPHYTA (CRYPTOMONADS)								
..CRYPTOPHYCEAE	9	1	--	-	--	-	--	-
...CRYPTOMONADALES								
...CRYPTOCHRYSIDACEAE								
...CHROOMONAS	100	10	--	-	--	-	*	0
...CRYPTOMONADACEAE								
...CRYPTOMONAS	9	1	--	-	--	-	*	0
CYANOPHYTA (BLUE-GREEN ALGAE)								
..CYANOPHYCEAE								
...CHROOCOCCALES								
...CHROOCOCCACEAE								
...AGMENELLUM	--	-	--	-	--	-	--	-
...ANACYSTIS	--	-	--	-	13	1	2100#	56
...HORMOGONALES								
...OSCILLATORIACEAE								
...OSCILLATORIA	--	-	6500#	100	1700#	80	--	-
...PHORMIDIUM	--	-	--	-	78	4	--	-
EUGLENOPHYTA (EUGLENOIDS)								
..EUGLENOPHYCEAE								
...EUGLENALES								
...EUGLENACEAE								
...EUGLENA	--	-	--	-	--	-	*	0

NOTE: # - DOMINANT ORGANISM; EQUAL TO OR GREATER THAN 15%

* - OBSERVED ORGANISM, MAY NOT HAVE BEEN COUNTED; LESS THAN 1/2%

01017100 AROOSTOOK RIVER AT CARIBOU, ME--Continued

PHYTOPLANKTON ANALYSES, OCTOBER 1979 TO SEPTEMBER 1980

DATE TIME	JUL 29,80 1800	SEP 2,80 1645	SEP 23,80 1130
TOTAL CELLS/ML	1400	5600	750
DIVERSITY: DIVISION	1.2	0.1	1.4
..CLASS	1.2	0.1	1.4
...ORDER	1.3	0.3	1.3
....FAMILY	1.8	0.6	2.1
.....GENUS	1.9	0.7	2.2

ORGANISM	CELLS /ML	PER- CENT	CELLS /ML	PER- CENT	CELLS /ML	PER- CENT
CHLOROPHYTA (GREEN ALGAE)						
..CHLOROPHYCEAE						
...CHLOROCOCCALES						
....CHARACIACEAE						
.....SCHROEDERIA	--	-	--	-	--	-
...CHLOROCOCCACEAE						
....CHLOROCOCCUM	--	-	--	-	--	-
...COELASTRACEAE						
....COELASTRUM	280#	20	--	-	--	-
...OOCYSTACEAE						
....ANKISTRODESMUS	13	1	--	-	13	2
...DICTYOSPHAERIUM	--	-	--	-	--	-
...NEPHROCYTIUM	--	-	--	-	--	-
...OOCYSTIS	--	-	--	-	--	-
...SELENASTRUM	13	1	4900#	88	13	2
...TETRAEDRON	13	1	50	1	--	-
...SCENEDESMACEAE						
....CRUCIGENIA	--	-	--	-	--	-
...SCENEDESMUS	230#	17	400	7	160#	21
..VOLVOCALES						
...CHLAMYDOMONADACEAE						
....CHLAMYDOMONAS	13	1	100	2	13	2
...PLATYMONAS	--	-	--	-	--	-
...VOLVOCAEEAE						
...GONIUM	--	-	--	-	--	-
..ZYGNEMATALES						
...DESMIDIACEAE						
...COSMARIIUM	--	-	--	-	--	-
...EUASTRUM	--	-	--	-	13	2
CHRYSOPHYTA						
..BACILLARIOPHYCEAE						
...CENTRALES						
...COSCINODISCAEEAE						
....CYCLOTELLA	--	-	50	1	26	3
....MELOSIRA	26	2	--	-	26	3
...PENNALES						
...ACHNANTHACEAE						
....ACHNANTHES	26	2	--	-	13	2
...COCCONEIS	--	-	--	-	--	-
...CYMBELLACEAE						
....CYMBELLA	--	-	--	-	--	-
...DIATOMACEAE						
....DIATOMA	--	-	--	-	--	-
...FRAGILARIACEAE						
...SYNEDRA	--	-	--	-	--	-
...NAVICULACEAE						
....NAVICULA	--	-	--	-	26	3
...PLAGIOTROPIS	--	-	--	-	--	-
...NITZSCHIAEEAE						
....NITZSCHIA	13	1	50	1	39	5
CRYPTOPHYTA (CRYPTOMONADS)						
..CRYPTOPHYCEAE						
...CRYPTOMONADALES						
....CRYPTOCHRYSIDACEAE						
...CHROOMONAS	--	-	--	-	--	-
...CRYPTOMONADACEAE						
....CRYPTOMONAS	--	-	--	-	--	-
CYANOPHYTA (BLUE-GREEN ALGAE)						
..CYANOPHYCEAE						
...CHROOCOCCALES						
....CHROOCOCCACEAE						
.....AGMENELLUM	--	-	--	-	410#	55
....ANACYSTIS	--	-	--	-	--	-
...HORMOGONALES						
....OSCILLATORIACEAE						
...OSCILLATORIA	770#	55	--	-	--	-
...PHORMIDIUM	--	-	--	-	--	-
EUGLENOPHYTA (EUGLENOIDS)						
..EUGLENOPHYCEAE						
...EUGLENALES						
....EUGLENACEAE						
.....EUGLENA	--	-	--	-	--	-

NOTE: # - DOMINANT ORGANISM; EQUAL TO OR GREATER THAN 15%

° - OBSERVED ORGANISM; MAY NOT HAVE BEEN COUNTED; LESS THAN 1/2%

01017900 MARLEY BROOK NEAR LUDLOW, ME

LOCATION.--Lat 46°08'42", long 68°03'42", Aroostook County, Hydrologic Unit 01010005, on left bank at upstream entrance of culvert under U.S. Route 2, 2,200 ft (671 m) upstream from mouth, and 1.1 mi (1.8 km) west of Ludlow.

DRAINAGE AREA.--1.47 mi² (3.81 km²).

PERIOD OF RECORD.--December 1963 to current year.

GAGE.--Water-stage recorder and concrete control. Altitude of gage is 610 ft (186 m), from topographic map.

REMARKS.--Records good except those for winter period, which are fair. Several observations of water temperature and specific conductance were made during the year.

AVERAGE DISCHARGE.--16 years (water years 1965-80), 2.82 ft³/s (0.080 m³/s), 26.05 in/yr (662 mm/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 335 ft³/s (9.49 m³/s) July 5, 1973, gage height, 10.36 ft (3.158 m); minimum discharge, 0.01 ft³/s (0.001 m³/s) Sept. 8, 11-14, 1977.

EXTREMES FOR CURRENT YEAR.--Peak discharges above base of 25 ft³/s (0.71 m³/s) and maximum (*):

Date	Time	Discharge (ft ³ /s) (m ³ /s)		Gage height (ft) (m)		Date	Time	Discharge (ft ³ /s) (m ³ /s)		Gage height (ft) (m)	
Apr. 11	0245	* 130	3.68	6.94	2.115	Jun. 26	2215	30	0.85	4.77	1.454
Apr. 21	0245	26	0.74	4.66	1.420						

Minimum discharge, 0.06 ft³/s (0.002 m³/s) Aug. 23-26, gage height, 3.51 ft (1.070 m).

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.42	2.8	4.2	1.5	.18	.07	8.7	7.7	.31	3.8	1.1	.98
2	.90	2.4	3.7	1.3	.17	.07	8.6	7.2	.31	3.5	1.0	.63
3	.68	13	3.0	1.1	.15	.07	11	6.6	.31	4.9	1.0	.56
4	1.1	12	2.5	1.0	.14	.07	9.1	6.4	.41	2.6	1.2	.26
5	.30	7.0	2.1	.92	.13	.07	11	5.8	.40	1.3	.98	.19
6	.95	5.5	1.8	.82	.12	.07	9.1	5.3	.25	5.4	.82	.19
7	2.5	5.1	1.6	.75	.11	.07	5.3	5.8	.20	3.6	.78	.16
8	3.5	4.3	1.4	.68	.11	.07	5.6	9.3	.19	1.9	.70	.14
9	3.1	4.5	1.2	.64	.10	.07	11	13	.24	2.8	.64	.13
10	2.8	4.8	1.1	.60	.09	.07	14	9.9	.20	2.4	.44	.14
11	2.4	6.4	1.0	1.4	.09	.08	52	7.8	.19	1.5	.33	.18
12	2.1	5.1	.95	4.5	.08	.09	13	6.0	.17	1.6	.26	.48
13	3.0	4.4	.91	3.2	.08	.09	13	5.0	.16	1.4	.69	.22
14	2.8	4.4	.88	2.3	.08	.09	9.4	5.6	.11	1.5	.36	3.9
15	2.3	4.9	.86	1.8	.08	.09	13	5.2	.10	1.4	.25	4.0
16	2.0	4.4	.85	1.5	.08	.09	15	4.7	.13	1.2	.20	1.8
17	1.8	3.9	1.3	1.2	.08	.09	9.7	3.9	.13	1.0	.19	1.0
18	1.7	3.6	1.8	.96	.07	.90	7.7	3.4	.10	1.1	.13	2.6
19	1.6	3.1	2.0	.83	.07	5.5	6.5	3.0	.09	.71	.11	1.7
20	1.6	2.9	1.2	.72	.07	7.8	5.1	2.1	.09	.70	.10	1.0
21	1.5	3.6	.96	.63	.07	6.4	17	1.6	.70	1.0	.08	.79
22	1.4	4.4	.82	.56	.07	3.6	8.9	1.4	.56	.91	.07	.88
23	1.4	4.4	.90	.49	.07	2.9	13	1.1	.21	4.5	.07	1.2
24	1.9	5.5	1.0	.45	.07	3.4	13	.88	.20	5.0	.06	.90
25	2.6	5.4	1.4	.39	.07	3.1	14	.73	.25	2.8	.06	.76
26	2.1	4.9	3.5	.34	.07	2.2	10	.60	5.3	1.6	.07	2.1
27	1.9	11	3.4	.31	.07	1.7	12	.60	18	1.6	.07	2.9
28	1.6	7.7	2.9	.28	.07	2.0	9.2	.56	9.0	2.7	.18	2.2
29	2.2	6.0	2.4	.26	.07	5.7	7.7	.46	3.8	1.8	.12	2.8
30	3.7	5.0	2.1	.22	---	10	7.7	.40	2.9	1.9	.08	2.8
31	3.6	---	1.7	.20	---	11	---	.31	---	1.9	.82	---
TOTAL	62.05	165.5	55.43	31.85	2.71	57.52	350.3	132.34	45.01	70.02	12.96	37.59
MEAN	2.00	5.32	1.79	1.03	.093	2.18	11.7	4.27	1.50	2.26	.42	1.25
MAX	3.7	13	4.2	4.5	.18	11	52	13	18	5.4	1.2	4.0
MIN	.42	2.5	.82	.20	.07	.07	5.1	.31	.09	.70	.06	.13
CFSM	1.36	3.76	1.22	.70	.06	1.48	7.96	2.91	1.02	1.54	.29	.85
IN	1.57	4.19	1.40	.81	.07	1.71	8.86	3.35	1.14	1.77	.33	.95

CAL YR 1979 TOTAL 1623.96 MEAN 4.45 MAX 64 MIN .02 CFSM 3.03 IN 41.07
WTR YR 1980 TOTAL 1033.24 MEAN 2.92 MAX 52 MIN .06 CFSM 1.92 IN 26.13

01018000 MEDUXNEKEAG RIVER NEAR HOULTON, ME

LOCATION.--Lat 46°06'17", long 67°52'00", Aroostook County, Hydrologic Unit 01010005, on right bank 0.3 mi (0.5 km) downstream from South Branch and 2.0 mi (3.2 km) upstream from Houlton.

DRAINAGE AREA.--175 mi² (453 km²).

PERIOD OF RECORD.--October 1940 to current year. October 1940 monthly discharge only, published in WSP 1301.

REVISED RECORDS.--WSP 1031: 1944.

GAGE.--Water-stage recorder. Datum of gage in 333.92 ft (101.779 m) National Geodetic Vertical Datum of 1929.

REMARKS.--Records good except those for winter period, which are fair. Several observations of water temperature and specific conductance were made during the year.

AVERAGE DISCHARGE.--40 years, 295 ft³/s (8.354 m³/s), 22.89 in/yr (581 mm/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 6,640 ft³/s (188 m³/s) Apr. 3, 1976, gage height 9.98 ft (3.042 m); maximum gage height, 10.83 ft (3.301 m) Mar. 27, 1953 (backwater from ice); minimum discharge, 3.6 ft³/s (0.10 m³/s) Sept. 19, 1946, gage height, 2.09 ft (0.637 m).

EXTREMES FOR CURRENT YEAR.--Peak discharges above base of 2,100 ft³/s (59 m³/s) and maximum (*):

Date	Time	Discharge (ft ³ /s) (m ³ /s)	Gage height (ft) (m)	Date	Time	Discharge (ft ³ /s) (m ³ /s)	Gage height (ft) (m)
Apr. 11	2400	* 3,610 102	7.41 2.258				

Minimum discharge not determined, occurred during period of backwater from ice; minimum daily discharge (23.0 ft³/s (0.651 m³/s) Mar. 8.

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	66	186	309	190	53	25	690	587	130	187	167	65
2	75	170	260	170	50	25	638	552	90	175	156	71
3	83	340	219	150	47	24	631	507	83	198	139	76
4	94	1070	209	140	45	24	631	468	127	183	127	67
5	104	1010	196	120	42	24	751	432	191	153	115	61
6	113	683	189	115	40	24	882	396	156	187	109	55
7	113	489	180	105	38	24	644	386	133	213	130	50
8	219	401	175	99	36	23	478	491	121	183	136	45
9	326	340	170	94	35	24	473	899	118	183	133	41
10	292	377	165	89	34	25	588	1030	112	191	118	39
11	264	546	160	88	33	25	2530	846	103	167	101	39
12	230	517	155	250	32	26	2860	668	95	167	95	47
13	256	431	150	430	31	27	1620	581	88	164	133	39
14	272	367	145	390	30	27	1210	524	80	171	136	65
15	241	381	140	325	29	27	1030	496	73	149	133	156
16	212	362	140	270	28	28	1180	455	80	136	139	139
17	199	318	155	230	28	28	1010	410	85	143	118	171
18	167	276	175	200	27	150	738	372	85	202	98	175
19	152	234	145	170	27	580	581	362	85	171	83	195
20	149	212	200	150	26	800	491	357	83	146	69	160
21	149	249	185	130	26	750	624	330	98	133	65	130
22	144	288	165	120	26	650	649	307	146	118	59	121
23	136	300	150	105	25	575	662	279	133	187	55	124
24	130	331	140	95	25	530	788	257	121	240	50	121
25	144	344	145	87	25	480	763	236	124	224	48	101
26	141	340	200	80	25	450	707	217	121	195	47	98
27	128	426	340	72	25	425	726	202	325	167	45	143
28	122	512	330	67	25	410	738	187	443	160	50	139
29	128	441	290	63	25	465	649	175	297	143	50	121
30	176	372	245	60	---	588	593	156	205	136	47	103
31	192	---	210	56	---	683	---	143	---	160	48	---
TOTAL	5221	12313	6087	4710	938	7966	26555	13308	4131	5332	2999	2957
MEAN	168	410	196	152	32.3	257	845	429	134	172	96.7	98.6
MAX	326	1070	340	430	53	800	2860	1030	443	240	167	195
MIN	66	170	140	56	25	23	473	143	73	118	45	39
CFSM	.96	2.34	1.12	.87	.19	1.47	5.06	2.45	.79	.98	.55	.56
IN.	1.11	2.62	1.29	1.00	.20	1.69	5.64	2.83	.88	1.13	.54	.63
CAL YR 1979	TOTAL	154465	MEAN 423	MAX 5430	MIN 31	CFSM 2.42	IN 32.83					
WTR YR 1980	TOTAL	92517	MEAN 253	MAX 2860	MIN 23	CFSM 1.45	IN 19.67					

01018500 ST. CROIX RIVER AT VANCEBORO, ME
(International gaging station)

LOCATION.--Lat 45°34'08", long 67°25'47", Washington County, Hydrologic Unit 01050001, on right bank at international highway bridge in Vanceboro and 400 ft (120 m) downstream from outlet of Spednik Lake.

DRAINAGE AREA.--417 mi² (1,080 km²).

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

REVISED RECORDS.--WSP 1431: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 367.75 ft (112.090 m) National Geodetic Vertical Datum of 1929.

REMARKS.--Records good except those for period of no gage-height record, Apr. 30 to May 20, which are fair. Flow regulated by Chiputneticook Lakes, combined usable capacity, about 13,200,000,000 ft³ (374,000,000 m³). Final regulation is at Spednik Lake Dam about 400 ft (120 m) upstream. Several observations of water temperature and specific conductance were made during the year.

COOPERATION.--This station is maintained by the United States under agreement with Canada.

AVERAGE DISCHARGE.--52 years, 717 ft³/s (20.31 m³/s).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 6,670 ft³/s (189 m³/s) Apr. 4, 1976, gage height, 10.88 ft (3.316 m); minimum daily, 1.9 ft³/s (0.054 m³/s) Oct. 22, Nov. 4, 1936, when flow was held back by cofferdam during repairs to dam just upstream.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 1,560 ft³/s (44.2 m³/s) Sept. 5, gage height, 6.63 ft (2.021 m); minimum daily, 250 ft³/s (7.31 m³/s) Apr. 3-5.

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	794	800	840	1070	688	650	308	275	843	498	461	799
2	742	800	840	1060	814	638	287	275	841	498	463	797
3	789	805	840	984	790	616	258	275	839	498	465	799
4	595	818	840	912	823	693	258	275	837	497	465	865
5	444	823	836	912	820	700	258	275	836	494	465	1510
6	444	827	992	884	816	697	261	275	833	494	465	1510
7	445	827	1160	877	804	691	266	275	830	493	465	1500
8	450	831	1160	904	807	686	269	275	829	483	465	1020
9	451	831	1150	902	804	683	270	280	619	469	472	758
10	454	836	1150	897	774	632	271	280	334	522	472	758
11	454	836	1140	894	766	407	273	280	334	602	471	815
12	454	840	1130	901	814	410	272	280	334	607	469	894
13	454	840	1130	996	888	408	274	280	566	605	469	886
14	454	840	1120	894	882	408	276	280	516	605	469	885
15	456	845	1120	890	877	410	280	280	342	605	470	885
16	456	859	1120	887	870	410	280	285	342	601	472	886
17	454	887	1110	885	869	410	265	285	342	599	472	884
18	454	883	1100	881	830	386	263	290	342	597	472	884
19	453	894	719	879	855	334	262	290	342	597	472	696
20	454	840	726	877	920	334	262	300	364	595	469	570
21	454	840	909	873	982	337	262	303	810	593	465	568
22	454	840	1080	802	1010	341	262	304	520	538	465	568
23	454	840	1080	867	1160	342	265	399	360	461	465	568
24	454	840	1080	811	1140	314	267	521	338	461	465	571
25	454	840	1070	675	1130	293	267	521	337	461	465	573
26	456	836	1080	804	1100	292	268	521	336	461	647	508
27	454	845	1080	854	892	295	273	521	389	461	811	444
28	454	840	1080	851	963	297	275	521	498	461	809	447
29	528	845	1080	841	883	298	275	514	498	461	807	447
30	808	845	1080	638	---	301	275	687	498	461	804	447
31	802	---	1070	574	---	304	---	846	---	461	801	---
TOTAL	16033	23973	31912	26876	25782	14015	8102	11268	16049	16239	16367	23742
MEAN	517	799	1029	867	889	452	270	363	535	524	528	791
MAX	808	845	1160	1070	1160	700	308	846	843	607	811	1510
MIN	444	443	719	574	688	292	258	275	334	461	461	444
CAL YR 1979 TOTAL	373794		MEAN	1024	MAX	5650	MIN	328				
YR 1980 TOTAL	230358		MEAN	629	MAX	1510	MIN	258				

01019000 GRAND LAKE STREAM AT GRAND LAKE STREAM, ME

LOCATION.--Lat 45°10'23", long 67°46'06", Washington County, Hydrologic Unit 01050001. on left bank at Big Falls, 0.5 mi (0.8 km) southeast of village of Grand Lake Stream, and 0.8 mi (1.3 km) downstream from outlet dam of Grand Lake.

DRAINAGE AREA.--224 mi² (580 km²).

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

REVISED RECORDS.--WSP 971: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 273.96 ft (83.503 m) National Geodetic Vertical Datum of 1929.

REMARKS. Records good. Flow completely regulated by Grand Lake, 0.8 mi (1.3 km) upstream, and other lakes, combined usable capacity about 8,250,000,000 ft³ (234,000,000 m³). Several observations of water temperature and specific conductance were made during the year.

AVERAGE DISCHARGE.--52 years, 396 ft³/s (11.21 m³/s).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 2,840 ft³/s (80.4 m³/s) June 12, 1952, gage height, 6.35 ft (1.935 m); minimum daily, 5 ft³/s (0.14 m³/s) Dec. 3-6, 1945.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 1,210 ft³/s (34.3 m³/s) Feb. 5, gage height, 4.23 ft (1.289 m); maximum gage height 5.24 ft (1.597 m) Dec. 21 (backwater from ice); minimum daily discharge, 169 ft³/s (4.79 m³/s) Sept. 13.

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	576	222	245	344	1070	312	213	238	241	235	232	204
2	549	221	245	344	1160	311	213	236	241	235	232	204
3	578	235	245	415	1140	309	213	236	241	235	232	204
4	390	238	245	521	1110	307	215	237	244	234	232	202
5	222	235	245	521	1160	305	217	235	243	233	232	547
6	222	235	245	521	1180	305	216	235	241	233	233	733
7	222	235	248	516	1150	303	216	235	241	232	233	728
8	228	235	250	516	1130	304	216	236	242	232	232	431
9	227	235	253	669	1100	305	216	238	244	232	235	172
10	228	238	251	768	1080	303	217	238	243	230	234	170
11	227	238	251	763	1050	305	226	238	242	228	232	170
12	225	238	251	770	960	307	225	240	242	228	233	170
13	226	238	251	769	890	305	226	241	241	233	235	169
14	226	239	280	842	719	308	228	241	241	233	224	170
15	225	238	337	970	624	309	230	241	241	233	210	172
16	225	239	337	963	619	308	231	241	242	233	210	170
17	225	238	345	955	619	305	232	241	241	233	210	170
18	225	238	345	948	612	330	232	241	240	233	210	173
19	225	238	345	941	606	327	232	241	240	233	210	172
20	225	238	345	933	600	323	230	241	238	233	209	171
21	225	241	345	923	486	323	231	241	240	233	207	172
22	224	240	345	1020	321	324	232	241	239	233	207	170
23	222	241	339	1170	322	325	235	241	238	233	207	170
24	222	241	339	1150	320	234	235	240	238	233	207	170
25	224	241	342	1130	319	170	235	243	238	233	207	170
26	222	241	345	1120	319	210	235	244	238	232	207	172
27	222	244	344	1100	316	210	235	242	238	232	207	172
28	222	245	344	1080	315	210	235	242	237	232	207	171
29	223	245	344	1060	315	211	235	241	237	232	204	170
30	223	245	344	1050	---	213	236	241	236	232	204	170
31	222	---	344	1040	---	213	---	241	---	232	204	---
TOTAL	8187	7135	9334	25832	21612	8838	6788	7428	7208	7208	6778	7009
MEAN	264	238	301	833	745	285	226	240	240	233	219	234
MAX	589	245	345	1170	1180	330	236	244	244	235	235	733
MIN	222	221	245	344	315	170	213	235	236	228	204	169

CAL YR 1979 TOTAL 174364 MEAN 478 MAX 1970 MIN 210
WTR YR 1980 TOTAL 123357 MEAN 337 MAX 1180 MIN 169

01020000 ST. CROIX RIVER NEAR BAILEYVILLE, ME
(International gaging station)

LOCATION.--Lat 45°15'55", long 67°28'36", Washington County, Hydrologic Unit 01050001, in township of Baileyville, on right bank 700 ft (213 m) downstream from powerhouse of Georgia-Pacific Corporation at Grand Falls, and 8 mi (13 km) upstream from village of Woodland.

DRAINAGE AREA.--1,320 mi² (3,419 km²).

PERIOD OF RECORD.--October 1919 to current year. Monthly discharge only for some periods, published in WSP 1301.

REVISED RECORDS.--WSP 1231: 1922.

GAGE.--Water-stage recorder. Datum of gage is 148.8 ft (45.42 m) National Geodetic Vertical Datum of 1929.

REMARKS.--Records good. Flow regulated by Chiputneticook Lakes, Grand and other lakes, combined capacity about 25,000,000,000 ft³ (708,000,000 m³). Final regulation is at Grand Falls Dam about 700 ft (213 m) upstream. Several observations of water temperature and specific conductance were made during the year.

COOPERATION.--This station is maintained by the United States under agreement with Canada.

AVERAGE DISCHARGE.--61 years, 2,334 ft³/s (66.10 m³/s).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge about 23,300 ft³/s (660 m³/s) May 1, 1923, gage height, 13.90 ft (4.237 m); minimum daily, 64 ft³/s (1.81 m³/s) Oct. 13, 1957.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 5,900 ft³/s (167 m³/s) Nov. 5, gage height, 5.01 ft (1.527 m); minimum daily, 700 ft³/s (19.8 m³/s) July 8.

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1010	2120	2700	2850	2410	990	3400	2790	1010	860	2080	1170
2	1100	2170	2700	2840	2350	1090	3690	2780	1010	860	2200	1500
3	1180	2240	2720	2820	2360	1330	3390	2750	1020	860	2200	2040
4	1400	2540	2690	2810	2340	1050	3160	2780	1020	855	2200	1900
5	2210	4460	2700	2820	2330	1140	3290	2790	1000	855	2170	2700
6	2570	5580	2640	2810	2330	1090	4010	2500	1010	855	2140	2670
7	2480	5210	2720	2800	2340	984	4200	2310	1160	855	2130	2580
8	3750	4750	2760	2780	2270	956	3540	2310	1030	700	2130	1740
9	4080	4370	2740	2810	2050	964	3150	2310	1160	992	2300	1220
10	4030	5100	2640	2800	1860	907	2770	2300	1420	947	2290	1300
11	3950	5040	2590	2680	1860	880	2720	2300	1400	870	2230	1220
12	3830	4710	2520	2540	1870	878	3220	2330	1390	870	2200	1310
13	3760	4430	2540	2590	1860	871	4100	2310	1380	877	2200	1270
14	3680	4000	2530	2580	1880	875	4720	2310	1380	955	2160	1270
15	3580	3990	2540	2630	1870	874	4990	2290	1370	885	2120	1360
16	2960	3650	2550	2660	1870	872	4890	2290	1370	877	2110	1730
17	2710	3460	2560	2660	1860	1350	4740	2270	1390	900	2090	1130
18	2670	3240	1900	2660	1860	1550	4260	2160	1390	885	1930	1160
19	2610	2480	2690	2650	1860	1710	3900	1990	1380	893	1640	1200
20	2560	1970	2660	2650	1870	1320	3870	1720	1390	900	1850	1770
21	2510	2260	3090	2660	1920	1220	3640	1630	1680	916	1880	1960
22	2450	2840	2860	2640	1900	2330	3480	1570	1550	1010	1650	2060
23	2170	2580	2640	2630	1900	2930	3200	1390	1170	1360	1570	1770
24	2030	2550	1760	2640	1900	3300	3030	1350	1160	1510	1540	1600
25	2020	2570	1310	2660	1740	3390	3030	1340	1160	1850	1530	1670
26	2000	2570	2060	2640	1510	3380	3030	1350	1080	1850	1530	1820
27	1980	2610	2760	2640	1500	3310	3020	1230	1160	1850	1490	2340
28	1990	2680	2890	2630	1340	3250	2670	1020	955	1850	1390	2270
29	1990	2710	2890	2630	1010	3220	2300	1020	960	1560	1540	2260
30	2030	2740	2910	2630	---	3280	2600	1030	900	1260	1790	2230
31	2080	---	2880	2560	---	3370	---	1030	---	1970	1660	---
TOTAL	79370	101620	80530	83400	56020	54661	106010	61550	36455	34537	59940	52220
MEAN	2560	3387	2598	2690	1932	1763	3534	1985	1215	1114	1934	1741
MAX	4080	5580	3090	2850	2410	3390	4990	2790	1680	1970	2300	2700
MIN	1010	1970	1310	2540	1010	871	2300	1020	900	700	1390	1130

CAL YR 1979 TOTAL 1335159 MEAN 3658 MAX 18600 MIN 791
WTR YR 1980 TOTAL 806313 MEAN 2203 MAX 5580 MIN 700

01021000 ST. CROIX RIVER AT BARING, ME
(International gaging station)

LOCATION.--Lat 45°08'12", long 67°19'05", Washington County, Hydrologic Unit 01050001, on right bank at site of destroyed international highway bridge at Baring.

DRAINAGE AREA.--1,370 mi² (3,548 km²).

PERIOD OF RECORD.--Discharge: October 1958 to current year.
Water temperatures: October 1959 to September 1976.

GAGE.--Water-stage recorder. Datum of gage is 66.231 ft (20.187 m) National Geodetic Vertical Datum of 1929.

REMARKS.--Records good. Flow regulated by Chiputneticook Lakes, Grand, and other lakes, combined capacity about 25,000,000,000 ft³ (708,000,000 m³). Final regulation is at Woodland, 5.6 mi (9.0 km) upstream from gage. Several observations of water temperature and specific conductance were made during the year.

COOPERATION.--This station is maintained by the United States under agreement with Canada.

AVERAGE DISCHARGE.--21 years (water years 1960-80), 2,716 ft³/s (76.92 m³/s).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 23,500 ft³/s (666 m³/s) May 29, 1961, gage height, 12.76 ft (3.889 m); minimum daily, 262 ft³/s (7.42 m³/s) Oct. 20, 1964.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 6,660 ft³/s (189 m³/s) Nov. 6, gage height, 8.51 ft (2.594 m); minimum daily, 778 ft³/s (22.0 m³/s) Mar. 7.

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1100	2070	2710	2800	2400	976	3660	2920	1110	910	2070	1390
2	1490	2260	2640	2720	2350	1290	3780	2910	1250	918	2100	1440
3	1420	2260	2640	2830	2350	1480	3720	2890	1120	917	2200	1920
4	1230	2560	2640	2940	2350	1050	3400	2880	996	901	2200	1860
5	1990	4190	2700	2780	2350	980	3920	2900	998	902	2180	2700
6	2620	6060	2590	2810	2350	899	4320	2720	1000	905	2140	2680
7	2570	5500	2680	2770	2350	778	4600	2410	1030	900	2120	2660
8	3640	5030	2730	2850	2300	781	3910	2460	1110	900	2080	1740
9	4450	4580	2980	2730	2100	798	3300	2540	1280	1020	2160	1240
10	4270	5130	2670	2700	1900	830	3070	2520	1290	970	2250	1120
11	4160	5330	2520	2750	1900	970	3050	2480	1490	880	2400	1200
12	4000	5080	2520	2870	1900	1040	3410	2220	1840	890	2500	1330
13	3890	4810	2520	2770	1900	1060	4310	2340	1510	890	1890	1320
14	3600	4180	2510	2270	1900	934	5090	2530	1260	990	2120	1410
15	3640	4160	2510	2460	1900	811	5450	2390	1270	900	2270	1250
16	3160	3870	2500	2650	1900	866	5380	2300	1400	900	2180	1570
17	2610	3450	2780	2620	1900	1100	5180	2270	1400	910	1750	1320
18	2460	3450	2100	2630	1900	2630	4650	2140	1300	910	1530	1150
19	2570	2880	2300	2630	1900	2870	4150	2100	1290	920	1810	1260
20	2580	1820	3000	2630	1700	2310	4070	2050	1400	930	1660	1660
21	2540	1860	3170	2620	1950	1350	3860	1740	1750	960	1900	1930
22	2440	2360	2950	2650	1790	2240	3730	1460	1600	1100	1630	2110
23	2180	2700	2640	2600	1910	3120	3680	1180	1200	1400	1530	1930
24	1830	2630	1980	2650	1880	3650	3360	1300	1180	1650	1520	1650
25	1890	2600	1530	2650	1800	3730	3290	1470	1070	1900	1530	1620
26	2070	2590	2240	2650	1620	3680	3250	1410	960	1950	1550	1880
27	2050	2640	2860	2600	1670	3590	3230	1390	1320	1980	1540	2490
28	1920	2670	3000	2600	1490	3410	3000	1060	1140	1980	1190	2350
29	1810	2690	3010	2600	947	3340	2310	994	1130	1950	1480	2290
30	1940	2730	2810	2600	---	3570	2940	986	1020	1920	1660	2210
31	1990	---	2210	2550	---	3610	---	1000	---	1880	1670	---
TOTAL	80110	105140	81730	82980	56657	59743	115070	63960	37714	37033	58810	52680
MEAN	2584	3505	2636	2677	1954	1927	3836	2063	1257	1195	1897	1756
MAX	4450	6060	3170	2940	2400	3730	5450	2920	1840	1980	2500	2700
MIN	1100	1820	1530	2270	447	778	2310	986	960	880	1190	1120
CAL YR 1979	TOTAL	1389777	MEAN	2808	MAX	19700	MIN	808				
WTR YR 1980	TOTAL	831627	MEAN	2272	MAX	6060	MIN	778				

01021050 ST. CROIX RIVER AT MILLTOWN, ME
(National stream-quality accounting network station)

LOCATION.--Lat 45°10'11", long 67°17'50", Washington County, Hydrologic Unit 01050001, on right bank 30 ft (9 m) downstream from international highway bridge at Milltown.

DRAINAGE AREA.--1,460 mi² (3,780 km²).

PERIOD OF RECORD.--Water years 1969 to current year.

PERIOD OF DAILY RECORD.--

SPECIFIC CONDUCTANCE: July 1972 to current year.

pH: July 1972 to current year.

WATER TEMPERATURES: September 1969 to current year.

DISSOLVED OXYGEN: September 1969 to current year.

INSTRUMENTATION.--Water-quality monitor since August 1969.

REMARKS.--Monitor not operated during winter periods, water years 1969 to 1975. Other interruptions in the record were due to malfunctions of the monitor.

EXTREMES FOR PERIOD OF DAILY RECORD.--

SPECIFIC CONDUCTANCE: Maximum, 334 micromhos Aug. 6, 1979; minimum, 23 micromhos May 2-4, 6, 1979.

pH: Maximum, 11.6 units Sept. 28, 1974; minimum, 5.3 units Oct. 18, 1973.

WATER TEMPERATURES: Maximum, 28.0°C July 21, 22, 1977; minimum, 0.0°C on many days during winter periods.

DISSOLVED OXYGEN: Maximum, 14.4 mg/L Nov. 16, 1976; minimum, 0.5 mg/L Aug. 19, 1975, Aug. 28, 1980.

EXTREMES FOR CURRENT YEAR.--

SPECIFIC CONDUCTANCE: Maximum, 175 micromhos Aug. 28; minimum, 44 micromhos Nov. 11.

pH: Maximum, 7.7 units Aug. 28; minimum, 6.1 units Nov. 11.

WATER TEMPERATURES: Maximum, 25.5°C Aug. 5; minimum, 0.0°C on many days during winter period.

DISSOLVED OXYGEN: Maximum, 13.6 mg/L Dec. 20, 21; minimum, 0.5 mg/L Aug. 28.

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

DATE	TIME	STREAM- FLOW, INSTAN- TANEOUS (CFS)	SPE- CIFIC CON- DUCT- ANCE (MICRO- MHOS)	PH FIELD (UNITS)	TEMPER- ATURE, AIR (DEG C)	TEMPER- ATURE, WATER (DEG C)	TUR- BID- ITY (NTU)	OXYGEN, DIS- SOLVED (MG/L)	OXYGEN, DIS- SOLVED (PER- CENT SATUR- ATION)	COLI- FORM, FECAL, 0.7 UM-MF (COLS./ 100 ML)	STREP- TOCOCCI FECAL, KF AGAR (COLS. PEP 100 ML)	HARD- NESS (MG/L AS CAC03)
OCT 30...	0845	1890	84	6.5	8.5	8.5	1.0	10.0	85	53	32	16
NOV 20...	0900	1820	68	6.6	2.0	2.5	1.0	12.2	89	K11	K9	13
DEC 11...	0830	2520	75	7.2	-1.0	.5	2.0	13.2	92	43	K18	16
JAN 23...	1545	2570	75	6.6	2.0	.0	.50	12.6	86	37	K4	13
FEB 22...	0845	2070	110	6.8	--	.0	.80	12.5	86	K52	K6	13
MAR 25...	0900	3740	60	6.5	7.0	1.0	.50	12.6	89	K11	K6	11
MAY 01...	1700	2090	52	6.6	19.0	11.0	1.5	10.4	94	45	K4	12
21...	0930	1990	70	6.7	13.0	15.0	.55	8.6	84	K7	K3	14
JUN 26...	1700	960	100	6.7	27.5	24.0	1.4	6.3	74	35	28	17
JUL 31...	0845	1880	82	6.6	25.5	23.0	1.4	5.6	64	580	59	15
SEP 04...	0900	1730	68	6.6	20.0	21.5	.40	4.9	55	31	96	15
25...	0900	1470	89	6.9	13.0	13.5	.75	7.0	67	K68	90	18

ST. CROIX RIVER BASIN

01021050 ST. CROIX RIVER AT MILLTOWN, ME--Continued

CHEMICAL ANALYSFS, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

DATE	HARD- NESS, NONCAR- BONATE (MG/L CACO3)	CALCIUM DIS- SOLVED (MG/L AS CA)	MAGNE- SIUM, DIS- SOLVED (MG/L AS MG)	SODIUM, DIS- SOLVED (MG/L AS NA)	SODIUM PERCENT	SODIUM AD- SORP- TION RATIO	SODIUM+ POTAS- SIUM DIS- SOLVED (MG/L AS NA)	POTAS- SIUM, DIS- SOLVED (MG/L AS K)	ALKA- LINITY (MG/L AS CACO3)	SULFATE DIS- SOLVED (MG/L AS SO4)	CHLO- RIDE, DIS- SOLVED (MG/L AS CL)	FLUO- RIDE, DIS- SOLVED (MG/L AS F)
OCT 30...	4	5.0	.8	11	64	1.2	12	.7	12	6.2	9.8	.0
NOV 20...	1	3.9	.7	6.0	50	.7	6.5	.5	12	6.1	7.0	.1
DEC 11...	0	5.1	.8	14	69	1.5	15	.7	25	5.8	16	.0
JAN 23...	1	4.2	.7	7.8	60	.9	8.4	.6	12	7.3	8.2	.1
FEB 22...	0	4.9	.2	11	63	1.3	5.1	.8	16	7.3	9.6	.1
MAR 25...	0	3.5	.6	4.3	44	.6	4.8	.5	12	5.0	4.6	.1
MAY 01...	6	3.8	.6	4.3	42	.5	--	.7	6	5.1	5.7	.1
21...	3	4.4	.7	8.0	54	.9	--	.6	11	6.4	9.3	.1
JUN 26...	2	5.3	.8	12	60	1.3	--	.9	15	7.8	13	.1
JUL 31...	2	4.6	.8	9.1	56	1.0	--	.7	13	7.1	8.9	.1
SEP 04...	0	4.5	.8	6.1	46	.7	--	.7	18	4.5	5.9	.1
25...	0	5.9	.8	8.6	50	.9	--	.8	18	5.3	7.2	.1

DATE	SILICA, DIS- SOLVED (MG/L AS SiO2)	SOLIDS, RESIDUE AT 180 DEG. C DIS- SOLVED (MG/L)	SOLIDS, SUM OF CONSTITUENTS, DIS- SOLVED (MG/L)	SOLIDS, DIS- SOLVED (TONS PER AC-FT)	SOLIDS, DIS- SOLVED (TONS PER DAY)	NITRO- GEN, NO2+NO3 TOTAL (MG/L AS N)	NITRO- GEN, NO2+NO3 DIS- SOLVED (MG/L AS N)	NITRO- GEN, AMMONIA TOTAL (MG/L AS N)	NITRO- GEN, AMMONIA DIS- SOLVED (MG/L AS N)	NITRO- GEN, AMMONIA TOTAL (MG/L AS NH4)	NITRO- GEN, AMMONIA DIS- SOLVED (MG/L AS NH4)	NITRO- GEN, ORGANIC TOTAL (MG/L AS N)
OCT 30...	3.0	64	44	.09	327	.05	.06	.050	.010	.06	.01	1.1
NOV 20...	3.2	48	35	.07	236	.07	.05	.030	.000	.04	.00	.42
DEC 11...	3.3	76	61	.10	517	.06	.07	.090	.050	.11	.06	.37
JAN 23...	3.0	52	39	.07	361	.05	.06	.150	.140	.18	.18	.31
FEB 22...	.8	68	45	.09	380	.04	.08	.180	.180	.22	.23	.38
MAR 25...	1.8	31	28	.04	313	.07	.08	.110	.110	.13	.14	.42
MAY 01...	1.5	44	26	.06	248	.07	.14	.090	.090	.11	.12	.66
21...	1.0	49	38	.07	263	.15	.08	.090	.100	.11	.13	.48
JUN 26...	1.0	74	50	.10	192	1.9	.10	.110	.090	.13	.12	.59
JUL 31...	2.0	82	41	.11	416	.06	.07	.080	.050	.10	.06	.13
SEP 04...	1.7	66	36	.09	308	.05	.04	.030	.350	.04	.45	.27
25...	2.3	62	42	.08	246	.05	.07	.060	.050	.07	.06	.42

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

[illegible]

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

[illegible]

01021050 ST. CROIX RIVER AT MILLTOWN, ME--Continued

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

DATE	SILVER, SUS- PENDE REC OV- ERABLE (UG/L AS AG)	SILVER, DIS- SOLVED (UG/L AS AG)	ZINC, TOTAL REC OV- EPABLE (UG/L AS ZN)	ZINC, SUS- PENDE REC OV- EPABLE (UG/L AS ZN)	ZINC, DIS- SOLVED (UG/L AS ZN)	CARBON, ORGANIC TOTAL (MG/L AS C)	CARBON, ORGANIC DIS- SOLVED (MG/L AS C)	CARBON, ORGANIC SUS- PENDE (MG/L AS C)	SEDI- MENT, DIS- CHARGE, SUS- PENDE (MG/L)	SEDI- MENT DIS- CHARGE, SUS- PENDE (T/DAY)	SED. SUSP. SIEVE DIAM. % FINER THAN .062 MM
OCT 30...	--	--	--	--	--	13	--	--	5	26	100
NOV 20...	0	0	20	10	10	--	112	.6	9	44	67
DEC 11...	--	--	--	--	--	19	--	--	4	27	100
JAN 23...	--	--	--	--	--	14	--	--	4	28	98
FEB 22...	1	0	40	30	8	--	105	1.1	4	22	69
MAR 25...	--	--	--	--	--	6.0	--	--	6	61	100
MAY 01...	--	--	--	--	--	8.3	--	--	4	23	80
21...	0	0	10	0	10	--	420	.4	11	59	68
JUN 26...	--	--	--	--	--	9.3	--	--	4	10	94
JUL 31...	--	--	--	--	--	13	--	--	5	25	100
SEP 04...	0	0	10	0	120	--	266	.5	7	33	100
25...	--	--	--	--	--	--	--	--	5	20	100

BIOLOGICAL DATA, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

PERIPHYTON

(Sampling method - Polyethylene strip)

DATES OF EXPOSURE	LENGTH OF EXPO- SURE (DAYS)	PERI- PHYTON BIOMASS TOTAL DRY WEIGHT (G/SQ M)	PERI- PHYTON BIOMASS ASH WEIGHT (G/SQ M)	CHLOR-A PERI- PHYTON CHROMO- GRAPHIC FLUOROM. (MG/M ²)	CHLOR-B PERI- PHYTON CHROMO- GRAPHIC FLUOROM. (MG/M ²)	BIOMASS PIGMENT RATIO
SEP 19 TO OCT 30	41	1.50	.950	4.55	.460	121
MAY 01 TO MAY 21	20	.709	.157	.180	.000	3070
MAY 21 TO JUL 31	71	36.0	19.9	.550	.150	29300
JUL 31 TO SEP 04	35	3.70	2.13	.400	.170	3920
SEP 04 TO SEP 25	21	4.25	2.13	.630	.170	3360

01021050 ST. CROIX RIVER AT MILLTOWN, ME--Continued

PHYTOPLANKTON ANALYSES, OCTOBER 1979 TO SEPTEMBER 1980

DATE TIME	NOV 20,79 0900	MAR 25,80 0900	MAY 21,80 0930	JUN 26,80 1700
TOTAL CELLS/ML	89000	1700	4600	90000
DIVERSITY: DIVISION	0.0	0.2	0.2	0.1
..CLASS	0.0	0.2	0.2	0.1
...ORDER	0.0	0.2	0.2	0.1
...FAMILY	0.0	0.2	0.3	0.2
....GENUS	0.0	0.2	0.9	0.3

ORGANISM	CELLS /ML	PER- CENT	CELLS /ML	PER- CENT	CELLS /ML	PER- CENT	CELLS /ML	PER- CENT
CHLOROPHYTA (GREEN ALGAE)								
..CHLOROPHYCEAE								
...CHLOROCOCCALES								
...HYDRODICTYACEAE								
....PEDIASTRUM	--	-	--	-	--	-	*	0
....OOCYSTACEAE								
....ANKISTRODESMUS	--	-	--	-	--	-	*	0
....DICTYOSPHAERIUM	--	-	--	-	--	-	--	-
....OOCYSTIS	--	-	--	-	--	-	*	0
....TETRAEDRON	--	-	--	-	--	-	*	0
...SCENEDESMACEAE								
...CRUCIGENIA	--	-	--	-	--	-	--	-
...SCENEDESMUS	--	-	--	-	--	-	*	0
..VOLVOCALES								
...CHLAMYDOMONADACEAE								
...CHLAMYDOMONAS	--	-	--	-	52	1	*	0
..ZYGNEATALES								
...DESMIDIACEAE								
....COSMARIUM	--	-	--	-	--	-	*	0
....EUASTRUM	--	-	--	-	--	-	--	-
CHRYSTOPHYTA								
..BACILLARIOPHYCEAE								
...CENTRALES								
...COSCINODISCACEAE								
....CYCLOTELLA	*	0	--	-	--	-	--	-
....MELOSIRA	--	-	--	-	--	-	--	-
..PENNALES								
...ACHNANTHACEAE								
...ACHNANTHES	*	0	29	2	--	-	--	-
...DIATOMACEAE								
....DIATOMA	--	-	--	-	*	0	--	-
...FRAGILARIACEAE								
....ASTERIONELLA	--	-	--	-	*	0	--	-
...FRAGILARIA	--	-	--	-	--	-	*	0
....SYNEDRA	--	-	--	-	26	1	--	-
...NAVICULACEAE								
....NAVICULA	--	-	14	1	*	0	--	-
...NITZSCHIA	--	-	--	-	26	1	--	-
CRYPTOPHYTA (CRYPTOMONADS)								
..CRYPTOPHYCEAE								
...CRYPTOMONADALES								
...CRYPTOMONADACEAE								
....CRYPTOMONAS	*	0	--	-	--	-	*	0
CYANOPHYTA (BLUE-GREEN ALGAE)								
..CYANOPHYCEAE								
...CHROOCOCCALES								
...CHROOCOCCACEAE							*	0
....ANACYSTIS	--	-	--	-	--	-		
...HORMOGONALES								
...NOSTOCACEAE								
....APHANIZOMENON	--	-	--	-	--	-	660	1
...OSCILLATORIA								
....LYNGBYA	--	-	--	-	780#	17	960	1
...OSCILLATORIA	--	-	1700#	97	3700#	80	87000#	97
...SCHIZOTHRIX	89000#100		--	-	--	-	--	-
EUGLENOPHYTA (EUGLENOIDS)								
..EUGLENOPHYCEAE								
...EUGLENALES								
...EUGLENACEAE								
....TRACHELOMONAS	--	-	--	-	--	-	*	0
PYRRHOPHYTA (FIRE ALGAE)								
..DINOPHYCEAE								
...PERIDINIALES								
...GLENODINIACEAE								
....GLENODINIUM	--	-	--	-	--	-	*	0

NOTE: # - DOMINANT ORGANISM; EQUAL TO OR GREATER THAN 15%

* - OBSERVED ORGANISM, MAY NOT HAVE BEEN COUNTED; LESS THAN 1/2%

01021050 ST. CROIX RIVER AT MILLTOWN, ME--Continued

PHYTOPLANKTON ANALYSES, OCTOBER 1979 TO SEPTEMBER 1980

DATE TIME	JUL 31.80 0845	SEP 4.80 0900	SEP 25.80 0900			
TOTAL CELLS/ML	6700	3000	310			
DIVERSITY: DIVISION	0.3	0.5	0.5			
..CLASS	0.3	0.5	0.5			
...ORDER	0.3	0.8	1.5			
...FAMILY	0.3	0.8	1.5			
....GENUS	0.4	0.8	1.5			
ORGANISM	CELLS /ML	PER- CENT	CELLS /ML	PER- CENT	CELLS /ML	PER- CENT
CHLOROPHYTA (GREEN ALGAE)						
..CHLOROPHYCEAE						
...CHLOROCOCCALES						
...HYDRODICTYACEAE						
....PEDIASTRUM	--	-	--	-	--	-
....OOCYSTACEAE						
....ANKISTRODESMUS	*	0	--	-	--	-
....DICTYOSPHAERIUM	52	1	--	-	--	-
....OOCYSTIS	52	1	--	-	--	-
....TETRAEDRON	--	-	--	-	--	-
...SCENEDESMACEAE						
....CRUCIGENIA	52	1	52	2	--	-
....SCENEDESMUS	52	1	--	-	--	-
..VOLVOCALES						
...CHLAMYDOMONADACEAE						
....CHLAMYDOMONAS	*	0	*	0	13	4
..ZYGNEATALES						
...DESMIDIACEAE						
....COSMARIUM	--	-	--	-	13	4
....EUASTRUM	--	-	--	-	13	4
CHRYSOPHYTA						
..BACILLARIOPHYCEAE						
...CENTRALES						
...COSCINODISCACEAE						
....CYCLOTELLA	39	1	*	0	--	-
....MELOSIRA	--	-	140	5	--	-
...PENNALES						
...ACHNANTHACEAE						
....ACHNANTHES	--	-	--	-	--	-
...DIATOMACEAE						
....DIATOMA	--	-	--	-	--	-
...FRAGILARIACEAE						
....ASTERIONELLA	--	-	--	-	--	-
....FRAGILARIA	--	-	--	-	--	-
....SYNEDRA	--	-	--	-	--	-
...NAVICULACEAE						
....NAVICULA	*	0	--	-	--	-
...NITZSCHACEAE						
....NITZSCHIA	--	-	*	0	--	-
CRYPTOPHYTA (CRYPTOMONADS)						
..CRYPTOPHYCEAE						
...CRYPTOMONADALES						
...CRYPTOMONADACEAE						
....CRYPTOMONAS	--	-	--	-	--	-
CYANOPHYTA (BLUE-GREEN ALGAE)						
..CYANOPHYCEAE						
...CHROOCOCCALES						
...CHROOCOCCACEAE						
....ANACYSTIS	--	-	160	5	91#	29
...HORMOGONALES						
...NOSTOCACEAE						
....APHANIZOMENON	--	-	--	-	--	-
...OSCILLATORIACEAE						
....LYNGRYA	--	-	--	-	--	-
...OSCILLATORIA	6400#	96	2600#	87	180#	58
...SCHIZOTHRIX	--	-	--	-	--	-
EUGLENOPHYTA (EUGLENOIDS)						
..EUGLENOPHYCEAE						
...EUGLENALES						
...EUGLENACEAE						
....TRACHELOMONAS	--	-	--	-	--	-
PYRRHOPHYTA (FIRE ALGAE)						
..DINOPHYCEAE						
...PERIDINIALES						
...GLENODINIACEAE						
....GLENODINIUM	--	-	--	-	--	-

NOTE: # - DOMINANT ORGANISM: EQUAL TO OR GREATER THAN 15%

* - OBSERVED ORGANISM. MAY NOT HAVE BEEN COUNTED: LESS THAN 1/2%

ST. CROIX RIVER BASIN

01021050 ST. CROIX RIVER AT MILLTOWN, ME--Continued

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

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
OCTOBER			NOVEMBER			DECEMBER			JANUARY			
1	96	90	93	91	70	78	71	68	69	---	---	---
2	112	91	99	72	65	69	71	68	69	---	---	---
3	110	72	83	74	69	71	75	67	69	---	---	---
4	94	82	86	75	69	71	72	68	70	---	---	---
5	98	79	90	67	51	62	70	66	69	---	---	---
6	72	68	70	51	45	47	77	64	70	---	---	---
7	70	67	69	49	45	47	75	70	72	---	---	---
8	73	59	67	50	48	49	72	68	69	---	---	---
9	58	51	54	52	49	50	66	61	64	---	---	---
10	56	54	54	54	51	53	69	59	62	---	---	---
11	57	53	54	54	44	48	82	64	71	67	63	65
12	55	52	53	49	46	47	74	64	67	69	65	67
13	---	---	---	49	46	47	71	67	69	81	65	73
14	---	---	---	51	47	48	73	67	69	84	67	75
15	---	---	---	52	48	50	74	67	71	89	63	76
16	---	---	---	48	45	47	72	69	70	82	57	65
17	---	---	---	48	46	47	72	68	70	65	57	61
18	---	---	---	53	48	50	120	73	84	74	66	70
19	---	---	---	57	52	54	106	61	71	74	66	70
20	---	---	---	73	57	65	66	58	62	75	69	72
21	---	---	---	84	75	80	78	61	65	79	70	74
22	---	---	---	85	66	74	66	62	64	78	73	75
23	---	---	---	72	66	69	70	63	67	81	75	78
24	---	---	---	73	69	71	69	66	67	84	78	80
25	---	---	---	76	71	73	72	67	69	89	75	82
26	---	---	---	76	71	73	72	69	71	80	74	77
27	---	---	---	80	75	78	72	70	71	86	75	79
28	---	---	---	78	73	76	74	70	72	81	74	78
29	---	---	---	75	67	69	---	---	---	84	73	78
30	---	---	---	71	67	69	---	---	---	81	73	77
31	79	74	76	---	---	---	---	---	---	80	75	77
MONTH	112	51	73	91	44	61	120	58	69	89	57	74

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
FEBRUARY			MARCH			APRIL			MAY			
1	82	77	80	139	121	129	66	62	64	70	58	65
2	84	78	81	134	117	124	70	64	67	62	59	60
3	88	81	84	116	81	95	69	66	67	63	59	61
4	88	83	85	110	81	93	71	68	70	63	59	61
5	90	83	86	127	110	118	71	65	68	69	56	60
6	86	77	82	126	122	125	65	59	62	---	---	---
7	86	78	82	135	121	127	61	57	59	63	57	60
8	78	74	76	137	134	135	64	58	60	62	60	61
9	83	76	80	138	133	135	68	64	66	62	59	61
10	85	81	83	133	130	132	70	68	69	61	57	59
11	97	88	93	133	120	129	79	70	75	64	57	60
12	109	93	101	124	114	119	72	68	70	67	59	63
13	110	102	107	124	100	117	68	61	66	72	67	69
14	102	88	92	119	114	117	61	58	60	71	59	62
15	94	88	90	134	111	120	58	56	57	68	55	62
16	91	86	88	139	127	134	59	57	58	69	59	62
17	95	86	90	138	128	133	58	57	57	68	59	63
18	94	89	91	130	63	91	62	57	59	66	58	64
19	93	88	90	64	52	59	65	62	64	---	---	---
20	97	89	91	69	57	63	66	64	65	---	---	---
21	149	92	111	75	54	65	69	65	67	---	---	---
22	136	78	94	76	59	65	70	68	69	---	---	---
23	86	80	83	66	58	62	68	64	66	---	---	---
24	84	82	83	60	55	57	79	67	70	---	---	---
25	84	77	81	63	54	59	73	70	71	---	---	---
26	90	80	86	63	60	61	73	72	72	---	---	---
27	96	89	93	65	63	64	72	71	71	---	---	---
28	96	91	93	65	64	64	72	70	71	---	---	---
29	123	91	100	67	65	66	82	71	76	---	---	---
30	---	---	---	66	64	65	89	72	81	---	---	---
31	---	---	---	64	63	64	---	---	---	---	---	---
MONTH	149	74	89	139	52	96	89	56	67	72	55	62

01021050 ST. CROIX RIVER AT MILLTOWN, ME--Continued

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

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
	JUNE			JULY			AUGUST			SEPTEMBER		
1	---	---	---	107	93	101	74	68	70	91	85	88
2	---	---	---	106	93	99	71	66	68	97	68	86
3	---	---	---	121	107	115	76	70	72	67	58	61
4	---	---	---	119	90	108	77	73	75	77	65	69
5	---	---	---	88	67	75	74	70	72	88	67	74
6	---	---	---	69	63	66	76	70	73	67	64	65
7	---	---	---	63	61	62	79	74	76	64	60	61
8	---	---	---	63	61	62	85	71	78	66	60	62
9	---	---	---	80	62	69	82	68	75	98	68	85
10	---	---	---	92	81	89	78	68	71	100	91	95
11	---	---	---	98	89	93	74	68	71	108	99	103
12	---	---	---	122	96	108	81	67	74	104	88	97
13	---	---	---	124	110	119	77	66	71	98	82	88
14	---	---	---	113	105	109	96	75	82	88	82	85
15	---	---	---	107	101	105	78	71	74	106	87	93
16	---	---	---	106	101	104	85	77	80	106	86	95
17	---	---	---	109	103	106	80	77	78	85	78	81
18	---	---	---	110	104	107	116	78	92	96	83	89
19	---	---	---	111	106	109	104	79	83	100	88	94
20	---	---	---	110	103	107	100	77	86	102	79	87
21	---	---	---	110	102	106	93	74	79	81	75	78
22	---	---	---	106	100	103	90	73	80	76	71	73
23	---	---	---	102	98	100	91	86	88	75	72	74
24	---	---	---	104	94	100	93	89	91	85	76	81
25	---	---	---	96	61	69	94	90	92	85	79	82
26	---	---	---	75	61	65	93	85	88	84	77	80
27	92	77	87	69	64	66	90	85	88	87	71	78
28	94	73	85	70	68	69	175	85	100	73	70	72
29	97	91	94	70	66	68	154	83	98	69	66	67
30	102	95	99	97	75	75	90	84	86	69	64	65
31	---	---	---	103	75	84	89	81	85	---	---	---
MONTH	102	73	91	124	61	91	175	66	81	108	58	80
YEAR	175	44	78									

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

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
	OCTOBER			NOVEMBER			DECEMBER			JANUARY		
1	6.6	6.5	6.5	6.6	6.4	6.5	6.7	6.2	6.7	---	---	---
2	6.6	6.5	6.5	6.5	6.4	6.4	6.7	6.7	6.7	---	---	---
3	6.5	6.2	6.4	6.5	6.4	6.4	6.8	6.7	6.7	---	---	---
4	6.4	6.4	6.4	6.5	6.4	6.4	6.8	6.7	6.7	---	---	---
5	6.5	6.4	6.4	6.4	6.3	6.4	6.8	6.7	6.8	---	---	---
6	6.5	6.4	6.4	6.3	6.2	6.3	6.8	6.7	6.8	---	---	---
7	6.5	6.4	6.4	6.3	6.2	6.2	6.8	6.7	6.8	---	---	---
8	6.5	6.4	6.5	6.2	6.2	6.2	6.8	6.7	6.7	---	---	---
9	6.4	6.4	6.4	6.2	6.2	6.2	6.9	6.8	6.9	---	---	---
10	6.4	6.3	6.3	6.3	6.2	6.3	6.9	6.8	6.8	---	---	---
11	6.3	6.3	6.3	6.2	6.1	6.2	7.5	6.9	7.1	6.8	6.8	6.8
12	6.3	6.3	6.3	6.2	6.2	6.2	6.9	6.8	6.8	6.8	6.7	6.8
13	---	---	---	6.2	6.2	6.2	6.9	6.8	6.8	6.8	6.7	6.7
14	---	---	---	6.2	6.2	6.2	6.9	6.8	6.8	6.9	6.7	6.8
15	---	---	---	6.4	6.3	6.3	6.9	6.8	6.8	6.9	6.7	6.8
16	---	---	---	6.4	6.3	6.3	7.0	6.8	6.8	6.9	6.7	6.8
17	---	---	---	6.5	6.5	6.5	6.8	6.7	6.8	6.7	6.7	6.7
18	---	---	---	6.5	6.5	6.5	6.8	6.6	6.7	6.8	6.7	6.8
19	---	---	---	6.7	6.6	6.7	6.8	6.6	6.7	6.8	6.7	6.7
20	---	---	---	6.7	6.6	6.6	6.7	6.6	6.6	6.8	6.7	6.8
21	---	---	---	6.7	6.7	6.7	6.9	6.6	6.7	6.9	6.7	6.8
22	---	---	---	6.8	6.7	6.7	6.7	6.7	6.7	6.8	6.7	6.8
23	---	---	---	6.7	6.6	6.7	6.7	6.6	6.7	6.8	6.6	6.8
24	---	---	---	6.7	6.6	6.7	6.7	6.7	6.7	6.8	6.7	6.8
25	---	---	---	6.7	6.6	6.6	6.7	6.7	6.7	6.9	6.7	6.8
26	---	---	---	6.7	6.6	6.7	6.7	6.7	6.7	6.7	6.6	6.7
27	---	---	---	6.7	6.7	6.7	6.7	6.7	6.7	6.8	6.7	6.7
28	---	---	---	6.7	6.6	6.7	6.7	6.7	6.7	6.7	6.7	6.7
29	---	---	---	6.7	6.6	6.6	---	---	---	6.8	6.7	6.7
30	---	---	---	6.7	6.6	6.7	---	---	---	6.7	6.7	6.7
31	6.5	6.5	6.5	---	---	---	---	---	---	6.7	6.7	6.7
MONTH	6.6	6.2	6.4	6.8	6.1	6.5	7.5	6.2	6.8	6.9	6.6	6.8

01021050 ST. CROIX RIVER AT MILLTOWN, ME--Continued

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

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
FEBRUARY				MARCH			APRIL			MAY		
1	6.7	6.7	6.7	7.0	7.0	7.0	6.6	6.5	6.5	6.6	6.5	6.6
2	6.7	6.7	6.7	7.0	6.9	7.0	6.6	6.5	6.6	6.7	6.5	6.6
3	6.7	6.7	6.7	7.0	6.8	6.9	6.6	6.5	6.5	6.7	6.6	6.6
4	6.8	6.7	6.7	6.9	6.8	6.8	6.6	6.5	6.6	6.7	6.6	6.6
5	6.8	6.7	6.7	7.0	6.9	7.0	6.6	6.5	6.5	6.7	6.5	6.6
6	6.7	6.7	6.7	7.0	7.0	7.0	6.6	6.5	6.5	6.7	6.6	6.6
7	6.7	6.7	6.7	7.0	7.0	7.0	6.6	6.5	6.5	6.6	6.6	6.6
8	6.7	6.7	6.7	7.1	7.0	7.0	6.5	6.5	6.5	6.6	6.6	6.6
9	6.7	6.7	6.7	7.1	7.0	7.0	6.6	6.5	6.5	6.7	6.6	6.6
10	6.7	6.7	6.7	7.0	7.0	7.0	6.6	6.5	6.5	6.7	6.5	6.6
11	6.8	6.7	6.7	7.0	7.0	7.0	6.6	6.5	6.5	6.7	6.6	6.6
12	6.8	6.7	6.7	7.0	7.0	7.0	6.5	6.4	6.5	6.6	6.6	6.6
13	6.8	6.8	6.8	7.0	6.9	6.9	6.5	6.4	6.4	6.7	6.6	6.6
14	6.8	6.7	6.7	6.9	6.9	6.9	6.5	6.4	6.5	6.6	6.6	6.6
15	6.7	6.7	6.7	6.9	6.8	6.9	6.5	6.4	6.5	6.6	6.5	6.6
16	6.7	6.7	6.7	6.9	6.8	6.8	6.5	6.5	6.5	6.7	6.5	6.6
17	6.8	6.7	6.7	6.9	6.8	6.9	6.6	6.4	6.5	6.7	6.5	6.6
18	6.8	6.7	6.8	6.9	6.5	6.8	6.5	6.5	6.5	6.7	6.5	6.6
19	6.7	6.7	6.7	6.6	6.5	6.5	6.6	6.5	6.5	6.7	6.5	6.6
20	6.7	6.7	6.7	6.6	6.5	6.5	6.6	6.5	6.5	6.7	6.6	6.6
21	7.5	6.7	6.9	6.5	6.4	6.5	6.6	6.5	6.5	6.8	6.6	6.7
22	7.4	6.8	6.9	6.6	6.5	6.6	6.6	6.5	6.6	6.9	6.7	6.8
23	6.8	6.8	6.8	6.7	6.6	6.7	6.6	6.6	6.6	6.8	6.7	6.8
24	6.9	6.8	6.8	6.6	6.6	6.6	6.7	6.6	6.6	6.9	6.7	6.8
25	6.9	6.8	6.8	6.6	6.5	6.6	6.7	6.6	6.6	6.9	6.7	6.8
26	6.9	6.8	6.9	6.6	6.6	6.6	6.7	6.6	6.6	6.9	6.7	6.8
27	6.9	6.9	6.9	6.6	6.6	6.6	6.7	6.6	6.6	6.9	6.8	6.8
28	6.9	6.8	6.9	6.6	6.5	6.6	6.7	6.6	6.7	6.8	6.7	6.8
29	7.0	6.8	6.9	6.6	6.5	6.6	6.7	6.6	6.6	6.9	6.8	6.8
30	---	---	---	6.5	6.5	6.5	6.7	6.6	6.6	6.9	6.8	6.9
31	---	---	---	6.6	6.5	6.5	---	---	---	6.8	6.8	6.8
MONTH	7.5	6.7	6.8	7.1	6.4	6.8	6.7	6.4	6.5	6.9	6.5	6.7
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
JUNE				JULY			AUGUST			SEPTEMBER		
1	6.8	6.8	6.8	6.8	6.7	6.7	6.6	6.5	6.5	6.6	6.5	6.5
2	6.8	6.7	6.8	6.8	6.7	6.8	6.5	6.5	6.5	6.6	6.4	6.5
3	6.8	6.7	6.7	6.8	6.7	6.8	6.6	6.5	6.5	6.5	6.4	6.4
4	6.8	6.7	6.7	6.9	6.7	6.8	6.6	6.5	6.6	6.6	6.5	6.5
5	6.8	6.7	6.8	6.8	6.6	6.7	6.6	6.5	6.5	6.6	6.6	6.6
6	6.8	6.7	6.7	6.9	6.7	6.8	6.5	6.5	6.5	6.6	6.6	6.6
7	6.8	6.7	6.8	6.8	6.7	6.8	6.5	6.5	6.5	6.6	6.5	6.6
8	6.8	6.7	6.7	6.7	6.6	6.6	6.5	6.5	6.5	6.6	6.5	6.6
9	6.9	6.8	6.8	6.7	6.6	6.6	6.6	6.4	6.5	6.8	6.6	6.7
10	6.8	6.8	6.8	6.8	6.7	6.7	6.6	6.5	6.6	6.8	6.8	6.8
11	6.8	6.7	6.8	6.8	6.7	6.7	6.6	6.5	6.6	6.9	6.8	6.8
12	6.8	6.7	6.8	6.8	6.7	6.8	6.6	6.5	6.5	6.9	6.8	6.9
13	6.8	6.7	6.7	6.8	6.7	6.8	6.5	6.4	6.5	6.9	6.8	6.8
14	6.8	6.7	6.7	6.8	6.7	6.8	6.6	6.4	6.5	6.8	6.8	6.8
15	6.8	6.7	6.7	6.8	6.6	6.7	6.5	6.5	6.5	6.9	6.8	6.8
16	6.8	6.7	6.8	6.7	6.6	6.7	6.6	6.5	6.5	6.9	6.8	6.9
17	6.8	6.6	6.7	6.7	6.6	6.6	6.6	6.5	6.6	6.8	6.8	6.8
18	6.9	6.7	6.8	6.7	6.6	6.7	6.6	6.5	6.5	6.9	6.8	6.9
19	6.8	6.7	6.8	6.7	6.6	6.7	6.6	6.5	6.5	6.9	6.9	6.9
20	---	---	---	6.7	6.6	6.6	6.6	6.5	6.5	6.9	6.8	6.9
21	---	---	---	6.7	6.6	6.6	6.6	6.5	6.5	6.9	6.8	6.9
22	---	---	---	6.7	6.6	6.6	6.6	6.5	6.5	6.8	6.8	6.8
23	---	---	---	6.7	6.6	6.6	6.6	6.5	6.5	6.8	6.7	6.8
24	---	---	---	6.7	6.7	6.7	6.6	6.5	6.5	6.9	6.8	6.8
25	---	---	---	6.6	6.4	6.5	6.6	6.5	6.5	6.9	6.8	6.9
26	---	---	---	6.6	6.5	6.5	6.5	6.5	6.5	6.9	6.8	6.9
27	7.0	6.6	6.7	6.6	6.5	6.5	6.5	6.5	6.5	6.9	6.9	6.9
28	6.8	6.6	6.7	6.6	6.5	6.5	7.7	6.5	6.7	6.9	6.8	6.9
29	6.8	6.7	6.8	6.6	6.4	6.5	7.4	6.5	6.7	6.9	6.8	6.8
30	6.8	6.7	6.7	6.6	6.5	6.5	6.6	6.5	6.5	6.9	6.8	6.8
31	---	---	---	6.6	6.5	6.6	6.6	6.6	6.6	---	---	---
MONTH	7.0	6.6	6.8	6.9	6.4	6.7	7.7	6.4	6.5	6.9	6.4	6.8
YEAR	7.7	6.1	6.7									

01021050 ST. CROIX RIVER AT MILLTOWN, ME--Continued

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

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
OCTOBER			NOVEMBER			DECEMBER			JANUARY			
1	16.0	15.0	15.0	9.0	7.5	8.0	4.5	4.0	4.0	---	---	---
2	16.0	16.0	16.0	10.0	8.0	9.0	4.5	3.5	4.0	---	---	---
3	16.0	15.0	15.5	10.0	9.5	9.5	3.5	2.5	3.0	---	---	---
4	16.0	15.0	15.5	9.5	8.5	9.5	3.0	2.5	2.5	---	---	---
5	15.5	15.0	15.5	9.0	8.0	8.5	2.5	2.0	2.5	---	---	---
6	16.5	15.5	15.5	8.5	7.5	8.0	3.5	2.5	3.0	---	---	---
7	15.5	14.5	15.0	8.0	8.0	8.0	3.5	3.0	3.5	---	---	---
8	15.0	13.5	14.0	8.0	8.0	8.0	3.5	2.0	3.0	---	---	---
9	13.0	11.5	12.5	8.0	7.5	8.0	2.0	.5	1.0	---	---	---
10	11.5	11.0	11.5	9.0	8.0	8.5	1.0	.5	1.0	---	---	---
11	11.0	10.5	11.0	9.0	8.5	8.5	1.0	.5	.5	1.0	.5	.5
12	10.5	10.0	10.5	8.5	8.0	8.0	2.0	1.0	1.5	2.5	.5	1.5
13	---	---	---	8.0	7.5	7.5	1.5	.5	1.0	.5	.5	.5
14	---	---	---	7.5	7.0	7.5	.5	.5	.5	1.5	.5	1.0
15	---	---	---	7.0	6.0	6.5	.5	.5	.5	1.5	.0	1.5
16	---	---	---	6.0	5.0	6.0	1.5	.5	1.0	1.0	.5	.5
17	---	---	---	5.0	4.5	4.5	2.0	.5	1.0	1.0	.5	.5
18	---	---	---	4.5	3.5	4.5	.5	.5	.5	1.5	1.0	1.5
19	---	---	---	3.5	3.0	3.5	.5	.5	.5	1.5	1.0	1.5
20	---	---	---	3.5	2.5	3.0	.5	.5	.5	1.5	.5	1.0
21	---	---	---	4.0	3.5	3.5	.5	.5	.5	.5	.5	.5
22	---	---	---	3.5	3.0	3.5	.5	.5	.5	.5	.5	.5
23	---	---	---	4.0	3.5	4.0	.5	.5	.5	.5	.0	.5
24	---	---	---	4.5	4.0	4.5	.5	.5	.5	.0	.0	.0
25	---	---	---	5.0	4.5	5.0	.5	.5	.5	.0	.0	.0
26	---	---	---	5.5	4.5	5.0	.5	.5	.5	.0	.0	.0
27	---	---	---	6.5	5.5	6.0	.5	.5	.5	.0	.0	.0
28	---	---	---	6.5	5.5	6.0	.5	.5	.5	.0	.0	.0
29	---	---	---	6.0	5.0	5.5	---	---	---	.0	.0	.0
30	---	---	---	4.5	4.0	4.5	---	---	---	.0	.0	.0
31	9.0	8.0	9.0	---	---	---	---	---	---	.0	.0	.0
MONTH	16.5	8.0	13.5	10.0	2.5	6.5	4.5	.5	1.5	2.5	.0	.5

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
FEBRUARY			MARCH			APRIL			MAY			
1	.0	.0	.0	.0	.0	.0	4.0	1.5	2.5	11.0	9.5	10.0
2	.0	.0	.0	.0	.0	.0	4.0	2.0	3.0	12.0	9.5	10.5
3	.0	.0	.0	.0	.0	.0	5.0	2.5	4.0	12.5	9.5	11.0
4	.0	.0	.0	.5	.0	.0	4.0	3.0	3.5	12.0	10.0	10.5
5	.0	.0	.0	.0	.0	.0	3.5	3.0	3.5	12.5	10.0	11.0
6	.0	.0	.0	.5	.0	.5	5.0	2.5	3.5	13.5	10.5	12.0
7	.0	.0	.0	1.0	.5	.5	5.0	2.5	4.0	13.0	11.0	11.5
8	.0	.0	.0	.5	.0	.5	5.5	3.5	4.5	11.0	10.5	10.5
9	.0	.0	.0	.5	.0	.5	6.0	4.0	5.0	11.5	10.5	11.0
10	.0	.0	.0	1.5	.5	1.0	5.0	4.5	4.5	12.5	10.5	11.5
11	.0	.0	.0	2.0	.5	1.5	5.5	4.5	5.0	14.0	10.5	12.0
12	.0	.0	.0	.5	.0	.0	7.0	4.5	5.5	15.0	12.0	13.5
13	.0	.0	.0	.5	.0	.5	6.5	5.5	6.0	15.5	13.0	14.0
14	.5	.0	.0	.0	.0	.0	7.0	5.0	6.0	14.5	13.0	13.5
15	.5	.0	.0	.5	.0	.0	6.0	5.0	5.5	15.5	13.0	14.0
16	.5	.0	.0	.5	.0	.5	7.0	5.5	6.0	16.0	13.5	14.5
17	.0	.0	.0	.5	.0	.5	7.0	5.0	6.0	17.0	13.5	15.0
18	.5	.0	.0	1.5	.5	1.0	7.5	5.5	6.0	16.5	14.0	15.5
19	.5	.0	.0	1.0	.0	.5	9.0	5.5	7.5	16.0	14.0	15.0
20	1.0	.5	.5	1.5	.0	1.0	9.5	5.5	8.0	17.5	14.5	16.0
21	1.0	.5	.5	2.0	.5	1.5	9.5	8.0	8.5	17.5	15.0	16.5
22	.5	.0	.0	2.5	1.0	2.0	7.5	5.5	6.0	18.0	16.0	17.0
23	1.0	.0	.5	2.5	1.0	1.5	7.5	6.0	7.0	18.0	16.5	17.5
24	1.0	.0	.5	2.0	1.0	1.5	8.0	6.5	7.5	18.5	17.5	18.0
25	1.0	.5	1.0	2.0	1.0	1.5	9.5	7.5	8.5	18.5	17.0	17.5
26	1.0	.0	.5	1.5	1.0	1.5	9.5	8.5	9.0	17.5	15.5	16.0
27	.5	.0	.0	2.0	1.0	1.5	9.0	8.5	9.0	16.0	15.5	15.5
28	.5	.0	.0	3.0	1.0	2.0	10.5	7.5	9.0	16.0	15.5	16.0
29	.0	.0	.0	3.5	1.0	2.0	11.0	8.5	9.5	16.5	15.5	16.0
30	---	---	---	2.5	2.0	2.0	11.0	9.5	10.0	18.5	16.5	17.5
31	---	---	---	3.5	1.5	2.5	---	---	---	18.5	15.5	17.0
MONTH	1.0	.0	.0	3.5	.0	1.0	11.0	1.5	6.0	18.5	9.5	14.0

01021050 ST. CROIX RIVER AT MILLTOWN, ME--Continued

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

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
JUNE			JULY			AUGUST			SEPTEMBER			
1	18.0	15.5	16.5	19.5	19.0	19.0	25.0	22.5	24.0	23.5	22.5	23.0
2	18.0	17.0	17.5	20.0	19.0	19.5	25.0	23.0	23.0	24.0	23.0	23.5
3	17.0	15.5	16.0	21.5	18.5	20.0	23.0	22.5	22.5	24.0	22.5	23.0
4	15.5	15.0	15.0	22.5	22.0	22.0	25.0	22.5	23.5	23.0	21.0	22.0
5	17.5	15.5	16.5	22.5	22.0	22.0	25.5	23.0	24.0	23.0	21.0	22.0
6	18.5	17.0	17.5	22.0	19.0	21.0	25.0	22.5	23.5	23.0	21.0	22.0
7	19.0	18.5	18.5	19.0	18.0	18.0	25.0	22.5	23.5	22.5	20.5	21.5
8	19.5	16.0	18.0	19.5	18.5	19.0	25.0	23.0	24.0	21.5	20.0	20.5
9	16.0	15.0	15.5	19.5	18.5	19.0	25.0	23.5	24.5	20.5	19.5	20.0
10	16.5	15.5	16.0	21.0	19.0	20.0	24.0	21.0	22.5	20.5	20.0	20.0
11	16.5	15.5	16.0	21.5	19.0	20.5	24.0	21.5	23.0	20.0	19.0	19.0
12	17.5	15.5	16.5	19.5	19.0	19.0	24.0	21.5	22.0	19.0	18.0	18.5
13	18.5	16.0	17.0	19.5	19.0	19.5	22.0	21.0	21.5	18.5	17.5	18.0
14	19.0	17.5	18.0	21.0	20.0	20.5	22.5	21.0	21.5	19.0	17.0	17.5
15	19.5	18.0	18.5	21.5	21.0	21.0	22.0	21.0	21.5	17.0	16.5	17.0
16	19.5	18.5	19.0	22.0	21.0	21.5	22.0	20.5	21.0	17.5	16.0	17.0
17	19.5	17.5	18.5	22.5	21.0	22.0	22.0	19.0	20.0	17.5	16.0	16.5
18	19.5	18.0	18.5	23.0	21.0	21.5	22.0	20.5	21.0	17.5	17.0	17.0
19	20.0	18.0	19.0	24.0	23.0	23.0	22.0	20.0	21.0	17.0	15.5	16.0
20	---	---	---	23.5	23.0	23.5	21.5	20.0	20.5	16.5	15.5	16.0
21	---	---	---	24.0	23.0	23.5	21.5	20.0	21.0	17.0	15.5	16.5
22	---	---	---	23.5	22.0	23.0	22.0	20.0	21.0	16.5	15.5	15.5
23	---	---	---	23.0	21.5	22.0	22.5	20.5	21.5	16.0	15.5	16.0
24	---	---	---	23.5	22.5	23.0	23.5	21.5	22.0	15.5	14.0	15.0
25	---	---	---	25.0	22.0	23.5	23.5	22.0	22.5	15.0	13.5	14.5
26	---	---	---	25.0	23.0	24.0	23.0	21.5	22.5	15.0	14.0	14.5
27	24.0	21.5	22.5	24.5	23.0	23.5	23.5	22.0	22.5	14.0	13.0	13.5
28	22.0	21.0	21.5	24.0	22.5	23.0	23.5	22.5	23.0	13.5	12.0	13.0
29	22.5	21.0	21.5	24.0	22.0	23.0	23.5	21.5	22.5	13.0	11.0	12.0
30	22.5	19.0	21.0	23.5	22.5	23.0	23.5	21.5	22.5	13.5	11.5	12.5
31	---	---	---	24.5	23.0	23.5	23.5	22.0	23.0	---	---	---
MONTH	24.0	15.0	18.0	25.0	18.0	21.5	25.5	19.0	22.5	24.0	11.0	18.0
YEAR	25.5	.0	10.5									

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

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
OCTOBER				NOVEMBER			DECEMBER			JANUARY		
1	7.9	7.5	7.7	10.7	10.4	10.5	11.8	11.7	11.7	---	---	---
2	7.9	7.3	7.6	10.6	10.5	10.6	11.9	11.7	11.7	---	---	---
3	8.3	7.6	8.0	10.5	10.3	10.4	12.1	11.9	12.0	---	---	---
4	8.3	7.8	8.0	10.4	10.1	10.3	12.2	12.0	12.1	---	---	---
5	8.4	7.7	7.9	11.2	10.3	10.8	12.4	12.1	12.2	---	---	---
6	8.5	8.4	8.5	11.3	11.2	11.3	12.3	12.1	12.2	---	---	---
7	8.6	8.4	8.5	11.4	11.2	11.3	12.3	12.1	12.1	---	---	---
8	9.0	8.5	8.7	11.3	11.2	11.3	12.7	12.2	12.3	---	---	---
9	9.5	9.2	9.3	11.3	11.1	11.2	13.3	12.7	13.1	---	---	---
10	9.8	9.5	9.7	11.1	10.9	11.1	13.4	13.2	13.3	---	---	---
11	10.0	9.9	9.9	11.1	10.9	11.0	13.3	13.0	13.2	12.5	12.3	12.4
12	10.1	10.0	10.0	11.1	10.9	11.0	13.2	13.0	13.1	12.4	12.0	12.2
13	---	---	---	11.1	11.0	11.1	13.5	13.1	13.3	12.6	12.0	12.3
14	---	---	---	11.0	10.8	10.9	13.4	13.2	13.3	12.3	12.0	12.2
15	---	---	---	11.3	10.9	11.0	13.5	13.2	13.4	12.4	11.9	12.2
16	---	---	---	11.4	11.2	11.3	13.4	13.0	13.2	12.7	12.4	12.6
17	---	---	---	11.7	11.4	11.5	13.2	12.9	13.0	12.8	12.6	12.7
18	---	---	---	12.0	11.6	11.8	13.2	12.6	12.9	12.6	12.4	12.5
19	---	---	---	12.2	12.0	12.1	13.4	13.1	13.3	12.5	12.4	12.5
20	---	---	---	12.1	11.9	12.0	13.6	13.3	13.5	12.6	12.4	12.5
21	---	---	---	12.0	11.9	11.9	13.6	13.4	13.5	12.8	12.4	12.6
22	---	---	---	12.3	12.1	12.2	13.5	13.3	13.4	12.6	12.5	12.6
23	---	---	---	12.2	12.1	12.1	13.3	13.1	13.2	12.6	12.2	12.4
24	---	---	---	12.2	12.1	12.1	13.2	13.0	13.1	12.3	12.1	12.2
25	---	---	---	12.0	11.9	12.0	13.0	12.9	12.9	12.4	11.9	12.2
26	---	---	---	12.0	11.7	11.9	12.9	12.8	12.9	12.3	12.0	12.2
27	---	---	---	11.7	11.4	11.5	12.9	12.8	12.8	12.4	12.2	12.3
28	---	---	---	11.4	11.3	11.3	12.8	12.8	12.8	12.4	12.3	12.3
29	---	---	---	11.4	11.2	11.3	---	---	---	12.5	12.3	12.4
30	---	---	---	11.8	11.4	11.6	---	---	---	12.5	12.4	12.4
31	10.6	10.4	10.5	---	---	---	---	---	---	12.7	12.4	12.6
MONTH	10.6	7.3	8.8	12.3	10.1	11.4	13.6	11.7	12.8	12.8	11.9	12.4

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

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
	FEBRUARY			MARCH			APRIL			MAY		
1	12.7	12.5	12.6	12.7	12.3	12.5	12.6	12.3	12.4	10.4	9.9	10.1
2	12.6	12.5	12.6	12.7	12.5	12.6	12.4	12.2	12.3	10.5	10.1	10.3
3	12.6	12.5	12.5	12.6	12.4	12.5	12.3	12.1	12.2	10.4	10.0	10.1
4	12.5	12.5	12.5	12.6	12.3	12.4	12.2	12.0	12.1	10.1	9.6	9.9
5	12.6	12.5	12.5	12.5	12.2	12.3	12.1	11.9	12.0	10.3	9.7	10.0
6	12.6	12.5	12.5	12.5	12.1	12.2	12.4	11.9	12.2	10.2	9.7	10.0
7	12.7	12.6	12.6	12.5	12.1	12.3	12.6	12.3	12.5	9.8	9.5	9.6
8	12.7	12.6	12.7	12.5	12.3	12.4	12.6	12.2	12.4	10.0	9.5	9.7
9	12.8	12.6	12.7	12.4	12.3	12.4	12.3	12.1	12.2	10.0	9.6	9.8
10	12.8	12.5	12.6	12.4	12.2	12.3	12.1	11.9	12.0	10.1	9.6	9.8
11	12.7	12.5	12.6	12.5	12.2	12.3	11.9	11.7	11.8	10.1	9.6	9.8
12	12.6	12.3	12.5	12.6	12.4	12.6	12.0	11.7	11.8	9.7	9.4	9.5
13	12.6	12.3	12.5	12.7	12.1	12.4	11.8	11.5	11.7	9.5	9.0	9.3
14	12.7	12.5	12.6	12.2	11.9	12.0	12.1	11.7	11.9	9.3	9.0	9.2
15	12.6	12.5	12.6	12.1	11.6	11.8	12.1	11.9	12.0	9.4	9.0	9.2
16	12.6	12.5	12.6	11.8	11.4	11.6	11.9	11.7	11.8	9.4	8.9	9.2
17	12.6	12.5	12.6	11.8	11.5	11.7	12.1	11.7	11.9	9.4	8.9	9.1
18	12.7	12.5	12.6	12.5	11.7	12.0	11.9	11.6	11.8	9.3	8.8	9.0
19	12.7	12.5	12.6	12.8	12.3	12.6	11.8	11.4	11.6	8.9	8.6	8.8
20	12.7	12.5	12.6	12.6	12.2	12.5	11.6	11.3	11.4	8.9	8.5	8.7
21	12.7	12.2	12.5	12.2	12.0	12.1	11.3	11.1	11.2	8.8	8.5	8.6
22	12.9	12.2	12.7	12.4	11.9	12.2	11.3	11.0	11.1	8.4	7.9	8.1
23	12.8	12.7	12.7	12.6	12.3	12.5	11.5	11.1	11.2	8.0	7.5	7.8
24	12.9	12.7	12.8	12.7	12.5	12.6	11.2	10.9	11.0	8.0	7.1	7.5
25	12.9	12.8	12.8	12.7	12.6	12.6	11.1	10.7	10.9	8.1	7.3	7.7
26	12.8	12.7	12.8	12.6	12.5	12.6	10.8	10.5	10.6	8.1	7.5	7.8
27	12.9	12.7	12.8	12.8	12.6	12.7	10.9	10.5	10.6	8.1	7.4	7.7
28	12.7	12.5	12.6	12.7	12.5	12.6	11.0	10.6	10.8	8.2	7.4	7.8
29	12.4	12.3	12.3	12.5	12.3	12.4	10.6	10.1	10.4	8.1	7.6	7.8
30	---	---	---	12.4	12.2	12.3	10.2	9.9	10.1	8.0	7.3	7.6
31	---	---	---	12.5	12.1	12.3	---	---	---	7.9	7.0	7.3
MONTH	12.9	12.2	12.6	12.8	11.4	12.3	12.6	9.9	11.6	10.5	7.0	8.9
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
	JUNE			JULY			AUGUST			SEPTEMBER		
1	7.5	7.2	7.4	6.7	6.3	6.5	6.5	5.9	6.2	4.3	3.7	3.9
2	7.5	7.1	7.3	6.8	6.3	6.5	6.2	5.9	6.0	4.0	3.2	3.6
3	7.4	7.1	7.2	6.4	5.7	6.1	6.1	5.9	6.0	5.7	4.1	5.1
4	7.4	7.2	7.3	6.4	5.7	5.9	6.2	5.9	6.1	5.4	5.0	5.2
5	7.6	7.1	7.4	6.6	6.0	6.3	6.3	6.0	6.1	5.9	4.8	5.5
6	7.6	7.0	7.3	7.7	6.3	6.7	6.1	5.8	6.0	6.1	5.8	5.9
7	7.2	6.4	6.8	8.3	7.7	8.1	6.0	5.7	5.8	6.2	5.9	6.0
8	7.3	6.6	6.9	8.2	7.3	7.7	5.8	5.0	5.4	6.3	5.8	6.1
9	8.1	7.3	7.7	7.7	7.3	7.5	5.9	5.3	5.6	5.8	4.9	5.2
10	8.0	7.5	7.7	7.7	7.1	7.4	6.8	6.0	6.5	5.3	4.9	5.1
11	8.4	7.5	8.0	7.6	6.8	7.1	6.5	6.2	6.3	5.1	4.5	4.8
12	8.7	8.1	8.4	7.2	7.0	7.1	6.4	5.7	6.1	5.9	5.0	5.5
13	8.6	8.2	8.4	7.2	6.5	6.8	6.3	5.7	6.0	5.7	5.4	5.5
14	8.4	7.9	8.2	7.2	6.4	6.7	6.4	5.4	5.6	5.8	5.3	5.6
15	8.1	7.6	7.8	7.1	6.3	6.7	6.5	6.1	6.4	5.7	5.2	5.5
16	8.1	7.4	7.8	6.8	6.2	6.5	6.4	5.5	6.0	6.0	5.4	5.7
17	8.2	7.6	7.9	6.6	5.9	6.2	6.7	6.4	6.5	6.3	6.0	6.2
18	8.2	7.5	7.9	6.4	6.1	6.3	6.6	5.3	5.8	6.3	5.9	6.2
19	8.0	7.4	7.7	6.5	5.7	6.1	6.2	5.8	6.1	6.3	5.7	6.0
20	---	---	---	6.3	5.6	5.9	6.1	5.6	5.8	7.0	5.8	6.3
21	---	---	---	6.2	5.2	5.7	6.1	5.8	6.0	7.0	6.7	6.9
22	---	---	---	5.7	5.2	5.5	6.1	5.5	5.8	6.9	6.8	6.9
23	---	---	---	5.9	5.3	5.5	5.6	5.2	5.4	7.1	6.6	6.9
24	---	---	---	5.9	3.5	4.4	5.2	4.9	5.0	7.1	6.8	7.0
25	---	---	---	6.5	4.1	5.6	4.9	4.5	4.6	7.1	6.9	7.0
26	---	---	---	7.0	5.1	5.8	4.7	4.4	4.6	7.3	7.1	7.2
27	6.9	6.1	6.5	6.1	5.6	5.8	4.4	4.2	4.3	8.0	7.4	7.7
28	7.3	6.5	6.9	6.3	5.8	6.0	4.7	.5	3.9	8.3	8.0	8.1
29	7.2	6.1	6.6	6.2	5.8	6.0	4.4	1.0	3.3	8.5	8.4	8.4
30	6.7	5.9	6.3	6.1	5.2	5.6	4.5	4.0	4.3	8.6	8.3	8.5
31	---	---	---	6.4	5.3	5.8	4.5	4.3	4.4	---	---	---
MONTH	8.7	5.9	7.5	8.3	3.5	6.3	6.8	.5	5.6	8.6	3.2	6.1
YEAR	13.6	.5	9.7									

01021200 DENNY'S RIVER AT DENNYVILLE, ME

LOCATION.--Lat 44°54'03", long 67°14'56", Washington County, Hydrologic Unit 01050002, on right bank 100 ft (30 m) upstream from railroad bridge, 0.9 mi (1.4 km) upstream from Cathance Stream, and 1 mi (1.6 km) west of Dennyville.

DRAINAGE AREA.--92.4 mi² (239.3 km²).

PERIOD OF RECORD.--Discharge: October 1955 to current year.
Water temperatures: October 1958 to September 1972.

GAGE.--Water-stage recorder. Datum of gage is 54.78 ft (16.700 m) National Geodetic Vertical Datum of 1929.

REMARKS.--Records good except those for winter period, which are fair. Flow slightly regulated by dam at outlet of Meddybemps Lake, 14 mi (22 km) upstream. Several observations of water temperature and specific conductance were made during the year.

AVERAGE DISCHARGE.--25 years, 194 ft³/s (5.494 m³/s), 28.51 in/yr (724 mm/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 3,930 ft³/s (111 m³/s) Apr. 29, 1973, gage height, 9.35 ft (2.850 m) from rating curve extended above 1,400 ft³/s (40 m³/s); minimum, 8.4 ft³/s (0.24 m³/s) Oct. 1, 1957, gage height, 0.28 ft (0.085 m).

EXTREMES FOR CURRENT YEAR.--Peak discharge above base of 800 ft³/s (23 m³/s) and maximum (*):

Date	Time	Discharge (ft ³ /s) (m ³ /s)	Gage height (ft) (m)	Date	Time	Discharge (ft ³ /s) (m ³ /s)	Gage height (ft) (m)
Nov. 4	0500	844 23.9	4.04 1.231	Apr. 5	1000	982 27.8	4.38 1.335
Mar. 19	1100	*1,450 41.1	5.43 1.655				

Minimum discharge, 43 ft³/s (1.22 m³/s) Sept. 13, 14, gage height, 0.80 ft (0.244 m).

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	46	141	145	145	101	74	313	528	103	92	40	50
2	428	126	137	136	103	79	278	417	102	42	61	50
3	488	224	131	122	101	74	272	334	96	83	59	49
4	415	757	126	111	101	77	297	299	121	79	58	48
5	331	489	122	105	101	72	281	288	143	77	52	47
6	275	303	119	100	97	73	654	270	123	76	52	47
7	238	233	144	100	92	73	398	256	105	75	55	46
8	335	236	164	111	91	70	296	259	96	73	61	45
9	361	206	145	109	90	75	265	325	132	40	53	44
10	331	244	137	109	89	74	266	265	177	78	59	45
11	272	424	129	106	89	78	468	212	186	74	61	45
12	228	368	131	213	88	104	612	188	146	110	60	45
13	213	247	131	274	89	110	503	162	130	114	60	44
14	203	252	44	215	88	118	412	151	109	94	57	47
15	170	241	99	179	87	176	370	145	111	44	59	54
16	146	226	122	162	86	166	489	129	130	80	63	56
17	127	218	240	145	87	162	532	117	138	84	61	81
18	125	195	250	142	89	402	461	108	117	112	58	99
19	121	174	165	144	88	1300	401	114	115	94	55	91
20	113	158	130	142	86	492	360	119	119	76	54	67
21	110	179	125	120	84	480	364	109	127	70	53	58
22	107	189	130	111	80	351	423	103	129	40	52	56
23	102	181	133	125	81	364	668	96	116	45	52	68
24	99	170	149	116	80	392	612	87	106	42	51	84
25	98	161	189	92	79	360	465	81	96	75	51	71
26	93	152	491	116	74	320	366	94	97	69	51	96
27	85	192	432	111	74	283	318	105	103	67	51	157
28	41	202	283	110	79	249	292	111	109	63	51	126
29	141	178	221	105	79	264	265	107	113	61	50	95
30	202	158	183	103	---	324	451	104	109	86	50	76
31	170	---	157	102	---	388	---	101	---	105	49	---
TOTAL	6284	7314	5367	4084	2558	8392	12752	5784	3604	2560	1739	1987
MEAN	203	244	172	132	84.2	271	425	187	120	82.6	56.1	66.2
MAX	488	757	491	274	103	1300	881	528	186	114	80	157
MIN	46	126	44	92	74	70	265	81	96	61	49	44
CFSM	2.20	2.64	1.86	1.43	.96	2.43	4.60	2.02	1.30	.89	.61	.72
IN.	2.53	2.94	2.15	1.64	1.03	3.34	5.13	2.33	1.45	1.03	.70	.80

CAL YR	TOTAL	MEAN	MAX	MIN	CFSM	IN
YR 1979	104285	286	1940	43	3.10	41.98
YR 1980	62405	171	1300	44	1.85	25.12

01022500 NARRAGUAGUS RIVER AT CHERRYFIELD, ME
(National stream-quality accounting network station)

LOCATION.--Lat 44°36'29", long 67°56'10", Washington County, Hydrologic Unit 01050002, on left bank 800 ft (244 m) upstream from railroad bridge at Cherryfield and 0.7 mi (1.1 km) downstream from West Branch of Narraguagus River.

DRAINAGE AREA.--232 mi² (601 km²).

WATER-DISCHARGE RECORDS

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

REVISED RECORDS.--WSP 1301: 1948(M).

GAGE.--Water-stage recorder. Datum of gage is 44.2 ft (13.47 m) National Geodetic Vertical Datum of 1929. Prior to July 1, 1948, nonrecording gage at same site and datum.

REMARKS.--Records good except those for winter period, and period of no gage-height record May 18-21, which are fair.

AVERAGE DISCHARGE.--32 years, 499 ft³/s (14.13 m³/s), 29.21 in/yr (742 mm/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 10,400 ft³/s (295 m³/s) May 28, 1961, gage height, 17.40 ft (5.304 m); minimum, 3.0 ft³/s (0.085 m³/s) Sept. 2, 4, 5, 1978, gage height, 6.41 ft (1.954 m), caused by unusual regulation.

EXTREMES FOR CURRENT YEAR.--Peak discharges above base of 2,000 ft³/s (57 m³/s) and maximum (*):

Date	Time	Discharge (ft ³ /s) (m ³ /s)	Gage height (ft) (m)	Date	Time	Discharge (ft ³ /s) (m ³ /s)	Gage height (ft) (m)
Mar. 18	--	* 3,000 85.0	-- --	Apr. 12	0300	2,250 63.7	11.83 3.606

Minimum discharge, 42 ft³/s (1.19 m³/s) Sept. 13, gage height, 7.18 ft (2.188 m).

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	185	426	454	395	140	115	874	1060	203	141	263	53
2	908	386	418	350	135	115	782	992	205	135	250	60
3	1080	519	391	310	130	115	730	858	202	136	219	72
4	1290	1420	365	275	130	115	768	726	224	129	190	72
5	1140	1610	347	250	130	115	1300	634	239	119	167	67
6	985	1440	339	230	125	120	1220	564	224	112	147	65
7	846	1140	389	230	125	120	962	521	210	113	138	61
8	1070	1190	430	270	125	120	773	593	200	104	130	55
9	1330	967	385	240	120	120	683	707	257	127	140	50
10	1380	1260	349	220	120	120	663	704	288	127	141	50
11	1150	1810	330	220	120	130	1760	635	286	117	127	47
12	940	1660	336	520	120	170	2210	567	261	117	118	46
13	946	1360	349	570	120	165	1940	510	232	111	110	44
14	901	1090	314	470	120	200	1490	474	205	104	103	53
15	757	981	271	410	120	300	1220	443	194	100	97	80
16	650	879	324	370	120	190	1300	415	213	99	92	89
17	561	812	891	340	120	185	1360	385	223	108	92	94
18	512	723	850	320	120	1290	1170	356	196	142	88	129
19	471	631	725	295	120	2150	922	369	183	133	84	159
20	432	565	530	275	120	2000	785	378	170	132	82	185
21	413	604	466	245	115	1860	720	353	172	130	76	185
22	395	620	445	220	115	1650	697	333	182	137	71	166
23	377	593	427	200	115	1480	1110	304	172	160	66	151
24	360	558	453	185	115	1440	1210	282	163	205	63	142
25	353	525	626	175	115	1310	1100	264	199	265	60	142
26	339	493	1340	165	115	1160	954	247	201	246	59	197
27	321	563	1290	160	115	1060	860	234	190	207	59	344
28	303	605	995	155	115	908	778	225	171	173	64	373
29	436	566	705	150	115	865	692	218	147	154	61	334
30	547	507	550	145	---	933	928	208	145	174	55	271
31	484	---	455	140	---	950	---	199	---	244	53	---
TOTAL	21862	26503	16539	8500	3515	21571	31911	14758	6157	4501	3465	3836
MEAN	705	883	534	274	121	696	1064	476	205	145	112	128
MAX	1380	1810	1340	570	140	2150	2210	1060	288	265	263	373
MIN	185	386	271	140	115	115	663	199	145	99	53	44
CFSM	3.04	3.81	2.30	1.18	.52	3.00	4.59	2.05	.88	.63	.48	.55
IN.	3.51	4.25	2.65	1.36	.56	3.46	5.12	2.37	.99	.72	.56	.62

CAL YR 1979	TOTAL	274553	MEAN 752	MAX 5970	MIN 102	CFSM 3.24	IN 44.02
WTR YR 1980	TOTAL	163116	MEAN 446	MAX 2210	MIN 44	CFSM 1.92	IN 26.15

01022500 NARRAGUAGUS RIVER AT CHERRYFIELD, ME--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 1978 to current year.

PERIOD OF DAILY RECORD.--

SPECIFIC CONDUCTANCE: January 1978 to current year.

WATER TEMPERATURES: January 1978 to current year.

INSTRUMENTATION.--Water-quality monitor since January 1978.

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

EXTREMES FOR PERIOD OF DAILY RECORD.--

SPECIFIC CONDUCTANCE: Maximum, 49 micromhos Aug. 29, 1978, Aug. 19, 24, Sept. 7, 1980; minimum, 18 micromhos Apr. 11, 1980.

WATER TEMPERATURES: Maximum, 26.5°C July 21-23, Aug. 18, 19, 1978; minimum, 0.0°C on many days during winter periods.

EXTREMES FOR CURRENT YEAR.--

SPECIFIC CONDUCTANCE: Maximum, 49 micromhos Aug. 19, 24, Sept. 7; minimum, 18 micromhos Apr. 11.

WATER TEMPERATURES: Maximum, 26.0°C Aug. 9; minimum, 0.0°C on many days during winter period.

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

DATE	TIME	STREAM- FLOW, INSTAN- TANEOUS (CFS)	SPE- CIFIC CON- DUCT- ANCE (MICRO- MHOS)	PH FIELD (UNITS)	TEMPER- ATURE, AIR (DEG C)	TEMPER- ATURE, WATER (DEG C)	TUR- BID- ITY (NTU)	OXYGEN, DIS- SOLVED (MG/L)	OXYGEN, DIS- SOLVED (PER- CENT SATUR- ATION)	COLI- FORM, FECAL, 0.7 UM-MF (COLS./ 100 ML)	STREP- TOCOCCI FECAL, KF AGAR (COLS. PER 100 ML)	HARD- NESS (MG/L AS CAC03)
OCT 29...	1430	509	30	6.3	9.0	7.5	2.0	11.6	96	K61	65	7
NOV 19...	1400	625	29	6.1	4.0	2.0	1.0	13.2	95	11	2	7
DEC 10...	1330	353	32	6.6	-1.0	.0	1.0	12.8	88	K5	<1	7
JAN 22...	1600	245	38	6.5	2.0	.0	.90	13.0	89	K4	<1	8
FEB 20...	1515	118	41	6.4	4.0	.0	.80	12.4	85	K6	<1	8
MAR 24...	1315	1450	25	6.2	8.0	.5	.45	12.7	88	K3	K4	5
MAY 02...	1000	1010	22	6.3	10.0	8.5	1.5	11.0	94	K15	K1	6
21...	1615	344	28	6.1	21.5	15.5	.60	8.8	87	31	K1	7
JUN 27...	1330	190	32	6.6	31.0	24.0	2.0	7.6	89	42	K12	9
JUL 31...	1200	253	32	6.5	26.0	23.5	2.0	8.0	93	54	100	9
SEP 04...	1515	71	38	6.7	21.5	24.0	.40	7.8	92	K65	K6	10
25...	1230	141	40	6.7	14.0	14.5	.60	9.4	91	36	K11	11

DATE	HARD- NESS, NONCAR- BONATE (MG/L CAC03)	CALCIUM DIS- SOLVED (MG/L AS CA)	MAGNE- SIUM, DIS- SOLVED (MG/L AS MG)	SODIUM, DIS- SOLVED (MG/L AS NA)	SODIUM PERCENT	SODIUM AD- SORP- TION RATIO	SODIUM+ POTAS- SIUM DIS- SOLVED (MG/L AS NA)	POTAS- SIUM, DIS- SOLVED (MG/L AS K)	ALKA- LINITY (MG/L AS CAC03)	SULFATE DIS- SOLVED (MG/L AS S04)	CHLO- RIDE, DIS- SOLVED (MG/L AS CL)	FLUO- RIDE, DIS- SOLVED (MG/L AS F)
OCT 29...	1	2.0	.6	3.1	44	.5	3.9	.8	6	3.0	3.0	.1
NOV 19...	3	1.8	.5	2.2	49	.4	2.6	.4	4	4.5	2.2	.1
DEC 10...	0	1.8	.6	2.4	51	.4	2.8	.4	10	3.4	2.5	.1
JAN 22...	0	2.1	.7	3.0	43	.5	3.5	.5	10	4.0	3.7	.1
FEB 20...	0	2.4	.5	3.0	43	.5	3.5	.5	9	2.8	3.3	.2
MAR 24...	3	1.2	.4	1.5	39	.3	1.9	.4	2	2.1	1.7	.1
MAY 02...	3	1.6	.5	1.8	37	.3	--	.5	3	3.5	2.5	.1
21...	4	1.8	.5	2.7	45	.5	--	.5	3	3.3	2.5	.1
JUN 27...	3	2.5	.6	2.6	37	.4	--	.6	6	3.7	2.8	.2
JUL 31...	0	2.3	.7	2.8	39	.4	--	.6	10	3.1	2.6	.2
SEP 04...	0	2.7	.8	3.2	39	.4	--	.7	12	2.3	2.9	.2
25...	0	3.1	.7	2.8	35	.4	--	.7	12	3.3	2.9	.2

01022500 NARRAGUAGUS RIVER AT CHERRYFIELD, ME--Continued

CHEMICAL ANALYSFS, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

DATE	SILICA, DIS- SOLVED (MG/L AS SiO2)	SOLIDS, RESIDUE AT 180 DEG. C DIS- SOLVED (MG/L)	SOLIDS, SUM OF CONSTITUENTS, DIS- SOLVED (MG/L)	SOLIDS, DIS- SOLVED (TONS PER AC-FT)	SOLIDS, DIS- SOLVED (TONS PER DAY)	NITRO- GEN, NO2+NO3 TOTAL (MG/L AS N)	NITRO- GEN, NO2+NO3 DIS- SOLVED (MG/L AS N)	NITRO- GEN, AMMONIA TOTAL (MG/L AS N)	NITRO- GEN, AMMONIA DIS- SOLVED (MG/L AS N)	NITRO- GEN, AMMONIA TOTAL (MG/L AS NH4)	NITRO- GEN, AMMONIA DIS- SOLVED (MG/L AS NH4)	NITRO- GEN, ORGANIC TOTAL (MG/L AS N)
OCT 29...	6.2	40	24	.05	55.0	.05	.46	.010	.020	.01	.03	.77
NOV 19...	6.1	34	21	.05	57.4	.05	.04	.020	.000	.02	.00	.51
DEC 10...	7.2	39	25	.05	37.2	.04	.07	.040	.010	.05	.01	.35
JAN 22...	7.5	35	28	.05	23.2	.05	.06	.020	.010	.02	.01	.32
FEB 20...	7.8	34	26	.05	10.8	.06	.06	.010	.070	.01	.09	.28
MAR 24...	3.5	13	12	.02	50.9	.07	.08	.030	.040	.04	.05	.29
MAY 02...	3.8	33	16	.04	90.0	.09	.07	.010	.040	.01	.05	.21
21...	3.2	33	17	.04	30.7	.09	.03	.000	.040	.00	.05	.35
JUN 27...	3.5	38	20	.05	19.5	.15	.02	.020	.000	.02	.00	.47
JUL 31...	5.3	47	24	.06	32.1	.01	.02	.050	.010	.06	.01	.02
SEP 04...	5.4	42	26	.06	8.05	.02	.03	.050	.050	.06	.06	.27
25...	5.8	38	27	.05	14.5	.04	.03	.000	.020	.00	.03	.21

DATE	NITRO- GEN, ORGANIC DIS- SOLVED (MG/L AS N)	NITRO- GEN,AM- MONIA + ORGANIC TOTAL (MG/L AS N)	NITRO- GEN,NH4 + ORG. SUSP. TOTAL (MG/L AS N)	NITRO- GEN,AM- MONIA + ORGANIC DIS. (MG/L AS N)	NITRO- GEN, TOTAL (MG/L AS N)	NITRO- GEN, DIS- SOLVED (MG/L AS N)	NITRO- GEN, TOTAL (MG/L AS NO3)	PHOS- PHORUS, TOTAL (MG/L AS P)	PHOS- PHORUS, TOTAL (MG/L AS P04)	PHOS- PHORUS, DIS- SOLVED (MG/L AS P)	ARSENIC TOTAL (UG/L AS AS)	ARSENIC SUS- PENDEED TOTAL (UG/L AS AS)
OCT 29...	.43	.78	.33	.45	.83	.91	3.7	.010	.03	.010	--	--
NOV 19...	.24	.53	.29	.24	.58	.28	2.6	.020	.06	.010	3	1
DEC 10...	.36	.39	.02	.37	.43	.44	1.9	.010	.03	.010	--	--
JAN 22...	.19	.34	.14	.20	.39	.26	1.7	.010	.03	.000	--	--
FEB 20...	.18	.29	.04	.25	.35	.31	1.6	.010	.03	.010	1	0
MAR 24...	.14	.32	.14	.18	.39	.26	1.7	.020	.06	.010	--	--
MAY 02...	.08	.22	.10	.12	.31	.19	1.4	.020	.06	.010	--	--
21...	.22	.35	.09	.26	.44	.29	1.9	.010	.03	.010	1	0
JUN 27...	.50	.49	.00	.50	.64	.52	2.8	.050	.15	.000	--	--
JUL 31...	.22	.07	.00	.23	.08	.25	.35	.050	.15	.000	--	--
SEP 04...	.16	.32	.11	.21	.34	.24	1.5	.020	.06	.020	1	0
25...	.05	.21	.14	.07	.25	.10	1.1	.020	.06	.010	--	--

01022500 NARRAGUAGUS RIVER AT CHERRYFIELD, ME--Continued

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

[illegible][illegible]

01022500 NARRAGUAGUS RIVER AT CHERRYFIELD, ME--Continued

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

DATE	MANGANESE, DIS- SOLVED (UG/L AS MN)	MERCURY TOTAL RECOV- ERABLE (UG/L AS HG)	MERCURY SUS- PENDE RECOV- ERABLE (UG/L AS HG)	MERCURY DIS- SOLVED (UG/L AS HG)	NICKEL, TOTAL RECOV- ERABLE (UG/L AS NI)	NICKEL, SUS- PENDE RECOV- ERABLE (UG/L AS NI)	NICKEL, DIS- SOLVED (UG/L AS NI)	SELE- NIUM, TOTAL (UG/L AS SE)	SELE- NIUM, SUS- PENDE TOTAL (UG/L AS SE)	SELE- NIUM, DIS- SOLVED (UG/L AS SE)	SILVER, TOTAL RECOV- ERABLE (UG/L AS AG)
OCT 29...	--	--	--	--	--	--	--	--	--	--	--
NOV 19...	10	.3	.2	<.1	1	0	6	0	0	0	0
DEC 10...	--	--	--	--	--	--	--	--	--	--	0
JAN 22...	--	--	--	--	--	--	--	--	--	--	--
FEB 20...	10	.1	.0	<.1	1	1	0	0	0	0	1
MAR 24...	--	--	--	--	--	--	--	--	--	--	0
MAY 02...	--	--	--	--	--	--	--	--	--	--	--
21...	20	.2	.0	.2	0	0	0	0	0	0	0
JUN 27...	--	--	--	--	--	--	--	--	--	--	0
JUL 31...	--	--	--	--	--	--	--	--	--	--	--
SEP 04...	10	.2	.0	.2	2	2	0	0	0	0	0
25...	--	--	--	--	--	--	--	--	--	--	0

DATE	SILVER, SUS- PENDE RECOV- ERABLE (UG/L AS AG)	SILVER, DIS- SOLVED (UG/L AS AG)	ZINC, TOTAL RECOV- ERABLE (UG/L AS ZN)	ZINC, SUS- PENDE RECOV- ERABLE (UG/L AS ZN)	ZINC, DIS- SOLVED (UG/L AS ZN)	CARBON, ORGANIC TOTAL (MG/L AS C)	CARBON, ORGANIC DIS- SOLVED (MG/L AS C)	CARBON, ORGANIC SUS- PENDE (MG/L AS C)	SEDI- MENT, SUS- PENDE (MG/L)	SEDI- MENT DIS- CHARGE, SUS- PENDE (T/DAY)	SED. SUSP. SIEVE DIAM. % FINER THAN .062 MM
OCT 29...	--	--	--	--	--	11	--	--	4	5.5	100
NOV 19...	0	0	10	0	10	--	116	.2	3	5.1	100
DEC 10...	--	--	--	--	--	14	--	--	4	3.8	100
JAN 22...	--	--	--	--	--	13	--	--	3	2.0	100
FEB 20...	1	0	60	50	7	--	165	--	3	.96	100
MAR 24...	--	--	--	--	--	4.7	--	--	12	47	97
MAY 02...	--	--	--	--	--	7.6	--	--	5	14	89
21...	0	0	10	4	6	--	500	--	8	7.4	100
JUN 27...	--	--	--	--	--	5.8	--	--	2	1.0	100
JUL 31...	--	--	--	--	--	--	--	--	7	4.8	100
SEP 04...	0	0	40	10	30	--	8.3	.3	1	.19	100
25...	--	--	--	--	--	--	--	--	4	1.5	100

BIOLOGICAL DATA, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

PERIPHYTON

(Sampling method - Polyethylene strip)

DATES OF EXPOSURE	LENGTH OF EXPO- SURE (DAYS)	PERI- PHYTON BIOMASS TOTAL DRY WEIGHT (G/SQ M)	PERI- PHYTON BIOMASS ASH WEIGHT (G/SQ M)	CHLOR-A PERI- PHYTON CHROMO- GRAPHIC FLUOROM. (MG/M ²)	CHLOR-B PERI- PHYTON CHROMO- GRAPHIC FLUOROM. (MG/M ²)	BIOMASS PIGMENT RATIO
SEP 18 TO OCT 29	41	.240	.240	2.88	.090	.000
MAY 02 TO MAY 21	19	4.96	4.17	.990	.430	798
SEP 04 TO SEP 25	21	6.77	5.83	6.00	1.81	157

01022500 NARRAGUAGUS RIVER AT CHERRYFIELD, ME--Continued

PHYTOPLANKTON ANALYSES, OCTOBER 1979 TO SEPTEMBER 1980

DATE TIME	NOV 19,79 1400	MAR 24,80 1315	MAY 21,80 1615	JUN 27,80 1330
TOTAL CELLS/ML	25	110	0	270
DIVERSITY: DIVISION	1.1	1.2	0.0	1.6
..CLASS	1.8	1.2	0.0	1.6
..ORDER	2.1	1.9	0.0	2.2
...FAMILY	2.8	2.8	0.0	2.8
....GENUS	3.1	2.8	0.0	3.0

ORGANISM	CELLS /ML	PER- CENT	CELLS /ML	PER- CENT	CELLS /ML	PER- CENT	CELLS /ML	PER- CENT
CHLOROPHYTA (GREEN ALGAE)								
..CHLOROPHYCEAE								
...CHLOROCOCCALES								
....OOCYSTACEAE								
....ANKISTRODESMS	--	-	20#	19	--	-	65#	24
....CHLORELLA	2	9	--	-	*	0	--	-
....TETRAEDRON	--	-	--	-	--	0	13	5
...SCENEDESMACEAE								
....ACTINASTRUM	--	-	--	-	--	-	--	-
....CRUCIGENIA	--	-	--	-	--	-	--	-
....SCENEDESMUS	--	-	20#	19	--	-	52#	19
..VOLVOCALES								
...CHLAMYDOMONADACEAE								
....CHLAMYDOMONAS	--	-	10	10	--	-	26	10
..ZYGNEMALES								
...DESMIDIACEAE								
....STAUSTRUM	--	-	--	-	--	-	13	5
CHRYSOPHYTA								
..BACILLARIOPHYCEAE								
...CENTRALES								
...COSCONODISCACEAE								
....CYCLOTELLA	2	9	--	-	--	-	13	5
....MELOSIRA	--	-	10	10	--	-	--	-
..PENNALES								
...ACHNANTHACEAE								
....ACHNANTHES	--	-	--	-	--	-	--	-
...FRAGILARIACEAE								
....SYNEDRA	2	9	--	-	--	-	--	-
...GOMPHONEMACEAE								
....GOMPHONEMA	--	-	5	5	--	-	--	-
...NAVICULACEAE								
....NAVICULA	--	-	15	14	--	-	--	-
...NITZSCHACEAE								
....NITZSCHIA	2	9	20#	19	--	-	--	-
...TABELLARIACEAE								
....TABELLARIA	2	9	--	-	--	-	--	-
..CHRYSOPHYCEAE								
...CHRYSOMONADALES								
....OCHROMONAS	5#	18	--	-	--	-	--	-
CRYPTOPHYTA (CRYPTOMONADS)								
..CRYPTOPHYCEAE								
...CRYPTOMONADALES								
....CRYPTOCHRYSIDACEAE								
....CHROOMONAS	--	-	--	-	--	-	13	5
....CRYPTOMONADACEAE								
....CRYPTOMONAS	5#	18	--	-	--	-	13	5
CYANOPHYTA (BLUE-GREEN ALGAE)								
..CYANOPHYCEAE								
...CHROOCOCCALES								
....CHROOCOCCACEAE								
....ANACYSTIS	--	-	--	-	--	-	52#	19
...HORMOGONALES								
....OSCILLATORIACEAE								
....LYNGBYA	--	-	--	-	--	-	--	-
....OSCILLATORIA	--	-	--	-	--	-	--	-
EUGLENOPHYTA (EUGLENIDS)								
..EUGLENOPHYCEAE								
...EUGLENALES								
....EUGLENACEAE								
....EUGLENA	--	-	--	-	--	-	13	5
....TRACHELOMONAS	--	-	5	5	--	-	--	-

NOTE: # - DOMINANT ORGANISM; EQUAL TO OR GREATER THAN 15%

* - OBSERVED ORGANISM, MAY NOT HAVE BEEN COUNTED; LESS THAN 1/2%

01022500 NARRAGUAGUS RIVER AT CHERRYFIELD, ME--Continued

PHYTOPLANKTON ANALYSES, OCTOBER 1979 TO SEPTEMBER 1980

DATE TIME	JUL 31,80 1200	SEP 4,80 1515	SEP 25,80 1230
TOTAL CELLS/ML	1600	170	4000
DIVERSITY: DIVISION	0.4	1.5	0.4
..CLASS	0.4	1.5	0.4
...ORDER	0.5	2.0	1.0
....FAMILY	0.6	2.5	1.0
.....GENUS	1.3	2.5	1.1

ORGANISM	CELLS /ML	PER- CENT	CELLS /ML	PER- CENT	CELLS /ML	PER- CENT
CHLOROPHYTA (GREEN ALGAE)						
..CHLOROPHYCEAE						
...CHLOROCOCCALES						
....OOCYSTACEAE						
.....ANKISTRODESMUS	39	2	26#	15	--	-
.....CHLORELLA	--	-	--	-	--	-
.....TETRAEDRON	--	-	--	-	*	0
....SCENEDESMACEAE						
.....ACTINASTRUM	--	-	--	-	100	3
.....CRUCIGENIA	--	-	--	-	52	1
.....SCENEDESMUS	26	2	52#	31	52	1
..VOLVOCALES						
...CHLAMYDOMONADACEAE						
....CHLAMYDOMONAS	--	-	26#	15	*	0
..ZYGNEMATALES						
...DESMIDIACEAE						
....STAURASTRUM	--	-	--	-	--	-
CHRYSOPHYTA						
..BACILLARIOPHYCEAE						
...CENTRALES						
....COSCINODISCACEAE						
.....CYCLOTELLA	13	1	--	-	--	-
.....MELOSIRA	--	-	--	-	--	-
..PENNALES						
...ACHNANTHACEAE						
....ACHNANTHES	13	1	--	-	--	-
...FRAGILARIACEAE						
....SYNEDRA	--	-	--	-	--	-
...GOMPHONEMATAACEAE						
....GOMPHONEMA	--	-	--	-	--	-
...NAVICULACEAE						
....NAVICULA	--	-	--	-	--	-
...NITZSCHIAEAE						
....NITZSCHIA	--	-	13	8	--	-
...TABELLARIACEAE						
....TABELLARIA	--	-	--	-	--	-
..CHRYSOPHYCEAE						
...CHRYSOMONADALES						
....MALLOMONADACEAE						
.....MALLOMONAS	--	-	--	-	--	-
...OCHROMONADACEAE						
....DINOBYRON	--	-	--	-	--	-
....OCHROMONAS	--	-	--	-	--	-
CRYPTOPHYTA (CRYPTOMONADS)						
..CRYPTOPHYCEAE						
...CRYPTOMONADALES						
....CRYPTOCHRYSIDACEAE						
.....CHROOMONAS	--	-	--	-	26	1
....CRYPTOMONADACEAE						
.....CRYPTOMONAS	13	1	26#	15	--	-
CYANOPHYTA (BLUE-GREEN ALGAE)						
..CYANOPHYCEAE						
...CHROOCOCCALES						
....CHROOCOCCACEAE						
.....ANACYSTIS	13	1	26#	15	3100#	79
....HORMOGONALES						
...OSCILLATORIACEAE						
....LYNGRYA	1100#	67	--	-	--	-
....OSCILLATORIA	400#	25	--	-	580	15
EUGLENOPHYTA (EUGLENOIDS)						
..EUGLENOPHYCEAE						
...EUGLENALES						
....EUGLENACEAE						
.....EUGLENA	--	-	--	-	--	-
....TRACHELOMONAS	--	-	--	-	--	-

NOTE: # - DOMINANT ORGANISM; EQUAL TO OR GREATER THAN 15%

* - OBSERVED ORGANISM, MAY NOT HAVE BEEN COUNTED; LESS THAN 1/2%

01022500 NARRAGUAGUS RIVER AT CHERRYFIELD, ME--Continued

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

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
OCTOBER			NOVEMBER			DECEMBER			JANUARY			
1	39	38	39	36	35	35	33	31	32	33	31	32
2	39	35	36	36	35	36	33	32	32	33	32	32
3	35	35	35	36	34	35	33	31	32	33	31	32
4	35	34	34	34	32	33	34	33	33	33	31	32
5	34	34	34	35	34	34	34	33	33	33	32	33
6	35	33	35	35	34	34	34	34	34	34	32	33
7	35	35	35	34	33	34	34	33	34	35	33	34
8	35	34	34	33	32	33	33	32	33	35	34	35
9	34	33	34	33	32	33	33	30	32	35	34	34
10	34	33	34	33	31	32	33	33	33	35	34	34
11	34	33	33	32	31	32	34	33	33	35	34	35
12	34	33	34	31	30	30	34	33	34	36	35	36
13	33	32	33	31	30	30	34	32	33	36	35	36
14	33	33	33	30	30	30	33	32	33	37	36	36
15	34	32	33	30	30	30	34	32	33	36	36	36
16	34	33	34	30	29	30	34	34	34	36	36	36
17	34	33	34	30	29	30	34	28	33	36	36	36
18	34	34	34	31	30	30	31	27	29	36	36	36
19	34	33	34	32	30	31	33	29	31	36	35	36
20	34	34	34	31	30	30	34	31	33	36	35	35
21	34	34	34	32	31	31	34	33	34	35	35	35
22	35	34	34	31	30	30	34	34	34	36	35	35
23	35	34	35	31	30	31	34	34	34	37	36	36
24	35	34	35	32	31	31	34	34	34	36	34	35
25	35	34	34	33	33	33	34	32	33	36	34	35
26	35	34	34	33	31	31	32	29	30	37	35	36
27	35	34	35	33	30	32	30	29	29	37	36	37
28	35	34	35	33	31	32	31	30	30	37	36	37
29	35	30	33	33	31	32	33	29	31	37	36	36
30	35	34	34	33	31	32	32	31	31	36	35	36
31	35	34	35	---	---	---	32	30	31	37	35	36
MONTH	39	30	34	36	29	32	34	27	32	37	31	35

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
FEBRUARY			MARCH			APRIL			MAY			
1	38	36	37	41	38	40	27	26	27	28	27	28
2	38	37	37	41	38	40	28	27	27	28	21	24
3	38	36	37	42	39	40	28	27	28	22	21	22
4	39	37	38	42	40	41	28	26	28	22	21	22
5	38	36	37	43	41	42	27	26	26	23	22	22
6	39	37	38	43	42	43	27	26	26	23	22	23
7	38	37	37	43	42	43	27	26	27	23	22	23
8	39	37	38	43	42	43	28	27	27	23	22	22
9	39	37	38	43	43	43	28	27	28	22	22	22
10	38	36	37	43	42	43	28	28	28	23	22	22
11	39	37	38	44	43	43	27	18	21	23	22	23
12	39	37	38	43	42	42	27	23	26	24	23	23
13	39	37	38	43	41	42	28	26	27	24	23	24
14	39	37	38	43	33	39	28	26	27	24	23	24
15	39	38	39	38	33	36	27	25	27	24	24	24
16	38	37	38	38	37	37	27	27	27	25	24	25
17	38	37	38	38	37	38	28	27	27	25	25	25
18	39	37	38	36	21	26	28	24	27	25	25	25
19	39	37	38	32	21	27	28	25	27	25	24	25
20	40	39	39	32	30	31	29	26	28	25	24	25
21	39	38	39	30	25	28	29	28	28	25	24	25
22	38	37	38	---	---	---	28	28	28	26	24	25
23	39	38	39	---	---	---	28	27	28	26	25	26
24	40	38	39	---	---	---	28	27	28	27	25	26
25	40	39	39	25	24	24	28	27	28	27	25	26
26	39	38	38	25	24	25	28	28	28	27	25	26
27	39	37	38	26	25	25	28	28	28	27	25	26
28	40	38	39	26	25	26	29	27	28	27	25	26
29	40	39	40	27	26	26	29	28	28	28	25	26
30	---	---	---	26	26	26	29	28	28	28	26	27
31	---	---	---	27	25	26	---	---	---	29	26	27
MONTH	40	36	38	44	21	35	29	18	27	29	21	24

01022500 NARRAGUAGUS RIVER AT CHERRYFIELD, ME--Continued

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

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
	JUNE			JULY			AUGUST			SEPTEMBER		
1	28	26	27	31	31	31	33	31	32	---	---	---
2	27	26	26	31	31	31	32	31	32	---	---	---
3	27	25	26	32	31	31	33	31	32	---	---	---
4	27	25	26	32	31	31	33	31	32	---	---	---
5	---	---	---	32	31	32	34	32	33	36	35	36
6	---	---	---	32	31	31	34	32	33	48	35	41
7	---	---	---	32	31	31	33	31	33	49	43	46
8	---	---	---	32	31	31	34	33	34	45	38	42
9	---	---	---	32	31	31	35	32	34	41	32	38
10	---	---	---	32	31	31	34	32	34	42	35	38
11	---	---	---	32	31	31	37	33	35	36	33	36
12	---	---	---	32	31	31	36	33	35	36	31	35
13	---	---	---	33	31	32	36	35	35	35	31	34
14	---	---	---	34	31	32	37	32	35	36	35	35
15	---	---	---	33	31	32	35	32	34	36	34	35
16	---	---	---	---	---	---	35	31	33	35	34	34
17	---	---	---	---	---	---	35	31	32	---	---	---
18	---	---	---	---	---	---	42	30	34	---	---	---
19	---	---	---	---	---	---	49	41	45	---	---	---
20	---	---	---	---	---	---	46	42	44	---	---	---
21	---	---	---	---	---	---	47	42	44	---	---	---
22	---	---	---	---	---	---	47	42	45	---	---	---
23	---	---	---	---	---	---	48	38	45	---	---	---
24	---	---	---	---	---	---	49	41	46	---	---	---
25	---	---	---	---	---	---	---	---	---	---	---	---
26	---	---	---	---	---	---	---	---	---	41	35	39
27	---	---	---	---	---	---	---	---	---	41	40	40
28	31	31	31	---	---	---	---	---	---	40	39	40
29	31	30	31	---	---	---	---	---	---	41	34	40
30	31	31	31	---	---	---	---	---	---	41	40	41
31	---	---	---	---	---	---	---	---	---	---	---	---
MONTH	31	25	28	34	31	31	49	30	36	49	31	38
YEAR	49	18	33									

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

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
	OCTOBER			NOVEMBER			DECEMBER			JANUARY		
1	14.5	14.0	14.0	7.0	6.0	6.5	2.5	2.0	2.0	.0	.0	.0
2	14.5	14.0	14.0	8.0	6.0	7.0	2.0	1.5	2.0	.0	.0	.0
3	14.5	14.0	14.0	9.5	8.0	8.5	1.5	.5	1.0	.0	.0	.0
4	14.5	14.0	14.0	9.0	8.0	8.5	.5	.5	.5	.0	.0	.0
5	14.0	14.0	14.0	8.0	6.5	7.0	1.0	.5	.5	.0	.0	.0
6	15.0	14.0	14.5	6.5	6.0	6.5	2.5	1.0	2.0	.0	.0	.0
7	14.5	14.0	14.0	7.0	6.5	7.0	3.5	2.5	3.0	.0	.0	.0
8	14.0	12.0	13.0	7.5	7.0	7.0	3.0	2.0	3.0	.0	.0	.0
9	11.5	9.0	10.5	7.5	7.0	7.0	2.0	.0	.5	.0	.0	.0
10	9.0	8.5	8.5	9.0	7.0	8.0	.0	.0	.0	.0	.0	.0
11	9.0	8.0	8.5	9.0	8.5	8.5	.0	.0	.0	.0	.0	.0
12	8.5	8.0	8.5	8.0	7.0	7.5	.0	.0	.0	.0	.0	.0
13	9.5	8.5	9.0	7.0	6.0	6.5	.5	.0	.5	.0	.0	.0
14	9.5	8.5	9.0	6.0	5.5	6.0	.0	.0	.0	.0	.0	.0
15	8.5	8.0	8.0	5.5	5.0	5.5	.0	.0	.0	.0	.0	.0
16	8.5	7.5	8.0	5.0	3.5	4.5	.0	.0	.0	.0	.0	.0
17	7.5	7.0	7.5	3.0	2.5	2.5	.0	.0	.0	.0	.0	.0
18	9.0	7.5	8.0	3.5	2.5	3.0	.0	.0	.0	.0	.0	.0
19	8.5	7.5	8.0	2.5	2.0	2.0	.0	.0	.0	.0	.0	.0
20	8.5	7.5	8.0	2.0	1.5	1.5	.0	.0	.0	.0	.0	.0
21	9.5	8.5	9.0	3.5	2.0	3.0	.0	.0	.0	.0	.0	.0
22	11.5	9.5	10.0	3.5	3.0	3.0	.0	.0	.0	.5	.0	.0
23	12.5	11.0	11.5	5.0	3.5	4.0	.0	.0	.0	.0	.0	.0
24	13.0	12.5	12.5	6.0	5.0	5.5	.0	.0	.0	.5	.0	.0
25	13.0	11.0	12.0	6.5	6.0	6.5	.0	.0	.0	.5	.0	.0
26	11.0	9.0	10.0	7.0	6.5	6.5	.0	.0	.0	.0	.0	.0
27	9.0	8.0	8.5	8.0	7.0	7.5	.0	.0	.0	.0	.0	.0
28	8.0	7.5	7.5	7.5	6.0	6.5	.0	.0	.0	.0	.0	.0
29	7.5	7.0	7.0	6.0	4.5	5.5	.0	.0	.0	.0	.0	.0
30	7.0	6.5	7.0	4.5	3.0	3.5	.0	.0	.0	.0	.0	.0
31	7.0	6.5	7.0	---	---	---	.0	.0	.0	1.0	.0	.5
MONTH	15.0	6.5	10.0	9.5	1.5	5.5	3.5	.0	.5	1.0	.0	.0

LOCATION.--Lat 44°43'17", long 68°24'40", Hancock County, Hydrologic Unit 01050002, on left bank 22 ft (6.7 m) upstream from State Highway 181, 1.2 mi (1.9 km) upstream from mouth, and 1.5 mi (2.4 km) north of Mariaville.

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

GAGE.--Water-stage recorder and culvert control. Altitude of gage is 125 ft (38 m), from topographic map.

REMARKS.--Records fair. No gage-height record Feb. 4 to Mar. 24. Several observations of water temperature and specific conductance were made during the year.

AVERAGE DISCHARGE.--16 years, 22.3 ft³/s (0.632 m³/s, 30.90 in/yr (785 mm/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 1,230 ft³/s (34.8 m³/s) Dec. 27, 1969, gage height, 13.47 ft (4.106 m); minimum, 0.24 ft³/s (0.007 m³/s) Sept. 22-25, 1965.

EXTREMES FOR CURRENT YEAR.--Peak discharges above base of 150 ft³/s (4.2 m³/s) and maximum (*):

Date	Time	Discharge (ft ³ /s) (m ³ /s)		Gage height (ft) (m)		Date	Time	Discharge (ft ³ /s) (m ³ /s)		Gage height (ft) (m)	
Oct. 8	0730	252	7.14	6.92	2.109						
Nov. 3	2030	305	8.64	7.41	2.259	Apr. 11	0615	* 346	9.80	7.76	2.365

Minimum discharge, 0.50 ft³/s (0.014 m³/s) Sept. 13, gage height, 2.52 ft (0.768 m).

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	6.6	20	18	16	5.4	3.3	34	73	6.6	2.1	12	.81
2	75	17	17	15	5.2	3.4	28	45	6.2	2.2	7.9	.80
3	39	136	15	14	5.0	3.4	27	35	6.3	2.5	6.1	1.3
4	84	168	14	10	4.9	3.6	34	29	7.2	2.3	5.4	1.3
5	47	69	14	8.6	4.8	3.7	63	26	6.8	2.0	4.1	1.1
6	58	45	14	7.6	4.7	3.9	36	23	5.9	1.8	3.2	1.0
7	42	37	18	6.9	4.6	4.1	25	22	5.5	1.7	2.9	.92
8	193	34	19	8.9	4.5	4.3	23	38	6.2	1.7	2.4	.77
9	105	29	13	9.5	4.4	4.5	24	53	6.8	3.3	5.0	.65
10	75	70	13	8.1	4.3	5.1	38	35	7.2	2.7	4.1	.58
11	57	61	12	6.9	4.2	6.6	255	26	6.6	2.4	2.7	.56
12	44	44	12	57	4.1	10	99	22	5.4	3.2	2.3	.64
13	49	36	14	40	4.0	8.2	72	21	4.6	2.9	2.2	.55
14	34	31	12	29	3.9	9.4	55	20	4.3	2.9	2.0	1.8
15	30	34	10	23	3.9	20	61	18	4.6	2.9	1.8	5.0
16	26	30	11	18	3.8	16	77	16	4.8	3.0	1.6	3.8
17	23	27	56	14	3.7	14	52	14	4.7	4.4	1.5	2.6
18	22	24	36	13	3.7	140	38	13	4.2	8.9	1.3	8.0
19	20	22	18	12	3.6	110	33	16	4.0	4.5	1.2	7.3
20	14	20	12	11	3.5	90	29	15	4.3	2.8	1.2	3.9
21	14	28	11	9.9	3.5	76	32	12	4.8	3.0	1.1	3.0
22	18	26	11	8.8	3.5	67	30	12	4.7	4.5	1.0	2.6
23	16	24	12	8.4	3.4	62	63	10	4.5	10	.93	3.8
24	15	22	15	7.8	3.4	59	49	9.5	3.8	22	.87	5.8
25	17	21	44	7.3	3.4	50	37	8.6	3.2	11	.80	3.6
26	15	21	47	6.9	3.4	44	32	7.7	2.7	5.7	.76	28
27	14	44	50	6.5	3.4	39	31	7.3	2.2	3.8	.78	28
28	13	31	31	6.2	3.3	31	27	7.1	2.0	3.0	.83	12
29	37	24	25	5.9	3.3	38	25	6.8	1.8	2.5	.71	6.6
30	34	20	23	5.6	---	53	115	6.9	1.8	57	.67	4.6
31	25	---	19	5.5	---	44	---	6.3	---	25	.72	---
TOTAL	1286.6	1215	688	407.3	116.8	1026.9	1544	654.2	143.7	207.7	80.07	141.38
MEAN	41.5	40.5	22.2	13.1	4.03	33.1	51.5	21.1	4.79	6.70	2.58	4.71
MAX	193	168	47	57	5.4	140	255	73	7.2	57	12	28
MIN	6.6	17	10	5.5	3.3	3.3	23	6.3	1.8	1.7	.67	.55
CFSM	4.24	4.13	2.27	1.34	.41	3.38	5.26	2.15	.49	.68	.26	.48
IN.	4.38	4.61	2.61	1.55	.44	3.90	5.86	2.48	.55	.79	.30	.54
CAL YR 1979	TOTAL	12486.90	MEAN	34.2	MAX	555	MIN	1.4	CFSM	3.49	IN	47.39
WTR YR 1980	TOTAL	7511.65	MEAN	20.5	MAX	255	MIN	.55	CFSM	2.09	IN	28.51

01029500 EAST BRANCH PENOBSCOT RIVER AT GRINDSTONE, ME

LOCATION.--Lat 45°43'49", long 68°35'22", Penobscot County, Hydrologic Unit 01020002, on left bank 500 ft (152 m) downstream from Bangor and Aroostook Railroad bridge, 0.5 mi (0.8 km) south of Grindstone, and 9.5 mi (15.3 km) upstream from confluence with West Branch Penobscot River.

DRAINAGE AREA.--1,090 mi² (2,823 km²), including 249 mi² (645 km²) drained by Chamberlain Lake through Telos Canal.

PERIOD OF RECORD.--October 1902 to current year. Monthly discharge only for some periods, published in WSP 1301.

REVISED RECORDS.--WSP 501: Drainage area. WSP 1301: 1907-12, 1914-29(M). WSP 2101: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 294.74 ft (89.837 m) National Geodetic Vertical Datum of 1929. Prior to June 30, 1929, nonrecording gage on railroad bridge at same datum.

REMARKS.--Records good except those for winter period, which are fair. Flow regulated by Chamberlain, Telos, Second and Grand Lakes, and Round Pond (Reservoirs in Penobscot River basin). Final regulation at Grand Lake Dam 35 mi (56 km) upstream. Several observations of water temperature and specific conductance were made during the year.

AVERAGE DISCHARGE.--78 years, 1,940 ft³/s (54.94 m³/s).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 37,000 ft³/s (1,050 m³/s) Apr. 30, 1923, gage height, 16.9 ft (5.15 m), site then in use, present datum; minimum daily (1914-80), 77 ft³/s (2.18 m³/s) Nov. 19, 1924.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 7,770 ft³/s (220 m³/s) Apr. 11, gage height, 8.80 ft (2.682 m); minimum daily, 560 ft³/s (15.9 m³/s) Mar. 15.

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1320	1300	1910	1220	1480	740	1990	4950	1190	976	1060	908
2	1370	1200	1600	1150	1430	725	2000	4200	1140	1020	956	959
3	1410	1650	1650	1090	1620	700	2110	3620	1100	1180	895	964
4	1630	3730	1870	1010	1710	685	2270	3290	1160	1130	888	912
5	1740	3150	1610	830	1660	670	2530	3020	1270	972	850	867
6	1990	3250	1400	770	1610	655	2850	2540	1220	1060	845	849
7	1730	2830	1400	730	1560	640	2350	2370	1110	1150	997	826
8	2690	2290	1420	715	1510	630	2120	2690	1050	1010	972	803
9	3140	2080	1160	705	1470	620	2250	3610	1030	962	934	784
10	2220	2130	1160	700	1600	610	2820	4070	1000	911	877	789
11	1800	2350	1080	700	1620	600	6370	3630	948	851	782	790
12	1580	2020	1030	1100	1560	590	6230	3300	914	860	773	885
13	1580	1820	1340	2100	1490	580	4770	3040	885	882	1110	867
14	1650	1730	1050	1620	1440	570	4290	2520	849	1010	1120	908
15	1480	1740	1030	1510	1380	560	4230	2710	816	965	983	1320
16	1340	1700	966	1430	1340	565	6440	2940	828	1020	885	1280
17	1240	1590	1260	1380	1300	575	4560	2770	816	1160	838	1070
18	1170	1410	1280	1300	1230	580	3320	2290	780	1190	795	1030
19	1110	1240	1030	1270	1200	1140	2760	2390	757	1070	742	835
20	1070	1270	945	1240	1230	1780	2450	2460	733	988	711	672
21	1070	1330	898	1110	1260	1630	2900	2170	860	990	687	640
22	1060	1370	831	1250	1150	1530	2860	1990	1530	934	864	604
23	1020	1360	889	1400	1060	1470	3000	1760	1300	1130	937	612
24	995	1380	950	1380	990	1360	3920	1650	1040	1320	919	630
25	1120	1390	1010	1350	930	1240	3690	1560	928	1130	899	935
26	1240	1360	1830	1330	860	1150	3320	1480	911	978	881	1120
27	1120	2300	2310	1310	800	1110	3830	1410	1070	910	898	1260
28	1040	3480	2060	1290	780	1080	4810	1360	1150	949	919	1270
29	1060	2810	1730	1510	760	1210	4700	1310	1020	950	937	1190
30	1240	2390	1480	1570	---	1620	4840	1260	924	969	896	1140
31	1390	---	1320	1510	---	1950	---	1210	---	1130	875	---
TOTAL	45675	59650	41499	37580	38030	29565	106580	79570	30329	31757	27725	27719
MEAN	1473	1988	1339	1212	1311	954	3553	2567	1011	1024	894	924
MAX	3140	3730	2310	2100	1710	1950	6440	4950	1530	1320	1170	1320
MIN	995	1200	831	700	760	560	1990	1210	733	851	687	604
CAL YR 1979 TOTAL	934620		MEAN	2561	MAX	23500	MIN	400				
WTR YR 1980 TOTAL	555679		MEAN	1518	MAX	6440						

01030000 PENOBSCOT RIVER NEAR MATTAWAMKEAG, ME

LOCATION.--Lat 45°34'01", long 68°24'10", Penobscot County, Hydrologic Unit 01020005, on left bank 700 ft (200 m) downstream from Mattaseunk Dam and powerhouse, 1.3 mi (2.1 km) upstream from Mattaseunk Brook, and 4.5 mi (7.2 km) upstream from Mattawamkeag.

DRAINAGE AREA.--3,356 mi² (8,692 km²), including 249 mi² (645 km²) drained by Chamberlain Lake through Telos Canal.

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

REVISED RECORDS.--WSP 2101: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 191.72 ft (58.436 m) National Geodetic Vertical Datum of 1929.

REMARKS.--Records fair. No gage-height record, Oct. 1 to Oct. 31. Flow regulated by many reservoirs above station (Reservoirs in Penobscot River basin). Several observations of water temperature and specific conductance were made during the year.

AVERAGE DISCHARGE.--40 years, 5,762 ft³/s (163.2 m³/s).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 66,000 ft³/s (1,870 m³/s) Apr. 29, 1973, gage height, 16.89 ft (5.148 m), backwater from Mattawamkeag River; minimum daily, 1,430 ft³/s (40.5 m³/s) Aug. 17, 1941.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 15,200 ft³/s (430 m³/s) Apr. 11, gage height, 7.08 ft (2.158 m); minimum daily, 2,100 ft³/s (59.5 m³/s) Sept. 1.

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	3350	4650	6230	3700	4000	3880	4750	7810	3660	3550	3700	2100
2	4600	4550	5650	3710	3930	3970	4500	6990	3920	3150	4400	3700
3	3900	6300	5410	4020	3930	3840	5370	6320	3780	2750	3900	3200
4	4000	8340	5680	3740	4250	3310	5150	6360	3820	2700	3600	3500
5	3450	7530	5890	3730	3910	3390	5470	6340	3820	3650	3800	3150
6	5300	7000	5300	3450	3730	3750	5940	5560	3870	4100	4100	3050
7	4700	7290	5050	3550	3600	3380	5450	5580	3690	3600	4400	2900
8	6250	6560	5100	3480	3680	3230	4790	5420	4050	3100	4250	3450
9	6400	6060	4750	3470	3610	3540	5330	5790	3710	3500	3800	3700
10	5550	6560	4300	3440	3630	3290	5340	6160	3780	3300	3950	3250
11	5350	6640	4200	4010	3740	3220	9200	5970	3940	3150	3900	3400
12	4600	6090	4550	4460	4090	3450	9910	5820	3890	2900	4500	3700
13	4850	6020	4400	4910	3690	3450	7680	5410	3620	3050	4600	3200
14	5400	6160	4700	4570	3900	3010	6930	5240	3750	3500	4250	4000
15	4550	5780	4750	4490	3500	3220	6880	4730	3820	3350	4400	3650
16	4650	5990	5000	4240	3400	3190	9370	5040	4240	3650	3800	3500
17	4450	5850	5100	4050	3730	3250	8210	4850	4910	3950	4100	4150
18	4750	5620	4100	4180	3510	3710	6060	4740	4150	4100	4750	3550
19	4650	5350	3750	4090	3030	3960	5680	5710	2600	3700	3250	3800
20	4350	4960	4300	4000	3460	3610	5050	4220	2300	3800	3600	3200
21	3610	5850	4950	4370	2890	3940	5000	4780	2500	3850	3750	3100
22	4350	5750	3950	3880	3040	3830	5500	4630	4000	3600	3650	3050
23	4100	5620	3700	3680	3200	3490	5000	3950	3500	4150	4200	3150
24	4750	5510	3150	3820	2630	4050	6390	4210	3750	4600	4500	3300
25	4350	5450	2950	4290	2720	4620	6110	4170	3150	3900	4250	3900
26	4800	5820	4700	4070	2930	3850	5780	3850	3750	4150	3750	4400
27	4650	5750	6680	4060	3610	3620	5970	4060	3900	4200	3300	4050
28	3950	7580	4020	3980	4210	4390	6990	3750	3600	3950	2700	3700
29	4550	7330	5940	3560	3870	4050	6920	3680	3450	3700	3200	3400
30	4500	6400	5550	3940	---	4470	7350	3700	3550	3800	2900	4000
31	4650	---	5220	3990	---	5200	---	3450	---	4000	2300	---
TOTAL	143750	184360	151470	122930	103420	115160	188070	158290	110470	112450	119450	104200
MEAN	4637	6145	4886	3965	3566	3715	6269	5106	3682	3627	3853	3473
MAX	6400	8340	6680	4910	4250	5200	9910	7810	4910	4600	4750	4400
MIN	3350	4550	2950	3440	2630	3010	4500	3450	2300	2700	2300	2100
CAL YR 1979 TOTAL	2493740			MEAN 4832	MAX 45600	MIN 2800						
STR YR 1980 TOTAL	1614020			MEAN 4410	MAX 9910	MIN 2100						

01030500 MATTAWAMKEAG RIVER NEAR MATTAWAMKEAG, ME

LOCATION.--Lat 45°30'18", long 68°18'07", Penobscot County, Hydrologic Unit 01020003, on right bank at Gordon Lower Falls, 1.0 mi (1.6 km) upstream from Mattakeunk Stream, 3.7 mi (6.0 km) upstream from Mattawamkeag, and 4.6 mi (6.6 km) upstream from mouth.

DRAINAGE AREA.--1,418 mi² (3,673 km²).

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

REVISED RECORDS.--WSP 1501: Drainage area.

GAGE.--Water-stage recorder. Altitude of gage is 230 ft (70 m), from topographic map.

REMARKS.--Records good except those for winter period, which are fair. Several observations of water temperature and specific conductance were made during the year.

AVERAGE DISCHARGE.--46 years, 2,481 ft³/s (70.3 m³/s), 23.76 in/yr (604 mm/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 29,200 ft³/s (827 m³/s) Mar. 23, 1936, gage height, 15.34 ft (4.676 m); minimum, 38 ft³/s (1.08 m³/s) Sept. 19, 1952.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 12,600 ft³/s (357 m³/s) Apr. 14, gage height, 8.86 ft (2.701 m); minimum, 158 ft³/s (4.47 m³/s) Mar. 11-14.

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	537	2300	2220	2600	560	181	5730	5850	1050	1020	1830	364
2	519	2200	2910	2260	530	177	5460	5530	992	954	1770	390
3	520	2600	2540	1940	490	164	5480	5130	950	979	1570	433
4	617	5030	2260	1650	465	162	5460	4720	949	1060	1340	482
5	839	6940	2100	1460	435	162	5770	4290	997	1040	1240	536
6	974	7430	1950	1260	405	162	6560	3950	1010	1000	1160	504
7	1020	6280	1930	1160	375	162	6760	3620	955	1100	1200	452
8	1350	6150	2040	1060	350	162	6220	3760	885	1120	1290	376
9	2260	5220	1870	1010	335	162	5450	5170	861	1120	1360	331
10	2420	4590	1650	973	315	162	5110	6380	894	1140	1280	301
11	3230	4650	1540	935	295	162	6260	6630	862	1080	1110	284
12	3230	4900	1410	1060	285	166	9990	6210	785	1080	1040	280
13	3140	4750	1450	1550	270	161	12000	5130	717	1090	1360	282
14	3180	4350	1310	1690	255	163	12300	4270	653	1050	1300	336
15	3100	4050	1270	1750	245	172	11500	3900	599	965	1590	581
16	2920	3850	1180	1830	235	171	10600	3550	616	997	1440	1150
17	2640	3620	1430	1760	225	172	9940	3250	678	1080	1280	1400
18	2380	3310	1620	1550	215	210	9190	3100	693	1360	1120	1390
19	2150	2960	1700	1420	210	370	8150	2900	656	1390	978	1430
20	1960	2640	1590	1330	205	620	6870	2880	593	1280	855	1400
21	1820	2570	1440	1210	200	910	5830	2720	582	1190	755	1310
22	1720	2670	1320	1160	195	1250	5300	2540	639	1080	666	1190
23	1620	2740	1150	1080	200	1630	5320	2320	781	1460	590	1110
24	1530	2780	1070	983	205	1960	5690	2120	829	2260	532	1070
25	1480	2810	1170	890	197	2080	6100	1930	781	2500	482	1020
26	1450	2830	2080	810	188	2390	6180	1740	719	2270	446	1000
27	1410	2960	3360	750	190	2440	6180	1580	862	1890	414	1120
28	1330	3300	3920	700	178	2500	6350	1450	1160	1560	414	1250
29	1400	3500	4750	660	176	2770	6320	1340	1240	1340	393	1250
30	1920	3460	3450	620	---	3760	6100	1230	1150	1240	377	1160
31	2270	---	3060	580	---	4830	---	1130	---	1530	354	---
TOTAL	57456	118200	62640	39691	94299	30543	214190	110320	25138	40225	31906	24182
MEAN	1853	3940	2021	1280	291	985	7140	3559	838	1298	1029	806
MAX	3230	7430	3920	2600	560	4830	12300	6630	1240	2500	1830	1430
MIN	519	2200	1070	580	176	161	5110	1130	582	954	354	280
CFSM	1.31	2.78	1.43	.90	.21	.70	5.64	2.51	.59	.42	.73	.57
IN.	1.51	3.10	1.84	1.04	.22	.80	5.62	2.89	.66	1.06	.84	.63
CAL YR 1979 TOTAL	1299116		MEAN 3559	MAX 24400	MIN 209	CFSM 2.51	IN 34.04					
WTR YR 1980 TOTAL	762920		MEAN 2084	MAX 12300	MIN 161	CFSM 1.47	IN 20.01					

01031500 PISCATAQUIS RIVER NEAR DOVER-FOXCROFT, ME

LOCATION.--Lat 45°10'31", long 69°18'55", Piscataquis County, Hydrologic Unit 01020004, on left bank 30 ft (9 m) downstream from Lows Bridge, 1.0 mi (1.6 km) upstream from Black Stream, and 4.7 mi (7.6 km) upstream from Dover-Foxcroft.

DRAINAGE AREA.--297 mi² (769 km²).

PERIOD OF RECORD.--August 1902 to current year.

REVISED RECORDS.--WSP 279: 1902. WSP 1171: Drainage area. WSP 1201: 1903-17, 1918-30(M), 1934-35. WSP 1301: 1909(M).

GAGE.--Water-stage recorder. Datum of gage is 358.1 ft (109.15 m) National Geodetic Vertical Datum of 1929. Prior to July 20, 1930, nonrecording gage at same site and datum.

REMARKS.--Records good except those for winter period, which are fair. Low flow may be regulated by operation of mills above station. Several observations of water temperature and specific conductance were made during the year.

AVERAGE DISCHARGE.--78 years, 602 ft³/s (17.05 m³/s), 27.53 in/yr (699 mm/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 22,800 ft³/s (646 m³/s) Nov. 4, 1966, gage height, 17.89 ft (5.453 m); minimum, 5 ft³/s (0.14 m³/s) Aug. 6, 1905, Nov. 22, 1908.

EXTREMES FOR CURRENT YEAR.--Peak discharges above base of 4,000 ft³/s (100 m³/s) and maximum (*):

Date	Time	Discharge (ft ³ /s) (m ³ /s)	Gage height (ft) (m)	Date	Time	Discharge (ft ³ /s) (m ³ /s)	Gage height (ft) (m)
Apr. 11	0800	* 5,960 169	8.31 2.533	Apr. 30	1600	4,980 141	7.55 2.301

Minimum discharge not determined, occurred during period of backwater from ice; minimum daily, 23 ft³/s (0.651 m³/s) Feb. 29, Mar. 1, 2, 4, 5, 6.

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	39	800	654	170	54	23	1060	3320	175	81	274	72
2	41	673	553	140	50	23	973	2130	172	83	221	95
3	45	1670	457	120	47	24	1050	1590	178	85	515	142
4	202	3290	425	105	43	23	1140	1280	190	79	378	134
5	310	1940	395	94	41	23	1160	1060	196	70	263	105
6	883	1340	371	84	38	23	1160	893	178	72	202	92
7	937	1030	390	75	36	24	821	870	154	83	267	79
8	2220	855	404	70	33	25	734	1210	137	77	293	66
9	1700	731	390	71	32	26	741	1400	140	73	301	59
10	1130	847	350	73	30	30	1540	1300	129	68	270	53
11	820	970	300	69	29	36	4970	1020	117	63	199	48
12	756	780	260	145	28	43	2880	849	108	72	190	47
13	409	657	235	165	27	51	2350	737	99	114	347	43
14	900	585	210	150	26	58	1840	672	90	129	313	70
15	708	542	185	140	26	64	2040	621	83	122	245	532
16	577	490	190	120	25	74	2820	615	99	110	193	426
17	442	433	235	110	25	92	1730	543	105	108	157	278
18	420	398	175	97	24	485	1260	477	90	110	129	221
19	349	346	145	87	24	883	972	566	79	137	112	190
20	337	331	130	80	26	1060	836	555	72	119	105	160
21	317	406	125	75	28	930	917	472	301	97	99	137
22	294	460	115	70	30	730	915	411	543	101	88	122
23	279	455	120	67	31	660	1200	360	321	205	79	137
24	280	444	130	65	24	620	1530	326	231	274	72	199
25	666	435	200	62	27	600	1250	293	187	231	65	163
26	788	414	840	61	25	570	1130	263	148	166	60	193
27	599	1710	680	63	25	513	1350	241	129	137	56	360
28	483	1580	660	64	24	483	1220	228	112	178	60	309
29	705	1070	360	63	23	693	1040	211	92	175	59	241
30	1320	813	270	61	---	1260	3720	193	81	228	59	199
31	1010	---	210	57	---	1240	---	178	---	330	59	---
TOTAL	20829	26495	2244	2873	906	11390	46349	24884	4736	3977	5730	4972
MEAN	674	853	321	92.7	31.2	367	1545	803	158	128	185	166
MAX	2220	3290	840	170	54	1260	4970	3320	543	330	515	532
MIN	39	331	115	57	23	23	734	178	72	63	56	43
CFSM	2.27	2.97	1.08	.31	.11	1.24	5.20	2.70	.53	.43	.62	.56
IN	2.62	3.32	1.25	.36	.11	1.43	5.81	3.12	.59	.50	.72	.62
DAY YR 1979	TOTAL	291924	MEAN 797	MAX 16700	MIN 18	CFSM 2.68	IN 36.45					
WTR YR 1980	TOTAL	163145	MEAN 446	MAX 4970	MIN 23	CFSM 1.50	IN 20.43					

PENOBSCOT RIVER BASIN

01033000 SEBEC RIVER AT SEBEC, ME

LOCATION.--Lat 45°16'12", long 69°06'44", Piscataquis County, Hydrologic Unit 01020004, on right bank 1,000 ft (305 m) downstream from highway bridge and dam at outlet of Sebec Lake at Sebec.

DRAINAGE AREA.--327 mi² (847 km²).

PERIOD OF RECORD.--October 1924 to current year.

REVISED RECORDS.--WSP 1171: Drainage area, 1936(M). WSP 1301: 1925.

GAGE.--Water-stage recorder. Datum of gage is 296.3 ft (90.31 m) National Geodetic Vertical Datum of 1929. Prior to June 22, 1942, at site on opposite bank, 60 ft (18 m) downstream at same datum.

REMARKS.--Records good. Flow regulated by Sebec Lake (Reservoirs in Penobscot Riv. basin) and other reservoirs upstream. Several observations of water temperature and specific conductance were made during the year.

AVERAGE DISCHARGE.--56 years, 632 ft³/s (17.90 m³/s), 26.25 in/yr (667 mm/yr), unadjusted.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 11,400 ft³/s (323 m³/s) Mar. 20, 1936, gage height, 14.46 ft (4.407 m), from rating curve extended above 6,000 ft³/s (170 m³/s) on basis of velocity-area studies; minimum, about 2 ft³/s (0.1 m³/s) Oct. 14-17, 1930, gage height, 0.87 ft (0.265 m), when gates in dam were closed.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 2,250 ft³/s (63.7 m³/s) Apr. 16, gage height, 5.52 ft (1.682 m); minimum daily, 20 ft³/s (0.57 m³/s) Mar. 25.

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	590	524	372	456	463	94	24	1700	196	225	404	356
2	590	530	364	440	452	90	21	1870	191	228	408	359
3	595	567	312	423	425	88	23	1890	201	233	412	372
4	595	1040	757	398	373	83	370	1840	216	230	417	339
5	600	1280	722	371	333	80	876	1470	232	207	392	328
6	605	1300	680	351	301	80	882	1070	229	253	397	325
7	615	1280	663	332	270	75	882	1080	227	223	475	320
8	620	1230	676	539	259	76	882	1350	231	204	464	315
9	625	1140	615	630	241	79	882	1560	246	222	547	312
10	630	1090	581	594	240	75	892	1580	200	205	465	310
11	630	1060	531	568	240	81	1270	1540	195	186	406	305
12	625	1000	515	569	240	84	1790	1460	190	210	390	303
13	620	931	491	558	240	79	1850	1390	178	216	437	301
14	615	881	478	548	184	82	1980	1200	169	209	443	304
15	605	848	470	543	155	87	2110	1060	171	207	444	307
16	600	808	436	541	146	85	2230	915	206	212	399	308
17	590	739	449	538	154	79	2220	722	179	210	365	309
18	562	703	421	536	143	110	2140	689	168	232	327	310
19	389	646	385	530	137	119	2070	697	163	230	304	307
20	285	613	362	527	131	128	1990	595	156	229	290	307
21	213	619	344	525	126	143	1920	525	249	227	269	305
22	213	606	328	521	120	165	1840	543	308	237	253	303
23	213	606	319	517	124	199	1510	513	324	244	241	693
24	225	606	320	513	120	132	1080	506	325	312	233	940
25	281	599	342	504	115	20	904	494	323	312	214	927
26	372	580	414	504	112	21	617	464	316	303	209	921
27	318	710	473	500	104	22	614	444	328	298	203	915
28	316	832	498	494	101	22	618	416	299	304	360	901
29	354	922	495	484	98	24	614	422	247	302	398	886
30	443	906	488	484	---	25	1110	160	229	356	367	874
31	538	---	478	478	---	24	---	171	---	398	356	---
TOTAL	14864	25346	14257	14523	6144	2552	36221	30236	6892	7714	11289	14062
MEAN	480	815	524	501	212	82.3	1207	975	230	249	364	469
MAX	630	1300	872	630	458	199	2230	1890	328	398	547	940
MIN	205	524	319	332	98	20	21	160	156	186	203	301
MEAN±	688	845	448	186	49	387	1476	997	264	227	342	189
CFSM±	2.10	2.58	1.37	.57	.15	1.18	4.51	3.05	.81	.69	1.05	.58
IN±	2.42	2.88	1.58	.66	.16	1.36	5.03	3.52	.90	.80	1.21	.64

CAL YR 1979 TOTAL 277386 MEAN 760 MAX 6630 MIN 63 MEAN± 808 CFSM± 2.47 IN± 33.50
WTR YR 1980 TOTAL 187104 MEAN 511 MAX 2230 MIN 20 MEAN± 508 CFSM± 1.55 IN± 21.16

± Adjusted for change in contents in Sebec Lake.

01034000 PISCATAQUIS RIVER AT MEDFORD, ME

LOCATION.--Lat 45°15'40", long 68°52'07", Piscataquis County, Hydrologic Unit 01020004, on left bank 2.0 mi (3.2 km) southwest of Medford and 3.3 mi (5.3 km) downstream from Pleasant River.

DRAINAGE AREA.--1,161 mi² (3,007 km²).

PERIOD OF RECORD.--June 1924 to current year.

REVISED RECORDS.--WSP 1171: Drainage area. WSP 1231: 1936. WSP 1301: 1925-29(M).

GAGE.--Water-stage recorder. Datum of gage is 248.68 ft (75.798 m) National Geodetic Vertical Datum of 1929. Prior to Aug. 14, 1929, nonrecording gage at site 1.8 mi (2.9 km) downstream at different datum.

REMARKS.--Records good except those for winter period, which are fair. Flow regulated by Sebec Lake 15 mi (24 km) upstream (Reservoirs in Penobscot River basin) and other small reservoirs and powerplants above station. Several observations of water temperature and specific conductance were made during the year.

AVERAGE DISCHARGE.--56 years, 2,355 ft³/s (66.69 m³/s).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 60,100 ft³/s (1,700 m³/s) Nov. 4, 1966, gage height, 15.58 ft (4.749 m); minimum, 99 ft³/s (2.80 m³/s) Oct. 28, 1947, gage height, 1.28 ft (0.390 m).

EXTREMES OUTSIDE PERIOD OF RECORD.--Maximum stage known, 20.8 ft (6.34 m) May 1, 1923, former site and datum.

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

Date	Time	Discharge (ft ³ /s) (m ³ /s)	Gage height (ft) (m)	Date	Time	Discharge (ft ³ /s) (m ³ /s)	Gage height (ft) (m)
Apr. 11	1800	14,000 396	7.64 2.329	May 1	0200	* 15,200 430	7.90 2.408

Minimum discharge not determined, occurred during period of backwater from ice; minimum daily, 220 ft³/s (6.23 m³/s) Feb. 20, 21.

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	781	2540	2630	1260	560	285	3230	13700	808	764	1880	756
2	760	2290	2350	1150	550	280	2860	9290	825	753	1540	842
3	454	4150	2050	1070	540	270	2810	6980	831	772	1520	1000
4	946	9840	1940	990	510	265	3050	5750	868	755	1880	1000
5	1370	7360	1860	930	470	260	4290	4850	951	681	1610	889
6	2050	5350	1770	880	430	255	4360	3740	951	669	1440	810
7	3570	4290	1740	840	405	255	3360	3350	879	764	1480	728
8	6610	3630	1450	850	380	250	2920	4140	806	726	1530	672
9	7200	3140	1440	1060	355	250	2750	5760	794	728	1650	613
10	4830	3160	1450	1200	340	255	3380	5780	742	720	1690	590
11	3730	3680	1350	1120	320	250	11700	4900	697	639	1410	568
12	3080	3320	1220	1030	310	280	10900	4190	650	678	1260	578
13	2900	2870	1150	1600	305	300	8640	3690	610	807	1700	555
14	3030	2540	1060	1420	275	300	7660	3330	559	873	1820	676
15	2610	2450	1000	1200	250	310	7160	3010	522	867	1550	1590
16	2260	2280	960	1050	240	335	11300	2800	587	821	1320	1990
17	2000	2100	980	970	235	370	8500	2400	612	783	1140	1550
18	1840	1260	1050	900	230	550	6260	2160	587	838	995	1330
19	1710	1800	1020	850	225	1500	5130	2280	536	916	966	1180
20	1350	1700	920	800	220	4430	4490	2520	505	858	814	1050
21	1280	1910	850	770	220	4110	4430	2170	692	927	749	929
22	1240	2110	780	740	230	3680	4550	1960	2050	937	700	880
23	1170	2110	740	710	250	3100	4450	1780	1850	1370	643	961
24	1150	2040	735	690	280	2700	4790	1630	1410	1930	607	1530
25	1840	1920	1000	670	310	2400	4480	1520	1180	1660	559	1610
26	2450	1410	2570	650	325	2200	3720	1400	1040	1260	509	1700
27	2050	2930	3020	630	320	2050	3760	1300	938	1060	511	2120
28	1750	4740	2570	620	310	1850	3750	1230	991	1120	571	2080
29	1920	3720	1400	605	300	2100	3370	1140	919	1160	772	1830
30	3220	3070	1600	595	---	3170	9070	962	801	1280	743	1640
31	2940	---	1400	580	---	3600	---	832	---	1770	680	---
TOTAL	74135	97100	46955	24430	4695	42220	161140	110544	26191	29886	36239	34247
MEAN	2391	3237	1515	917	234	1362	5371	3566	873	964	1169	1142
MAX	7200	9440	3020	1600	560	4430	11700	13700	2050	1930	1880	2120
MIN	454	1700	735	580	220	250	2750	832	505	634	509	555
CAL YR 1979 TOTAL	1114363	MEAN	3053	MAX	47600	MIN	210					
WYR 1980 TOTAL	646782	MEAN	1904	MAX	13700	MIN	220					

PENOBSCOT RIVER BASIN

01034500 PENOBSCOT RIVER AT WEST ENFIELD, ME

LOCATION.--Lat 45°14'12", long 68°38'56", Penobscot County, Hydrologic Unit 01020005, on left bank 30 ft (9 m) downstream from highway bridge, 1,000 ft (305 m) downstream from Piscataquis River, and at West Enfield.

DRAINAGE AREA.--6,670 mi² (17,280 km²), including 249 mi² (645 km²) drained by Chamberlain Lake through Telos Canal.

PERIOD OF RECORD.--Discharge: November 1901 to current year.

Water-quality records: Water years 1966 to 1978.

Specific conductance: July 1973 to September 1978.

Water temperatures: July 1966 to September 1978.

REVISED RECORDS.--WSP 279: 1902-10. WSP 1171: 1940. WSP 1231: 1902-13. WSP 2101: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 125.94 ft (38.387 m) National Geodetic Vertical Datum of 1929. Prior to Dec. 11, 1912, nonrecording gage at same site and datum.

REMARKS.--Records good except those for winter period, which are fair. Flow regulated by many reservoirs above station (Reservoirs in Penobscot River basin). Several observations of water temperature and specific conductance were made during the year.

COOPERATION.--Supplemental water-stage recorder graph furnished by Bangor Hydroelectric Company.

AVERAGE DISCHARGE.--78 years (water years 1903-80), 11,860 ft³/s (336 m³/s).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 153,000 ft³/s (4,330 m³/s) May 1, 1923, gage height, 25.15 ft (7.666 m); minimum, 1,630 ft³/s (46.2 m³/s) Oct. 29, 1905, gage height, 1.0 ft (0.30 m).

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 40,800 ft³/s (1,160 m³/s) Apr. 12, gage height, 11.22 ft (3.420 m); minimum daily discharge, 3,500 ft³/s (99.1 m³/s) Mar. 16.

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	6050	11100	14000	11500	6100	4500	17300	36400	5780	5490	9030	5160
2	5620	10700	12800	10100	6100	4700	16200	29300	6130	5930	8810	5360
3	6190	12900	11700	10100	6000	4800	15500	24700	6610	5600	8650	5960
4	6320	26400	10600	9680	5950	4700	16900	21100	6260	5450	8690	6080
5	7510	28900	11000	8700	5900	4500	18000	19400	6430	5550	8220	5800
6	8490	24200	10500	7600	5800	4000	20700	16900	6450	5500	7530	5680
7	10700	22600	10100	7100	5650	4100	20100	15400	6460	6540	9090	5660
8	13600	19900	10200	7050	5450	4100	17600	16000	6110	6150	8860	5200
9	19500	17700	9300	6900	5200	4000	15700	20500	6230	5810	9180	4800
10	17500	17000	8980	6450	5100	3900	16400	23000	6130	5720	9040	5200
11	15100	14200	7550	6900	5100	3850	25800	22500	5840	5850	8670	5290
12	14000	17800	7800	7700	5150	3750	39500	20300	5910	5700	7950	5130
13	12700	16200	8900	8700	5200	3600	36900	18200	6000	5600	9040	5310
14	13000	15500	7450	9500	5200	3900	32700	17100	5520	5680	9340	5430
15	13200	15000	7950	9700	5150	3700	30100	15400	5140	6010	9350	7030
16	11500	14400	8900	9400	5050	3500	34400	14200	5560	6060	8780	8880
17	10900	13700	10100	8350	4900	3600	34000	14000	6230	6120	8220	8170
18	10100	13100	9700	9200	4750	4250	27200	13000	6920	6450	7760	8570
19	9570	11900	8900	8700	4600	5700	23100	12000	6230	7400	7580	7590
20	9280	11000	8200	8300	4450	7500	20300	12700	5110	7150	6460	7640
21	8770	11100	8150	8000	4350	8500	18100	11500	4030	6750	6390	6940
22	7970	12200	8200	7700	4200	9500	18100	11100	5100	7060	6360	6730
23	8270	12300	8000	7400	4200	10200	17600	9770	7740	8210	6220	6340
24	7620	11900	7640	7000	4100	11300	18700	9150	7140	10900	6220	6810
25	8580	11900	7500	6500	4000	12200	20100	8910	6420	11500	6270	7080
26	9440	11400	9540	6550	3850	13000	19200	8430	5840	9780	6250	7810
27	9490	12500	15000	6600	3700	12800	18600	7710	6380	8840	5990	9060
28	8820	16700	17300	6700	4300	17500	19700	7640	6160	8640	5750	8700
29	8430	17400	15800	6600	4750	14400	20000	7100	6330	7950	5240	8130
30	10200	15800	14200	6300	---	14900	26300	6730	6210	7340	5070	7650
31	11200	---	13200	6050	---	16600	---	6410	---	8100	5220	---
TOTAL	319640	471800	319710	247930	144250	223550	672800	477550	182200	215570	235760	199190
MEAN	10310	15230	10310	7998	4674	7211	22430	15400	6073	6954	7605	6640
MAX	14500	28900	17300	11500	6100	16600	39500	36400	7740	11500	9840	9060
MIN	5620	10700	7450	6050	3700	3500	15500	6410	4030	5450	5070	4800
CAL YR 1979 TOTAL	6000450	MEAN	16640	MAX	101000	MIN	4350					
WTR YR 1980 TOTAL	3704950	MEAN	10140	MAX	39500	MIN	3500					

PENOBSCOT RIVER BASIN

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01036390 PENOBSCOT RIVER AT EDDINGTON, ME
(National stream-quality accounting network station)

LOCATION.--Lat 44°49'41", long 68°41'48", Penobscot County, Hydrologic Unit 01020005, on left bank 0.4 mi (0.6 km) downstream from Veazie Dam at Eddington, on Monument Drive, 750 ft (229 m) north of its intersection with State Highway 178.

DRAINAGE AREA.--7,765 mi² (20,111 km²), including 249 mi² (645 km²) drained by Chamberlain Lake through Telos Canal.

WATER-DISCHARGE RECORDS

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

GAGE.--Water-stage recorder. Datum of gage is 7.20 ft (2.195 m) National Geodetic Vertical Datum of 1929.

REMARKS.--Records good. Flow regulated by many reservoirs above station (Reservoirs in Penobscot River Basin). Flow generally affected by tide when discharge is less than 25,000 ft³/s (710 m³/s).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 117,000 ft³/s (3,310 m³/s) Apr. 30, 1979, gage height, 19.52 ft (5.950 m); minimum daily, 3,500 ft³/s (99.1 m³/s) Mar. 14, 1980.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 48,000 ft³/s (1,359 m³/s) Apr. 12, gage height, 12.89 ft (3.928 m); minimum daily, 3,500 ft³/s (99.1 m³/s) Mar. 14.

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	6700	12300	17800	14300	6900	5200	23800	42400	7140	6340	8880	5580
2	6800	12100	15900	12300	7050	5350	21800	41900	6400	6080	9520	5090
3	7250	13500	14000	10400	6950	5500	19900	34500	7300	5930	9420	6340
4	7890	26600	12700	9690	6500	5400	20500	29200	7140	5640	9290	6970
5	8650	35800	11700	9960	6700	5150	21900	26200	6980	5740	9190	6150
6	9760	32700	12300	9020	6700	4400	24800	24200	7430	5770	8550	6010
7	11700	28900	11400	8620	6200	4700	25200	20900	7010	5890	8520	5990
8	15600	26400	11500	7750	6050	4700	23400	21200	7240	6780	9660	5830
9	22700	24000	11100	7860	5650	4400	20300	25100	6750	6340	9790	5180
10	24000	22300	9550	7370	5700	4500	19000	29100	7430	5860	9760	5940
11	20500	23000	8330	7540	5700	4700	25100	29400	6720	6080	9420	5830
12	18500	23300	7860	8590	5700	4150	43800	27500	6720	5740	9020	5270
13	16800	21900	9250	10100	5900	4000	45300	25100	6660	5830	8620	5370
14	16200	20000	8020	10800	5850	3500	42000	23300	6370	5860	9730	5930
15	16000	19100	7840	11100	5800	3600	39100	20700	6120	5960	10100	6540
16	15300	18200	8220	10500	5900	4200	39300	18800	5890	6270	9590	8410
17	13400	17400	10300	10600	5450	4330	42800	17500	6210	6210	8750	9520
18	12500	16400	10200	9830	5200	5990	37200	16100	7530	6430	8310	9170
19	11200	14900	7390	9760	5400	7430	30700	14800	7130	7370	8020	9240
20	11000	13700	9560	9290	5100	8680	26900	14700	6590	7570	7650	8530
21	10400	12700	9760	9390	4750	10100	24500	13400	4900	6990	6120	8490
22	9760	13800	9190	8750	4700	10600	23200	13000	4810	7140	6700	8090
23	4450	14500	9420	8220	4800	12300	23300	11900	6840	7630	6490	7630
24	9250	14400	9290	8090	4800	13300	23200	10600	8250	9620	6630	7760
25	8820	14300	9250	7200	4500	15000	24800	10200	7270	12000	6340	7430
26	9930	13600	10600	7400	4300	15900	24700	9760	6850	10800	6460	8120
27	10400	15200	15400	7700	4700	15700	23800	8820	5610	10000	6370	9490
28	10100	17000	22200	7750	4900	13800	24000	8150	6720	9150	6120	10400
29	4520	21200	21800	7800	5200	14900	24700	8420	6210	8680	5520	9730
30	10200	19900	17300	7400	---	16700	28400	7790	6620	8550	5120	9120
31	12000	---	16500	8800	---	20600	---	7430	---	8090	5360	---
TOTAL	392230	579100	368230	281880	163050	258780	837400	612070	200840	222340	249020	219150
MEAN	12330	14300	11880	9093	5622	8348	27910	19740	6695	7172	8033	7305
MAX	24000	35800	22200	14300	7050	20600	45300	42400	8250	12000	10100	10400
MIN	6700	12100	7840	6800	4300	3500	19000	7430	4810	5640	5120	5090

WTR YR 1980 TOTAL 4374140 MEAN 11950 MAX 45300 MIN 3500

PENOBSCOT RIVER BASIN

01036390 PENOBSCOT RIVER AT EDDINGTON, ME--Continued

WATER-QUALITY RECORDS

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

PERIOD OF DAILY RECORD.--

SPECIFIC CONDUCTANCE: April 1979 to current year.

pH: April 1979 to current year.

WATER TEMPERATURES: April 1979 to current year.

DISSOLVED OXYGEN: April 1979 to current year.

INSTRUMENTATION.--Water-quality monitor since April 1979.

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

EXTREMES FOR PERIOD OF DAILY RECORD.--

SPECIFIC CONDUCTANCE: Maximum, 92 micromhos Mar. 17, 1980; minimum, 29 micromhos Apr. 29, 30, 1979.

pH: Maximum, 9.3 units Sept. 6, 1979; minimum, 5.3 units Sept. 6, 7, 1979.

WATER TEMPERATURES: Maximum, 28.0°C July 30, 1979; minimum, 0.0°C on many days during winter periods.

DISSOLVED OXYGEN: Maximum, 13.8 mg/L Feb. 5-7, 1980; minimum, 6.5 mg/L July 17, 18, 1980.

EXTREMES FOR CURRENT YEAR.--

SPECIFIC CONDUCTANCE: Maximum, 92 micromhos Mar. 17; minimum, 38 micromhos May 2, 3.

pH: Maximum, 7.4 units Sept. 3, July 14, 15; minimum, 6.4 units May 2.

WATER TEMPERATURES: Maximum, 26.0°C Aug. 8; minimum, 0.0°C on many days during winter period.

DISSOLVED OXYGEN: Maximum, 13.8 mg/L Feb. 5-7; minimum, 6.5 mg/L July 17, 18.

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

DATE	TIME	STREAM- FLOW, INSTAN- TANEOUS (CFS)	SPE- CIFIC CON- DUCT- ANCE (MICRO- MHOS)	PH FIELD (UNITS)	TEMPER- ATURE, AIR (DEG C)	TEMPER- ATURE, WATER (DEG C)	TUR- BID- ITY (NTU)	OXYGEN, DIS- SOLVED (MG/L)	OXYGEN, DIS- SOLVED (PER- CENT SATUR- ATION)	COLI- FORM, FECAL, 0.7 UM-MF (COLS./ 100 ML)	STREP- TOCOCCI FECAL, KF AGAR (COLS. PER 100 ML)	HARD- NESS (MG/L AS CAC03)
OCT												
29...	1045	10100	50	6.9	8.0	8.5	1.0	10.2	87	K140	54	18
NOV												
19...	1130	16500	46	6.8	5.5	3.0	1.0	13.6	101	84	36	16
DEC												
10...	1115	9220	47	6.9	1.0	1.0	2.0	13.2	93	120	K12	17
JAN												
22...	1245	8820	65	6.8	1.0	.5	.50	12.5	87	56	K16	18
FEB												
20...	1000	5000	71	6.8	9.0	.5	.25	12.8	89	K16	K2	21
MAR												
24...	0930	13600	63	6.7	7.0	.5	.25	12.8	89	K78	K12	12
APR												
29...	1100	24700	42	6.7	13.0	8.5	.80	11.3	96	K22	K6	14
MAY												
19...	1000	14600	44	6.8	23.0	14.0	.30	10.1	97	K15	K5	15
JUN												
24...	1100	8420	56	7.1	27.5	20.5	.50	8.8	97	500	K22	19
JUL												
29...	1215	8320	58	7.0	25.5	23.0	1.0	8.3	95	30	51	19
SEP												
02...	1100	6050	62	7.0	28.0	23.5	.30	8.1	94	--	210	19
22...	1230	7390	60	6.8	--	15.5	.60	9.0	89	520	32	20

DATE	HARD- NESS, NONCAR- BONATE (MG/L CAC03)	CALCIUM DIS- SOLVED (MG/L AS CA)	MAGNE- SIUM, DIS- SOLVED (MG/L AS MG)	SODIUM, DIS- SOLVED (MG/L AS NA)	SODIUM PERCENT	SODIUM+ POTAS- SIUM AD- SORP- TION RATIO	POTAS- SIUM, DIS- SOLVED (MG/L AS K)	POTAS- SIUM, DIS- SOLVED (MG/L AS K)	ALKA- LINITY (MG/L AS CAC03)	SULFATE DIS- SOLVED (MG/L AS SO4)	CHLO- RIDE, DIS- SOLVED (MG/L AS CL)	FLUO- RIDE, DIS- SOLVED (MG/L AS F)
OCT												
29...	7	5.1	1.2	2.7	24	.3	3.2	.5	11	5.7	2.3	.0
NOV												
19...	7	4.7	1.0	2.3	29	.3	2.8	.5	9	6.6	1.9	.0
DEC												
10...	0	5.0	1.1	3.1	34	.3	3.8	.7	25	6.0	2.8	.1
JAN												
22...	0	5.1	1.3	3.4	36	.3	3.9	.5	22	8.1	3.1	.1
FEB												
20...	0	5.9	1.6	3.2	24	.3	3.8	.6	24	7.8	3.3	.1
MAR												
24...	4	4.2	.4	3.3	36	.4	4.0	.7	8	7.4	3.5	.1
APR												
29...	2	4.2	.9	1.8	21	.2	--	.7	12	5.7	2.3	.1
MAY												
19...	8	4.3	1.0	2.9	29	.3	--	.6	7	6.4	2.3	.1
JUN												
24...	9	5.7	1.2	3.6	28	.4	--	.7	10	6.0	4.1	.1
JUL												
29...	9	5.2	1.4	3.8	30	.4	--	.6	10	7.2	2.5	.1
SEP												
02...	4	5.2	1.5	3.3	26	.3	--	.7	15	7.2	3.6	.1
22...	10	5.9	1.3	3.1	24	.3	--	.6	10	6.6	3.3	.1

01036390 PENOBSCOT RIVER AT EDDINGTON, ME--Continued

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

DATE	SILICA, DIS- SOLVED (MG/L AS SiO2)	SOLIDS, RESIDUE AT 180 DEG. C DIS- SOLVED (MG/L)	SOLIDS, SUM OF CONSTITUENTS, DIS- SOLVED (MG/L)	SOLIDS, DIS- SOLVED (TONS PER AC-FT)	SOLIDS, DIS- SOLVED (TONS PER DAY)	NITRO- GEN, NO2+NO3 TOTAL (MG/L AS N)	NITRO- GEN, NO2+NO3 DIS- SOLVED (MG/L AS N)	NITRO- GEN, AMMONIA TOTAL (MG/L AS N)	NITRO- GEN, AMMONIA DIS- SOLVED (MG/L AS N)	NITRO- GEN, AMMONIA TOTAL (MG/L AS NH4)	NITRO- GEN, AMMONIA DIS- SOLVED (MG/L AS NH4)	NITRO- GEN, ORGANIC TOTAL (MG/L AS N)
OCT 29...	3.6	48	28	.07	1310	.05	.09	.010	.000	.01	.00	.74
NOV 19...	4.2	41	27	.06	1830	.06	.06	.020	.000	.02	.00	.51
DEC 10...	4.5	53	39	.07	1320	--	.09	--	.050	--	.06	--
JAN 22...	4.2	46	39	.06	1100	.10	.10	.020	.020	.02	.03	.13
FEB 20...	3.4	52	41	.07	702	.07	.07	.050	.060	.06	.08	.33
MAR 24...	3.4	48	28	.07	1760	.20	.15	.040	.010	.05	.01	.29
APR 29...	2.6	42	26	.06	2800	.12	.19	.030	.020	.04	.03	.52
MAY 19...	1.8	36	24	.05	1420	.07	.12	.020	.040	.02	.05	.38
JUN 24...	1.4	46	29	.06	1050	.05	.04	.050	.020	.06	.03	.36
JUL 29...	3.5	70	31	.10	1570	.08	.09	.070	.060	.08	.08	.16
SEP 02...	2.1	56	33	.08	915	.08	.07	.070	.050	.08	.06	.18
22...	3.3	55	30	.07	1100	.07	.06	.020	.000	.02	.00	.36

DATE	NITRO- GEN, ORGANIC DIS- SOLVED (MG/L AS N)	NITRO- GEN,AM- MONIA + ORGANIC TOTAL (MG/L AS N)	NITRO- GEN,NH4 + ORG. SUSP. TOTAL (MG/L AS N)	NITRO- GEN,AM- MONIA + ORGANIC DIS. (MG/L AS N)	NITRO- GEN, TOTAL (MG/L AS N)	NITRO- GEN, DIS- SOLVED (MG/L AS N)	NITRO- GEN, TOTAL (MG/L AS NO3)	PHOS- PHORUS, TOTAL (MG/L AS P)	PHOS- PHORUS, TOTAL (MG/L AS PO4)	PHOS- PHORUS, DIS- SOLVED (MG/L AS P)	ARSENIC TOTAL (UG/L AS AS)	ARSENIC SUS- PENDE TOTAL (UG/L AS AS)
OCT 29...	.65	.75	.10	.65	.80	.74	3.5	.040	.12	.030	--	--
NOV 19...	.38	.53	.15	.38	.59	.44	2.6	.010	.03	.010	3	1
DEC 10...	--	--	--	--	--	--	--	.020	.06	.010	--	--
JAN 22...	.12	.15	.01	.14	.25	.24	1.1	.020	.06	.010	--	--
FEB 20...	.31	.38	.01	.37	.45	.44	2.0	.040	.12	.020	1	0
MAR 24...	.27	.33	.05	.28	.53	.43	2.3	.030	.09	.010	--	--
APR 29...	.25	.55	.28	.27	.67	.46	3.0	.020	.06	.010	--	--
MAY 19...	.15	.40	.21	.19	.47	.31	2.1	.020	.06	.010	1	0
JUN 24...	.29	.41	.10	.31	.46	.35	2.0	.040	.12	.000	--	--
JUL 29...	.23	.23	.00	.29	.31	.38	1.4	.050	.15	.020	--	--
SEP 02...	.17	.25	.03	.22	.33	.29	1.5	.040	.12	.030	1	1
22...	.10	.38	.28	.10	.45	.16	2.0	.030	.09	.020	--	--

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

[illegible]

01036390 PENOBSCOT RIVER AT EDDINGTON, ME--Continued

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

DATE	MANGANESE, DIS- SOLVED (UG/L AS MN)	MERCURY TOTAL RECOV- ERABLE (UG/L AS HG)	MERCURY SUS- PENDE D RECOV- ERABLE (UG/L AS HG)	MERCURY DIS- SOLVED (UG/L AS HG)	NICKEL, TOTAL RECOV- ERABLE (UG/L AS NI)	NICKEL, SUS- PENDE D RECOV- ERABLE (UG/L AS NI)	NICKEL, DIS- SOLVED (UG/L AS NI)	SELE- NIUM, TOTAL (UG/L AS SE)	SELE- NIUM, SUS- PENDE D RECOV- ERABLE (UG/L AS SE)	SELE- NIUM, DIS- SOLVED (UG/L AS SE)	SILVER, TOTAL RECOV- ERABLE (UG/L AS AG)
OCT 29...	--	--	--	--	--	--	--	--	--	--	--
NOV 19...	10	.3	.2	<.1	1	1	0	0	0	0	0
DEC 10...	--	--	--	--	--	--	--	--	--	--	0
JAN 22...	--	--	--	--	--	--	--	--	--	--	--
FEB 20...	20	.1	.0	<.1	2	1	1	0	0	0	1
MAR 24...	--	--	--	--	--	--	--	--	--	--	0
APR 29...	--	--	--	--	--	--	--	--	--	--	--
MAY 19...	20	.2	.1	.1	1	1	0	0	0	0	0
JUN 24...	--	--	--	--	--	--	--	--	--	--	0
JUL 29...	--	--	--	--	--	--	--	--	--	--	--
SEP 02...	20	.1	.0	.1	2	2	0	0	0	0	0
22...	--	--	--	--	--	--	--	--	--	--	0

DATE	SILVER, SUS- PENDE D RECOV- ERABLE (UG/L AS AG)	SILVER, DIS- SOLVED (UG/L AS AG)	ZINC, TOTAL RECOV- ERABLE (UG/L AS ZN)	ZINC, SUS- PENDE D RECOV- ERABLE (UG/L AS ZN)	ZINC, DIS- SOLVED (UG/L AS ZN)	CARBON, ORGANIC TOTAL (MG/L AS C)	CARBON, ORGANIC DIS- SOLVED (MG/L AS C)	CARBON, ORGANIC SUS- PENDE D RECOV- ERABLE (MG/L AS C)	SEDI- MENT, SUS- PENDE D RECOV- ERABLE (MG/L)	SEDI- MENT DIS- CHARGE, SUS- PENDE D RECOV- ERABLE (T/DAY)	SED. SUSP. SIEVE DIAM. % FINER THAN .062 MM
OCT 29...	--	--	--	--	--	12	--	--	17	464	31
NOV 19...	0	0	10	0	20	--	11	.3	3	134	100
DEC 10...	--	--	--	--	--	11	--	--	2	50	100
JAN 22...	--	--	--	--	--	16	--	--	2	48	100
FEB 20...	1	0	60	40	20	--	57	.6	2	27	100
MAR 24...	--	--	--	--	--	7.5	--	--	4	147	82
APR 29...	--	--	--	--	--	8.9	--	--	5	333	81
MAY 19...	0	0	20	10	6	--	9.0	.4	11	434	63
JUN 24...	--	--	--	--	--	6.3	--	--	--	--	--
JUL 29...	--	--	--	--	--	13	--	--	4	90	100
SEP 02...	0	0	20	10	10	--	9.3	.3	2	33	100
22...	--	--	--	--	--	12	--	--	8	160	100

RADIOCHEMICAL ANALYSES, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

DATE	GROSS ALPHA, DIS- SOLVED (PCI/L AS U-NAT)	GROSS ALPHA, DIS- SOLVED (UG/L AS U-NAT)	GROSS ALPHA, SUSP. TOTAL (PCI/L AS U-NAT)	GROSS ALPHA, SUSP. TOTAL (UG/L AS U-NAT)	GROSS BETA, DIS- SOLVED (PCI/L AS CS-137)	GROSS BETA, DIS- SOLVED (PCI/L AS YT-90)	GROSS BETA, SUSP. TOTAL (PCI/L AS CS-137)	GROSS BETA, SUSP. TOTAL (PCI/L AS YT-90)	RADIUM 226, DIS- SOLVED, RADON METHOD (PCI/L)	URANIUM DIS- SOLVED, EXTRAC- TION (UG/L)
OCT 29...	<.4	<.6	1.6	2.3	1.3	1.2	.8	.8	.05	.04
MAY 19...	<.5	<.7	<.3	<.4	1.6	1.5	<.4	<.4	.02	.33

01036390 PENOBSCOT RIVER AT EDDINGTON, ME--Continued

PHYTOPLANKTON ANALYSES, OCTOBER 1979 TO SEPTEMBER 1980

DATE TIME	NOV 19.79 1130	MAR 24.80 0930	MAY 19.80 1000	JUN 24.80 1100
TOTAL CELLS/ML	570	2000	490	12000
DIVERSITY: DIVISION	1.4	0.3	1.6	1.7
..CLASS	1.4	0.3	1.6	1.8
..ORDER	1.4	0.4	1.9	2.3
...FAMILY	1.4	1.7	3.1	2.6
....GENUS	2.0	1.8	3.1	3.0

ORGANISM	CELLS /ML	PER- CENT	CELLS /ML	PER- CENT	CELLS /ML	PER- CENT	CELLS /ML	PER- CENT
CHLOROPHYTA (GREEN ALGAE)								
..CHLOROPHYCEAE								
...CHLOROCOCCALES								
...MICRACTINIACEAE								
....MICRACTINIUM	--	-	--	-	--	-	660	5
...OOCYSTACEAE								
....ANKISTRODESMUS	--	-	85	4	26	5	230	2
....CHODATELLA	--	-	--	-	--	-	*	0
....DICTYOSPHAERIUM	--	-	--	-	--	-	710	6
....KIRCHNERIELLA	--	-	--	-	--	-	--	-
...OOCYSTIS	--	-	--	-	--	-	*	0
....SELENASTRUM	--	-	--	-	--	-	*	0
....TETRAEDRON	--	-	--	-	--	-	--	-
...SCENEDESMACEAE								
....ACTINASTRUM	--	-	--	-	--	-	--	-
....SCENEDESMUS	30	5	--	-	26	5	150	1
....TETRASTRUM	--	-	--	-	--	-	100	1
..VOLVOCELES								
...CHLAMYDOMONADACEAE								
....CHLAMYDOMONAS	--	-	--	-	--	-	180	1
...VOLVOCEAE								
....PANDORINA	--	-	--	-	--	-	1200	10
CHRYSTOPHYTA								
..BACILLARIOPHYCEAE								
...CENTRALES								
...COSCINODISCACEAE								
....CYCLOTELLA	--	-	14	1	26	5	130	1
....MELOSIRA	150#	27	--	-	--	-	3900#	32
...PENNALES								
....ACHNANTHACEAE								
....ACHNANTHES	--	-	57	3	--	-	--	-
....COCCONEIS	--	-	14	1	--	-	*	0
....CYMBELLACEAE								
....CYMBELLA	--	-	28	1	13	3	--	-
...DIATOMACEAE								
....DIATOMA	--	-	1300#	67	39	8	--	-
...FRAGILARIACEAE								
....ASTERIONELLA	--	-	--	-	--	-	100	1
....FRAGILARIA	--	-	--	-	--	-	250	2
....HANNAEA	--	-	71	4	--	-	--	-
....SYNEDRA	5	1	240	12	120#	24	--	-
...GOMPHONEMACEAE								
....GOMPHONEMA	--	-	14	1	--	-	--	-
...NAVICULACEAE								
....NAVICULA	--	-	14	1	52	11	--	-
...NITZSCHACEAE								
....NITZSCHIA	--	-	99	5	39	8	130	1
..CHRYSTOPHYCEAE								
...CHRYSSOMONADALES								
...MALLOMONADACEAE								
....MALLOMONAS	--	-	--	-	--	-	*	0
...OCHROMONADACEAE								
....DINOBYRON	--	-	--	-	--	-	200	2
CRYPTOPHYTA (CRYPTOMONADS)								
..CRYPTOPHYCEAE								
...CRYPTOMONADALES								
....CRYPTOCHRYSIDACEAE								
....CHROOMONAS	--	-	--	-	26	5	250	2
....CRYPTOMONADACEAE								
....CRYPTOMONAS	25	4	--	-	26	5	100	1
CYANOPHYTA (BLUE-GREEN ALGAE)								
..CYANOPHYCEAE								
...CHROOCOCCALES								
...CHROOCOCCACEAE								
....AGMENELLUM	--	-	--	-	--	-	400	3
....ANACYSTIS	--	-	--	-	100#	21	3500#	28
...HORMOGONALES								
...OSCILLATORIACEAE								
....OSCILLATORIA	170#	29	--	-	--	-	--	-
....SCHIZOTHRIX	190#	34	--	-	--	-	--	-
EUGLENOPHYTA (EUGLENOIDS)								
..EUGLENOPHYCEAE								
...EUGLENALES								
...EUGLENACEAE								
....TRACHELOMONAS	--	-	14	1	--	-	--	-

NOTE: # - DOMINANT ORGANISM; EQUAL TO OR GREATER THAN 15%

* - OBSERVED ORGANISM, MAY NOT HAVE BEEN COUNTED; LESS THAN 1/2%

01036390 PENOBSCOT RIVER AT EDDINGTON, ME--Continued

PHYTOPLANKTON ANALYSES, OCTOBER 1979 TO SEPTEMBER 1980

DATE TIME	JUL 29,80 1215	SEP 2,80 1100	SEP 22,80 1230			
TOTAL CELLS/ML	1200	640	930			
DIVERSITY: DIVISION	1.2	0.9	1.2			
..CLASS	1.2	0.9	1.2			
...ORDER	1.5	1.7	1.3			
...FAMILY	1.5	1.7	2.0			
....GENUS	2.3	1.8	2.5			
ORGANISM	CELLS /ML	PER- CENT	CELLS /ML	PER- CENT	CELLS /ML	PER- CENT
CHLOROPHYTA (GREEN ALGAE)						
..CHLOROPHYCEAE						
...CHLOROCOCCALES						
....MICRACTINIACEAE						
....MICRACTINIUM	--	-	--	-	--	-
....OOCYSTACEAE						
....ANKISTRODESMUS	--	-	--	-	13	1
....CHODATELLA			--	-	--	-
....DICTYOSPHAERIUM	460#	39	--	-	340#	36
....KIRCHNERIELLA	310#	26			--	-
....OOCYSTIS	--	-	13	2	--	-
....SELENASTRUM	13	1	--	-	--	-
....TETRAEDRON	13	1	--	-	13	1
....SCENEDESMACEAE						
....ACTINASTRUM	--	-	--	-	100	11
....SCENEDESMUS	--	-	--	-	160#	17
....TETRASTRUM	--	-	--	-	--	-
..VOLVOCALES						
...CHLAMYDOMONADACEAE						
...CHLAMYDOMONAS	13	1	39	6	--	-
...VOLVOCAEAE						
...PANDORINA	--	-	--	-	--	-
CHRYSOPHYTA						
..BACILLARIOPHYCEAE						
...CENTRALES						
...COSCINODISCAEAE						
....CYCLOTELLA	39	3	26	4	26	3
....MELOSIRA	--	-	39	6	91	10
...PENNALES						
....ACHNANTHACEAE						
....ACHNANTHES	--	-	--	-	--	-
....COCCONEIS	--	-	--	-	--	-
....CYMBELLACEAE						
....CYMBELLA	--	-	--	-	--	-
....DIATOMACEAE						
....DIATOMA	--	-	--	-	--	-
....FRAGILARIACEAE						
....ASTERIONELLA	--	-	--	-	--	-
....FRAGILARIA	--	-	--	-	--	-
....HANNAEA	--	-	--	-	--	-
....SYNEDRA	--	-	--	-	--	-
...GOMPHONEMATAEAE						
...GOMPHONEMA	--	-	--	-	--	-
...NAVICULACEAE						
...NAVICULA	13	1	--	-	13	1
...NITZSCHIAEAE						
...NITZSCHIA	--	-	--	-	--	-
..CHRYSOPHYCEAE						
...CHRYSOMONADALES						
...MALLOMONADACEAE						
...MALLOMONAS	--	-	--	-	--	-
...OCHROMONADACEAE						
...DINOBRYON	--	-	--	-	--	-
CRYPTOPHYTA (CRYPTOMONADS)						
..CRYPTOPHYCEAE						
...CRYPTOMONADALES						
....CRYPTOCHRYSIDACEAE						
....CHROOMONAS	13	1	--	-	--	-
....CRYPTOMONADACEAE						
....CRYPTOMONAS	13	1	--	-	--	-
CYANOPHYTA (BLUE-GREEN ALGAE)						
..CYANOPHYCEAE						
...CHROOCOCCALES						
....CHROOCOCCACEAE						
....AGMENELLUM						
....ANACYSTIS	52	4	290#	45	180#	19
...HORMOGONALES						
....OSCILLATORIACEAE						
....OSCILLATORIA	250#	21	230#	37	--	-
....SCHIZOTHRIX	--	-	--	-	--	-
EUGLENOPHYTA (EUGLENOIDS)						
..EUGLENOPHYCEAE						
...EUGLENALES						
...EUGLENACEAE						
....TRACHELOMONAS			--	-	--	-

NOTE: # - DOMINANT ORGANISM; EQUAL TO OR GREATER THAN 15%

* - OBSERVED ORGANISM, MAY NOT HAVE BEEN COUNTED; LESS THAN 1/2%

PENOBSCOT RIVER BASIN

01036390 PENOBSCOT RIVER AT EDDINGTON, ME--Continued

BIOLOGICAL DATA, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

PERIPHYTON

(Sampling method - Polyethylene strip)

DATES OF EXPOSURE	LENGTH OF EXPO- SURE (DAYS)	PERI- PHYTON BIOMASS TOTAL DRY WEIGHT (G/SQ M)	PERI- PHYTON BIOMASS ASH WEIGHT (G/SQ M)	CHLOR-A PERI- PHYTON CHROMO- GRAPHIC FLUOROM. (MG/M ²)	CHLOR-B PERI- PHYTON CHROMO- GRAPHIC FLUOROM. (MG/M ²)	BIOMASS PIGMENT RATIO
SEP 18 TO OCT 29	41	.550	.390	4.03	.650	39.7
JUL 29 TO SEP 02	35	2.84	1.26	3.18	1.74	497
SEP 02 TO SEP 22	20	---	---	.900	.470	---

01036390 PENOBSCOT RIVER AT EDDINGTON, ME--Continued

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

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
OCTOBER			NOVEMBER			DECEMBER			JANUARY			
1	61	58	59	52	50	51	44	44	44	48	46	47
2	61	59	60	---	---	---	46	44	45	49	48	49
3	60	58	60	---	---	---	---	---	---	51	49	50
4	58	56	57	---	---	---	---	---	---	52	47	51
5	56	53	54	---	---	---	47	45	46	50	47	48
6	53	51	52	---	---	---	47	46	47	52	51	51
7	52	50	51	---	---	---	48	47	47	53	52	52
8	52	50	51	42	41	41	48	47	48	53	51	52
9	51	45	48	42	41	42	49	48	48	52	51	51
10	47	45	46	43	42	43	50	48	49	53	52	53
11	46	45	45	44	43	43	50	49	49	55	54	54
12	46	45	45	44	44	44	52	49	51	56	52	54
13	46	45	46	44	43	44	52	51	52	54	54	54
14	46	46	46	44	43	44	54	51	52	56	54	56
15	46	45	46	44	43	44	54	53	54	58	56	57
16	47	46	46	44	43	44	54	53	54	61	59	60
17	47	46	47	45	44	44	55	53	54	63	63	63
18	47	46	47	45	44	44	56	55	55	64	63	63
19	49	47	48	46	45	45	56	54	55	---	---	---
20	50	48	49	46	46	46	55	53	54	---	---	---
21	51	50	50	47	46	46	55	53	54	---	---	---
22	53	50	51	47	46	47	56	54	55	---	---	---
23	54	51	52	47	46	47	55	54	55	62	60	61
24	53	52	52	47	47	47	55	54	55	70	68	69
25	53	52	52	48	47	47	54	52	53	73	70	71
26	52	51	52	48	47	48	52	48	50	73	70	71
27	51	50	51	---	---	---	48	45	46	74	71	72
28	52	51	51	48	46	47	47	45	46	---	---	---
29	52	51	51	47	46	47	48	47	48	---	---	---
30	51	51	51	46	44	45	48	47	48	---	---	---
31	51	50	51	---	---	---	47	46	47	---	---	---
MONTH	61	45	51	52	41	45	56	44	50	74	46	57

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
FEBRUARY			MARCH			APRIL			MAY			
1	---	---	---	80	76	78	52	50	51	42	39	40
2	---	---	---	79	77	79	50	49	50	38	38	38
3	---	---	---	78	76	78	50	49	49	39	38	39
4	---	---	---	79	77	78	50	49	49	40	39	40
5	70	68	69	80	76	78	51	50	50	41	40	41
6	69	68	68	90	77	85	51	50	51	42	41	41
7	69	67	68	87	77	81	50	50	50	43	42	42
8	70	68	69	78	75	76	51	49	50	43	42	43
9	71	70	70	86	77	82	50	49	49	43	42	42
10	71	69	70	86	80	83	51	50	50	42	41	42
11	70	70	70	87	79	83	52	48	51	43	42	42
12	70	68	69	88	83	85	---	---	---	42	41	41
13	70	69	70	88	85	86	---	---	---	43	41	42
14	70	67	68	87	81	83	---	---	---	44	43	43
15	72	67	68	87	83	85	---	---	---	45	44	45
16	69	68	68	90	84	87	---	---	---	46	45	45
17	70	68	69	92	88	90	---	---	---	47	46	47
18	72	69	70	90	70	84	---	---	---	47	46	46
19	69	68	69	76	70	73	---	---	---	47	44	45
20	70	68	69	71	68	70	---	---	---	45	43	44
21	74	70	72	67	60	62	---	---	---	45	44	44
22	78	71	73	62	60	61	---	---	---	47	44	46
23	78	75	77	64	61	63	44	44	44	49	46	47
24	81	75	78	63	58	61	45	44	44	50	46	48
25	87	77	80	58	56	57	44	43	44	49	48	48
26	87	83	85	56	54	55	43	42	43	50	48	49
27	87	82	84	56	54	55	42	41	41	50	49	50
28	86	76	83	55	54	55	43	42	42	49	48	49
29	76	74	75	56	54	55	43	42	43	51	48	49
30	---	---	---	54	52	53	44	42	43	55	49	51
31	---	---	---	53	52	52	---	---	---	54	49	51
MONTH	87	67	72	92	52	73	52	41	47	55	38	45

PENOBSCOT RIVER BASIN

01036390 PENOBSCOT RIVER AT EDDINGTON, ME--Continued

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

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
	JUNE			JULY			AUGUST			SEPTEMBER		
1	53	51	52	68	64	66	62	58	60	74	62	68
2	54	52	53	70	67	68	61	58	59	66	62	64
3	53	51	52	70	67	68	60	58	59	71	65	68
4	53	52	52	70	59	65	61	59	60	69	66	67
5	57	52	54	60	58	59	62	59	60	70	67	68
6	58	53	54	66	60	64	61	58	59	72	68	69
7	58	51	54	68	65	66	60	56	58	71	69	70
8	58	52	53	69	64	67	59	57	58	73	70	71
9	59	52	55	69	67	68	59	56	57	76	71	74
10	56	52	55	70	67	69	59	56	58	77	72	75
11	60	54	57	70	67	68	59	56	57	73	71	72
12	65	58	62	70	67	69	57	54	55	77	72	74
13	66	63	64	70	68	69	60	57	59	75	72	73
14	63	61	62	73	68	71	62	57	59	74	69	71
15	65	61	64	73	69	71	59	57	58	69	66	68
16	65	61	63	70	66	69	58	57	58	65	59	62
17	64	61	63	72	66	70	61	58	59	58	55	57
18	63	59	61	72	68	70	63	59	60	58	56	56
19	64	55	63	70	67	68	63	61	62	61	56	58
20	65	53	61	68	67	67	67	59	63	62	57	59
21	67	63	64	69	67	68	70	66	68	60	57	58
22	69	64	67	70	63	67	71	66	68	---	---	---
23	68	62	65	68	64	66	68	66	67	---	---	---
24	64	59	61	64	58	60	68	66	67	---	---	---
25	62	59	61	59	58	58	68	65	67	---	---	---
26	64	60	62	60	57	58	68	65	67	---	---	---
27	66	62	64	60	58	59	69	67	68	---	---	---
28	64	62	63	63	59	61	69	67	68	---	---	---
29	64	62	63	63	61	61	71	68	69	---	---	---
30	64	63	64	62	60	61	73	70	71	---	---	---
31	---	---	---	66	60	62	74	70	72	---	---	---
MONTH	69	51	60	73	57	66	74	54	62	77	55	67
YEAR	92	38	58									

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

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
	OCTOBER			NOVEMBER			DECEMBER			JANUARY		
1	7.0	6.9	7.0	7.0	6.9	6.9	6.8	6.8	6.8	6.7	6.7	6.7
2	7.0	6.9	6.9	---	---	---	6.8	6.8	6.8	6.7	6.7	6.7
3	6.9	6.8	6.9	---	---	---	---	---	---	6.8	6.7	6.7
4	6.9	6.8	6.9	---	---	---	---	---	---	6.8	6.8	6.8
5	6.9	6.8	6.8	---	---	---	6.9	6.9	6.9	6.8	6.8	6.8
6	6.9	6.8	6.8	---	---	---	6.9	6.9	6.9	6.8	6.8	6.8
7	6.8	6.8	6.8	---	---	---	6.9	6.9	6.9	6.8	6.8	6.8
8	6.8	6.7	6.8	6.5	6.5	6.5	6.9	6.9	6.9	6.8	6.8	6.8
9	6.8	6.7	6.7	6.5	6.5	6.5	7.0	6.9	7.0	6.8	6.8	6.8
10	6.7	6.6	6.7	6.6	6.5	6.6	7.0	6.9	7.0	6.8	6.8	6.8
11	6.6	6.6	6.6	6.6	6.6	6.6	7.0	6.9	7.0	6.8	6.8	6.8
12	6.5	6.6	6.6	6.7	6.6	6.6	7.0	6.9	7.0	6.8	6.8	6.8
13	6.6	6.6	6.6	6.7	6.6	6.7	7.0	6.9	7.0	6.8	6.7	6.7
14	6.7	6.6	6.6	6.7	6.7	6.7	7.0	6.9	7.0	6.8	6.7	6.7
15	6.7	6.7	6.7	6.7	6.7	6.7	7.0	6.9	6.9	6.7	6.7	6.7
16	6.7	6.7	6.7	6.7	6.7	6.7	6.9	6.9	6.9	6.8	6.7	6.7
17	6.8	6.7	6.7	6.8	6.7	6.8	6.9	6.9	6.9	6.8	6.7	6.8
18	6.8	6.7	6.7	6.8	6.7	6.7	6.9	6.9	6.9	6.8	6.7	6.7
19	6.8	6.8	6.8	6.8	6.7	6.7	6.9	6.8	6.8	---	---	---
20	6.9	6.8	6.8	6.8	6.7	6.7	6.8	6.8	6.8	---	---	---
21	6.9	6.8	6.8	6.8	6.7	6.7	6.8	6.7	6.8	---	---	---
22	6.9	6.8	6.8	6.8	6.7	6.7	6.9	6.8	6.9	---	---	---
23	6.9	6.8	6.9	6.8	6.7	6.7	6.9	6.9	6.9	6.8	6.7	6.8
24	7.0	6.9	6.9	6.8	6.7	6.8	6.9	6.8	6.8	6.8	6.7	6.8
25	7.0	6.9	7.0	6.8	6.7	6.8	6.8	6.8	6.8	6.8	6.7	6.8
26	7.0	6.9	7.0	6.8	6.7	6.8	6.8	6.7	6.7	6.7	6.7	6.7
27	7.0	6.9	7.0	---	---	---	6.7	6.7	6.7	6.7	6.6	6.6
28	7.0	6.9	7.0	6.8	6.8	6.8	6.8	6.7	6.7	---	---	---
29	7.0	6.9	6.9	6.9	6.8	6.8	6.7	6.7	6.7	---	---	---
30	6.9	6.9	6.9	6.8	6.8	6.8	6.7	6.7	6.7	---	---	---
31	7.0	6.9	6.9	---	---	---	6.7	6.7	6.7	---	---	---
MONTH	7.0	6.6	6.8	7.0	6.5	6.7	7.0	6.7	6.9	6.8	6.6	6.8

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

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

01036390 PENOBSCOT RIVER AT EDDINGTON, ME--Continued

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

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
OCTOBER			NOVEMBER			DECEMBER			JANUARY			
1	15.5	15.5	15.5	8.0	7.5	7.5	4.0	3.5	4.0	1.0	1.0	1.0
2	16.0	15.5	15.5	---	---	---	3.5	3.0	3.5	1.0	1.0	1.0
3	16.0	15.5	15.5	---	---	---	---	---	---	1.0	1.0	1.0
4	16.0	15.5	16.0	---	---	---	---	---	---	1.0	1.0	1.0
5	16.0	15.5	15.5	---	---	---	2.0	2.0	2.0	1.0	1.0	1.0
6	16.0	15.5	15.5	---	---	---	2.5	2.0	2.5	1.0	1.0	1.0
7	15.5	14.5	15.0	---	---	---	3.0	2.5	3.0	1.0	1.0	1.0
8	14.5	13.0	14.0	7.0	6.5	7.0	3.0	2.5	3.0	1.0	1.0	1.0
9	13.0	10.5	11.5	7.0	7.0	7.0	2.0	1.0	1.5	1.0	1.0	1.0
10	10.5	9.0	9.5	8.5	7.0	7.5	1.0	1.0	1.0	1.0	1.0	1.0
11	9.0	8.5	9.0	8.5	8.0	8.0	1.0	1.0	1.0	1.0	1.0	1.0
12	8.5	8.5	8.5	8.0	7.5	8.0	1.0	1.0	1.0	1.0	1.0	1.0
13	9.0	8.5	8.5	7.5	6.5	7.0	1.0	1.0	1.0	.5	.5	.5
14	8.5	8.0	8.5	6.5	6.0	6.5	1.0	1.0	1.0	.5	.5	.5
15	8.0	7.5	7.5	6.0	5.5	6.0	1.0	1.0	1.0	.5	.5	.5
16	7.5	7.0	7.5	5.5	4.5	5.5	1.0	1.0	1.0	.5	.5	.5
17	7.5	7.0	7.0	4.5	3.5	4.0	1.0	1.0	1.0	.5	.5	.5
18	8.5	7.0	8.0	3.5	3.0	3.5	1.0	1.0	1.0	.5	.5	.5
19	8.5	7.5	8.0	3.5	2.5	3.0	1.0	1.0	1.0	---	---	---
20	9.0	8.0	8.5	3.0	3.0	3.0	1.0	1.0	1.0	---	---	---
21	9.5	8.5	9.0	3.5	3.0	3.5	1.0	1.0	1.0	---	---	---
22	11.0	9.5	10.0	3.5	3.5	3.5	1.0	1.0	1.0	---	---	---
23	13.0	11.0	12.0	4.0	4.0	4.0	1.0	1.0	1.0	.5	.5	.5
24	14.0	12.5	13.0	4.5	4.0	4.5	1.0	1.0	1.0	.5	.5	.5
25	13.5	12.0	13.0	5.5	5.0	5.0	1.0	1.0	1.0	---	---	---
26	12.0	10.5	11.5	6.0	5.0	5.5	1.0	1.0	1.0	---	---	---
27	10.5	9.0	9.5	---	---	---	1.0	1.0	1.0	---	---	---
28	9.0	8.5	8.5	6.5	6.0	6.5	1.0	1.0	1.0	---	---	---
29	8.5	7.0	8.5	6.5	5.5	6.0	1.0	1.0	1.0	---	---	---
30	8.0	8.0	8.0	5.0	4.5	5.0	1.0	1.0	1.0	---	---	---
31	8.0	7.5	8.0	---	---	---	1.0	1.0	1.0	---	---	---
MONTH	16.0	7.0	11.0	8.5	2.5	5.5	4.0	1.0	1.5	1.0	.5	1.0
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
FEBRUARY			MARCH			APRIL			MAY			
1	---	---	---	.5	.0	.0	1.0	.0	.5	8.5	7.5	8.0
2	---	---	---	.5	.0	.0	2.5	.5	1.5	9.0	7.5	8.5
3	---	---	---	.5	.0	.0	3.0	2.0	2.5	10.0	9.0	9.5
4	---	---	---	.5	.0	.0	3.0	2.5	3.0	10.5	9.5	10.0
5	.5	.0	.0	.5	.0	.5	2.5	2.0	2.5	11.0	10.0	10.5
6	.5	.0	.0	.5	.5	.5	3.0	2.0	2.5	12.0	10.5	11.5
7	.0	.0	.0	.5	.0	.5	3.5	2.5	3.0	12.0	11.0	11.5
8	.5	.0	.0	.5	.5	.5	3.5	3.5	3.5	11.0	10.0	10.5
9	.5	.0	.0	.5	.5	.5	4.5	4.0	4.0	10.0	9.5	9.5
10	.5	.0	.0	.5	.0	.5	4.5	4.5	4.5	10.0	9.0	9.5
11	.5	.0	.0	.5	.0	.5	5.0	4.5	4.5	10.0	9.0	9.5
12	.5	.0	.0	.5	.0	.0	---	---	---	11.5	10.0	11.0
13	.5	.0	.0	.5	.0	.5	---	---	---	12.5	11.5	12.0
14	.5	.0	.0	.5	.0	.5	---	---	---	13.0	12.5	12.5
15	.5	.0	.0	.5	.0	.0	---	---	---	13.0	12.0	12.5
16	.5	.0	.0	.5	.0	.5	---	---	---	14.0	12.5	13.0
17	.5	.0	.0	.5	.0	.5	---	---	---	14.5	13.5	14.0
18	.5	.0	.0	.5	.5	.5	---	---	---	14.5	13.5	14.0
19	.5	.0	.5	.5	.0	.5	---	---	---	14.5	13.5	14.0
20	.5	.0	.5	.5	.0	.5	---	---	---	15.5	14.0	14.5
21	.5	.0	.5	.5	.0	.5	---	---	---	16.0	15.0	15.5
22	.5	.0	.0	.5	.5	.5	---	---	---	17.0	15.0	16.0
23	.5	.0	.5	1.0	.5	.5	5.5	5.5	5.5	17.5	16.0	16.5
24	.5	.0	.5	.5	.0	.5	6.5	5.5	6.0	18.0	16.0	17.0
25	.5	.0	.5	.5	.0	.0	7.0	6.5	7.0	18.0	16.5	17.0
26	.5	.0	.5	.5	.0	.0	7.0	7.0	7.0	16.5	15.5	16.0
27	.5	.0	.5	.5	.0	.0	7.5	7.0	7.0	15.5	14.5	15.0
28	.5	.0	.0	1.0	.0	.5	8.5	7.0	7.5	15.0	14.0	14.5
29	.0	.0	.0	1.0	.0	.5	8.5	8.0	8.5	16.0	13.5	14.5
30	---	---	---	1.0	.0	.5	8.5	8.0	8.5	17.5	14.5	16.0
31	---	---	---	1.0	.0	.5	---	---	---	17.0	16.0	16.5
MONTH	.5	.0	.0	1.0	.0	.5	8.5	.0	4.5	18.0	7.5	13.0

01036390 PENOBSCOT RIVER AT EDDINGTON, ME--Continued

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

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
	JUNE			JULY			AUGUST			SEPTEMBER		
1	17.0	16.0	16.5	20.5	20.0	20.0	25.5	23.5	24.5	23.5	23.0	23.5
2	16.5	16.0	16.5	20.0	19.0	19.0	25.0	24.0	24.5	24.5	23.0	23.5
3	16.5	15.5	16.0	20.0	18.5	19.0	24.5	23.5	24.0	24.0	23.5	24.0
4	15.5	15.0	15.0	21.5	19.0	20.0	24.5	23.0	24.0	23.5	22.5	23.0
5	16.0	15.0	15.5	21.5	21.0	21.5	25.5	23.5	24.5	23.0	22.0	22.0
6	17.5	15.0	16.5	21.5	21.0	21.0	25.0	24.0	24.5	22.0	21.5	21.5
7	19.0	16.5	17.5	21.0	20.0	20.5	25.5	24.0	25.0	21.5	21.0	21.0
8	18.5	17.5	18.0	21.0	20.0	20.5	26.0	24.5	25.0	21.5	20.5	20.5
9	17.5	16.5	16.5	21.0	19.5	20.0	25.5	24.5	25.0	20.5	19.5	20.0
10	16.5	15.5	16.0	21.5	20.0	20.5	24.5	23.5	24.0	20.0	19.5	19.5
11	16.0	15.5	15.5	21.5	20.5	20.5	24.0	22.5	23.0	19.5	18.5	19.0
12	16.5	15.0	16.0	21.0	20.5	20.5	23.0	22.0	22.5	19.0	18.0	18.0
13	17.0	15.5	16.5	21.0	20.0	20.5	22.0	21.5	22.0	18.0	17.0	17.5
14	18.5	16.5	17.0	21.5	20.0	20.5	22.5	21.5	22.0	18.0	17.0	17.5
15	19.5	17.5	18.5	21.5	20.5	21.0	22.5	21.5	22.0	17.0	16.5	16.5
16	19.5	18.5	19.0	22.0	21.0	21.5	22.0	21.0	21.0	16.5	15.5	16.0
17	19.5	18.5	19.0	23.0	22.0	22.5	21.0	20.0	20.5	16.0	15.0	15.5
18	19.5	18.0	18.5	24.0	22.5	23.0	21.5	19.5	20.5	16.0	15.5	16.0
19	19.0	18.0	18.5	24.5	23.0	23.5	21.0	20.5	21.0	16.0	15.0	15.5
20	19.0	18.0	18.5	24.5	23.0	23.5	21.5	20.0	21.0	15.5	15.0	15.5
21	19.0	18.0	18.5	24.0	23.5	24.0	22.0	20.5	21.0	16.0	15.0	15.5
22	20.0	18.0	19.0	24.0	23.5	23.5	22.0	21.0	21.5	---	---	---
23	21.0	19.0	20.0	24.0	23.0	23.5	22.5	21.0	22.0	---	---	---
24	22.0	20.0	21.0	24.0	23.0	23.5	23.5	22.0	22.5	---	---	---
25	23.0	21.5	22.0	24.0	22.5	23.5	23.5	22.5	23.0	---	---	---
26	23.5	22.5	23.0	24.5	23.0	24.0	24.5	23.0	23.5	---	---	---
27	23.5	22.5	23.0	24.0	23.5	23.5	25.0	23.5	24.0	---	---	---
28	23.0	22.0	22.5	24.0	23.0	23.5	25.0	24.0	24.0	---	---	---
29	22.0	21.0	21.5	24.0	22.5	23.5	24.0	23.0	23.5	---	---	---
30	22.0	20.5	21.0	24.5	23.0	23.5	24.0	23.0	23.5	---	---	---
31	---	---	---	25.0	23.5	24.0	23.5	23.0	23.5	---	---	---
MONTH	23.5	15.0	18.5	25.0	18.5	22.0	26.0	19.5	23.0	24.5	15.0	19.0
YEAR	26.0	10.0	10.5									

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

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
	OCTOBER			NOVEMBER			DECEMBER			JANUARY		
1	8.6	8.4	8.5	10.9	10.7	10.8	13.4	13.3	13.3	---	---	---
2	8.4	8.3	8.3	---	---	---	13.5	13.3	13.4	---	---	---
3	8.5	8.3	8.4	---	---	---	---	---	---	---	---	---
4	8.6	8.4	8.4	---	---	---	---	---	---	---	---	---
5	8.7	8.4	8.5	---	---	---	13.0	12.8	12.9	---	---	---
6	8.6	8.4	8.5	---	---	---	12.9	12.6	12.8	---	---	---
7	8.8	8.6	8.6	---	---	---	12.6	12.4	12.5	---	---	---
8	9.5	8.8	9.1	11.8	11.6	11.7	12.9	12.5	12.6	---	---	---
9	10.2	9.5	9.9	11.8	11.6	11.7	13.3	12.9	13.2	---	---	---
10	10.4	10.3	10.4	11.7	11.3	11.4	13.4	13.2	13.3	---	---	---
11	10.6	10.4	10.5	11.6	11.4	11.5	---	---	---	---	---	---
12	10.6	10.4	10.5	11.9	11.7	11.8	---	---	---	---	---	---
13	10.4	10.2	10.3	12.1	12.0	12.0	---	---	---	12.2	11.9	12.0
14	10.6	10.4	10.4	12.2	12.1	12.1	---	---	---	12.4	12.1	12.3
15	10.7	10.5	10.6	12.4	12.2	12.3	---	---	---	12.6	12.4	12.5
16	10.8	10.7	10.7	12.7	12.4	12.5	---	---	---	13.0	12.6	12.7
17	10.9	10.8	10.8	13.0	12.8	12.9	---	---	---	13.1	12.8	12.9
18	10.8	10.6	10.7	13.4	13.1	13.2	---	---	---	13.1	12.8	12.9
19	10.8	10.4	10.6	13.6	13.5	13.6	---	---	---	---	---	---
20	10.5	10.1	10.3	13.7	13.5	13.6	---	---	---	---	---	---
21	10.1	9.9	10.0	13.5	13.4	13.5	---	---	---	---	---	---
22	9.9	9.5	9.7	13.5	13.2	13.4	---	---	---	---	---	---
23	9.6	9.1	9.4	13.4	13.2	13.3	---	---	---	12.8	12.1	12.5
24	9.2	8.7	8.9	13.3	13.0	13.1	---	---	---	12.8	12.1	12.5
25	9.3	8.8	9.1	13.0	12.8	12.9	---	---	---	---	---	---
26	9.8	9.3	9.6	12.8	12.2	12.6	---	---	---	---	---	---
27	10.2	9.8	10.1	---	---	---	---	---	---	---	---	---
28	10.3	10.2	10.3	12.6	12.4	12.5	---	---	---	---	---	---
29	10.4	10.2	10.3	12.9	12.6	12.8	---	---	---	---	---	---
30	10.7	10.4	10.6	13.3	12.9	13.1	---	---	---	---	---	---
31	10.8	10.7	10.8	---	---	---	---	---	---	---	---	---
MONTH	10.9	8.3	9.8	13.7	10.7	12.5	13.5	12.4	13.0	13.1	11.9	12.5

01036390 PENOBSCOT RIVER AT EDDINGTON, ME--Continued

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

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		FEBRUARY			MARCH			APRIL			MAY	
1	---	---	---	12.7	12.6	12.6	---	---	---	11.7	11.3	11.5
2	---	---	---	12.7	12.4	12.6	---	---	---	11.8	11.4	11.6
3	---	---	---	12.5	12.3	12.4	---	---	---	---	---	---
4	---	---	---	12.5	12.4	12.4	---	---	---	---	---	---
5	13.8	12.9	13.5	12.6	12.2	12.4	---	---	---	12.1	11.0	11.6
6	13.8	13.6	13.7	12.7	12.1	12.5	---	---	---	11.6	10.2	10.8
7	13.8	13.6	13.7	12.8	12.6	12.7	---	---	---	10.6	10.5	10.6
8	13.7	13.5	13.6	12.7	12.1	12.4	---	---	---	10.8	10.4	10.6
9	13.6	13.3	13.5	12.4	12.1	12.2	---	---	---	11.1	10.8	10.9
10	13.3	13.1	13.2	12.6	12.3	12.5	---	---	---	11.5	11.1	11.4
11	13.3	13.1	13.2	12.3	12.0	12.1	---	---	---	11.6	11.2	11.4
12	13.2	13.0	13.0	12.9	12.1	12.5	---	---	---	11.2	10.7	11.0
13	13.4	13.1	13.3	13.1	12.6	12.9	---	---	---	10.8	10.0	10.5
14	13.3	13.1	13.2	12.6	11.9	12.2	---	---	---	10.6	10.0	10.5
15	13.3	12.9	13.0	12.5	11.9	12.2	---	---	---	11.1	10.4	10.7
16	13.0	12.5	12.7	12.8	12.5	12.7	---	---	---	10.7	10.3	10.5
17	12.9	12.3	12.5	12.9	12.3	12.6	---	---	---	10.7	10.0	10.4
18	13.1	12.8	12.9	12.4	12.0	12.1	---	---	---	10.1	10.0	10.1
19	13.0	12.7	12.8	12.7	12.3	12.6	---	---	---	10.1	9.9	10.0
20	12.8	12.4	12.6	12.7	12.4	12.6	---	---	---	10.1	9.8	9.9
21	12.9	12.3	12.5	12.6	12.3	12.5	---	---	---	9.8	9.5	9.7
22	13.1	12.6	12.9	12.4	12.3	12.3	---	---	---	9.5	9.3	9.4
23	12.5	12.3	12.4	12.7	12.4	12.6	11.6	11.5	11.5	9.5	9.2	9.3
24	12.7	12.4	12.5	13.0	12.7	12.9	11.6	11.4	11.5	9.4	8.9	9.2
25	12.6	12.4	12.5	---	---	---	11.5	11.3	11.4	9.2	9.0	9.1
26	12.6	12.4	12.5	---	---	---	11.5	11.3	11.4	9.5	9.2	9.4
27	12.7	12.5	12.6	---	---	---	11.4	11.3	11.4	9.9	9.5	9.7
28	12.5	12.4	12.4	---	---	---	11.6	11.1	11.4	10.2	9.6	9.9
29	12.6	12.4	12.5	---	---	---	11.2	10.9	11.1	10.0	9.5	9.8
30	---	---	---	---	---	---	11.2	10.9	11.1	9.8	9.2	9.5
31	---	---	---	---	---	---	---	---	---	9.4	9.2	9.3
MONTH	13.8	12.3	12.9	13.1	11.9	12.5	11.6	10.9	11.4	12.1	8.9	10.3
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		JUNE			JULY			AUGUST			SEPTEMBER	
1	9.3	9.2	9.2	7.9	7.5	7.7	7.9	7.6	7.8	7.6	7.3	7.5
2	9.4	9.2	9.3	7.8	7.6	7.7	7.8	7.6	7.7	7.7	7.4	7.5
3	9.5	9.3	9.5	7.8	7.6	7.7	7.8	7.7	7.8	7.8	7.5	7.6
4	9.7	9.5	9.7	8.6	7.6	7.8	8.0	7.7	7.8	7.9	7.6	7.8
5	9.8	9.4	9.6	8.7	7.4	7.7	7.9	7.5	7.7	8.0	7.8	7.9
6	9.8	9.2	9.5	8.5	7.6	8.0	7.8	7.4	7.6	---	---	---
7	10.0	9.0	9.3	8.5	7.9	8.0	7.8	7.3	7.6	---	---	---
8	10.3	8.9	9.5	9.4	8.0	8.7	7.7	7.3	7.6	---	---	---
9	9.4	9.0	9.2	9.1	8.1	8.7	7.6	7.4	7.5	---	---	---
10	9.6	9.3	9.5	9.3	8.1	8.7	7.9	7.3	7.8	---	---	---
11	9.8	9.5	9.6	8.9	7.2	8.3	8.0	7.7	7.8	---	---	---
12	9.8	9.6	9.7	7.3	7.2	7.3	7.9	7.8	7.9	---	---	---
13	10.0	9.6	9.8	7.4	7.3	7.3	8.0	7.9	7.9	---	---	---
14	9.7	9.3	9.5	7.6	7.4	7.5	---	---	---	---	---	---
15	9.4	9.0	9.2	7.4	7.3	7.4	---	---	---	---	---	---
16	9.2	8.7	9.0	7.4	7.2	7.3	---	---	---	---	---	---
17	9.5	8.9	9.2	7.2	6.5	6.9	---	---	---	---	---	---
18	9.5	9.0	9.2	6.7	6.5	6.6	---	---	---	---	---	---
19	9.3	9.1	9.2	6.7	6.6	6.6	---	---	---	---	---	---
20	9.4	8.9	9.1	6.9	6.6	6.7	---	---	---	---	---	---
21	9.1	8.7	8.9	6.9	6.7	6.8	---	---	---	---	---	---
22	9.3	9.0	9.2	7.4	6.9	7.0	---	---	---	---	---	---
23	9.4	8.9	9.2	7.2	6.9	7.0	---	---	---	---	---	---
24	9.5	8.8	9.0	7.8	7.2	7.5	8.0	7.8	7.9	---	---	---
25	9.7	8.3	8.7	8.2	7.4	7.9	7.9	7.7	7.8	---	---	---
26	10.1	7.4	8.5	8.1	7.9	8.0	7.8	7.6	7.7	---	---	---
27	7.5	7.1	7.3	8.2	8.1	8.1	7.7	7.5	7.6	---	---	---
28	7.6	7.2	7.4	8.3	8.1	8.2	7.8	7.4	7.6	---	---	---
29	8.0	7.1	7.7	---	---	---	7.8	7.3	7.6	---	---	---
30	7.8	7.4	7.6	---	---	---	7.5	7.3	7.4	---	---	---
31	---	---	---	8.0	7.3	7.6	7.6	7.4	7.4	---	---	---
MONTH	10.3	7.1	9.0	9.4	6.5	7.6	8.0	7.3	7.7	8.0	7.3	7.7
YEAR	13.8	6.5	10.4									

Reservoirs in Penobscot River Basin

- 01027000 CHESUNCOOK, RIPOGENUS, AND CARIBOU LAKES AND MOOSE POND in West Branch Penobscot River basin are controlled by Ripogenus Dam, in T. 3, R. 11, Piscataquis County, Maine, 36 mi (58 km) upstream from Millinocket and 42 mi (68 km) northeast of Greenville, present dam completed in 1917, used for power; usable capacity of reservoir, 30,000,000,000 ft³ (850,000,000 m³). Records furnished by Great Northern Paper Co.
- 01027000 AMBAJEJUS, PEMADUMCOOK, NORTH TWIN, SOUTH TWIN, AND ELBOW LAKES in West Branch Penobscot River basin are controlled by North Twin Dam, Penobscot County, 3 mi (5 km) upstream from Millinocket, Maine, used for power; usable capacity of reservoir, 15,000,000,000 ft³ (420,000,000 m³). Records furnished by Great Northern Paper Co.
- 01028500 CHAMBERLAIN AND TELOS LAKES AND ROUND POND in East Branch Penobscot River basin are controlled by dams in outlets of Chamberlain and Telos Lakes, although regulation is at Telos Dam, in T. 6, R. 11, Piscataquis County, Maine. Telos Dam rebuilt during 1941, used for power; usable capacity, 5,050,000,000 ft³ (142,700,000 m³) between gage height 2.0 ft (0.61 m) and 11.0 ft (3.35 m). Records furnished by Bangor Hydroelectric Co.
- 01029000 SECOND AND GRAND LAKES in East Branch Penobscot River basin are controlled by dam rebuilt in 1942 at outlet of Grand Lake, in T. 6, R. 8, Penobscot County, Maine, used for power; usable capacity, 1,785,000,000 ft³ (50,550,000 m³) between elevations 643.0 ft (195.99 m) and 655.0 ft (199.64 m). Records furnished by Bangor Hydroelectric Co.
- 01032500 SEBEC LAKE on Sebec River, Piscataquis County, at Sebec, Maine, used for power; usable capacity, 2,511,000,000 ft³ (71,110,000 m³) between elevations 316.1 ft (96.35 m) and 325.1 ft (99.09 m). Records furnished by Bangor Hydroelectric Co.

MONTHEND CONTENTS, IN MILLIONS OF CUBIC FEET, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

DATE	CHESUNCOOK, RIPOGENUS, CARIBOU, AMBAJEJUS, PEMADUMCOOK, NORTH TWIN, SOUTH TWIN, AND ELBOW LAKES AND MOOSE POND*	CHAMBERLAIN, TELOS, SECOND, AND GRAND LAKES AND ROUND POND	SEBEC LAKE
SEPT. 30, 1979	35400	3311	1338
OCT. 31	33677	3510	1896
NOV. 30	33769	4301	1896
DEC. 31	29791	4413	1693
JAN. 31, 1980	23934	3496	849
FEB. 28	16584	787	441
MAR. 31	10488	763	1257
APR. 30	26610	4413	1954
MAY 31	32237	5273	2013
JUNE 30	29558	5157	2101
JULY 31	28983	5062	2042
AUG. 31	25223	4403	1984
SEPT. 30	22041	3298	1257

* Includes monthend contents of following additional reservoirs in West Branch Penobscot River basin, used for power, total capacity approximately 12,000,000,000 ft³ (340,000,000 m³); Penobscot, Seboomook, Caucomgomoc, Loon, Shallow, Umbazooksus, Harrington, Sourdnhunk, Rainbow, Ragged, and Millinocket Lakes, Canada Falls Reservoir, Dole and Poland Ponds.

01038000 SHEEPSCOT RIVER AT NORTH WHITEFIELD, ME

LOCATION.--Lat 44°13'23", long 69°35'38", Lincoln County, Hydrologic Unit 01050003, on left bank at North Whitefield 50 ft (15 m) upstream from highway bridge and 0.6 mi (1.0 km) downstream from Pleasant Pond Brook.

DRAINAGE AREA.--148 mi² (383 km²).

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

Specific conductance: July 1974 to September 1976.

Water temperatures: October 1957 to September 1971, July 1974 to September 1976.

GAGE.--Water-stage recorder. Datum of gage is 101.05 ft (30.80 m) National Geodetic Vertical Datum of 1929.

REMARKS.--Records good except those for winter period, which are fair. Some regulation at low flow by sawmill at North Whitefield. Several observations of water temperature and specific conductance were made during the year.

AVERAGE DISCHARGE.--42 years, 248 ft³/s (7.023 m³/s), 22.76 in/yr (578 mm/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 6,420 ft³/s (182 m³/s) Dec. 18, 1973, gage height, 12.52 ft (3.816 m), from floodmarks; minimum, 5.0 ft³/s (0.14 m³/s) Oct. 24, 1941, gage height, 1.70 ft (0.518 m).

EXTREMES FOR CURRENT YEAR.--Peak discharges above base of 1,100 ft³/s (31 m³/s) and maximum (*):

Date	Time	Discharge (ft ³ /s) (m ³ /s)	Gage height (ft) (m)	Date	Time	Discharge (ft ³ /s) (m ³ /s)	Gage height (ft) (m)
Nov. 3	2400	1270 36.0	5.52 1.682	Apr. 11	0200	1260 35.7	5.49 1.673
Mar. 18	2100	* 1730 49.0	6.26 1.908				

Minimum discharge, 13 ft³/s (0.37 m³/s) Sept. 11, 12, gage height, 1.78 ft (0.543 m).

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	32	198	289	220	73	48	458	775	93	43	51	16
2	219	186	273	199	71	48	425	572	87	42	45	17
3	180	691	264	181	69	47	402	542	83	47	42	21
4	349	1030	235	161	66	46	411	644	90	45	44	21
5	250	761	220	148	64	42	481	529	92	39	41	19
6	340	731	208	138	63	41	438	455	86	35	36	17
7	343	686	227	125	61	42	404	440	79	32	33	16
8	559	613	224	123	59	45	381	480	78	31	31	19
9	449	539	199	118	57	52	369	560	90	33	28	16
10	484	588	187	111	56	55	641	540	82	32	24	14
11	460	588	175	106	55	56	1170	520	77	29	21	14
12	431	528	170	143	54	55	979	490	73	28	22	15
13	454	482	160	143	53	55	995	455	69	28	22	24
14	414	445	155	131	52	70	941	420	66	27	22	26
15	370	420	150	125	50	123	903	380	64	25	21	24
16	352	385	150	120	50	115	922	350	67	25	20	27
17	330	356	219	115	50	109	834	310	65	39	19	23
18	307	329	215	110	49	1180	703	280	60	37	19	28
19	281	300	175	110	49	1040	614	260	57	30	18	25
20	257	276	155	105	49	750	540	240	56	26	19	22
21	238	288	135	100	50	730	499	240	104	26	20	20
22	222	279	135	97	51	732	447	230	98	39	20	20
23	204	288	131	95	52	750	549	210	77	47	18	20
24	199	273	138	91	49	731	544	190	68	97	18	22
25	252	262	238	89	48	677	483	170	63	57	17	18
26	225	258	396	86	48	612	452	150	59	42	17	38
27	205	370	333	84	48	597	435	140	55	37	16	53
28	192	345	300	81	48	541	403	130	51	34	17	42
29	209	322	284	79	48	509	413	120	48	35	16	34
30	227	307	268	77	---	523	1010	110	46	71	16	29
31	210	---	245	75	---	499	---	100	---	67	16	---
TOTAL	9284	13124	6653	3686	1592	10920	18246	11032	2183	1225	769	700
MEAN	299	437	215	119	54.9	352	608	356	72.8	39.5	24.8	23.3
MAX	559	1030	396	220	73	1180	1170	775	104	97	51	53
MIN	32	186	131	75	48	41	369	100	46	25	16	14
CFSM	2.02	2.95	1.45	.80	.37	2.38	4.11	2.41	.49	.27	.17	.16
IN.	2.33	3.30	1.67	.93	.40	2.74	4.59	2.77	.55	.31	.19	.18

CAL YR 1979	TOTAL	129660	MEAN 355	MAX 2300	MIN 20	CFSM 2.40	IN 32.59
WTR YR 1980	TOTAL	79414	MEAN 217	MAX 1180	MIN 14	CFSM 1.47	IN 19.96

01040500 MOOSEHEAD LAKE AT EAST OUTLET, ME

LOCATION.--Lat 45°35'07", long 69°42'48", Piscataquis County, Hydrologic Unit 01030001, on left bank at wharf at East Outlet of Moosehead Lake.

DRAINAGE AREA.--1,266 mi² (3,279 km²).

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

GAGE.--Nonrecording gage read daily at 0700. Datum of gage is 1,011.48 ft (308.299 m) National Geodetic Vertical Datum of 1929.

COOPERATION.--Gage-height record furnished by Kennebec Water Power Co.

REMARKS.--Lake is controlled by dams at East and West Outlets originally built prior to 1840. East Outlet partly rebuilt of concrete in 1947-48 with gate sills at elevation 7.0 ft (2.13 m). Remaining wooden section rebuilt of concrete in 1955-56. Lake outlet dredged in 1948 to permit drawing level down to elevation 10.0 ft (3.05 m) at a faster rate than formerly. Capacity, 23,735,000,000 ft³ (672,200,000 m³) between gage heights 10.0 ft (3.05 m) and 17.5 ft (5.33 m). Water is used primarily for power, although some logs are driven each year. Some water was diverted through gates in dam at West Outlet; monthly mean diversion, in cubic feet per second, during water year 1980 is given below:

October	30	February	30	June	40
November	40	March	30	July	60
December	60	April	40	August	60
January	40	May	50	September	50

EXTREMES FOR PERIOD OF RECORD.--Maximum gage height, 18.0 ft (5.49 m) May 30, 1902; minimum, 10.0 ft (3.05 m) or lower, present datum Mar. 20-29, 1911.

EXTREMES FOR CURRENT YEAR.--Maximum gage height observed, 17.49 ft (5.331 m) Aug. 7; minimum observed, 13.72 ft (4.182 m) Mar. 24-26.

Capacity table (elevation, in feet, and contents, in million cubic feet)

13.0	9,379
14.0	12,537
15.0	15,713
16.0	18,908
17.0	22,121
18.0	25,355

GAGE HEIGHT, IN FEET, AT 0700, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	14.63	15.93	16.90	16.46	15.60	14.30	13.75	15.46	16.53	16.99	17.43	16.63
2	14.60	15.97	16.92	16.44	15.54	14.30	13.77	15.50	16.53	17.02	17.44	16.67
3	14.56	16.05	16.94	16.42	15.50	14.28	13.79	15.63	16.54	17.05	17.45	16.64
4	14.51	16.23	16.94	16.40	15.45	14.22	13.81	15.71	16.60	17.07	17.47	16.63
5	14.46	16.30	16.94	16.37	15.40	14.15	13.84	15.76	16.63	17.08	17.47	16.58
6	14.48	16.40	16.93	16.34	15.36	14.08	13.86	15.80	16.65	17.12	17.48	16.48
7	14.63	16.48	16.91	16.31	15.32	14.03	13.89	15.85	16.67	17.12	17.49	16.43
8	14.74	16.56	16.89	16.31	15.27	13.98	13.91	15.88	16.67	17.13	17.41	16.39
9	14.81	16.61	16.86	16.30	15.23	13.98	13.93	15.91	16.67	17.14	17.39	16.31
10	14.92	16.64	16.83	16.26	15.18	13.98	13.96	15.96	16.67	17.14	17.39	16.29
11	14.96	16.78	16.80	16.18	15.18	13.94	14.00	16.00	16.67	17.12	17.40	16.25
12	15.00	16.77	16.78	16.25	15.14	13.90	14.08	16.02	16.67	17.18	17.37	16.23
13	15.07	16.84	16.76	16.18	15.07	13.85	14.14	16.05	16.67	17.20	17.35	16.21
14	15.16	16.84	16.74	16.18	15.00	13.80	14.19	16.08	16.67	17.20	17.34	16.28
15	15.20	16.83	16.72	16.18	14.94	13.78	14.25	16.12	16.67	17.20	17.31	16.30
16	15.22	16.79	16.68	16.15	14.87	13.78	14.32	16.14	16.68	17.21	17.28	16.32
17	15.22	16.75	16.66	16.12	14.87	13.78	14.36	16.16	16.69	17.22	17.28	16.29
18	15.20	16.74	16.62	16.10	14.87	13.75	14.39	16.18	16.69	17.24	17.23	16.32
19	15.20	16.74	16.58	16.07	14.83	13.77	14.42	16.23	16.68	17.24	17.20	16.30
20	15.21	16.72	16.53	16.03	14.76	13.77	14.45	16.27	16.67	17.27	17.16	16.27
21	15.24	16.70	16.49	16.02	14.69	13.77	14.50	16.30	16.77	17.28	17.13	16.30
22	15.30	16.67	16.45	16.00	14.62	13.77	14.54	16.33	16.86	17.28	17.08	16.28
23	15.38	16.65	16.42	15.97	14.62	13.75	14.58	16.37	16.90	17.30	17.02	16.32
24	15.38	16.64	16.40	15.92	14.62	13.72	14.64	16.39	16.92	17.33	16.97	16.32
25	15.50	16.63	16.36	15.87	14.63	13.72	14.71	16.43	16.92	17.36	16.94	16.28
26	15.56	16.65	16.45	15.83	14.55	13.72	14.78	16.46	16.92	17.38	16.86	16.32
27	15.64	16.75	16.50	15.83	14.48	13.73	14.97	16.50	16.95	17.38	16.79	16.33
28	15.70	16.78	16.53	15.83	14.43	13.73	15.04	16.52	16.97	17.39	16.78	16.34
29	15.78	16.82	16.53	15.77	14.36	13.73	15.12	16.53	16.98	17.38	16.73	16.33
30	15.86	16.86	16.51	15.72	-----	13.73	15.32	16.53	16.99	17.39	16.68	16.32
31	15.90	-----	16.49	15.65	-----	13.74	-----	16.53	-----	17.41	16.63	-----
MAX	15.90	16.86	16.94	16.46	15.60	14.30	15.32	16.53	16.99	17.41	17.49	16.67
MIN	14.46	15.93	16.36	15.65	14.36	13.72	13.75	15.46	16.53	16.99	16.63	16.21
†	18,588	21,670	20,481	17,788	13,678	11,715	16,734	20,609	22,089	23,444	20,930	19,935
‡	+3,988	+3,082	-1,189	-2,693	-4,110	-1,963	+5,019	+3,875	+1,480	+1,355	-2,514	-995

CAL YR 1979. ‡ +9,714

WTR YR 1980. ‡ +5,335

† Contents, in millions of cubic feet, at end of month.

‡ Change in contents, in millions of cubic feet.

01041000 KENNEBEC RIVER AT MOOSEHEAD, ME

LOCATION.--Lat 45°35'08", long 69°43'05", Somerset County, Hydrologic Unit 01030001, on right bank 700 ft (213 m) downstream from dam at East Outlet of Moosehead Lake and 0.2 mi (0.3 km) northwest of Moosehead.

DRAINAGE AREA.--1,266 mi² (3,279 km²).

PERIOD OF RECORD.--October 1919 to current year.

REVISED RECORDS.--WSP 1301: 1928-50 (adjusted monthly runoff). WSP 1901: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 1,015.53 ft (309.534 m) National Geodetic Vertical Datum of 1929. Prior to Oct. 9, 1924, nonrecording gage on railroad bridge 300 ft (91 m) downstream at same datum.

REMARKS.--Records good. Some water diverted down west channel through gates in dam at West Outlet. Flow regulated by Moosehead Lake (station 01040500) and by Brassua Lake and First Roach Pond (Reservoirs in Kennebec River Basin). Several observations of water temperature and specific conductance were made during the year.

AVERAGE DISCHARGE.--61 years, 1,951 ft³/s (55.25 m³/s).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 16,700 ft³/s (473 m³/s) May 3, 1974, gage height, 9.74 ft (2.969 m); minimum, about 62 ft³/s (1.8 m³/s) Apr. 7-15, 1923.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 3,600 ft³/s (102 m³/s) Nov. 15, gage height, 5.20 ft (1.585 m); minimum, 140 ft³/s (3.96 m³/s) July 30, gage height, 2.20 ft (0.671 m).

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	2210	1220	771	1950	2020	1620	263	308	241	626	314	1230
2	2470	875	960	1950	2000	1210	263	308	362	626	314	1230
3	2440	573	1560	1930	1990	1830	263	308	484	626	314	1230
4	2420	346	2000	1920	1970	2230	263	308	529	627	682	1510
5	1290	346	2000	1900	1960	2200	268	308	529	627	1020	3120
6	561	346	2440	1890	1940	2170	268	308	530	631	1930	2440
7	461	345	2710	1890	1920	2150	268	285	529	631	3130	1850
8	399	346	2690	1890	1910	1250	268	241	530	630	2560	1830
9	406	347	2680	2990	1890	728	268	241	530	707	1090	2130
10	413	352	2360	3230	1050	1560	274	241	531	953	727	2360
11	420	352	1950	3190	1360	2110	274	241	529	1030	1880	2340
12	420	353	1950	2540	2300	2090	274	241	529	1040	2670	2190
13	420	1820	1940	1770	2640	2070	274	241	529	1040	2680	1170
14	420	2880	1930	1770	2610	1600	279	241	530	1040	2650	801
15	1030	3260	1920	1740	2580	783	279	241	533	1040	2430	1410
16	1430	2710	1900	1740	1790	595	279	241	611	1040	1520	1810
17	2200	1930	2330	1740	745	1440	279	241	636	1040	1200	1760
18	2750	1930	2660	1730	1050	1460	279	241	636	1040	1470	1810
19	1980	2560	2590	1720	2140	772	285	241	744	1040	1990	2200
20	955	2990	2590	1080	2500	558	285	239	847	1050	2140	1170
21	618	2990	2560	1560	2470	557	285	236	855	1210	2410	795
22	623	2970	2560	2150	1770	1110	285	236	708	1310	2570	1030
23	1150	2970	2530	2130	1300	1470	291	236	296	1310	2560	1110
24	1530	2960	2510	2110	778	1240	291	236	490	1320	2540	1410
25	1020	1870	1690	2100	1630	734	291	239	626	1310	2530	1140
26	530	1140	487	1460	2390	569	291	239	626	1310	2510	687
27	333	280	291	1080	1950	569	297	240	627	947	2500	687
28	333	279	1090	1650	1920	575	297	241	627	1080	2490	688
29	335	282	1960	2060	2310	575	302	239	626	1310	2470	688
30	561	321	1960	2050	---	375	308	237	626	719	2160	687
31	1340	---	1940	2030	---	263	---	239	---	314	1230	---
TOTAL	33468	41943	61509	60940	54883	38463	8391	7882	17026	29224	58681	44513
MEAN	1080	1398	1984	1966	1893	1241	280	254	568	943	1893	1484
MAX	2750	3260	2710	3230	2640	2230	308	308	855	1320	3130	3120
MIN	333	279	291	1080	745	263	263	236	241	314	314	687
CAL YR 1979	TOTAL	720026	MEAN	1973	MAX	12500	MIN	241				
WTR YR 1980	TOTAL	456923	MEAN	1248	MAX	3260	MIN	236				

01042500 KENNEBEC RIVER AT THE FORKS, ME

LOCATION.--Lat 45°20'25", long 69°57'48", Somerset County, Hydrologic Unit 01030001, on right bank at The Forks 0.4 mi (0.6 km) upstream from highway bridge and 0.7 mi (1.1 km) upstream from Dead River.

DRAINAGE AREA.--1,589 mi² (4,116 km²).

PERIOD OF RECORD.--September 1901 to current year.

REVISED RECORDS.--WSP 1231: 1902-04, 1906-08, 1912, 1914, 1919-20(M), 1923(M), 1926(M), 1928-29(M), 1936(M), 1938(M). WSP 1301: 1928-35 (adjusted monthly runoff). WSP 1901: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 569.03 ft (173.440 m) National Geodetic Vertical Datum of 1929. Prior to June 21, 1912, nonrecording gage, and June 21, 1912, to Oct. 17, 1919, water-stage recorder and nonrecording gage at highway bridge 0.4 mi (0.6 km) downstream at different datum.

REMARKS.--Records good except for those for period of no gage-height record Apr. 12 to May 15, which are fair. Flow regulated by Moosehead Lake (station 01040500), Brassua Lake, and Moxie, Indian, and First Roach Ponds (Reservoirs in Kennebec River Basin). Several observations of water temperature and specific conductance were made during the year.

AVERAGE DISCHARGE.--79 years, 2,601 ft³/s (73.66 m³/s).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 24,900 ft³/s (705 m³/s) Dec. 22, 1973, gage height, 12.68 ft (3.865 m); minimum, 85 ft³/s (2.41 m³/s) Sept. 3, 1953, gage height, 1.02 ft (0.311 m).

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 10,000 ft³/s (283 m³/s) Jan. 14, gage height, 6.53 ft (1.990 m); minimum daily, 200 ft³/s (5.66 m³/s) May 14.

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	2270	901	1040	1590	2290	1640	557	950	334	1210	1330	2250
2	2270	1360	584	3450	1820	676	819	1700	1340	669	1290	2820
3	2790	713	2440	2960	560	2590	443	1250	852	1700	1110	2840
4	2190	863	3440	3000	2760	2400	1320	240	734	812	1250	2840
5	1330	952	3960	1870	2680	2810	1340	1300	433	559	1260	3290
6	407	1390	3770	860	2410	2160	925	800	728	275	2250	1650
7	379	1560	3230	4240	2200	1990	886	900	321	1150	2910	367
8	584	1970	1760	3690	2120	1170	653	740	336	1690	2890	2750
9	873	2800	2760	2910	1480	262	882	295	1440	1200	1840	2200
10	1360	579	3300	2890	846	2230	915	600	588	1410	667	2200
11	1310	409	3400	2380	2720	2280	1000	580	1290	1170	2960	2520
12	3360	817	2690	1000	2880	2310	890	230	1240	296	2860	3500
13	651	2210	3190	736	2190	2300	700	330	765	286	3040	1290
14	537	2990	2710	3030	2680	1720	1900	200	326	1640	3570	425
15	2350	3230	2150	2310	2730	1180	1520	1000	668	1650	3160	2930
16	1350	4570	1030	1770	722	317	1180	850	702	1640	1720	1410
17	1410	1350	3830	2410	234	2830	1150	520	637	1840	467	2380
18	1810	989	4390	1790	1700	2560	1380	532	945	1670	2330	1190
19	1910	3970	3540	1140	2640	693	650	1520	1160	496	2360	1490
20	772	3550	2940	759	2680	1110	350	977	707	316	2440	727
21	438	4140	3870	2840	2690	1190	820	886	496	1820	2710	761
22	2290	3510	2660	2700	2310	671	1000	514	759	1790	3210	2280
23	1800	4140	2140	2380	1220	323	1200	597	1170	2750	2350	2320
24	1300	2640	3690	1880	305	1170	250	424	1390	2550	1640	1830
25	1280	972	1930	1740	2110	1180	245	396	928	2470	3800	1240
26	933	4090	2690	1740	2190	1220	240	1220	910	376	3400	2060
27	464	958	965	1180	2730	1230	235	694	856	976	2910	949
28	446	807	1580	3330	2740	1290	575	374	268	1830	2300	958
29	2710	1180	1950	2900	2170	339	580	360	250	829	2130	1330
30	2170	1560	1580	2350	---	758	1180	345	1030	1680	1590	1570
31	1060	---	3540	2680	---	1420	---	338	---	1270	629	---
TOTAL	44804	61170	82749	70505	58807	46019	25785	21662	23603	40020	68373	56367
MEAN	1445	2039	2669	2274	2028	1484	860	699	787	1291	2206	1879
MAX	3360	4570	4390	4240	2880	2830	1900	1700	1440	2750	3800	3500
MIN	379	409	584	736	234	262	235	200	250	275	467	367
CAL YR 1979	TOTAL	1009166	MEAN	2765	MAX	15300	MIN	181				
WTR YR 1980	TOTAL	599864	MEAN	1639	MAX	4570	MIN	200				

01043500 DEAD RIVER NEAR DEAD RIVER, ME

LOCATION.--Lat 45°13'48", long 70°11'58", Somerset County, Hydrologic Unit 01030002, on right bank at foot of Long Falls, in T. 3, R. 4, 0.3 mi (0.5 km) upstream from Black Brook, and 0.5 mi (0.8 km) downstream from Flagstaff Lake Dam.

DRAINAGE AREA.--520 mi² (1,347 km²).

PERIOD OF RECORD.--October 1939 to current year. Monthly discharge only for October to December 1939, published in WSP 1301.

GAGE.--Water-stage recorder. Datum of gage is 1,037.32 ft (316.175 m) National Geodetic Vertical Datum of 1929.

REMARKS.--Records good, except those for winter periods which are fair. Flow regulated by Flagstaff Lake (Reservoirs in Kennebec River Basin). Several observations of water temperature and specific conductance were made during the year.

AVERAGE DISCHARGE.--41 years, 860 ft³/s (24.36 m³/s), 22.46 in/yr (570 mm/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 18,000 ft³/s (510 m³/s) Sept. 12, 1954, gage height, 11.50 ft (3.505 m); no flow part of July 31, 1949, when flow was completely shut off by cofferdam during construction of Flagstaff Lake Dam.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 1,590 ft³/s (45.0 m³/s) Oct. 1, gage height, 6.75 ft (2.057 m); minimum daily, 0.59 ft³/s (0.017 m³/s) Mar. 25, 26.

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1580	1390	1.3	174	969	239	.86	3.4	437	641	3.5	1180
2	1550	960	1.3	174	960	174	.86	3.4	680	631	3.5	431
3	1510	466	1.4	174	943	147	.92	3.2	677	621	3.7	5.4
4	1490	4.2	1.4	174	977	128	.74	2.6	676	609	3.8	129
5	1220	3.2	1.4	174	1010	116	.64	1.6	675	592	4.0	299
6	5.3	2.5	1.5	180	995	108	.74	1.4	673	593	4.2	296
7	4.7	2.0	1.5	367	986	106	.92	1.4	669	569	4.1	294
8	4.4	1.9	1.5	534	969	101	5.3	1.3	666	552	4.2	488
9	3.7	440	1.5	926	952	101	2.1	1.5	667	550	4.8	694
10	3.4	776	1.5	1180	935	98	1.6	1.1	739	581	4.7	672
11	3.0	251	1.5	1170	918	101	1.2	1.0	781	598	4.6	642
12	2.6	1.9	1.5	1160	902	128	.92	1.0	774	589	5.1	796
13	2.6	1.7	1.4	1160	869	191	2.1	12	841	572	4.4	828
14	2.5	1.7	1.4	1150	846	103	1.4	4.7	861	557	4.5	800
15	627	1.6	1.5	1140	830	111	1.4	4.3	845	548	4.4	793
16	1290	1.3	1.4	1130	830	198	1.3	3.3	833	538	4.9	769
17	1270	1.1	1.4	1120	822	101	1.3	2.8	805	562	5.0	729
18	1330	1.1	1.4	1110	799	44	1.7	2.6	786	592	5.1	715
19	1240	1.1	1.4	1090	776	1.2	1.6	1.8	766	573	5.1	680
20	1220	1.0	1.4	1080	814	.86	1.5	1.8	744	558	4.8	653
21	1200	1.0	1.4	1080	814	.69	2.0	2.1	750	590	5.0	627
22	1190	1.0	1.4	1080	746	.74	2.0	1.9	743	689	5.1	827
23	1170	1.0	1.4	1070	681	.86	1.9	2.0	735	738	5.2	937
24	1160	1.0	1.4	1050	614	.92	3.0	1.9	723	726	5.2	872
25	440	1.0	1.3	1040	540	.59	2.8	1.9	710	718	218	811
26	3.9	1.1	1.3	1030	472	.59	2.0	2.0	697	707	354	794
27	3.9	3.2	17	1020	400	.86	7.5	2.0	696	700	351	813
28	3.7	1.6	174	1010	327	1.0	3.4	2.1	684	271	347	734
29	814	1.3	174	1000	264	.74	2.8	2.0	662	3.4	574	669
30	1420	1.3	174	986	---	.69	17	2.1	650	3.3	984	524
31	1410	---	174	977	---	.74	---	2.0	---	3.2	1220	---
TOTAL	23174.7	4322.8	749.8	26710	22960	2305.48	73.50	78.2	21645	16774.9	4156.9	19501.4
MEAN	748	144	24.2	862	792	74.4	2.45	2.52	722	541	134	650
MAX	1580	1390	174	1180	1010	239	17	12	861	738	1220	1180
MIN	2.5	1.0	1.3	174	264	.59	.64	1.0	437	3.2	3.5	5.4
MEAN†	411	775	362	130	23	261	1975	868	326	291	134	295
CFSM†	.79	1.49	.70	.25	.04	.50	3.80	1.67	.63	.56	.26	.57
IN†	.91	1.66	.80	.29	.05	.58	4.24	1.92	.70	.65	.30	.63
CAL YR 1979 TOTAL	292093.50			MEAN 800	MAX 9450	MIN 1.0	MEAN† 923	CFSM†	1.78	IN† 24.10		
WTR YR 1980 TOTAL	142452.69			MEAN 389	MAX 1580	MIN .59	MEAN† 486	CFSM†	.94	IN† 12.73		

† Adjusted for change in contents in Flagstaff Lake.

01046500 KENNEBEC RIVER AT BINGHAM, ME

LOCATION.--Lat 45°03'06", long 69°53'12", Somerset County, Hydrologic Unit 01030003, on right bank at Bingham, 200 ft (60 m) downstream from highway bridge, 0.4 mi (0.6 km) downstream from Austin Stream, and 1.6 mi (2.6 km) downstream from Wyman Dam.

DRAINAGE AREA.--2,720 mi² (7,045 km²).

PERIOD OF RECORD.--June 1907 to June 1910, October 1930 to current year.

Water-quality records: Water years 1966-78.

Chemical analyses: October 1975 to September 1978.

Water temperatures: October 1975 to September 1978.

REVISED RECORDS.--WSP 1271: 1951(M). WSP 1301: 1936(M). WSP 1901: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 330.2 ft (100.64 m) National Geodetic Vertical Datum of 1929. June 1907 to June 1910, nonrecording gage on highway bridge at different datum.

REMARKS.--Records good. Flow regulated by Moosehead Lake (station 01040500), Brassua and Flagstaff Lakes, First Roach, Indian, Moxie, and Wyman Ponds (Reservoirs in Kennebec River Basin). Considerable diurnal fluctuation caused by powerplant above station. Several observations of water temperature and specific conductance were made during the year.

AVERAGE DISCHARGE.--52 years (water years 1908-09, 1931-80), 4,433 ft³/s (125.5 m³/s).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 58,800 ft³/s (1,670 m³/s) Mar. 20, 1936, gage height, 14.44 ft (4.401 m), from rating curve extended above 30,000 ft³/s (850 m³/s) on basis of computations of flow at Wyman Dam plus inflow; minimum daily, 110 ft³/s (3.12 m³/s) Dec. 25, 1947.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 9,180 ft³/s (260 m³/s) Apr. 30, gage height, 8.93 ft (2.722 m); minimum daily, 1,100 ft³/s (31.2 m³/s) Apr. 2.

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	4380	3270	2560	2940	3390	2630	1200	6740	1470	1900	2150	2630
2	3930	3750	2580	3050	3230	3180	1100	5500	1470	2030	1810	2700
3	3640	2790	2920	3030	3300	2580	2060	5610	1610	1990	2060	2680
4	3370	4450	3140	3240	3320	2280	3280	4270	1610	1940	2060	2600
5	3000	3140	3740	3230	3220	2210	4270	2730	1640	2080	2150	2810
6	2820	2920	3290	3330	3230	2140	2080	2060	1550	2060	2300	2350
7	2200	2940	3280	3400	3080	1870	1380	1810	1550	2030	2200	2470
8	1620	2950	3070	3350	3650	1850	1340	1850	1450	1990	2350	2750
9	1600	2890	3040	3500	3200	2000	1580	1780	1660	2080	2130	2750
10	2360	3260	3280	3290	3140	1870	2220	2270	1470	2200	2370	2600
11	2700	3070	3120	3500	3200	2060	6070	2080	1550	1920	2250	2780
12	3050	3170	3250	3470	3110	2100	4760	1850	1610	1810	2270	2550
13	2700	2930	3070	3340	3160	2360	4470	1740	1640	1920	2300	2680
14	2440	3070	3300	3370	3400	2060	5200	1810	1760	1960	2270	2420
15	2390	3410	3200	3320	3040	1880	5380	1450	1870	2010	2270	2320
16	2720	3440	3160	3270	2890	2730	5660	1570	1610	1870	2060	2500
17	3400	3380	3140	3130	2970	1750	5430	1810	2010	2100	2350	2270
18	2810	3170	3180	3500	2840	1780	4820	1780	1810	2010	1830	2320
19	3010	3510	3110	3300	2790	1920	4160	1660	1780	1920	2550	2420
20	2990	3700	3390	3390	2660	1680	2380	1430	1900	1870	2520	2300
21	2940	3520	3310	3320	2490	1560	1580	1430	1700	2130	2400	2370
22	2620	3540	3320	3660	2770	1700	1360	1390	1390	2080	2880	2320
23	3780	3360	3200	3170	2650	1620	1490	1410	1410	1960	2650	2400
24	2840	3090	3460	3650	2620	1530	2400	1410	1640	1700	2470	2350
25	2840	2850	3040	3390	2460	1350	2840	1510	1660	1700	2600	2550
26	1790	3730	2570	3540	2920	1520	3530	1430	1780	2030	2630	2170
27	2350	3560	2100	3320	2690	1350	4810	1370	1780	2060	2700	2420
28	2110	3090	2500	3320	2730	1570	4490	1490	1810	1870	2600	2680
29	2260	2420	2910	3470	2820	1570	4590	1570	1870	1740	2700	2450
30	2840	2500	2910	3400	---	1320	5860	1640	1660	2100	2600	2470
31	2670	---	2960	3450	---	1110	---	1510	---	1700	2650	---
TOTAL	86180	96870	95100	103640	86970	59130	101790	67960	49720	60760	73130	75080
MEAN	2780	3229	3068	3343	2999	1907	3393	2192	1657	1960	2359	2503
MAX	4380	4450	3740	3660	3650	3180	6070	6740	2010	2200	2880	2810
MIN	1600	2420	2100	2940	2460	1110	1100	1370	1390	1700	1810	2170
CAL YR 1979	TOTAL	1722630	MEAN	4720	MAX	38400	MIN	1110				
WTR YR 1980	TOTAL	956330	MEAN	2613	MAX	6740	MIN	1100				

01047000 CARRABASSETT RIVER NEAR NORTH ANSON, ME

LOCATION.--Lat 44°52'09", long 69°57'20", Somerset County, Hydrologic Unit 01030003, on left bank 3.4 mi (5.5 km) upstream from Mill Stream and North Anson.

DRAINAGE AREA.--354 mi² (917 km²).

PERIOD OF RECORD.--November and December 1901, June 1902 to May 1907, August 1925 to current year. Monthly discharge only for some periods, published in WSP 1301.

REVISED RECORDS.--WSP 851: Drainage area. WSP 1231: 1904-07, 1928(M), 1932(M), 1936(M), 1938(M), 1944(M), 1950(M).

GAGE.--Water-stage recorder. Datum of gage is 303.3 ft (92.45 m) National Geodetic Vertical Datum of 1929. Nov. 1, 1901, to May 5, 1907, nonrecording gage 1 mi (2 km) upstream at different datum.

REMARKS.--Records good except those for winter period and period of doubtful gage-height record, Apr. 13 to June 27, which are fair. Some regulation at low flows by mills above station. Several observations of water temperature and specific conductance were made during the year.

AVERAGE DISCHARGE.--59 years (water years 1902-06, 1926-80), 718 ft³/s (20.33 m³/s), 27.54 in/yr (700 mm/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 30,800 ft³/s (872 m³/s) Mar. 19, 1936, gage height, 21.17 ft (6.453 m); maximum gage height, 27.78 ft (8.467 m) Feb. 21, 1978 (ice jam); minimum discharge, 18 ft³/s (0.51 m³/s) Oct. 29, 1929, gage height, 2.02 ft (0.616 m).

EXTREMES FOR CURRENT YEAR.--Peak discharges above base of 6,000 ft³/s (200 m³/s) and maximum (*):

Date	Time	Discharge (ft ³ /s) (m ³ /s)	Gage height (ft) (m)	Date	Time	Discharge (ft ³ /s) (m ³ /s)	Gage height (ft) (m)
Apr. 11	0400	* 8,640 245	10.68 3.255				

Minimum discharge, 52 ft³/s (1.47 m³/s) Sept. 13, 14, gage height, 2.48 ft (0.756 m).

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	105	475	749	260	105	64	1100	2400	245	153	291	72
2	113	430	663	225	100	63	1070	2000	240	146	228	97
3	157	862	576	200	98	62	1100	1700	230	142	192	130
4	550	1770	533	175	95	61	1290	1500	260	134	169	118
5	512	1230	516	160	92	61	1110	1300	285	118	152	97
6	938	956	488	150	89	63	1150	1130	275	118	134	84
7	836	793	480	140	87	67	1020	1030	250	130	120	78
8	858	679	483	130	85	69	952	1090	230	114	111	72
9	731	601	444	125	84	74	912	1090	225	115	246	67
10	611	616	390	120	83	79	2000	1020	220	118	315	66
11	546	712	335	130	82	90	6620	925	210	108	197	65
12	519	623	305	200	81	98	4310	835	195	157	176	59
13	626	563	295	390	80	110	2950	730	180	165	324	53
14	740	524	285	320	78	115	2500	665	165	149	268	85
15	590	491	280	275	77	120	2200	610	155	140	204	216
16	510	456	305	245	76	120	3200	560	150	131	168	194
17	460	413	290	215	75	130	2300	515	145	127	142	133
18	405	398	265	200	74	150	1900	480	140	114	128	114
19	386	366	240	180	72	190	1600	545	130	105	117	122
20	365	348	220	170	71	260	1450	580	120	95	131	112
21	349	365	200	160	70	900	1300	485	245	92	160	104
22	337	382	185	150	69	810	1250	425	410	110	142	104
23	313	369	180	140	74	725	1200	375	310	239	122	127
24	301	363	175	135	72	670	1350	350	255	300	108	232
25	1120	358	220	130	70	640	1350	330	220	247	96	170
26	827	359	1000	125	69	620	1300	320	190	190	88	193
27	639	1410	910	120	67	610	1380	305	210	171	84	325
28	530	1280	610	120	66	580	1320	290	280	296	81	249
29	528	1050	465	120	65	750	1200	275	199	259	76	192
30	602	872	370	115	---	1300	2400	265	166	327	74	162
31	533	---	305	110	---	1300	---	255	---	372	72	---
TOTAL	16637	20114	12762	5435	2306	10951	54784	24380	6535	5182	4916	3892
MEAN	537	670	412	175	79.5	353	1826	786	218	167	159	130
MAX	1120	1770	1000	390	105	1300	6620	2400	410	372	324	325
MIN	105	348	175	110	65	61	912	255	120	92	72	53
CFSM	1.52	1.89	1.16	.49	.23	1.00	5.16	2.22	.62	.47	.45	.37
IN.	1.75	2.11	1.34	.57	.24	1.15	5.76	2.56	.69	.54	.52	.41

CAL YR 1979	TOTAL	306978	MEAN	941	MAX	18600	MIN	85	CFSM	2.38	IN	32.26
WTR YR 1980	TOTAL	167894	MEAN	459	MAX	6620	MIN	53	CFSM	1.30	IN	17.64

01G47730 WILSON STREAM AT EAST WILTON, ME

LOCATION.--Lat 44°36'55", long 70°11'42", Franklin County, Hydrologic Unit 01030003, on left bank 0.1 mi (0.2 km) upstream from railroad bridge in East Wilton, and 1.5 mi (2.4 km) downstream from Varnum Stream.

DRAINAGE AREA.--45.9 mi² (118.9 km²).

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

REVISED RECORDS.--WDR ME-79-1: 1978(M).

GAGE.--Water-stage recorder. Datum of gage is 400.00 ft (121.920 m) National Geodetic Vertical Datum of 1929.

REMARKS.--Records good except those for winter period, which are fair. Flow regulated by Wilson Pond 3.7 mi (6.0 km) upstream. Several observations of water temperature and specific conductance were made during the year.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 3,080 ft³/s (87.2 m³/s) Apr. 28, 1978, gage height, 14.66 ft (4.468 m); minimum daily, 3.6 ft³/s (0.10 m³/s) Oct. 12, 1978.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 2,430 ft³/s (68.8 m³/s) Apr. 10, gage height, 13.92 ft (4.243 m); minimum daily, 4.7 ft³/s (0.13 m³/s) Sept. 12, 13.

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	7.2	36	82	36	18	11	170	311	10	7.3	38	6.4
2	9.3	33	72	30	18	10	155	245	12	8.5	34	7.7
3	11	170	57	27	17	10	152	190	14	9.8	27	14
4	55	209	52	24	17	10	149	149	17	8.2	21	7.6
5	20	140	48	21	16	9.9	160	125	15	7.3	16	6.3
6	50	101	46	19	16	9.8	148	110	13	7.0	13	5.9
7	29	80	56	17	16	9.9	120	118	12	5.5	12	5.3
8	87	66	55	16	16	10	106	165	12	5.6	9.4	5.1
9	57	57	48	15	15	11	102	149	13	5.8	10	4.9
10	69	85	37	15	15	11	1120	128	11	5.2	7.6	5.2
11	81	78	35	17	15	34	1400	108	11	6.0	6.9	4.9
12	70	64	36	61	14	27	580	97	9.9	9.2	7.9	4.7
13	88	55	38	74	14	24	352	85	9.2	6.7	8.4	4.7
14	77	51	37	53	12	21	256	70	8.6	5.7	7.7	14
15	61	46	36	40	10	20	323	65	8.2	6.0	7.2	23
16	53	41	35	34	9.8	20	319	50	15	6.6	6.4	11
17	45	35	45	31	9.7	20	222	25	13	6.5	5.9	8.3
18	43	34	80	29	9.6	120	169	24	11	6.1	5.7	8.5
19	41	31	67	28	9.5	85	142	30	7.7	5.3	6.7	7.7
20	41	40	33	27	9.4	66	125	26	8.1	5.2	9.0	6.9
21	41	41	23	26	9.7	51	133	23	59	5.8	8.1	6.8
22	82	38	21	25	10	42	119	20	48	13	6.6	7.2
23	65	38	22	24	11	78	163	19	49	35	5.9	7.4
24	54	36	27	23	10	79	153	18	35	18	5.6	6.7
25	100	36	173	22	10	57	134	16	25	13	5.5	6.4
26	77	83	168	21	9.8	63	150	15	19	11	5.9	23
27	58	335	116	21	12	76	163	15	15	16	5.7	16
28	46	215	79	20	11	74	140	13	11	19	6.2	11
29	54	148	60	20	11	82	191	11	8.6	22	5.6	8.6
30	46	106	50	19	---	215	540	10	7.7	56	5.5	7.9
31	40	---	42	19	---	200	---	9.7	---	64	6.1	---
TOTAL	1657.5	2528	1776	854	371.5	1556.6	8156	2439.7	508.0	406.3	326.5	263.1
MFAN	53.5	84.3	57.3	27.5	12.8	50.2	272	78.7	16.9	13.1	10.5	8.77
MAX	100	335	173	74	18	215	1400	311	59	64	38	23
MIN	7.2	31	21	15	9.4	9.8	102	9.7	7.7	5.2	5.5	4.7
CFSM	1.17	1.84	1.25	.60	.28	1.09	5.43	1.72	.37	.29	.23	.19
IN.	1.34	2.05	1.44	.69	.30	1.26	6.61	1.98	.41	.33	.26	.21
CAL YR 1979 TOTAL	38967.2		MEAN	107	MAX	2300	MIN	6.2	CFSM	2.33	IN	31.58
WTR YR 1980 TOTAL	20843.2		MEAN	56.9	MAX	1400	MIN	4.7	CFSM	1.24	IN	16.89

01049000 SEBASTICOOK RIVER NEAR PITTSFIELD, ME

LOCATION.--Lat 44°43'00", long 69°24'56", Somerset County, Hydrologic Unit 01030003, on right bank 1.7 mi (2.7 km) upstream from Twentyfivemile Stream and 5.0 mi (8.0 km) south of Pittsfield.

DRAINAGE AREA.--579 mi² (1,500 km²).

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

REVISED RECORDS.--WSP 1271: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 133.9 ft (40.81 m) National Geodetic Vertical Datum of 1929.

REMARKS.--Records good except those for winter period, which are fair. Flow regulated by dam 0.4 mi (0.6 km) upstream, and by Great Moose and Sebasticook Lakes and Plymouth Pond, combined capacity about 2,345,000,000 ft³ (66,410,000 m³). Several observations of water temperature and specific conductance were made during the year.

AVERAGE DISCHARGE.--51 years (water years 1930-80), 958 ft³/s (27.13 m³/s).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 14,400 ft³/s (408 m³/s) Mar. 22, 1936, gage height, 13.18 ft (4.017 m); minimum daily, 4.5 ft³/s (0.13 m³/s) Nov. 10, 1956.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 3,530 ft³/s (100 m³/s) Apr. 17, gage height, 6.11 ft (1.862 m); minimum daily, 75 ft³/s (2.12 m³/s) Feb. 29, Mar. 3-7.

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	214	997	1080	367	130	76	2090	2380	281	214	363	127
2	259	1020	1020	326	120	76	2160	2630	272	198	340	134
3	265	1380	952	293	120	75	2150	2700	262	189	314	289
4	402	2260	1020	262	115	75	2060	2610	261	178	314	410
5	489	2630	1130	243	110	75	2050	2430	267	168	290	476
6	568	2710	1140	222	110	75	2060	2210	251	158	263	520
7	683	2580	1070	207	105	75	1980	1950	231	154	247	527
8	1310	2410	926	202	105	76	1850	1820	225	144	230	507
9	1750	2250	818	191	100	78	1660	1880	223	148	249	471
10	2020	2090	748	183	100	80	1580	2000	208	138	286	451
11	2120	1970	719	176	96	90	1930	2060	196	128	273	417
12	2010	1860	690	234	95	105	2450	2000	186	124	279	385
13	1960	1760	642	265	92	105	2750	1880	195	130	279	353
14	1890	1640	568	249	90	105	2870	1710	201	129	219	365
15	1790	1540	537	234	88	110	2930	1550	185	126	247	394
16	1660	1430	537	225	86	105	3220	1400	196	131	244	373
17	1540	1340	642	213	85	100	3500	1260	189	146	230	352
18	1440	1260	594	207	84	300	3410	1080	179	181	211	360
19	1360	1180	562	195	82	800	3050	954	175	301	198	348
20	1250	1100	518	190	82	1140	2590	888	158	238	193	321
21	1190	1080	477	180	82	1250	2260	830	253	160	178	298
22	1120	1020	460	175	81	1280	1950	773	336	157	164	298
23	883	970	444	165	80	1430	1930	674	326	212	153	279
24	628	943	438	160	78	1630	1980	584	308	285	255	277
25	543	926	543	155	78	1850	2000	526	298	299	361	258
26	500	917	875	150	78	1960	1980	473	288	285	350	275
27	466	979	970	145	78	1840	1970	428	278	271	366	315
28	438	1080	787	140	76	1710	1910	395	264	260	225	331
29	455	1130	555	135	75	1660	1840	357	240	245	161	321
30	676	1130	460	135	---	1740	2020	322	222	289	135	302
31	900	---	412	130	---	1950	---	295	---	341	128	---
TOTAL	32781	45582	22334	6354	2701	22021	68180	43049	7154	6127	7745	10522
MEAN	1057	1519	720	205	93.1	710	2273	1389	238	198	250	351
MAX	2120	2710	1140	367	130	1960	3500	2700	336	341	366	527
MIN	216	917	412	130	75	75	1580	295	158	124	128	127
CAL YR 1979	TOTAL	496409.7	MEAN	1360	MAX	6750	MIN	6.2				
WTR YR 1980	TOTAL	274550.0	MEAN	750	MAX	3500	MIN	75				

01049265 KENNEBEC RIVER AT NORTH SIDNEY, ME
(National stream-quality accounting network station)

LOCATION.--Lat 43°28'25", long 69°41'08", Kennebec County, Hydrologic Unit 01030003, on right bank at North Sidney, 5.3 mi (8.5 km) downstream from Sebasticook River, and 11.5 mi (18.5 km) upstream from Cushnoc Dam at Augusta.

DRAINAGE AREA.--5,478 mi² (14,188 km²).

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--October 1978 to current year.

GAGE.--Water-stage recorder. Datum of gage is 14.97 ft (4.563 m) revised, National Geodetic Vertical Datum of 1929.

REMARKS.--Records fair. Flow regulated by Moosehead Lake (station 01040500), Brassua and Flagstaff Lakes, First Roach, Indian, Moxie, and Wyman Ponds (Reservoirs in Kennebec River Basin).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 148,000 ft³/s (4,190 m³/s) Apr. 28, 1979, gage height, 26.40 ft (8.047 m), from rating curve extended above 50,000 ft³/s (1,400 m³/s) on basis of slope-area measurement of peak flow; minimum daily, 2,420 ft³/s (68.5 m³/s) Mar. 10, 1980.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 51,800 ft³/s (1,470 m³/s) Apr. 11, gage height, 16.66 ft (5.078 m); minimum daily, 2,420 ft³/s (68.5 m³/s) Mar. 10.

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	4800	6800	7650	4700	3640	2800	11200	24500	3600	3220	4800	3500
2	4800	7300	7400	4550	3290	2600	10300	20500	3550	2900	4350	3750
3	4800	9400	7350	4500	3380	3000	9840	17900	3400	3430	4100	4050
4	5400	17500	7450	4300	3430	2800	11200	16400	3550	3210	3900	4430
5	6350	14500	7200	4200	3710	2570	13200	12900	3550	3320	3750	4760
6	7500	12000	7150	4200	3650	2950	11700	10700	3250	3170	3800	4680
7	8500	11200	7400	4200	3670	2720	9070	9900	3100	3230	3850	4620
8	9000	10800	7400	4300	3690	3090	8310	9040	2900	2750	3650	4630
9	9200	10300	6600	4200	3610	2660	7840	9570	3050	3240	3950	4600
10	9700	10300	5890	4150	3720	2420	10400	10900	2800	3260	4450	4390
11	10000	10500	5700	4100	3590	2910	43800	11000	2650	3300	4050	4370
12	9800	10400	5600	4400	3700	2620	28600	9640	2600	3270	4040	4260
13	9700	10000	5700	4650	3610	2460	21100	8840	2700	3250	4150	4130
14	9600	8600	5900	5000	3560	3120	19900	8620	2800	3280	3980	4330
15	9100	7450	5800	4650	3560	2890	18900	8770	2850	3260	3960	4470
16	8400	7200	5580	4560	3460	2550	26500	7330	2820	3300	3770	4480
17	8400	7200	5600	4530	3370	2790	21300	7100	3000	3250	3660	4190
18	8100	7300	6000	4540	3410	4050	18000	6860	3150	3150	3610	4270
19	7700	7500	6350	4450	3390	5400	15700	7150	2750	3100	3640	4080
20	7400	7600	7000	4490	3470	6600	13400	6340	2650	3450	3830	4100
21	7100	7700	7100	4120	3300	6800	11100	5900	4310	3200	3810	3890
22	6900	7800	6100	4200	3320	6900	10700	5100	5030	3000	3750	3970
23	6100	7800	5500	4100	3290	7900	10500	4500	4500	3900	3800	4010
24	5500	7100	5200	4000	3200	8800	11300	4500	3900	4000	3900	4030
25	6300	6650	6000	3920	3340	9400	12400	4300	3820	3890	3680	3960
26	6500	6600	7200	4000	3200	9300	11900	4160	3820	3680	3800	4280
27	5400	9000	7530	3960	2990	9110	14300	3600	3920	3510	4000	4550
28	5100	11800	6400	3990	3230	9010	14500	3700	3690	3450	4150	4620
29	5000	9300	5700	3940	3160	9100	13200	3800	3400	3400	3900	4460
30	6700	7900	5240	3870	---	10800	20400	3650	3420	3600	3700	4090
31	6500	---	4950	3860	---	12200	---	3500	---	4250	3600	---
TOTAL	224750	275500	197640	132630	99940	162320	460560	270670	100530	104220	121380	127950
MEAN	7250	9183	6375	4278	3446	5236	15350	8731	3351	3362	3915	4265
MAX	10000	17500	7650	5000	3720	12200	43800	24500	5030	4250	4800	4760
MIN	4800	6600	4950	3860	2990	2420	7840	3500	2600	2750	3600	3500
CAL YR 1979 TOTAL	4074750			MEAN 11160	MAX 118000	MIN 2700						
WTR YR 1980 TOTAL	2278090			MEAN 6224	MAX 43800	MIN 2420						

KENNEBEC RIVER BASIN

01049265 KENNEBEC RIVER AT NORTH SIDNEY, ME--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 1978 to current year.

PERIOD OF DAILY RECORD.--

SPECIFIC CONDUCTANCE: October 1978 to current year.

pH: October 1978 to current year.

WATER TEMPERATURES: October 1978 to current year.

DISSOLVED OXYGEN: October 1978 to current year.

INSTRUMENTATION.--Water-quality monitor since October 1978.

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

EXTREMES FOR PERIOD OF DAILY RECORD.--

SPECIFIC CONDUCTANCE: Maximum, 174 micromhos July 13, 1979; minimum, 31 micromhos Apr. 28, 29, 1979.

pH: Maximum, 7.4 units Jan. 23, June 26, 29, July 13, 1979; minimum, 6.1 units Mar. 26, July 27, 1979.

WATER TEMPERATURES: Maximum, 27.5°C Aug. 8, 1980; minimum, 0.0°C on many days during winter periods.

DISSOLVED OXYGEN: Maximum, 14.6 mg/L Jan. 11, 12, 1979; minimum, 6.0 mg/L Sept. 6, 1979.

EXTREMES FOR CURRENT YEAR.--

SPECIFIC CONDUCTANCE: Maximum, 122 micromhos Mar. 17; minimum, 38 micromhos Apr. 12.

pH: Maximum, 7.2 units May 24, 26-28, Sept. 29, 30; minimum, 6.4 units Aug. 14.

WATER TEMPERATURES: Maximum, 27.5°C Aug. 8; minimum, 0.0°C on many days during winter period.

DISSOLVED OXYGEN: Maximum, 13.7 mg/L Jan. 6; minimum, 6.2 mg/L Aug. 8, 9.

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

DATE	TIME	STREAM- FLOW (CFS)	SPE- CIFIC CON- DUCT- ANCE (MICRO- MHOS)	PH FIELD (UNITS)	TEMPER- ATURE, AIR (DEG C)	TEMPER- ATURE, WATER (DEG C)	TUR- BID- ITY (NTU)	OXYGEN, DIS- SOLVED (MG/L)	OXYGEN, DIS- SOLVED SATUR- ATION	COLI- FORM, FECAL, 0.7 UM-MF (COLS./ 100 ML)	STREP- TOCOCCI FECAL, KF AGAR (COLS./ PER 100 ML)	HARD- NESS (MG/L AS CAC03)
NOV												
06...	1515	12000	68	6.7	8.5	8.0	1.0	11.6	97	360	140	19
27...	1400	9000	78	6.9	9.5	7.5	2.0	11.4	95	340	1200	20
DEC												
17...	1415	5600	85	6.8	~4.0	1.0	3.0	13.0	92	430	1700	22
JAN												
14...	1415	5000	74	6.7	4.0	.5	.50	13.3	92	270	88	17
FEB												
12...	1230	3700	80	6.7	3.0	.0	.50	13.0	89	70	K25	20
MAR												
10...	1130	2420	115	6.7	--	1.0	1.0	12.7	89	190	K24	20
APR												
14...	1445	19900	45	6.6	11.0	5.0	1.2	11.6	91	500	46	14
MAY												
27...	1500	3600	75	7.0	16.0	16.5	.75	9.0	91	48	K4	21
JUN												
19...	1100	2750	86	7.0	22.0	19.5	.50	8.8	95	K750	K32	21
JUL												
17...	1100	3250	85	7.0	27.0	23.0	1.4	7.1	82	160	440	20
AUG												
25...	1330	3680	71	6.8	24.5	23.0	.30	7.8	90	K45	K25	19
SEP												
29...	1400	4460	76	7.1	14.5	15.5	1.5	9.1	90	150	K20	21

DATE	HARD- NESS, NONCAR- BONATE (MG/L CAC03)	CALCIUM DIS- SOLVED (MG/L AS CA)	MAGNE- SIUM, DIS- SOLVED (MG/L AS MG)	SODIUM, DIS- SOLVED (MG/L AS NA)	SODIUM PERCENT	SODIUM AD- SORP- TION RATIO	SODIUM+ POTAS- SIUM, DIS- SOLVED (MG/L AS NA)	POTAS- SIUM, DIS- SOLVED (MG/L AS K)	ALKA- LINITY (MG/L AS CAC03)	SULFATE DIS- SOLVED (MG/L AS SO4)	CHLO- RIDE, DIS- SOLVED (MG/L AS CL)	FLUO- RIDE, DIS- SOLVED (MG/L AS F)
NOV												
06...	11	5.7	1.1	3.6	34	.4	4.5	.9	8	5.9	4.3	.0
27...	4	6.0	1.2	4.6	38	.4	5.4	.8	16	7.7	5.7	.0
DEC												
17...	10	6.7	1.3	5.8	35	.5	6.6	.8	12	7.8	7.4	.0
JAN												
14...	0	5.1	1.1	4.3	34	.5	4.9	.6	21	6.4	5.8	.0
FEB												
12...	4	5.9	1.2	5.6	37	.6	6.2	.6	16	9.1	6.5	.0
MAR												
10...	5	6.2	1.2	9.2	48	.9	10	.8	15	8.1	12	.1
APR												
14...	1	4.1	.8	2.4	26	.3	--	.9	13	5.8	2.8	.0
MAY												
27...	9	6.4	1.3	6.3	38	.6	--	.8	12	5.8	7.7	.0
JUN												
19...	5	6.4	1.1	6.6	40	.6	--	.9	16	7.5	9.7	.1
JUL												
17...	5	6.2	1.1	7.1	42	.7	--	.9	15	6.9	9.9	.1
AUG												
25...	3	5.6	1.2	5.4	37	.5	--	.8	16	5.5	7.9	.1
SEP												
29...	4	6.4	1.2	5.7	36	.5	--	.8	17	6.4	8.0	.1

01049265 KENNEBEC RIVER AT NORTH SIDNEY, ME--Continued

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

DATE	SILICA, DIS- SOLVED (MG/L AS SiO2)	SOLIDS, RESIDUE AT 180 DEG. C DIS- SOLVED (MG/L)	SOLIDS, SUM OF CONSTITUENTS, DIS- SOLVED (MG/L)	SOLIDS, DIS- SOLVED (TONS PER AC-FT)	SOLIDS, DIS- SOLVED (TONS PER DAY)	NITRO- GEN, NO2+NO3 TOTAL (MG/L AS N)	NITRO- GEN, NO2+NO3 DIS- SOLVED (MG/L AS N)	NITRO- GEN, AMMONIA TOTAL (MG/L AS N)	NITRO- GEN, AMMONIA DIS- SOLVED (MG/L AS N)	NITRO- GEN, AMMONIA TOTAL (MG/L AS NH4)	NITRO- GEN, AMMONIA DIS- SOLVED (MG/L AS NH4)	NITRO- GEN, ORGANIC TOTAL (MG/L AS N)
NOV												
06...	4.9	52	32	.07	1690	.16	.17	.060	.010	.07	.01	.53
27...	4.7	55	43	.07	1340	.30	.63	.110	.100	.13	.13	.23
DEC												
17...	4.3	56	42	.08	847	.97	.25	.000	.000	.00	.00	.80
JAN												
14...	4.0	46	41	.06	621	.24	.27	.010	.030	.01	.04	.33
FEB												
12...	4.3	54	44	.07	539	.26	.24	.120	.030	.15	.04	.50
MAR												
10...	4.2	64	52	.09	418	.25	.26	.010	.050	.01	.06	.37
APR												
14...	3.4	48	29	.07	2580	.20	.26	.060	.060	.07	.08	.74
MAY												
27...	2.8	58	39	.08	564	.30	.04	.060	.300	.07	.39	.25
JUN												
19...	2.7	58	45	.08	431	.13	.18	.040	.020	.05	.03	.29
JUL												
17...	2.6	54	45	.07	474	.20	.16	.050	.000	.06	.00	.31
AUG												
25...	2.8	67	40	.09	666	.11	.12	.070	.030	.08	.04	.26
SEP												
29...	2.5	54	42	.07	650	.07	.06	.000	.000	.00	.00	.23
DATE	NITRO- GEN, ORGANIC DIS- SOLVED (MG/L AS N)	NITRO- GEN,AM- MONIA + ORGANIC TOTAL (MG/L AS N)	NITRO- GEN,NH4 + ORG. SUSP. TOTAL (MG/L AS N)	NITRO- GEN,AM- MONIA + ORGANIC DIS. (MG/L AS N)	NITRO- GEN, TOTAL (MG/L AS N)	NITRO- GEN, DIS- SOLVED (MG/L AS N)	NITRO- GEN, TOTAL (MG/L AS NO3)	PHOS- PHORUS, TOTAL (MG/L AS P)	PHOS- PHORUS, TOTAL (MG/L AS P04)	PHOS- PHORUS, DIS- SOLVED (MG/L AS P)	ARSENIC TOTAL (UG/L AS AS)	ARSENIC SUS- PENDED TOTAL (UG/L AS AS)
NOV												
06...	.49	.59	.09	.50	.75	.67	3.3	.020	.06	.010	--	--
27...	.19	.34	.05	.29	.64	.92	2.8	.030	.09	.020	4	2
DEC												
17...	.52	.80	.28	.52	1.8	.77	7.8	.030	.09	.020	--	--
JAN												
14...	.30	.34	.01	.33	.58	.60	2.6	.020	.06	.020	--	--
FEB												
12...	.32	.62	.27	.35	.88	.59	3.9	.020	.06	.010	1	1
MAR												
10...	.27	.38	.06	.32	.63	.58	2.8	.030	.09	.020	--	--
APR												
14...	.28	.80	.46	.34	1.0	.60	4.4	.040	.12	.010	--	--
MAY												
27...	.00	.31	.06	.25	.61	.29	2.7	.050	.15	.020	1	1
JUN												
19...	.24	.33	.07	.26	.46	.44	2.0	.040	.12	.020	--	--
JUL												
17...	.15	.36	.21	.15	.56	.31	2.5	.020	.06	.010	--	--
AUG												
25...	.18	.33	.12	.21	.44	.33	1.9	.030	.09	.020	1	0
SEP												
29...	.24	.23	.00	.24	.30	.30	1.3	.040	.12	.020	--	--

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

[illegible]

01049265 KENNEBEC RIVER AT NORTH SIDNEY, ME--Continued

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

DATE	MANGANESE, DIS-SOLVED (UG/L AS MN)	MERCURY TOTAL RECOVERABLE (UG/L AS HG)	MERCURY SUS-PENDED RECOVERABLE (UG/L AS HG)	MERCURY DIS-SOLVED (UG/L AS HG)	NICKEL, TOTAL RECOVERABLE (UG/L AS NI)	NICKEL, SUS-PENDED RECOVERABLE (UG/L AS NI)	NICKEL, DIS-SOLVED (UG/L AS NI)	SELENIUM, TOTAL (UG/L AS SE)	SELENIUM, SUS-PENDED (UG/L AS SE)	SELENIUM, DIS-SOLVED (UG/L AS SE)	SILVER, TOTAL RECOVERABLE (UG/L AS AG)
NOV 06...	--	--	--	--	--	--	--	--	--	--	--
27...	20	.2	.1	<.1	4	3	1	0	0	0	0
DEC 17...	--	--	--	--	--	--	--	--	--	--	0
JAN 14...	--	--	--	--	--	--	--	--	--	--	--
FEB 12...	20	.1	.0	.1	2	0	2	0	0	0	0
MAR 10...	--	--	--	--	--	--	--	--	--	--	0
APR 14...	--	--	--	--	--	--	--	--	--	--	--
MAY 27...	30	.2	.0	.2	1	1	0	0	0	0	0
JUN 19...	--	--	--	--	--	--	--	--	--	--	0
JUL 17...	--	--	--	--	--	--	--	--	--	--	--
AUG 25...	10	.1	.0	.1	2	2	0	0	0	0	0
SEP 29...	--	--	--	--	--	--	--	--	--	--	0

DATE	SILVER, SUS-PENDED RECOVERABLE (UG/L AS AG)	SILVER, DIS-SOLVED (UG/L AS AG)	ZINC, TOTAL RECOVERABLE (UG/L AS ZN)	ZINC, SUS-PENDED RECOVERABLE (UG/L AS ZN)	ZINC, DIS-SOLVED (UG/L AS ZN)	CARBON, ORGANIC TOTAL (MG/L AS C)	CARBON, ORGANIC DIS-SOLVED (MG/L AS C)	CARBON, ORGANIC SUS-PENDED (MG/L AS C)	SEDI-MENT, SUS-PENDED (MG/L)	SEDI-MENT DIS-CHARGE, SUS-PENDED (T/DAY)	SED. SUSP. SIEVE DIAM. % FINER THAN .062 MM
NOV 06...	--	--	--	--	--	7.2	--	--	13	421	59
27...	0	0	30	10	20	--	369	.3	6	146	100
DEC 17...	--	--	--	--	--	6.4	--	--	7	106	100
JAN 14...	--	--	--	--	--	6.7	--	--	1	13	100
FEB 12...	0	0	10	4	6	--	415	.1	17	170	21
MAR 10...	--	--	--	--	--	7.3	--	--	1	6.5	100
APR 14...	--	--	--	--	--	7.6	--	--	52	2790	90
MAY 27...	0	0	10	3	7	--	27	.5	--	--	--
JUN 19...	--	--	--	--	--	6.6	--	--	3	22	100
JUL 17...	--	--	--	--	--	8.6	--	--	7	61	100
AUG 25...	0	0	30	0	40	--	11	.4	1	9.9	100
SEP 29...	--	--	--	--	--	7.4	--	--	3	36	100

BIOLOGICAL DATA, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

PERIPHYTON

(Sampling method - Polyethylene strip)

DATES OF EXPOSURE	LENGTH OF EXPO- SURE (DAYS)	PERI- PHYTON BIOMASS TOTAL DRY WEIGHT (G/SQ M)	PERI- PHYTON BIOMASS ASH WEIGHT (G/SQ M)	CHLOR-A PERI- PHYTON CHROMO- GRAPHIC FLUOROM. (MG/M ²)	CHLOR-B PERI- PHYTON CHROMO- GRAPHIC FLUOROM. (MG/M ²)	BIOMASS PIGMENT RATIO
MAY 27 TO JUN 19	22	11.1	3.54	8.33	7.00	908
JUN 19 TO JUL 17	28	3.47	1.97	7.18	2.70	209
JUL 17 TO AUG 25	39	3.31	1.89	5.21	3.83	273
AUG 25 TO SEP 29	35	---	---	7.44	2.81	---

01049265 KENNEBEC RIVER AT NORTH SIDNEY, ME--Continued

PHYTOPLANKTON ANALYSES, OCTOBER 1979 TO SEPTEMBER 1980

DATE TIME	NOV 27,79 1400	MAR 10,80 1130	MAY 27,80 1500	JUN 19,80 1100				
TOTAL CELLS/ML	180	190	900	11000				
DIVERSITY: DIVISION	0.9	1.1	1.2	0.8				
..CLASS	0.9	1.1	1.2	0.8				
..ORDER	1.7	1.2	2.0	1.1				
...FAMILY	3.0	2.6	2.7	1.2				
....GENUS	3.2	2.6	3.2	1.3				
ORGANISM	CELLS /ML	PER- CENT	CELLS /ML	PER- CENT	CELLS /ML	PER- CENT	CELLS /ML	PER- CENT
CHLOROPHYTA (GREEN ALGAE)								
..CHLOROPHYCEAE								
...CHLOROCOCCALES								
...MICRACTINIACEAE								
....GOLENKINIA	--	-	--	-	65	7	*	0
....MICRACTINIUM	--	-	--	-	210#	23	100	1
...OOCYSTACEAE								
....ANKISTRODESMUS	5	3	26	13	52	6	120	1
....CHLORELLA	35#	20	--	-	13	1	--	-
....DICTYOSPHAERIUM	--	-	--	-	52	6	*	0
....OOCYSTIS	--	-	--	-	--	-	--	-
....SELENASTRUM	--	-	--	-	--	-	--	-
....TETRAEDRON	--	-	--	-	--	-	--	-
....WESTELLA	--	-	--	-	--	-	--	-
...SCENEDESMACEAE							160	1
....CRUCIGENIA	--	-	--	-	--	-	--	-
....SCENEDESMUS	10	6	--	-	--	-	280	3
....TETRASTRUM	--	-	--	-	52	6	--	-
..TETRASPORALES								
...PALMELLACEAE								
....SPHAEROCYSTIS	--	-	--	-	--	-	*	0
...VOLVOCALES								
...CHLAMYDOMONADACEAE								
....CHLAMYDOMONAS	--	-	13	7	130	14	65	1
...VOLVOCAEAE								
....GONIUM	--	-	--	-	--	-	*	0
..ZYGNEMATALES								
...DESMIDIACEAE								
....COSMARIUM	5	3	--	-	--	-	--	-
CHRYSOPHYTA								
..BACILLARIOPHYCEAE								
...CENTRALES								
...COSCINODISCEACEAE								
....CYCLOTELLA	35#	20	--	-	13	1	160	1
....MELOSIRA	--	-	--	-	170#	19	--	-
...RHIZOSOLENIA								
....RHIZOSOLENIA	5	3	--	-	--	-	--	-
...PENNALES								
...ACHNANTHACEAE								
....ACHNANTHES	--	-	--	-	13	1	--	-
...CYMBELLACEAE								
....CYMBELLA	5	3	39#	20	--	-	--	-
...DIATOMACEAE								
....DIATOMA	--	-	52#	27	--	-	--	-
...FRAGILARIACEAE								
....ASTERIONELLA	10	6	--	-	--	-	250	2
...FRAGILARIA	--	-	--	-	--	-	*	0
....SYNEDRA	5	3	13	7	52	6	130	1
...GOMPHONEMATACEAE								
....GOMPHONEMA	15	9	--	-	--	-	--	-
...NAVICULACEAE								
....NAVICULA	15	9	--	-	--	-	*	0
...NITZSCHIA								
....NITZSCHIA	30#	17	39#	20	26	3	--	-
..CHRYSOPHYCEAE								
...CHRYSOMONADALES								
...MALLOMONADACEAE								
....MALLOMONAS	--	-	--	-	--	-	*	0
CRYPTOPHYTA (CRYPTOMONADS)								
..CRYPTOPHYCEAE								
...CRYPTOMONADALES								
...CRYPTOCHRYSIDACEAE								
....CHROOMONAS	--	-	--	-	--	-	140	1
...CRYPTOMONADACEAE								
....CRYPTOMONAS	--	-	--	-	--	-	65	1
CYANOPHYTA (BLUE-GREEN ALGAE)								
..CYANOPHYCEAE								
...CHROOCOCCALES								
...CHROOCOCCACEAE								
....ANACYSTIS	--	-	13	7	65	7	310	3
...HORMOGONALES								
...OSCILLATORIACEAE								
....OSCILLATORIA	--	-	--	-	--	-	9000#	82

NOTE: # - DOMINANT ORGANISM; EQUAL TO OR GREATER THAN 15%

* - OBSERVED ORGANISM; MAY NOT HAVE BEEN COUNTED; LESS THAN 1/2%

01049265 KENNEBEC RIVER AT NORTH SIDNEY, ME--Continued

PHYTOPLANKTON ANALYSES, OCTOBER 1979 TO SEPTEMBER 1980

DATE TIME	JUL 17.80 1100	AUG 25.80 1330	SEP 29.80 1400
TOTAL CELLS/ML	1400	360	54000
DIVERSITY: DIVISION	1.8	1.6	0.1
..CLASS	1.8	1.6	0.1
...ORDER	2.3	1.9	0.2
....FAMILY	2.6	2.2	0.2
.....GENUS	2.8	2.4	0.2

ORGANISM	CELLS /ML	PER- CENT	CELLS /ML	PER- CENT	CELLS /ML	PER- CENT
CHLOROPHYTA (GREEN ALGAE)						
..CHLOROPHYCEAE						
...CHLOROCOCCALES						
....MICRACTINIACEAE						
.....GOLENKINIA	13	1	--	--	--	--
.....MICRACTINIUM	--	--	--	--	--	--
....OOCYSTACEAE						
.....ANKISTRODESUS	--	--	26	7	*	0
.....CHLORELLA	--	--	--	--	--	--
.....DICTYOSPHAERIUM	150	11	--	--	--	--
....OOCYSTIS	--	--	--	--	*	0
.....SELENASTRUM	13	1	39	11	--	--
....TETRAEDRON	26	2	--	--	--	--
.....WESTELLA	--	--	--	--	--	--
...SCENEDESMACEAE						
....CRUCIGENIA	--	--	52	14	--	--
....SCENEDESMUS	210	14	--	--	*	0
....TETRASTRUM	--	--	--	--	--	--
..TETRASPORALES						
...PALMELLACEAE						
....SPHAEROCYSTIS	--	--	--	--	--	--
..VOLVOCALLES						
...CHLAMYDOMONADACEAE						
....CHLAMYDOMONAS	13	1	26	7	*	0
....VOLVOCACEAE	--	--	--	--	--	--
.....GONIUM	--	--	--	--	--	--
..ZYGNEMATALES						
...DESMIDIACEAE						
....COSMARIUM	--	--	--	--	--	--
CHRYSTOPHYTA						
..BACILLARIOPHYCEAE						
...CENTRALES						
....COSCINODISCAEAE						
.....CYCLOTELLA	64	4	13	4	*	0
.....MELOSIRA	52	4	--	--	--	--
...RHIZOSOLENIACEAE						
....RHIZOSOLENIA	--	--	--	--	--	--
..PENNALES						
...ACHNANTHACEAE						
....ACHNANTHES	--	--	--	--	--	--
...CYMBELLACEAE						
....CYMBELLA	13	1	--	--	--	--
...DIATOMACEAE						
....DIATOMA	--	--	--	--	--	--
...FRAGILARIACEAE						
....ASTERIONELLA	--	--	--	--	--	--
...FRAGILARIA						
....SYNEDRA	--	--	--	--	--	--
...GOMPHONEMACEAE						
....GOMPHONEMA	--	--	--	--	--	--
...NAVICULACEAE						
....NAVICULA	--	--	--	--	--	--
...NITZSCHACEAE						
....NITZSCHIA	13	1	--	--	--	--
..CHRYSTOPHYCEAE						
...CHRYSONOMADALES						
....MALLOMONADACEAE						
.....MALLOMONAS	--	--	--	--	--	--
CRYPTOPHYTA (CRYPTOMONADS)						
..CRYPTOPHYCEAE						
...CRYPTOMONADALES						
....CRYPTOCHRYSIDACEAE						
.....CHROOMONAS	220#	15	52	14	*	0
....CRYPTOMONADACEAE						
.....CRYPTOMONAS	--	--	--	--	--	--
CYANOPHYTA (BLUE-GREEN ALGAE)						
..CYANOPHYCEAE						
...CHROOCOCCALES						
....CHROOCOCCACEAE						
.....ANACYSTIS	500#	35	160#	43	53000#	98
...HORMOGONALES						
....OSCILLATORACEAE						
.....OSCILLATORIA	150	11	--	--	510	1

NOTE: # - DOMINANT ORGANISM; EQUAL TO OR GREATER THAN 15%

* - OBSERVED ORGANISM; MAY NOT HAVE BEEN COUNTED; LESS THAN 1/2%

01049265 KENNEBEC RIVER AT NORTH SIDNEY, ME--Continued

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

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
OCTOBER			NOVEMBER			DECEMBER			JANUARY			
1	---	---	---	76	73	75	71	68	69	76	72	74
2	---	---	---	77	74	75	71	68	70	76	72	74
3	---	---	---	86	71	80	84	71	75	76	73	75
4	---	---	---	78	60	67	81	70	74	77	72	75
5	77	65	69	58	55	56	73	71	72	79	74	77
6	74	68	70	62	59	61	74	72	73	78	76	77
7	77	62	67	63	61	62	77	72	74	78	74	76
8	85	74	79	64	62	63	75	72	74	81	74	78
9	80	70	72	64	63	63	73	71	72	77	72	74
10	72	69	71	69	64	67	74	68	71	75	71	72
11	74	67	71	68	65	66	83	74	78	76	71	73
12	74	71	72	67	65	66	80	72	76	107	80	91
13	75	73	75	67	64	65	80	78	79	81	74	77
14	77	72	75	86	65	73	80	78	79	90	71	77
15	73	70	71	78	66	71	80	77	79	85	71	74
16	74	67	69	73	71	72	84	79	81	76	69	72
17	74	69	71	71	68	70	87	84	84	74	68	71
18	73	71	72	69	65	67	83	74	76	78	71	76
19	73	71	72	77	64	69	77	72	74	79	75	77
20	71	68	70	75	66	68	81	75	79	76	74	75
21	72	68	70	65	63	64	79	75	77	78	72	74
22	77	71	74	63	61	62	78	74	76	78	69	73
23	74	67	70	61	60	61	80	77	79	73	68	70
24	73	62	65	67	60	61	81	76	78	73	66	69
25	74	65	70	66	61	62	84	75	80	70	64	67
26	73	66	70	70	61	63	78	73	76	74	70	72
27	70	67	69	77	69	72	75	64	68	74	71	73
28	73	70	71	68	60	62	67	63	65	74	70	72
29	80	69	75	68	61	63	70	65	66	69	61	64
30	81	78	79	69	68	69	77	70	75	73	65	68
31	80	75	78	---	---	---	77	73	76	73	65	69
MONTH	85	62	72	86	55	67	87	63	75	107	61	74

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
FEBRUARY			MARCH			APRIL			MAY			
1	71	65	68	98	81	91	72	67	70	47	45	47
2	75	68	72	99	95	98	67	64	65	45	44	44
3	75	70	72	---	---	---	67	65	66	47	44	46
4	74	70	73	---	---	---	69	63	65	49	45	47
5	79	71	74	---	---	---	66	61	63	50	48	49
6	77	69	73	---	---	---	61	58	60	52	50	51
7	84	72	78	---	---	---	62	60	61	55	50	52
8	81	71	77	---	---	---	66	60	63	63	54	59
9	79	71	77	---	---	---	68	62	65	66	62	63
10	77	75	76	---	---	---	81	66	74	64	58	61
11	78	70	75	---	---	---	62	39	51	59	57	58
12	79	71	74	---	---	---	40	38	39	58	56	57
13	79	71	75	---	---	---	44	39	42	56	55	55
14	79	70	75	---	---	---	46	43	44	59	56	58
15	81	71	75	---	---	---	52	46	50	59	56	57
16	81	70	77	---	---	---	52	49	50	58	55	56
17	79	75	77	122	103	111	49	47	48	59	56	57
18	80	70	76	108	81	92	47	45	46	63	59	61
19	82	73	77	109	87	98	49	47	48	68	62	64
20	85	75	81	107	75	85	53	50	51	73	63	69
21	86	78	82	98	76	91	57	53	55	74	71	72
22	87	75	80	88	84	86	60	57	58	75	70	73
23	87	75	82	89	82	85	65	60	63	74	71	72
24	87	83	85	87	86	86	66	61	63	74	72	73
25	90	85	86	88	82	111	61	57	59	78	73	76
26	89	78	84	84	79	81	60	57	58	78	76	77
27	92	81	86	84	80	81	59	52	56	79	76	78
28	93	80	85	82	78	81	52	50	51	78	75	76
29	90	80	84	78	74	75	61	50	52	77	73	76
30	---	---	---	78	74	77	59	47	53	75	68	72
31	---	---	---	76	70	73	---	---	---	76	71	74
MONTH	93	65	78	122	70	88	81	38	56	79	44	62

01049265 KENNEBEC RIVER AT NORTH SIDNEY, ME--Continued

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

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
	JUNE			JULY			AUGUST			SEPTEMBER		
1	77	74	75	84	80	81	86	82	84	72	68	70
2	86	78	82	90	84	87	82	74	78	76	69	72
3	91	86	88	87	78	81	81	73	75	75	69	72
4	94	88	91	82	77	79	87	81	83	77	71	74
5	91	89	90	83	77	79	88	85	88	73	69	71
6	89	87	89	79	75	78	90	82	85	77	69	72
7	87	79	83	85	76	79	91	85	88	74	70	72
8	86	80	83	81	76	78	91	83	88	76	67	70
9	89	84	87	82	78	79	83	75	78	73	68	71
10	90	85	87	81	77	79	76	72	74	74	70	72
11	92	90	92	88	82	84	73	71	72	76	72	73
12	92	88	89	---	---	---	75	71	73	83	73	77
13	90	86	88	---	---	---	76	71	73	79	69	74
14	92	90	91	---	---	---	81	72	76	79	72	75
15	92	88	91	---	---	---	82	72	76	75	71	73
16	93	87	91	---	---	---	75	70	72	73	71	72
17	97	93	96	---	---	---	76	73	74	77	70	73
18	94	91	92	---	---	---	77	69	72	76	70	72
19	92	83	88	---	---	---	79	73	75	92	72	81
20	85	81	82	---	---	---	81	76	78	78	74	76
21	90	83	85	---	---	---	82	73	79	79	73	75
22	84	79	82	---	---	---	76	72	74	81	73	77
23	82	76	80	---	---	---	75	71	73	83	79	81
24	81	77	79	84	77	81	74	71	73	83	78	80
25	80	78	79	77	73	74	72	69	71	79	71	74
26	88	80	83	74	72	73	70	67	68	80	70	76
27	89	80	85	75	73	74	70	64	67	74	69	71
28	83	80	81	82	74	77	73	66	70	72	69	71
29	81	77	79	83	78	80	75	72	74	72	68	70
30	82	78	80	84	78	81	76	71	72	74	69	72
31	---	---	---	82	75	79	77	71	73	---	---	---
MONTH	97	74	86	90	72	79	91	64	76	92	67	74
YEAR	122	38	73									

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

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
	OCTOBER			NOVEMBER			DECEMBER			JANUARY		
1	---	---	---	6.8	6.8	6.8	6.8	6.7	6.7	6.8	6.7	6.7
2	---	---	---	6.8	6.8	6.8	6.7	6.7	6.7	6.8	6.7	6.8
3	---	---	---	6.9	6.8	6.9	6.9	6.7	6.8	6.8	6.8	6.8
4	---	---	---	6.9	6.8	6.9	6.8	6.7	6.8	6.8	6.8	6.8
5	6.7	6.6	6.7	6.8	6.8	6.8	6.8	6.8	6.8	6.8	6.7	6.8
6	6.8	6.7	6.7	6.8	6.7	6.7	6.8	6.7	6.8	6.8	6.7	6.7
7	6.9	6.7	6.8	6.7	6.7	6.7	6.8	6.8	6.8	6.7	6.6	6.7
8	6.9	6.8	6.9	6.7	6.7	6.7	6.8	6.8	6.8	6.8	6.7	6.7
9	6.8	6.7	6.8	6.8	6.7	6.7	6.8	6.8	6.8	6.8	6.7	6.7
10	6.8	6.7	6.8	6.8	6.7	6.8	6.8	6.8	6.8	6.8	6.7	6.7
11	6.7	6.7	6.7	6.8	6.8	6.8	6.8	6.8	6.8	6.7	6.7	6.7
12	6.7	6.7	6.7	6.8	6.8	6.8	6.8	6.8	6.8	6.8	6.7	6.8
13	6.7	6.7	6.7	6.8	6.8	6.8	6.8	6.8	6.8	6.8	6.7	6.7
14	6.8	6.7	6.7	6.8	6.8	6.8	6.9	6.8	6.8	6.8	6.7	6.7
15	6.8	6.7	6.8	6.8	6.8	6.8	6.9	6.8	6.8	6.8	6.7	6.7
16	6.8	6.7	6.8	6.8	6.8	6.8	6.8	6.8	6.8	6.8	6.7	6.7
17	6.8	6.7	6.8	6.8	6.8	6.8	6.9	6.8	6.8	6.7	6.7	6.7
18	6.8	6.7	6.8	6.8	6.8	6.8	6.9	6.8	6.9	6.7	6.7	6.7
19	6.8	6.7	6.8	6.9	6.8	6.8	6.9	6.8	6.8	6.7	6.7	6.7
20	6.8	6.7	6.8	6.9	6.8	6.8	6.8	6.8	6.8	6.7	6.7	6.7
21	6.8	6.7	6.7	6.8	6.8	6.8	6.8	6.8	6.8	6.8	6.7	6.7
22	6.7	6.7	6.7	6.8	6.8	6.8	6.8	6.8	6.8	6.8	6.7	6.7
23	6.7	6.7	6.7	6.8	6.8	6.8	6.8	6.8	6.8	6.7	6.7	6.7
24	6.7	6.7	6.7	6.8	6.8	6.8	6.8	6.8	6.8	6.8	6.7	6.8
25	6.8	6.8	6.8	6.8	6.7	6.8	6.9	6.8	6.9	6.7	6.7	6.7
26	6.8	6.8	6.8	6.8	6.7	6.7	6.9	6.7	6.8	6.7	6.7	6.7
27	6.8	6.7	6.8	6.9	6.8	6.9	6.8	6.8	6.8	6.7	6.7	6.7
28	6.8	6.7	6.8	6.8	6.8	6.8	6.8	6.8	6.8	6.7	6.7	6.7
29	6.8	6.7	6.8	6.9	6.8	6.8	6.8	6.8	6.8	6.7	6.6	6.7
30	6.9	6.8	6.8	6.8	6.8	6.8	6.8	6.8	6.8	6.7	6.7	6.7
31	6.8	6.8	6.8	---	---	---	6.8	6.8	6.8	6.7	6.7	6.7
MONTH	6.9	6.6	6.8	6.9	6.7	6.8	6.9	6.7	6.8	6.8	6.6	6.7

KENNEBEC RIVER BASIN

01049265 KENNEBEC RIVER AT NORTH SIDNEY, ME--Continued

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

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

01049265 KENNEBEC RIVER AT NORTH SIDNEY, ME--Continued

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

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
OCTOBER			NOVEMBER			DECEMBER			JANUARY			
1	---	---	---	8.5	8.0	8.0	5.5	5.0	5.5	.5	.0	.5
2	---	---	---	9.0	8.0	8.5	5.0	4.0	4.5	.5	.0	.5
3	---	---	---	9.5	8.5	9.0	4.0	3.0	3.5	.5	.0	.0
4	---	---	---	8.5	7.0	8.0	3.5	3.0	3.0	.5	.0	.0
5	17.0	16.5	16.5	8.5	7.0	8.0	.5	2.5	2.5	.0	.0	.0
6	16.5	16.0	16.5	8.0	5.0	7.0	3.0	2.0	2.5	.0	.0	.0
7	16.0	15.5	15.5	8.0	7.5	7.5	3.5	2.5	3.0	.0	.0	.0
8	15.5	14.0	15.0	7.5	7.0	7.5	3.0	2.0	2.5	.0	.0	.0
9	14.0	12.5	13.0	8.0	7.0	7.5	2.0	1.0	1.5	.0	.0	.0
10	12.5	12.0	12.0	8.5	7.5	8.0	1.5	1.0	1.0	.0	.0	.0
11	12.0	11.0	11.5	8.0	7.5	8.0	1.5	1.0	1.0	.5	.0	.0
12	11.0	10.5	10.5	8.0	7.5	7.5	2.0	1.0	1.5	2.0	.5	1.0
13	11.0	10.5	10.5	7.5	7.0	7.0	2.0	.5	1.5	.5	.0	.0
14	10.0	8.5	9.0	7.0	6.5	7.0	.5	.0	.5	.5	.0	.0
15	9.0	8.0	8.5	7.0	6.0	6.5	.5	.0	.0	1.0	.5	.5
16	9.5	8.5	9.0	6.5	5.0	6.0	1.0	.0	.5	.5	.0	.5
17	9.0	8.5	8.5	5.0	4.5	5.0	1.0	.0	1.0	.5	.0	.5
18	10.0	8.5	9.0	5.5	5.0	5.0	.0	.0	.0	1.0	.5	.5
19	9.5	8.5	9.0	5.0	4.0	4.5	.0	.0	.0	1.0	.5	1.0
20	9.5	8.5	9.0	4.5	4.0	4.5	.0	.0	.0	1.0	.0	.5
21	10.5	9.0	9.5	5.0	4.5	5.0	.5	.0	.0	.5	.0	.0
22	11.5	10.0	10.5	5.0	4.5	4.5	.5	.0	.5	.5	.0	.0
23	12.0	11.0	11.5	5.5	5.0	5.0	.5	.5	.5	.5	.0	.5
24	12.5	12.0	12.5	5.5	5.5	5.5	.5	.5	.5	.5	.0	.0
25	12.0	11.0	11.5	6.5	5.5	6.0	.5	.5	.5	.0	.0	.0
26	11.5	11.0	11.5	7.5	6.5	6.5	.5	.5	.5	.0	.0	.0
27	11.5	11.0	11.0	7.5	7.0	7.0	1.0	.5	.5	.0	.0	.0
28	11.0	10.5	10.5	7.0	6.5	7.0	.5	.0	.5	.0	.0	.0
29	10.5	9.5	10.0	7.0	6.5	6.5	.5	.5	.5	.0	.0	.0
30	9.5	9.0	9.0	6.5	5.5	6.0	.5	.0	.5	.0	.0	.0
31	9.0	8.0	8.5	---	---	---	.5	.0	.5	.0	.0	.0
MONTH	17.0	8.0	11.0	9.5	4.0	6.5	5.5	.0	1.5	2.0	.0	.0
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
FEBRUARY			MARCH			APRIL			MAY			
1	.0	.0	.0	1.0	.0	.5	2.5	1.0	2.0	7.0	6.5	7.0
2	.0	.0	.0	---	---	---	2.5	1.5	2.5	7.5	6.0	7.0
3	.0	.0	.0	---	---	---	3.5	2.0	3.0	8.5	7.0	8.0
4	.0	.0	.0	---	---	---	3.0	2.0	2.5	9.5	7.5	8.5
5	.0	.0	.0	---	---	---	3.0	2.5	2.5	10.0	8.0	9.0
6	.0	.0	.0	---	---	---	3.5	2.0	3.0	11.0	9.5	10.0
7	.0	.0	.0	---	---	---	4.0	2.5	3.0	11.0	10.0	10.5
8	.5	.0	.0	---	---	---	4.0	3.0	3.5	10.0	10.0	10.0
9	.5	.0	.0	---	---	---	4.5	3.5	4.0	10.5	10.0	10.0
10	.5	.0	.0	---	---	---	4.5	4.0	4.0	11.0	10.0	10.5
11	.0	.0	.0	---	---	---	4.0	2.0	3.5	11.0	10.0	10.5
12	.5	.5	.5	---	---	---	3.5	2.0	2.5	12.0	10.0	11.0
13	.5	.0	.5	---	---	---	4.5	3.0	4.0	12.0	11.5	12.0
14	.5	.0	.5	---	---	---	5.0	4.0	4.5	12.5	11.5	12.0
15	1.0	.0	.5	---	---	---	5.5	4.5	5.0	13.0	11.5	12.0
16	.5	.0	.0	---	---	---	5.0	4.0	4.5	14.0	12.5	13.0
17	.0	.0	.0	---	---	---	4.5	3.5	4.0	15.0	13.5	14.0
18	.0	.0	.0	1.5	.5	1.0	4.5	3.0	4.0	14.5	13.5	14.0
19	.0	.0	.0	1.5	.0	.5	5.5	3.5	4.5	15.0	13.5	14.0
20	.5	.0	.5	1.0	.5	.5	6.0	4.5	5.5	16.0	14.0	15.0
21	1.5	.5	1.0	1.5	.5	1.0	7.0	5.5	6.5	15.5	14.5	15.0
22	.5	.0	.5	2.0	1.0	1.5	7.0	5.5	6.5	17.0	14.5	15.5
23	.5	.0	.5	2.0	1.0	1.5	7.0	6.5	6.5	18.0	15.5	16.5
24	.5	.0	.5	1.5	.5	1.0	8.0	6.5	7.5	18.5	16.0	17.0
25	1.5	.0	1.0	1.5	.5	1.0	8.5	7.0	8.0	18.5	16.0	17.0
26	1.5	.0	.5	1.5	.5	1.0	8.5	7.5	7.5	17.5	15.5	16.5
27	.5	.0	.0	1.5	1.0	1.0	8.0	7.5	7.5	16.5	15.0	16.0
28	.5	.0	.5	2.0	.5	1.5	8.5	7.5	8.0	17.5	15.0	16.0
29	.5	.0	.0	2.0	1.0	1.5	8.0	7.5	7.5	18.5	15.0	16.5
30	---	---	---	1.5	1.0	1.5	7.5	7.0	7.0	19.5	15.5	17.5
31	---	---	---	2.0	.5	1.5	---	---	---	18.0	16.5	17.5
MONTH	1.5	.0	.0	2.0	.0	1.0	8.5	1.0	5.0	19.5	6.0	13.0

01049265 KENNEBEC RIVER AT NORTH SIDNEY, ME--Continued

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

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
	JUNE			JULY			AUGUST			SEPTEMBER		
1	18.5	16.5	17.5	22.5	19.5	20.5	25.5	23.5	24.5	24.5	23.0	23.5
2	17.5	16.5	17.0	21.0	20.0	20.5	25.5	24.0	24.5	25.0	23.5	24.0
3	17.0	16.5	16.5	22.5	19.5	21.0	25.0	24.0	24.5	24.5	23.5	24.0
4	17.0	16.0	16.5	24.0	20.5	22.5	26.0	23.5	24.5	24.5	22.5	23.5
5	18.0	16.0	17.0	23.5	21.0	22.0	27.0	24.0	25.5	23.0	22.0	22.5
6	19.5	16.0	17.5	23.0	20.5	21.5	26.5	24.5	25.5	23.5	21.5	22.5
7	20.0	16.5	18.0	23.0	19.5	21.0	26.5	24.5	25.5	23.5	22.0	22.5
8	18.0	17.0	17.5	21.0	18.5	20.0	27.5	25.0	26.0	22.5	20.5	21.5
9	18.0	15.5	16.5	22.5	19.5	21.0	27.0	25.0	26.0	22.0	20.0	20.5
10	17.5	15.5	16.5	23.0	20.0	21.5	25.0	23.5	24.5	21.5	20.0	20.5
11	17.0	15.5	16.5	22.5	20.0	21.0	24.0	23.0	23.5	21.0	19.5	20.0
12	18.5	15.5	16.5	---	---	---	23.0	22.5	23.0	20.5	19.0	19.5
13	19.0	16.0	17.5	---	---	---	24.0	22.0	23.0	20.0	18.5	19.0
14	20.5	16.5	18.0	---	---	---	24.0	22.5	23.0	19.0	18.5	19.0
15	19.5	17.0	18.0	---	---	---	24.5	22.0	23.0	19.0	18.0	18.5
16	20.0	17.5	18.5	---	---	---	22.5	21.5	22.5	18.5	17.5	18.0
17	20.5	17.5	19.0	---	---	---	22.5	20.5	21.5	18.0	17.0	17.5
18	20.5	17.5	18.5	---	---	---	23.5	20.5	22.0	18.0	17.0	17.5
19	21.0	17.5	18.5	---	---	---	22.0	21.0	21.5	18.5	17.0	17.5
20	20.5	17.5	19.0	---	---	---	21.5	20.5	20.5	18.0	17.0	17.5
21	18.5	17.5	18.0	---	---	---	22.5	20.0	21.0	18.5	17.0	18.0
22	20.5	17.5	19.0	---	---	---	23.0	21.0	21.5	18.5	17.5	18.0
23	21.5	19.5	20.5	---	---	---	23.5	21.0	22.0	18.5	16.5	17.5
24	22.5	19.5	20.5	25.0	23.0	24.0	24.0	21.5	22.5	18.0	15.5	17.0
25	23.0	20.0	21.5	25.5	23.0	24.0	23.5	21.5	22.5	17.5	15.5	16.5
26	23.5	20.5	21.5	25.0	23.5	24.0	23.5	21.5	22.5	16.5	15.5	16.0
27	23.0	20.5	21.5	24.5	23.0	24.0	24.0	22.0	23.0	16.0	14.5	15.5
28	23.5	19.5	21.5	25.0	23.0	24.0	24.5	22.5	23.5	15.5	14.5	15.0
29	23.0	20.0	21.5	24.5	23.0	23.5	24.5	22.5	23.5	15.5	14.0	14.5
30	21.5	20.0	21.0	25.0	23.0	23.5	24.5	22.0	23.5	15.0	14.0	14.5
31	---	---	---	25.0	23.0	24.0	24.5	23.0	23.5	---	---	---
MONTH	23.5	15.5	18.5	25.5	18.5	22.5	27.5	20.0	23.5	25.0	14.0	19.0
YEAR	27.5	.0	10.0									

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

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
	OCTOBER			NOVEMBER			DECEMBER			JANUARY		
1	---	---	---	10.6	10.3	10.4	12.0	11.7	11.9	13.3	13.0	13.2
2	---	---	---	10.4	10.1	10.3	12.1	11.8	12.0	13.3	13.1	13.2
3	---	---	---	10.7	9.7	10.2	12.5	12.1	12.3	13.4	13.1	13.3
4	---	---	---	11.0	10.6	10.8	12.4	12.2	12.3	13.6	13.3	13.4
5	8.5	7.9	8.3	11.1	10.8	10.9	12.7	12.3	12.5	13.5	13.2	13.4
6	8.6	8.2	8.4	11.6	11.2	11.4	12.7	12.4	12.6	13.7	13.1	13.4
7	9.1	8.3	8.7	11.4	11.3	11.4	12.7	12.8	12.5	13.5	13.3	13.4
8	9.3	9.0	9.2	11.5	11.3	11.3	12.7	12.5	12.6	13.3	13.1	13.2
9	9.4	9.2	9.3	11.4	11.3	11.3	13.1	12.7	12.9	13.4	13.2	13.3
10	9.7	9.2	9.5	11.3	11.0	11.2	13.0	12.8	12.9	13.5	13.2	13.3
11	10.0	9.6	9.9	11.5	11.1	11.3	12.9	12.7	12.8	13.3	13.1	13.3
12	10.2	9.9	10.1	11.4	11.3	11.3	12.8	12.6	12.8	13.3	12.7	12.9
13	10.1	9.9	10.0	11.5	11.3	11.4	12.9	12.6	12.8	13.5	13.1	13.3
14	10.8	10.2	10.6	11.3	10.8	11.1	13.1	13.0	13.0	13.3	12.9	13.2
15	11.0	10.6	10.8	11.4	10.9	11.2	13.4	13.0	13.3	13.1	12.9	13.0
16	10.7	10.6	10.7	11.3	11.2	11.2	13.2	12.9	13.1	13.3	12.9	13.2
17	10.8	10.6	10.7	11.7	11.3	11.6	13.0	12.8	12.9	13.5	13.2	13.3
18	10.9	10.7	10.8	11.8	11.6	11.7	13.6	12.9	13.3	13.4	12.9	13.2
19	11.0	10.7	10.8	12.0	11.7	11.8	13.5	13.3	13.4	13.1	12.9	13.0
20	10.7	10.6	10.7	11.8	11.7	11.7	13.6	13.5	13.6	13.1	12.9	13.0
21	10.7	10.4	10.6	11.9	11.7	11.8	13.6	13.4	13.5	13.2	12.9	13.0
22	10.4	10.0	10.2	11.9	11.8	11.9	13.4	13.2	13.3	13.3	12.9	13.0
23	10.1	9.4	9.8	11.8	11.6	11.7	13.3	13.2	13.3	13.1	12.7	12.9
24	9.6	9.2	9.4	11.7	11.5	11.6	13.5	13.3	13.4	13.0	12.7	12.8
25	9.9	9.2	9.5	11.5	11.3	11.4	13.4	13.3	13.3	13.2	12.8	12.9
26	10.0	9.7	9.9	11.2	11.1	11.1	13.5	13.3	13.4	13.0	12.7	12.9
27	9.8	9.4	9.7	12.0	10.9	11.5	13.4	13.3	13.3	13.2	13.0	13.1
28	9.5	9.2	9.4	12.0	11.5	11.8	13.5	13.2	13.4	13.1	12.7	12.9
29	9.8	9.3	9.6	11.7	11.5	11.5	13.4	13.1	13.2	13.0	12.7	12.8
30	10.3	9.9	10.2	11.8	11.5	11.7	13.2	13.1	13.1	13.1	12.7	12.9
31	10.6	10.3	10.4	---	---	---	13.3	13.0	13.2	13.1	12.8	12.9
MONTH	11.0	7.9	9.9	12.0	9.7	11.3	13.6	11.7	13.0	13.7	12.7	13.1

01049300 NORTH BRANCH TANNING BROOK NEAR MANCHESTER, ME

LOCATION.--Lat 44°21'00", long 69°51'07", Kennebec County, Hydrologic Unit 01030003, on right bank 28 ft (8.5 m) upstream from culvert under road between U.S. Highway 202 and State Highway 135, 1,800 ft (550 m) upstream from mouth, and 1.8 mi (2.9 km) north of Manchester.

DRAINAGE AREA.--0.93 mi² (2.41 km²).

PERIOD OF RECORD.--November 1963 to current year.

GAGE.--Water-stage recorder and concrete control. Altitude of gage is 210 ft (64.0 m), from topographic map.

REMARKS.--Records fair. Doubtful or no gage-height record Jan. 6 to Feb. 5, May 1 to June 9, and June 21 to Sept. 30. Several observations of water temperature and specific conductance were made during the year.

AVERAGE DISCHARGE.--16 years (water years 1965-80), 2.07 ft³/s (0.059 m³/s), 30.23 in/yr (768 mm/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 195 ft³/s (5.52 m³/s) Dec. 17, 1973, gage height, 3.89 ft (1.186 m); maximum gage height, 5.52 ft (1.682 m) Jan. 22, 1979 (ice jam); minimum discharge, 0.05 ft³/s (0.001 m³/s) Aug. 21, 1970, Aug. 2, 16, 1975.

EXTREMES FOR CURRENT YEAR.--Peak discharges above base of 30 ft³/s (0.85 m³/s) and maximum (*):

Date	Time	Discharge (ft ³ /s) (m ³ /s)	Gage height (ft) (m)	Date	Time	Discharge (ft ³ /s) (m ³ /s)	Gage height (ft) (m)
Nov. 2	1115	31 0.88	4.66 1.420	Apr. 10	1745	32 0.91	4.67 1.423
Mar. 18	1115	* 47 1.33	4.88 1.487	Apr. 30	--	40 1.13	-- --

Minimum discharge not determined; minimum daily, 0.06 ft³/s (0.002 m³/s) Aug. 1, 2.

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	2.6	.76	1.1	.64	.16	.16	1.7	10	.45	.16	.06	.16
2	4.1	18	1.1	.58	.16	.15	3.4	4.1	.42	.20	.06	.75
3	4.0	6.0	1.0	.54	.15	.15	2.8	3.4	.41	.38	.18	.27
4	4.1	2.7	.98	.50	.15	.14	4.2	2.9	.52	.33	.18	.18
5	2.1	1.9	.98	.47	.14	.16	3.1	2.5	.66	.24	.11	.20
6	3.5	1.7	.98	.45	.14	.18	2.1	2.2	.57	.22	.12	.21
7	4.7	1.4	1.8	.43	.14	.19	2.5	2.1	.50	.18	.13	.22
8	4.4	1.3	1.3	.41	.14	.20	3.0	3.0	.45	.16	.14	.22
9	2.4	3.0	.92	.40	.14	.20	3.4	4.0	.59	.22	.18	.21
10	2.1	2.5	.81	.39	.14	.23	16	3.3	.36	.20	.17	.20
11	1.5	1.9	.79	1.0	.14	1.0	8.5	2.8	.33	.18	.19	.18
12	1.6	1.3	.76	1.5	.13	2.1	2.4	2.4	.31	.18	.30	.18
13	1.6	1.5	.78	1.3	.13	.75	2.9	2.0	.27	.18	.20	.38
14	1.1	1.6	.83	1.0	.13	.51	1.0	1.7	.26	.18	.17	.81
15	.92	1.1	1.3	.80	.13	.57	1.7	1.5	.25	.16	.24	.38
16	.81	1.0	2.0	.64	.13	.61	3.8	1.3	.49	.14	.18	.27
17	.78	.98	3.1	.54	.13	.53	1.7	1.2	.52	.14	.11	.27
18	.76	.87	1.5	.47	.13	25	1.2	1.1	.44	.14	.10	.30
19	.72	.81	1.3	.40	.13	10	1.1	1.4	.38	.12	.10	.27
20	.62	1.1	.35	.35	.13	4.0	1.1	1.2	.69	.18	.12	.24
21	.61	1.2	.30	.34	.17	2.9	1.3	1.1	5.0	.42	.11	.24
22	.62	1.6	.23	.28	.15	5.3	1.3	1.0	1.5	.50	.09	.22
23	.55	1.4	.39	.26	.15	6.7	3.1	.90	.75	2.5	.09	.21
24	2.2	1.2	1.0	.24	.14	5.3	2.4	.82	.45	.50	.08	.20
25	1.2	1.2	9.0	.22	.17	4.1	4.8	.78	.27	.20	.08	.46
26	.68	4.1	4.0	.21	.22	3.5	5.0	.70	.20	.14	.10	1.5
27	.82	3.8	1.9	.20	.18	2.8	3.7	.66	.16	.16	.12	.60
28	1.6	2.0	1.3	.19	.17	2.6	3.3	.60	.16	.08	.13	.27
29	1.1	1.4	.99	.18	.16	2.5	12	.56	.15	.12	.14	.24
30	.87	1.2	.84	.17	---	3.4	20	.53	.16	.27	.15	.24
31	.81	---	.71	.17	---	1.5	---	.48	---	.14	.16	---
TOTAL	55.47	70.52	44.34	15.27	4.28	87.43	124.5	62.23	17.67	8.92	4.29	10.08
MEAN	1.79	2.35	1.43	.49	.15	2.82	4.15	2.01	.59	.29	.14	.34
MAX	4.7	18	9.0	1.5	.22	25	20	10	5.0	2.5	.30	1.5
MIN	.55	.76	.23	.17	.13	.14	1.0	.48	.15	.08	.06	.16
CFSM	1.93	2.53	1.54	.53	.16	3.03	4.46	2.16	.63	.31	.15	.37
IN.	2.22	2.82	1.77	.61	.17	3.49	4.97	2.49	.71	.36	.17	.40
CAL YR 1979	TOTAL	1054.97	MEAN 2.90	MAX 39	MIN .09	CFSM 3.12	IN 42.23					
WTP YR 1980	TOTAL	505.00	MEAN 1.38	MAX 25	MIN .06	CFSM 1.48	IN 20.18					

01049373 MILL STREAM AT WINTHROP, ME

LOCATION.--Lat 44°18'24", long 69°58'18", Kennebec County, Hydrologic Unit 01030003, on right bank 500 ft (150 m) downstream from bridge on Main Street, at Winthrop.

DRAINAGE AREA.--32.9 mi² (85.2 km²).

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

GAGE.--Water-stage recorder. Datum of gage is 176.42 ft (53.773 m) National Geodetic Vertical Datum of 1929.

REMARKS.--Records good except for period of no gage-height record Dec. 3 to Jan. 8, which are fair.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 381 ft³/s (10.8 m³/s) Mar. 26, 1979, gage height, 4.25 ft (1.295 m); minimum, 1.0 ft³/s (0.028 m³/s) Dec. 19, 1978, gage height, 0.99 ft (0.0302 m).

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 221 ft³/s (6.26 m³/s) Apr. 16, gage height, 3.32 ft (1.012 m); minimum, 1.3 ft³/s (0.037 m³/s) Sept. 3, gage height, 1.03 ft (0.314 m).

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	7.3	24	54	34	14	9.6	98	180	32	12	10	3.7
2	6.6	24	54	33	14	9.3	94	176	28	9.3	9.8	3.6
3	7.3	38	54	31	14	8.5	92	168	27	9.0	9.4	2.1
4	12	49	52	29	12	8.0	91	159	27	8.7	10	2.2
5	16	49	50	28	11	8.2	94	144	26	8.7	9.8	2.2
6	24	52	50	27	11	8.2	94	131	23	7.5	9.2	3.1
7	31	59	56	29	10	8.0	89	119	23	6.4	9.0	3.7
8	31	59	54	29	10	9.3	87	119	22	6.9	8.7	3.2
9	28	56	52	28	10	10	83	119	16	7.7	8.5	2.8
10	28	58	52	27	10	9.6	118	119	15	7.7	7.7	2.8
11	28	60	50	26	9.6	12	201	114	15	8.0	7.1	2.6
12	28	60	48	28	9.0	11	210	108	15	9.0	5.9	2.7
13	28	56	47	28	8.5	11	203	102	15	9.0	5.3	11
14	28	53	45	25	8.5	14	190	96	16	9.0	5.3	19
15	29	52	45	24	8.5	16	190	89	16	9.0	5.3	12
16	33	48	45	23	9.3	16	210	84	15	9.3	5.3	9.6
17	25	48	48	23	11	16	203	101	13	9.6	5.3	9.3
18	29	47	46	22	9.3	37	190	102	14	10	4.3	9.6
19	29	38	45	22	8.7	61	178	96	16	11	3.6	9.0
20	28	30	42	22	8.7	67	170	88	16	12	3.5	9.0
21	28	37	39	20	8.7	70	164	79	16	12	3.3	9.0
22	26	41	37	20	8.7	70	149	73	16	12	3.3	8.5
23	25	42	35	21	10	74	147	67	15	19	3.3	7.7
24	26	43	35	20	10	82	147	63	15	18	3.3	7.5
25	27	43	45	18	9.6	87	142	58	15	15	3.6	6.8
26	26	44	42	19	9.6	89	140	50	15	13	3.9	7.3
27	25	52	42	18	9.0	92	131	45	16	12	3.9	6.8
28	25	53	39	16	9.0	92	133	41	14	11	3.9	6.8
29	25	53	39	16	9.3	92	131	37	14	10	4.1	5.7
30	26	54	37	15	---	99	172	35	12	11	4.0	5.3
31	25	---	36	14	---	101	---	33	---	11	3.7	---
TOTAL	760.2	1422	1415	735	291.0	1297.7	4341	2995	538	323.8	183.3	194.6
MEAN	24.5	47.4	45.6	23.7	10.0	41.9	145	96.6	17.9	10.4	5.91	6.49
MAX	33	60	56	34	14	101	210	180	32	19	10	19
MIN	6.6	24	35	14	8.5	8.0	83	33	12	6.4	3.3	2.1
CFSM	.75	1.44	1.39	.72	.30	1.27	4.41	2.94	.54	.32	.18	.20
IN.	.86	1.61	1.60	.83	.33	1.47	4.91	3.39	.61	.37	.21	.22
CAL YR 1979	TOTAL	26785.6	MEAN	73.4	MAX	423	MIN	3.0	CFSM	2.23	IN	30.29
WTR YR 1980	TOTAL	14496.6	MEAN	39.6	MAX	210	MIN	2.1	CFSM	1.20	IN	16.39

KENNEBEC RIVER BASIN

01049396 JOCK STREAM AT SOUTH MONMOUTH, ME

LOCATION.--Lat 44°11'04", long 69°59'48", Kennebec County, Hydrologic Unit 01030003, on right bank 100 ft (30 m) upstream from bridge on South Monmouth Road, at South Monmouth.

DRAINAGE AREA.--13.6 mi² (35.2 km²).

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

GAGE.--Water-stage recorder. Datum of gage is 169.00 ft (51.511 m) National Geodetic Vertical Datum of 1929.

REMARKS.--Records fair. Several observations of water temperature and specific conductance were made during the year.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 847 ft³/s (24.0 m³/s) Apr. 28, 1979, gage height, 8.94 ft (2.725 m); maximum gage height, 9.06 ft (2.761 m) Mar. 27, 1978 (ice jam); minimum discharge, 0.45 ft³/s (0.013 m³/s) Aug. 16-18, 27, 1980, gage height, 1.64 ft (0.500 m).

EXTREMES FOR CURRENT YEAR.--Peak discharges above base of 220 ft³/s (6.2 m³/s) and maximum (*):

Date	Time	Discharge (ft ³ /s) (m ³ /s)	Gage height (ft) (m)	Date	Time	Discharge (ft ³ /s) (m ³ /s)	Gage height (ft) (m)
Nov. 3	--	350 9.9	-- --	Apr. 10	2245	432 12.2	6.78 2.067
Mar. 18	1145	* 594 16.8	7.75 2.362	Apr. 30	0215	224 6.34	5.16 1.573

Minimum discharge, 0.45 ft³/s (0.013 m³/s) Aug. 16-18, 27, gage height, 1.64 ft (0.500 m).

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	47	18	18	12	3.5	3.0	26	67	2.1	1.1	1.6	.68
2	66	17	16	10	3.4	2.9	22	47	1.9	1.3	1.6	.68
3	50	300	15	8.3	3.4	2.8	21	36	2.2	3.0	1.6	1.0
4	80	150	14	7.2	3.3	2.7	36	30	3.9	1.5	2.2	1.8
5	48	50	14	6.3	3.2	2.7	48	24	4.4	1.5	1.9	1.8
6	62	35	13	3.2	3.2	2.6	30	22	3.0	1.5	1.9	1.6
7	57	30	20	2.8	3.1	2.7	23	19	2.2	1.5	1.6	1.4
8	74	25	18	3.0	3.1	2.9	21	40	2.1	1.6	1.5	1.1
9	58	48	13	3.0	3.0	3.3	21	48	2.4	1.8	1.5	1.2
10	43	42	12	2.6	3.0	4.9	206	31	1.8	1.5	1.5	2.4
11	35	35	11	2.6	2.9	95	258	24	1.5	4.4	2.4	1.6
12	30	21	11	12	2.9	90	92	22	1.5	5.0	3.2	1.3
13	35	24	12	6.8	2.9	34	62	17	1.5	3.2	1.8	.83
14	30	27	11	4.7	2.9	18	48	15	1.5	1.6	1.0	1.0
15	27	22	8.1	7.0	2.9	15	65	13	1.5	1.5	.61	1.6
16	25	17	9.1	6.5	2.9	9.1	88	11	1.6	1.5	.55	2.2
17	24	16	24	6.1	2.9	7.2	57	9.6	1.5	1.5	.50	2.6
18	23	15	14	5.8	2.9	381	41	8.1	1.5	1.5	.55	6.8
19	22	15	6.8	6.1	2.9	195	36	15	1.5	1.5	.55	17
20	21	17	4.2	6.4	2.9	95	36	11	1.9	1.5	.75	14
21	21	24	3.4	5.8	3.0	57	34	9.6	16	1.5	.83	12
22	20	27	3.4	5.1	3.0	45	30	13	6.4	1.5	2.8	9.6
23	20	23	4.4	4.8	3.1	50	45	10	3.0	1.6	2.8	3.9
24	25	21	7.2	4.5	3.2	42	38	8.6	1.9	2.4	.91	3.0
25	35	21	54	4.3	3.2	35	30	6.4	1.5	1.5	.55	1.9
26	26	58	72	4.2	3.3	32	28	4.7	1.5	1.5	.50	4.4
27	21	69	35	4.1	3.2	32	27	4.2	1.5	1.5	.50	6.4
28	20	35	23	4.0	3.2	30	26	3.9	1.4	1.5	.68	8.1
29	25	23	18	3.8	3.1	30	58	2.8	1.1	1.5	.68	7.2
30	22	19	20	3.7	---	39	161	2.4	1.0	2.2	.55	2.8
31	19	---	15	3.6	---	31	---	2.2	---	1.6	.61	---
TOTAL	1111	1244	519.6	170.3	89.5	1392.8	1714	577.5	76.8	57.8	40.22	121.89
MFAN	35.8	41.5	16.8	5.49	3.09	44.9	57.1	18.6	2.56	1.86	1.30	4.06
MAX	80	300	72	12	3.5	381	258	67	16	5.0	3.2	17
MIN	19	15	3.4	2.6	2.9	2.6	21	2.2	1.0	1.1	.50	.68
CFSM	2.63	3.05	1.24	.40	.23	3.30	4.20	1.37	.19	.14	.10	.30
IN.	3.04	3.40	1.42	.47	.24	3.81	4.69	1.58	.21	.16	.11	.33
CAL YR 1979	TOTAL	16420.70	MEAN	45.0	MAX	682	MIN	1.3	CFSM	3.31	IN	44.91
WTR YR 1980	TOTAL	7115.41	MEAN	19.4	MAX	381	MIN	.50	CFSM	1.43	IN	19.46

01049400 COBBOSSEECONTEE LAKE AT EAST WINTHROP, ME

LOCATION.--Lat 44°18'57", long 69°53'48", Kennebec County, Hydrologic Unit 01030003, in Augusta Water District pumping station on Welch Point, on town road at East Winthrop.

DRAINAGE AREA.--131 mi² (339 km²).

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

GAGE.--Water-stage recorder. Datum of gage is National Geodetic Vertical Datum of 1929.

REMARKS.--Records good except for period of no gage-height record, Feb. 25 to Apr. 14, which are fair.

EXTREMES FOR PERIOD OF RECORD.--Maximum daily gage height, 168.41 ft (51.331 m) Apr. 30, May 1, 1979; minimum daily, 162.90 ft (49.652 m) Nov. 5, 1975.

EXTREMES FOR CURRENT YEAR.--Maximum daily gage height, 167.69 ft (51.112 m) Apr. 12; minimum daily, 164.11 ft (50.021 m) Feb. 15, Mar. 7.

ELEVATION (FEET NGVD), WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	166.93	165.59	164.82	164.57	164.20	164.12	166.56	167.64	167.22	167.17	167.02	166.80
2	167.09	165.49	164.79	164.57	164.19	164.12	166.70	167.63	167.21	167.18	167.01	166.80
3	167.07	165.53	164.77	164.56	164.18	164.12	166.86	167.59	167.22	167.21	167.01	166.85
4	167.14	165.63	164.74	164.56	164.17	164.12	167.03	167.52	167.23	167.21	167.03	166.83
5	167.08	165.60	164.71	164.54	164.17	164.12	167.10	167.51	167.23	167.20	167.04	166.83
6	167.06	165.55	164.68	164.53	164.17	164.12	167.18	167.47	167.24	167.19	167.04	166.82
7	166.96	165.49	164.67	164.52	164.16	164.11	167.20	167.42	167.23	167.17	167.03	166.80
8	166.96	165.43	164.65	164.52	164.15	164.12	167.29	167.42	167.21	167.16	167.02	166.78
9	166.92	165.37	164.62	164.50	164.14	164.13	167.35	167.44	167.21	167.18	167.01	166.76
10	166.89	165.36	164.58	164.49	164.12	164.15	167.42	167.42	167.19	167.17	166.98	166.75
11	166.86	165.34	164.53	164.47	164.12	164.20	167.60	167.39	167.17	167.16	166.96	166.74
12	166.81	165.31	164.51	164.50	164.12	164.22	167.69	167.39	167.15	167.16	166.96	166.72
13	166.78	165.26	164.46	164.49	164.12	164.25	167.68	167.38	167.14	167.15	166.95	166.70
14	166.73	165.21	164.45	164.47	164.12	164.29	167.53	167.37	167.13	167.14	166.94	166.72
15	166.67	165.16	164.42	164.45	164.11	164.31	167.46	167.35	167.12	167.13	166.94	166.74
16	166.61	165.10	164.42	164.43	164.13	164.42	167.42	167.31	167.13	167.13	166.91	166.75
17	166.53	165.02	164.44	164.42	164.17	164.43	167.34	167.30	167.13	167.13	166.89	166.76
18	166.48	164.94	164.43	164.40	164.16	164.68	167.28	167.30	167.12	167.12	166.88	166.77
19	166.42	164.90	164.41	164.39	164.15	164.71	167.30	167.35	167.11	167.11	166.88	166.77
20	166.35	164.87	164.40	164.37	164.14	164.95	167.34	167.36	167.11	167.10	166.88	166.79
21	166.29	164.86	164.38	164.35	164.13	165.06	167.41	167.38	167.20	167.09	166.88	166.79
22	166.25	164.84	164.37	164.32	164.12	165.18	167.43	167.39	167.21	167.09	166.87	166.81
23	166.20	164.83	164.35	164.32	164.14	165.23	167.50	167.39	167.22	167.13	166.87	166.83
24	166.18	164.81	164.36	164.30	164.13	165.38	167.54	167.39	167.23	167.17	166.86	166.83
25	166.18	164.79	164.42	164.28	164.13	165.53	167.52	167.37	167.23	167.17	166.85	166.83
26	166.13	164.80	164.51	164.25	164.13	165.72	167.49	167.36	167.23	167.15	166.84	166.90
27	166.07	164.88	164.56	164.23	164.13	165.85	167.45	167.35	167.22	167.13	166.84	166.94
28	165.97	164.88	164.58	164.22	164.13	166.02	167.43	167.33	167.20	167.10	166.82	166.93
29	165.88	164.87	164.58	164.21	164.13	166.14	167.45	167.32	167.19	167.06	166.82	166.92
30	165.79	164.85	164.58	164.21	---	166.30	167.62	167.29	167.17	167.08	166.81	166.94
31	165.69	---	164.58	164.20	---	166.44	---	167.26	---	167.05	166.81	---
MEAN	166.55	165.15	164.54	164.41	164.14	164.79	167.34	167.40	167.19	167.14	166.92	166.81
MAX	167.14	165.63	164.82	164.57	164.20	166.44	167.69	167.64	167.24	167.21	167.04	166.94
MIN	165.69	164.79	164.35	164.20	164.11	164.11	166.56	167.26	167.11	167.05	166.81	166.70

CAL YR 1979 MEAN 166.55 MAX 168.41 MIN 164.31
WTR YR 1980 MEAN 166.04 MAX 167.69 MIN 164.11

KENNEBEC RIVER BASIN

01049500 COBBOSSEECONTEE STREAM AT GARDINER, ME

LOCATION.--Lat 44°13'44", long 69°46'44", Kennebec County, Hydrologic Unit 01030003, on left bank 0.8 mi (1.3 km) downstream from Gardiner Water District dam, 300 ft (91 m) upstream from Winter Street bridge in Gardiner, and 0.4 mi (0.6 km) upstream from mouth.

DRAINAGE AREA.--217 mi² (562 km²).

PERIOD OF RECORD.--June 1890 to September 1964, October 1976 to current year.

REVISED RECORDS.--WSP 541: 1916-20. WSP 1201: Drainage area. WSP 1231: 1910-15. WSP 1701: 1956-59.

GAGE.--Water-stage recorder. Datum of gage is 20.00 ft (6.096 m) National Geodetic Vertical Datum of 1929. June 16, 1890, to Sept. 30, 1964, nonrecording gage at site 0.8 mi (1.3 km) upstream at different datum.

REMARKS. Records good. Flow regulated by Cobbosseecontee Lake (station 01049400) and several other lakes upstream.

AVERAGE DISCHARGE.--78 years (water years 1891-64, 1977-80), 342 ft³/s (9.69 m³/s).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 5,020 ft³/s (142 m³/s) Mar. 21, 1936; minimum, leakage only when all gates in dam were closed.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 1,780 ft³/s (50.4 m³/s) Apr. 16, gage height, 6.88 ft (2.097 m); minimum daily, 16 ft³/s (0.45 m³/s) Sept. 30.

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	64	578	448	322	195	69	251	1440	185	75	41	33
2	102	586	428	308	195	69	249	1410	176	74	41	34
3	139	786	459	298	190	85	236	1390	176	74	44	35
4	241	1090	491	288	187	67	238	1330	173	75	41	33
5	373	1080	465	275	187	67	240	1200	171	71	39	33
6	544	1030	440	268	187	67	239	1110	171	69	37	33
7	609	978	457	253	187	69	236	1040	171	67	37	32
8	744	921	448	256	187	69	233	1040	168	66	35	30
9	1140	954	428	244	185	70	231	1060	168	66	35	30
10	1360	840	412	238	184	70	766	1040	168	66	33	32
11	1300	823	400	238	182	73	1630	977	165	66	33	32
12	1200	797	388	241	182	74	1710	947	165	66	32	32
13	1180	767	288	238	135	74	1730	918	165	66	30	33
14	985	744	209	232	64	75	1630	874	165	64	29	33
15	725	728	211	232	64	77	1640	421	165	64	29	29
16	715	707	214	232	64	77	1750	205	171	63	33	29
17	705	694	229	229	64	77	1750	205	171	60	30	30
18	681	669	232	229	64	139	1650	211	168	60	30	32
19	657	629	235	226	67	149	1490	218	168	58	30	34
20	641	590	232	226	68	149	1310	215	168	58	33	25
21	617	440	229	223	67	149	1170	215	171	57	35	26
22	590	211	220	220	67	149	1080	215	165	57	36	24
23	566	250	211	220	68	149	1030	208	117	67	40	20
24	555	278	214	214	69	149	1020	205	79	104	39	21
25	555	298	259	217	69	149	727	197	84	77	39	22
26	540	326	326	203	69	187	289	194	80	41	40	23
27	517	420	366	206	69	272	354	197	77	40	37	21
28	504	452	369	206	69	266	421	197	77	40	34	19
29	531	461	366	203	69	255	583	197	77	40	35	17
30	563	457	354	198	---	258	1380	194	77	40	35	16
31	570	---	336	198	---	260	---	194	---	42	32	---
TOTAL	20253	19484	10374	7381	3454	3909	27263	19464	4402	1933	1094	843
MEAN	653	649	335	238	119	126	909	628	147	62.4	35.3	28.1
MAX	1360	1090	491	322	195	272	1750	1440	185	104	44	35
MIN	64	211	209	198	64	67	231	194	77	40	29	16
CAL YR 1979	TOTAL	177289	MEAN	486	MAX	2000	MIN	15				
WTR YR 1980	TOTAL	119854	MEAN	327	MAX	1750	MIN	16				

Reservoirs in Kennebec River Basin

- 01038500 BRASSUA LAKE on Moose River, 4 mi (6 km) southwest of Rockwood, Maine, completed in 1928 for power, has usable capacity of 8,560,000,000 ft³/s (242,400,000 m³/s) between elevations 1,043.0 ft (317.91 m) and 1,073.0 ft (327.05 m). Elevation record furnished by Kennebec Water Power Co.
- 01040000 FIRST ROACH POND on Roach River, at Kokadjo, Maine, used for power, has usable capacity of 938,000,000 ft³ (26,560,000 m³) between gage heights 1.0 ft (0.30 m) and 8.0 ft (2.44 m). Gage-height record furnished by Kennebec Water Power Co.
- 01040500 MOOSEHEAD LAKE on Kennebec River (see p.).
- 01041500 INDIAN POND on Kennebec River, in T. 1, R. 6, Maine, 13 mi (21 km) downstream from east outlet of Moosehead Lake, completed in 1954 for power, has capacity of 830,000,000 ft³ (23,510,000 m³) in normal operating range between elevations 950.0 ft (289.56 m) and 955.0 ft (291.08 m); total capacity of pond, 3,150,000,000 ft³ (89,210,000 m³) below elevation 955.0 ft (291.08 m). Elevation record furnished by Central Maine Power Co.
- 01042000 MOXIE POND on Moxie Stream, 4.8 mi (7.7 km) east of The Forks, Maine, used for power, has usable capacity of 640,000,000 ft³ (18,120,000 m³) between gage heights 6.0 ft (1.83 m) and 14.0 ft (4.27 m). Gage-height record furnished by Kennebec Water Power Co.
- 01043000 FLAGSTAFF LAKE on Dead River, in T. 3, R. 4, Maine, 0.8 mi (1.3 km) upstream from Black Brook, completed in 1950 for power, has usable capacity of 12,050,000,000 ft³ (341,300,000 m³) between elevations 1,110.0 ft (338.33 m) and 1,146.0 ft (349.50 m). Elevation record furnished by Kennebec Water Power Co.
- 01045500 WYMAN POND on Kennebec River, 1.5 mi (2.4 km) upstream from Bingham, Maine, completed in 1930 for power, has capacity of 2,630,000,000 ft³ (74,480,000 m³) in normal operating range between elevations 465.0 ft (141.73 m) and 485.0 ft (147.83 m); total capacity of pond, 9,080,000,000 ft³ (257,100,000 m³) below elevation 485.0 ft (147.83 m). Elevation record furnished by Central Maine Power Co.

MONTHEND CONTENTS, IN MILLIONS OF CUBIC FEET, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

DATE	BRASSUA LAKE	FIRST ROACH POND	INDIAN POND	MOXIE POND	FLAGSTAFF LAKE	WYMAN POND
SEPT. 30, 1979	7113	691	2936	332	2426	8860
OCT. 31	3022	0	2988	210	1524	9110
NOV. 30	962	0	2970	622	3160	8990
DEC. 31	509	0	2970	95	4066	8960
JAN. 31, 1980	107	0	2885	0	2107	8960
FEB. 29	61	0	3024	0	179	8980
MAR. 31	153	0	2834	0	680	8940
APR. 30	3689	664	3258	730	5795	9140
MAY 31	6044	815	3222	730	8112	8720
JUNE 30	6230	856	3240	604	7086	8940
JULY 31	6343	828	3276	613	6417	9060
AUG. 31	5971	828	3276	595	6417	8760
SEPT. 30	4765	450	2970	460	5497	8930

NOTE.--Indian and Wyman Pond contents at 2400 on day shown. All others at 0700 on first day of following month.

ANDROSCOGGIN RIVER BASIN

01052500 DIAMOND RIVER NEAR WENTWORTH LOCATION, NH

LOCATION.--Lat 44°52'40", long 71°03'25", Coos County, Hydrologic Unit 01040001, on left bank 1.0 mi (1.6 km) upstream from mouth and 1.6 mi (2.6 km) north of Wentworth Location.

DRAINAGE AREA.--153 mi² (396 km²).

PERIOD OF RECORD.--July 1941 to current year.
Water-quality records: Water year 1954.

GAGE.--Water-stage recorder. Altitude of gage is 1,275 ft (389 m), from topographic map.

REMARKS.--Records good except those for winter period, which are fair. Several observations of water temperature and specific conductance were made during the year.

AVERAGE DISCHARGE.--39 years, 348 ft³/s (9.855 m³/s), 30.89 in/yr (785 mm/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 8.630 ft³/s (244 m³/s) June 16, 1943, gage height, 10.66 ft (3.249 m), from rating curve extended above 4,300 ft³/s (120 m³/s); maximum gage height, 10.66 ft (3.249 m) June 16, 1943, and Mar. 7, 1979, (ice jam); minimum discharge, 6.8 ft³/s (0.19 m³/s) Aug. 27, 28, 1949, Sept. 1, 1952, gage height, 0.81 ft (0.247 m).

EXTREMES FOR CURRENT YEAR.--Peak discharges above base of 3,600 ft³/s (100 m³/s) and maximums (*):

Date	Time	Discharge (ft ³ /s) (m ³ /s)	Gage height (ft) (m)	Date	Time	Discharge (ft ³ /s) (m ³ /s)	Gage height (ft) (m)
Apr. 11	0200	ice jam	* 6.76 2.060	Apr. 15	2200	* 1900 53.8	5.73 1.747

Minimum discharge, 32 ft³/s (0.91 m³/s) Mar. 4-8, gage height, 1.35 ft (0.411 m).

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	43	196	287	165	69	35	450	959	133	370	150	124
2	47	209	249	150	66	34	415	859	144	229	156	225
3	48	936	195	140	63	33	390	752	174	199	152	229
4	69	980	170	135	60	33	435	648	220	142	170	126
5	60	489	160	130	57	32	255	536	220	108	124	89
6	125	353	196	130	55	32	205	470	180	130	106	77
7	148	293	231	125	53	32	175	680	141	130	111	64
8	102	256	216	125	51	33	175	634	132	99	93	56
9	104	229	120	120	49	33	190	892	217	126	722	50
10	98	271	161	120	48	34	500	1030	193	102	435	50
11	94	298	150	170	46	35	1650	703	166	79	199	50
12	104	244	145	570	44	35	1350	599	148	76	276	54
13	198	207	140	450	43	35	1020	540	130	81	638	52
14	286	189	135	370	42	35	970	494	113	124	306	176
15	192	175	135	300	40	35	1450	443	97	106	215	416
16	159	160	135	250	39	36	1520	391	113	110	168	197
17	135	145	130	220	39	37	812	338	119	99	172	118
18	167	152	125	190	38	40	634	314	97	137	137	292
19	222	116	115	170	37	57	506	515	83	87	130	257
20	171	143	110	155	37	350	670	462	77	65	222	158
21	177	230	105	145	37	600	1490	367	141	92	168	128
22	165	247	100	130	36	460	807	317	257	306	126	124
23	145	289	105	125	36	355	657	281	180	523	102	292
24	382	241	125	115	36	280	828	255	135	577	86	312
25	850	237	550	110	36	215	1200	227	121	295	74	180
26	413	286	880	100	36	166	1930	201	95	180	68	297
27	280	1240	536	94	36	133	1740	188	435	341	65	482
28	223	788	309	89	35	123	1280	174	300	388	87	332
29	203	469	235	83	35	140	1020	160	162	215	81	242
30	220	361	200	78	---	230	897	148	132	186	63	195
31	223	---	180	73	---	495	---	137	---	206	63	---
TOTAL	5853	10429	6630	5327	1299	4223	25621	14714	4855	5908	5665	5444
MEAN	189	348	214	172	44.8	136	854	475	162	191	183	181
MAX	850	1240	880	570	69	600	1930	1030	435	577	722	482
MIN	43	116	100	73	35	32	175	137	77	65	63	50
CFSM	1.24	2.28	1.40	1.12	.29	.89	5.58	3.11	1.06	1.25	1.20	1.18
IN.	1.42	2.54	1.61	1.30	.32	1.03	6.23	3.58	1.18	1.44	1.38	1.32

CAL YR 1979	TOTAL	125436	MEAN	344	MAX	4590	MIN	18	CFSM	2.25	IN	30.50
WTR YR 1980	TOTAL	95968	MEAN	262	MAX	1930	MIN	32	CFSM	1.71	IN	23.33

01053500 ANDROSCOGGIN RIVER AT ERROL, NH

LOCATION.--Lat 44°46'57", long 71°07'46", Coos County, Hydrologic Unit 01040001, on right bank 0.4 mi (0.6 km) downstream from Errol Dam, 0.4 mi (0.6 km) northeast of Errol, and 0.6 mi (1.0 km) upstream from Clear Stream.

DRAINAGE AREA.--1,045 mi² (2,707 km²).

PERIOD OF RECORD.--Discharge: January 1905 to current year. October 1922 to November 1943, monthly discharge only, published in WSP 1301. Prior to 1922, published as "at Errol Dam."
Water-quality records: Water years 1955, 1958-59.

REVISED RECORDS.--WSP 1001: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 1,227.30 ft (374.081 m) National Geodetic Vertical Datum of 1929. Prior to Dec. 8, 1943, nonrecording gage at Errol Dam at datum 5.0 ft (1.52 m) higher.

REMARKS.--Records good. Flow regulated by Rangeley, Mooselookmeguntic, Richardson, Aziscohos, and Umbagog Lakes (Reservoirs in Androscoggin River Basin), combined usable capacity, 28,100,000,000 ft³ (796,000,000 m³), with final regulation at Errol Dam. Several observations of water temperature and specific conductance were made during the year.

AVERAGE DISCHARGE.--75 years, 1,903 ft³/s (53.89 m³/s).

EXTREMES FOR PERIOD OF RECORD.--Maximum daily discharge, 16,100 ft³/s (456 m³/s) May 22, 1969; minimum daily, leakage only at various times when gates in dam were closed.

EXTREMES FOR CURRENT YEAR.--Maximum daily discharge, 2,300 ft³/s (65.1 m³/s) Apr. 16; minimum daily, 536 ft³/s (15.2 m³/s) Apr. 10.

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1490	1530	1540	1590	1840	1660	996	1190	1280	906	1290	1390
2	1460	1500	1510	1610	1800	1660	1160	901	1320	1100	1250	1370
3	1450	1450	1450	1650	1760	1660	1020	809	1260	1190	1260	1180
4	1380	1400	1490	1690	1750	1660	913	1030	1210	1240	1320	1220
5	1380	1290	1610	1680	1710	1630	916	1150	1180	1330	1320	1390
6	1340	1320	1690	1730	1680	1520	1080	1190	1180	1310	1320	1410
7	1340	1340	1700	1770	1680	1650	1170	991	1240	1300	1320	1400
8	1380	1340	1620	1780	1680	1570	1180	801	1270	1340	1350	1410
9	1400	1520	1650	1890	1690	1600	1130	725	1270	1320	1340	1430
10	1410	1390	1640	1890	1700	1620	536	629	1320	1360	1300	1440
11	1400	1330	1700	1860	1700	1610	768	740	1310	1370	1330	1470
12	1390	1310	1660	1790	1700	1620	878	868	1310	1360	1330	1450
13	1390	1310	1700	1800	1690	1680	672	975	1350	1360	1230	1440
14	1360	1350	1740	1680	1680	1640	1450	1040	1340	1370	1260	1410
15	1380	1350	1890	1660	1660	1580	1930	1100	1340	1400	1320	1090
16	1390	1400	1860	1620	1660	1610	2300	1160	1340	1390	1300	1170
17	1400	1400	1780	1620	1660	1640	2030	1210	1350	1390	1300	1340
18	1400	1400	2040	1620	1670	1720	1650	1140	1360	1390	1330	1280
19	1390	1430	2030	1570	1680	1490	1530	889	1380	1380	1350	1260
20	1380	1450	1940	1570	1690	1470	1480	903	1370	1390	1300	1270
21	1400	1450	2290	1560	1690	1500	1350	1060	1300	1400	1330	1310
22	1370	1460	2040	1610	1710	1490	1270	1150	1270	1330	1370	1310
23	1360	1460	1790	1730	1710	1460	1270	1190	1310	1160	1370	1140
24	1340	1510	1690	1780	1700	1410	1130	1200	1370	1300	1370	1130
25	1060	1500	1730	1860	1680	1390	1120	1180	1370	1200	1390	1330
26	1260	1490	1870	1710	1680	1360	1170	1250	1370	1180	1410	1130
27	1350	1380	1670	1700	1690	1360	1150	1320	1370	1210	1430	988
28	1340	1690	1460	1690	1640	1350	1170	1330	1380	1230	1420	1220
29	1380	1520	1470	1700	1660	1230	1180	1320	1390	1250	1430	1330
30	1410	1630	1500	1720	---	1060	1180	1280	1360	1190	1430	1310
31	1390	---	1560	1780	---	920	---	1260	---	1230	1430	---
TOTAL	42570	42900	53310	52910	49240	46820	36779	32981	39470	39876	41500	39018
MEAN	1373	1430	1720	1707	1698	1510	1226	1064	1316	1286	1339	1301
MAX	1490	1690	2290	1890	1840	1720	2300	1330	1390	1400	1430	1470
MIN	1060	1290	1450	1560	1640	920	536	629	1180	906	1230	988
CAL YR 1979	TOTAL	650328	MEAN	1782	MAX	6090	MIN	806				
WTR YR 1980	TOTAL	517374	MEAN	1414	MAX	2300	MIN	536				

ANDROSCOGGIN RIVER BASIN

01054000 ANDROSCOGGIN RIVER NEAR GORHAM, NH

LOCATION.--Lat 44°26'10", long 71°11'27", Coos County, Hydrologic Unit 01040001, on right bank at Pulsifer Rips, 2.2 mi (3.5 km) downstream from Dead River, and 4.0 mi (6.4 km) upstream from Gorham.

DRAINAGE AREA.--1,363 mi² (3,530 km²).

PERIOD OF RECORD.--October 1913 to current year. October 1922 to February 1929, monthly discharge only, published in WSP 1301. Prior to October 1928, published as "at Berlin."

GAGE.--Water-stage recorder. Datum of gage is 832.88 ft (253.862 m) National Geodetic Vertical Datum of 1929. Prior to Sept. 30, 1922, nonrecording gage showing head and tailwater elevations at site 3 mi (5 km) upstream at different datum.

REMARKS.--Records good except those for period of no gage-height record, Mar. 22 to Apr. 25, which are fair. Flow regulated by Rangeley, Mooselookmeguntic, Richardson, Aziscohos, and Umbagog Lakes, combined usable capacity, 28,100,000,000 ft³ (796,000,000 m³), with final regulation at Errol Dam 35 mi (56 km) upstream. Diurnal fluctuation caused by powerplant 0.8 mi (1.3 km) upstream. Several observations of water temperature and specific conductance were made during the year.

AVERAGE DISCHARGE.--67 years, 2,462 ft³/s (69.72 m³/s).

EXTREMES FOR PERIOD OF RECORD.--Maximum daily discharge, 20,000 ft³/s (566 m³/s) June 18, 1917, Apr. 30, 1923; minimum daily, 795 ft³/s (22.5 m³/s) Mar. 15, 1948.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 4,000 ft³/s (113 m³/s) Apr. 16, gage height, unknown; minimum daily, 1,290 ft³/s (36.5 m³/s) July 2.

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1610	1720	1930	1910	1920	1750	1600	2360	1540	1840	1480	1640
2	1640	1850	1940	1970	1950	1800	1830	2300	1580	1290	1800	1780
3	1610	2330	1870	1900	1880	1810	1960	1850	1690	1760	1520	1850
4	1750	2980	1750	1880	1890	1800	1770	1710	1700	1490	1510	1500
5	1620	2240	1850	1890	1880	1800	1550	1800	1670	1560	1480	1500
6	1830	1880	1940	1880	1820	1740	1520	1830	1560	1590	1450	1590
7	1710	1770	2040	1920	1830	1700	1620	2120	1500	1560	1440	1570
8	1630	1800	2040	1970	1820	1820	1700	2040	1560	1540	1440	1550
9	1630	1780	1810	2020	1810	1700	1800	2050	1620	1600	1520	1540
10	1620	1870	1920	2050	1830	1770	3450	2450	1630	1570	1550	1580
11	1630	1850	2020	2100	1830	1780	2550	2000	1610	1570	1450	1580
12	1610	1750	1990	2220	1850	1750	2800	1860	1590	1560	1520	1620
13	1730	1680	2100	2100	1840	1760	2800	1800	1580	1560	1590	1590
14	1720	1670	2080	2050	1820	1870	2850	1780	1570	1570	1500	1720
15	1690	1670	1940	2050	1820	1740	3700	1780	1560	1490	1490	2010
16	1670	1690	2230	1960	1810	1700	3700	1750	1580	1380	1490	1530
17	1640	1650	2120	1930	1780	1790	3350	1730	1580	1400	1440	1520
18	1630	1690	2000	1910	1780	1910	2650	1760	1560	1430	1440	1620
19	1640	1680	2210	1840	1830	1850	2250	1850	1560	1410	1480	1580
20	1620	1720	2160	1820	1840	1770	2200	1660	1560	1390	1540	1470
21	1620	1730	2190	1780	1850	1730	2500	1560	1660	1410	1500	1470
22	1630	1740	2410	1670	1840	1790	2150	1640	1650	1530	1510	1600
23	1640	1820	2180	1940	1870	1820	2050	1630	1580	1720	1510	1870
24	2230	1740	2010	1940	1860	1800	2100	1640	1560	1620	1500	1810
25	1840	1820	2250	1890	1840	1780	2000	1610	1580	1520	1490	1620
26	1700	1920	2940	1910	1820	1750	2660	1550	1560	1300	1510	1910
27	1700	2680	2680	1890	1820	1700	3110	1630	1550	1410	1520	1850
28	1660	2520	2060	1880	1810	1740	2640	1640	1540	1720	1580	1580
29	1670	2330	1940	1840	1750	1800	2370	1630	1560	1580	1560	1640
30	1710	2110	1940	1810	---	1820	2440	1590	1730	1480	1540	1600
31	1640	---	1910	1830	---	1730	---	1560	---	1390	1570	---
TOTAL	52270	57680	64450	59750	53290	55070	71670	56160	47770	47240	46920	49290
MEAN	1686	1923	2079	1927	1838	1776	2389	1812	1592	1524	1514	1643
MAX	2230	2980	2940	2220	1950	1910	3700	2450	1730	1840	1800	2010
MIN	1610	1650	1750	1670	1750	1700	1520	1550	1500	1290	1440	1470
CAL YR 1979	TOTAL	858280	MEAN	2351	MAX	9910	MIN	1370				
WTR YR 1980	TOTAL	661560	MEAN	1808	MAX	3700	MIN	1290				

01054200 WILD RIVER AT GILEAD, ME
(Hydrologic bench-mark station)

LOCATION.--Lat 44°23'26", long 70°58'46", Oxford County, Hydrologic Unit 01040002, on right bank 200 ft (60 m) upstream from highway bridge on U.S. Route 2, 2,000 ft (600 m) upstream from mouth, and 0.4 mi (0.6 km) west of Gilead.

DRAINAGE AREA.--69.5 mi² (180 km²).

WATER-DISCHARGE RECORDS

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

GAGE.--Water-stage recorder. Datum of gage is 683.10 ft (208.209 m) National Geodetic Vertical Datum of 1929. Prior to Oct. 12, 1977, at site 180 ft (60 m) downstream on left bank at same datum.

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

AVERAGE DISCHARGE.--16 years, 179 ft³/s (5.069 m³/s), 34.98 in/yr (888 mm/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 12,500 ft³/s (354 m³/s) Nov. 3, 1966, gage height, 12.49 ft (3.807 m); minimum, 7.6 ft³/s (0.22 m³/s) July 16, 1971, gage height, 1.89 ft (0.576 m).

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood of Oct. 24, 1959, reached a stage of 15.6 ft (4.755 m), from floodmarks; discharge, 18,100 ft³/s (513 m³/s).

EXTREMES FOR CURRENT YEAR.--Peak discharges above base of 1,500 ft³/s (42 m³/s) and maximums (*):

Date	Time	Discharge (ft ³ /s) (m ³ /s)	Gage height (ft) (m)	Date	Time	Discharge (ft ³ /s) (m ³ /s)	Gage height (ft) (m)
Oct. 04	0030	2150 60.9	6.29 1.917	Apr. 10	0730	* 6560 186	9.24 2.816
Oct. 06	--	2950 83.5	unknown	Apr. 15	1245	3100 87.8	7.08 2.158
Nov. 27	0130	4650 132	8.13 2.478	Apr. 29	2115	2250 63.7	6.38 1.945
Jan. 12	0300	ice jam	* 9.79 2.984				

Minimum discharge, 8.9 ft³/s (0.25 m³/s) Sept. 13, gage height, 3.05 ft (0.930 m).

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	26	104	150	100	32	16	220	466	59	56	32	20
2	42	98	132	98	30	15	195	568	60	48	62	29
3	195	647	110	95	29	15	180	371	78	45	33	45
4	590	419	105	94	27	14	220	298	98	34	26	28
5	190	222	100	90	25	14	205	218	94	28	20	19
6	820	169	105	88	24	14	185	220	75	27	37	16
7	510	145	110	86	23	15	170	287	60	24	45	14
8	250	128	90	84	22	15	155	344	57	23	25	12
9	220	114	71	82	21	15	179	253	61	30	18	10
10	200	158	66	80	20	16	3890	198	55	25	14	10
11	300	148	61	120	19	16	1250	173	51	23	13	11
12	225	120	58	600	19	17	637	189	48	30	16	10
13	185	106	55	150	18	17	874	174	44	32	20	9.4
14	350	104	54	130	18	18	483	159	40	24	18	17
15	200	98	53	120	17	19	1480	140	38	21	19	48
16	160	91	52	115	17	20	610	126	43	20	17	30
17	145	86	51	105	17	42	267	117	41	19	14	20
18	130	82	50	95	16	100	199	114	35	19	12	21
19	120	76	49	87	16	290	185	335	32	16	12	22
20	115	74	48	80	16	200	264	213	35	15	20	18
21	110	76	47	74	16	150	384	154	213	15	26	16
22	105	74	48	67	16	130	215	132	120	17	21	15
23	100	74	50	62	17	115	226	117	67	21	16	16
24	98	72	55	57	17	100	300	106	52	21	14	15
25	450	71	380	53	18	98	333	96	43	17	12	14
26	290	665	315	49	17	94	491	84	37	15	10	79
27	220	1700	155	46	17	100	354	78	32	15	9.8	63
28	180	393	130	43	16	105	425	72	29	16	12	34
29	150	250	125	40	16	120	749	67	27	17	14	25
30	130	185	115	37	---	390	895	62	28	29	12	21
31	110	---	105	34	---	290	---	58	---	37	13	---
TOTAL	6916	6749	3095	3061	576	2580	16220	5989	1752	779	632.8	707.4
MFAN	223	225	99.8	98.7	19.9	83.2	541	193	58.4	25.1	20.4	23.6
MAX	820	1700	380	600	32	390	3890	568	213	56	62	79
MIN	26	71	47	34	16	14	155	58	27	15	9.8	9.4
CFSM	3.21	3.24	1.44	1.42	.29	1.20	7.78	2.78	.84	.36	.29	.34
IN.	3.70	3.61	1.66	1.64	.31	1.38	8.68	3.21	.94	.42	.34	.38

CAL YR 1979 TOTAL 84481.0 MEAN 231 MAX 5400 MIN 11 CFSM 3.32 IN 45.22
WTR YR 1980 TOTAL 49057.2 MEAN 134 MAX 3890 MIN 9.4 CFSM 1.93 IN 26.26

01054200 WILD RIVER AT GILEAD, ME--Continued

WATER-QUALITY RECORDS

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

PERIOD OF DAILY RECORD.--

WATER TEMPERATURES: July 1964 to current year.

INSTRUMENTATION.--Temperature recorder.

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

EXTREMES FOR PERIOD OF DAILY RECORD.--

WATER TEMPERATURES: Maximum, 30.0°C Aug. 2, 1975; minimum, 0.0°C on many days during winter periods.

EXTREMES FOR CURRENT YEAR.--

WATER TEMPERATURES: Maximum, 27.5°C Aug. 8; minimum, 0.0°C on many days during winter period.

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

DATE	TIME	STREAM- FLOW, INSTAN- TANEOUS (CFS)	SPE- CIFIC CON- DUCT- ANCE (MICRO- MHOS)	PH FIELD (UNITS)	TEMPER- ATURE, AIR (DEG C)	TEMPER- ATURE, WATER (DEG C)	OXYGEN, DIS- SOLVED (MG/L)	OXYGEN, DIS- SOLVED (PER- CENT SATUR- ATION)	COLI- FORM, TOTAL, IMMED. (COLS. PER 100 ML)	COLI- FORM, FECAL, 0.7 UM-MF (COLS./ 100 ML)	STREP- TOCOCCI FECAL, KF AGAR (COLS. PER 100 ML)	HARD- NESS (MG/L AS CACO3)
NOV 14...	1130	104	22	6.3	9.0	5.0	11.5	93	<1	K1	K2	5
JAN 17...	1200	203	27	6.5	.0	.0	12.4	88	44	<1	<1	7
MAR 17...	1300	436	35	6.4	1.5	.0	12.3	87	K2	<1	<1	7
MAY 30...	1130	62	29	6.1	21.0	13.0	9.1	89	32	K2	K1	6
JUL 15...	1400	20	26	6.5	26.0	19.5	8.2	92	K18	K9	K15	6
SEP 18...	1130	20	22	6.5	14.0	15.0	10.2	104	600	K7	K6	6

DATE	HARD- NESS, NONCAR- BONATE (MG/L CACO3)	CALCIUM DIS- SOLVED (MG/L AS CA)	MAGNE- SIUM, DIS- SOLVED (MG/L AS MG)	SODIUM, DIS- SOLVED (MG/L AS NA)	SODIUM PERCENT	SODIUM AD- SORP- TION RATIO	SODIUM+ POTAS- SIUM DIS- SOLVED (MG/L AS NA)	POTAS- SIUM, DIS- SOLVED (MG/L AS K)	ALKA- LINITY (MG/L AS CACO3)	SULFATE DIS- SOLVED (MG/L AS SO4)	CHLO- RIDE, DIS- SOLVED (MG/L AS CL)	FLUO- RIDE, DIS- SOLVED (MG/L AS F)
NOV 14...	0	1.4	.4	1.3	34	.3	1.6	.3	12	5.8	.8	.1
JAN 17...	0	2.1	.5	3.0	45	.5	3.6	.6	8	3.3	4.2	.3
MAR 17...	0	1.8	.5	1.9	35	.3	2.6	.7	7	4.3	1.0	.1
MAY 30...	4	1.4	.5	1.3	31	.2	--	.5	2	3.7	.7	.1
JUL 15...	3	1.5	.5	1.4	31	.3	--	.7	3	4.2	.7	.1
SEP 18...	6	1.5	.5	1.3	30	.3	--	.5	--	4.5	.4	.1

DATE	SILICA, DIS- SOLVED (MG/L SiO2)	SOLIDS, RESIDUE AT 180 DEG. C DIS- SOLVED (MG/L)	SOLIDS, SUM OF CONSTI- TUENTS, DIS- SOLVED (MG/L)	SOLIDS, DIS- SOLVED (TONS PER AC-FT)	SOLIDS, DIS- SOLVED (TONS PER DAY)	NITRO- GEN, NO2+N03 TOTAL (MG/L AS N)	NITRO- GEN, NO2+N03 DIS- SOLVED (MG/L AS N)	PHOS- PHORUS, TOTAL (MG/L AS P)	PHOS- PHORUS, TOTAL (MG/L AS P04)	PHOS- PHORUS, ORTHOPH OSPHATE DISSOL. (MG/L AS P)	PHOS- PHORUS, ORTHOPH OSPHATE DISSOL. (MG/L AS P04)	ARSENIC TOTAL (UG/L AS AS)
NOV 14...	6.5	22	24	.03	6.77	.05	.15	.010	--	--	--	--
JAN 17...	5.2	30	25	.04	8.10	.23	.22	.010	--	.000	.00	--
MAR 17...	8.5	11	--	.01	12.9	.09	.11	.010	--	.000	.00	1
MAY 30...	5.4	20	15	.03	3.35	.10	.10	.010	.03	.010	.03	--
JUL 15...	6.2	17	17	.02	.92	.06	.08	.000	.00	.000	.00	--
SEP 18...	7.3	31	17	.04	1.67	.13	.15	.010	.03	.000	.00	0

ANDROSCOGGIN RIVER BASIN

01054200 WILD RIVER AT GILEAD, ME--Continued

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

DATE	ARSENIC SUS- PENDED TOTAL (UG/L AS AS)	ARSENIC DIS- SOLVED (UG/L AS AS)	BARIUM, TOTAL RECOV- ERABLE (UG/L AS BA)	BARIUM, SUS- PENDED RECOV- ERABLE (UG/L AS BA)	BARIUM, DIS- SOLVED (UG/L AS BA)	BERYL- LIUM, DIS- SOLVED (UG/L AS BE)	CADMIUM TOTAL RECOV- ERABLE (UG/L AS CD)	CADMIUM SUS- PENDED RECOV- ERABLE (UG/L AS CD)	CADMIUM DIS- SOLVED (UG/L AS CD)	CHRO- MIUM, TOTAL RECOV- ERABLE (UG/L AS CR)	CHRO- MIUM, SUS- PENDED RECOV- ERABLE (UG/L AS CR)	CHRO- MIUM, DIS- SOLVED (UG/L AS CR)
NOV 14...	--	--	--	--	--	--	--	--	--	--	--	--
JAN 17...	--	--	--	--	--	--	--	--	--	--	--	--
MAR 17...	0	1	<50	<40	10	1	--	--	4	<10	9	1
MAY 30...	--	--	--	--	--	--	--	--	--	--	--	--
JUL 15...	--	--	--	--	--	--	--	--	--	--	--	--
SEP 18...	0	0	100	100	5	0	1	0	3	10	9	1

DATE	COBALT, DIS- SOLVED (UG/L AS CO)	COPPER, TOTAL RECOV- ERABLE (UG/L AS CU)	COPPER, SUS- PENDED RECOV- ERABLE (UG/L AS CU)	COPPER, DIS- SOLVED (UG/L AS CU)	IRON, TOTAL RECOV- ERABLE (UG/L AS FE)	IRON, SUS- PENDED RECOV- ERABLE (UG/L AS FE)	IRON, DIS- SOLVED (UG/L AS FE)	LEAD, TOTAL RECOV- ERABLE (UG/L AS PB)	LEAD, SUS- PENDED RECOV- ERABLE (UG/L AS PB)	LEAD, DIS- SOLVED (UG/L AS PB)	LITHIUM DIS- SOLVED (UG/L AS LI)
NOV 14...	--	--	--	--	--	--	--	--	--	--	--
JAN 17...	--	--	--	--	--	--	--	--	--	--	--
MAR 17...	<3	--	--	<10	120	90	34	--	--	20	<4
MAY 30...	--	--	--	--	--	--	--	--	--	--	--
JUL 15...	--	--	--	--	--	--	--	--	--	--	--
SEP 18...	0	2	2	0	130	120	15	4	4	0	0

DATE	MANGA- NESE, TOTAL RECOV- ERABLE (UG/L AS MN)	MANGA- NESE, SUS- PENDED RECOV- ERABLE (UG/L AS MN)	MANGA- NESE, DIS- SOLVED (UG/L AS MN)	MERCURY TOTAL RECOV- ERABLE (UG/L AS HG)	MERCURY SUS- PENDED RECOV- ERABLE (UG/L AS HG)	MERCURY DIS- SOLVED (UG/L AS HG)	MOLYB- DENUM, DIS- SOLVED (UG/L AS MO)	SELE- NIUM, TOTAL RECOV- ERABLE (UG/L AS SE)	SELE- NIUM, SUS- PENDED RECOV- ERABLE (UG/L AS SE)	SELE- NIUM, DIS- SOLVED (UG/L AS SE)	SILVER, TOTAL RECOV- ERABLE (UG/L AS AG)
NOV 14...	--	--	--	--	--	--	--	--	--	--	--
JAN 17...	--	--	--	--	--	--	--	--	--	--	--
MAR 17...	10	6	4	<.1	.0	<.1	<10	0	0	0	0
MAY 30...	--	--	--	--	--	--	--	--	--	--	--
JUL 15...	--	--	--	--	--	--	--	--	--	--	--
SEP 18...	10	7	3	<.1	--	.1	0	0	0	0	0

DATE	SILVER, SUS- PENDED RECOV- ERABLE (UG/L AS AG)	SILVER, DIS- SOLVED (UG/L AS AG)	STRON- TIUM, DIS- SOLVED (UG/L AS SR)	VANA- DIUM, DIS- SOLVED (UG/L AS V)	ZINC, TOTAL RECOV- ERABLE (UG/L AS ZN)	ZINC, SUS- PENDED RECOV- ERABLE (UG/L AS ZN)	ZINC, DIS- SOLVED (UG/L AS ZN)	CYANIDE TOTAL (MG/L AS CN)	SEDI- MENT, SUS- PENDED (MG/L)	SEDI- MENT DIS- CHARGE, SUS- PENDED (T/DAY)	SED. SUSP. DIS- SIEVE DIAM. % FINER THAN .062 MM
NOV 14...	--	--	--	--	--	--	--	--	3	.92	--
JAN 17...	--	--	--	--	--	--	--	--	1	.27	--
MAR 17...	0	0	16	<6.0	30	20	14	.00	1	1.2	--
MAY 30...	--	--	--	--	--	--	--	--	1	.17	100
JUL 15...	--	--	--	--	--	--	--	--	5	.27	100
SEP 18...	0	0	14	.0	20	1	19	.00	6	.32	100

ANDROSCOGGIN RIVER BASIN

01054200 WILD RIVER AT GILEAD, ME--Continued

PESTICIDE ANALYSES, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

DATE	PCB, TOTAL (UG/L)	PCB, TOTAL IN BOT- TOM MA- TERIAL (UG/KG)	NAPH- THA- LENES, POLY- CHLOR. TOTAL (UG/L)	PCN, TOTAL IN BOT- TOM MA- TERIAL (UG/KG)	ALDRIN, TOTAL (UG/L)	ALDRIN, TOTAL IN BOT- TOM MA- TERIAL (UG/KG)	CHLOR- DANE, TOTAL (UG/L)	CHLOR- DANE, TOTAL IN BOT- TOM MA- TERIAL (UG/KG)	DDD, TOTAL (UG/L)	DDD, TOTAL IN BOT- TOM MA- TERIAL (UG/KG)	DDE, TOTAL (UG/L)
SEP 18...	.0	0	.00	.0	.00	.0	.0	0	.00	.0	.00

DATE	DDE, TOTAL IN BOT- TOM MA- TERIAL (UG/KG)	DDT, TOTAL (UG/L)	DI- AZINON, TOTAL (UG/L)	DDT, TOTAL IN BOT- TOM MA- TERIAL (UG/KG)	DI- ELDRIN TOTAL (UG/L)	DI- ELDRIN, TOTAL IN BOT- TOM MA- TERIAL (UG/KG)	ENDO- SULFAN, TOTAL (UG/L)	ENDO- SULFAN, TOTAL IN BOT- TOM MA- TERIAL (UG/KG)	ENDRIN, TOTAL (UG/L)	ENDRIN, TOTAL IN BOT- TOM MA- TERIAL (UG/KG)
SEP 18...	.0	.00	.00	.0	.00	.0	.00	.0	.00	.0

DATE	ETHION, TOTAL (UG/L)	HEPTA- CHLOR, TOTAL (UG/L)	HEPTA- CHLOR, TOTAL IN BOT- TOM MA- TERIAL (UG/KG)	HEPTA- CHLOR EPOXIDE TOTAL (UG/L)	HEPTA- CHLOR EPOXIDE TOT. IN BOTTOM MATL. (UG/KG)	LINDANE TOTAL (UG/L)	LINDANE TOTAL IN BOT- TOM MA- TERIAL (UG/KG)	MALA- THION, TOTAL (UG/L)	METH- OXY- CHLOR, TOTAL (UG/L)	METH- OXY- CHLOR, TOT. IN BOTTOM MATL. (UG/KG)
SEP 18...	.00	.00	.0	.00	.0	.00	.0	.00	.00	.0

DATE	PER- THANE TOTAL (UG/L)	METHYL PARA- THION, TOTAL (UG/L)	METHYL TRI- THION, TOTAL (UG/L)	MIREX, TOTAL (UG/L)	MIREX, TOTAL IN BOT- TOM MA- TERIAL (UG/KG)	PARA- THION, TOTAL (UG/L)	PER- THANE IN BOTTOM MATERIL (UG/KG)	TOX- APHENE, TOTAL (UG/L)	TOXA- PHENE, TOTAL IN BOT- TOM MA- TERIAL (UG/KG)	TOTAL TRI- THION (UG/L)
SEP 18...	.00	.00	.00	.00	.0	.00	.00	0	0	.00

RADIOCHEMICAL ANALYSES, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

DATE	GROSS ALPHA, DIS- SOLVED (PCI/L AS U-NAT)	GROSS ALPHA, DIS- SOLVED (UG/L AS U-NAT)	GROSS ALPHA, SUSP. TOTAL (PCI/L AS U-NAT)	GROSS ALPHA, SUSP. TOTAL (UG/L AS U-NAT)	GROSS BETA, DIS- SOLVED (PCI/L AS CS-137)	GROSS BETA, DIS- SOLVED (PCI/L AS SR/ YT-90)	GROSS BETA, SUSP. TOTAL (PCI/L AS CS-137)	GROSS BETA, SUSP. TOTAL (PCI/L AS SR/ YT-90)	RADIUM 226, DIS- SOLVED, RADON METHOD (PCI/L)	URANIUM DIS- SOLVED, EXTRAC- TION (UG/L)
SEP 18...	.3	.5	<.3	<.4	1.0	1.0	<.4	<.4	.08	.21

01054200 WILD RIVER AT GILEAD, ME--Continued

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

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
OCTOBER			NOVEMBER			DECEMBER			JANUARY			
1	16.5	13.0	14.5	7.5	2.5	4.5	2.0	1.0	1.5	.0	.0	.0
2	20.0	13.5	15.5	9.5	3.5	6.0	1.5	.0	1.0	.0	.0	.0
3	15.0	14.0	14.5	7.5	6.5	7.5	.0	.0	.0	.0	.0	.0
4	16.0	12.0	13.0	6.0	4.5	5.5	.0	.0	.0	.0	.0	.0
5	15.5	13.0	13.5	6.5	4.0	5.0	.0	.0	.0	.0	.0	.0
6	13.5	11.0	12.5	5.0	3.0	4.0	.5	.0	.0	.0	.0	.0
7	11.0	9.5	10.0	6.0	4.0	5.0	1.5	.5	1.0	.0	.0	.0
8	10.0	7.5	9.0	6.5	5.5	6.0	1.5	.0	1.0	.0	.0	.0
9	7.5	4.5	5.5	5.5	3.5	5.0	.0	.0	.0	.0	.0	.0
10	5.5	4.0	5.0	7.5	5.5	6.5	.0	.0	.0	.0	.0	.0
11	6.5	4.0	5.5	8.5	6.0	6.5	.5	.0	.0	.0	.0	.0
12	5.5	4.0	5.0	7.0	5.5	6.0	.0	.0	.0	.0	.0	.0
13	8.5	5.0	6.5	5.5	5.0	5.0	.0	.0	.0	.0	.0	.0
14	7.0	5.0	6.0	6.5	4.5	5.0	.0	.0	.0	.0	.0	.0
15	5.5	4.0	5.0	4.5	2.5	3.5	.0	.0	.0	.0	.0	.0
16	7.0	4.0	5.0	2.5	.5	1.5	.0	.0	.0	.0	.0	.0
17	7.5	2.5	4.5	2.0	.5	1.0	.0	.0	.0	.0	.0	.0
18	8.0	5.5	6.5	3.0	1.5	2.0	.0	.0	.0	.0	.0	.0
19	8.5	3.5	6.0	2.5	.5	1.5	.0	.0	.0	.0	.0	.0
20	8.5	6.5	7.5	2.5	1.0	1.5	.0	.0	.0	.0	.0	.0
21	13.0	7.5	10.0	4.0	2.5	3.0	.0	.0	.0	.0	.0	.0
22	15.5	11.0	13.0	4.5	3.0	3.5	.0	.0	.0	.0	.0	.0
23	17.0	12.0	13.5	7.0	4.0	5.5	.0	.0	.0	.0	.0	.0
24	14.5	9.5	13.0	9.5	6.5	8.0	.0	.0	.0	.0	.0	.0
25	9.5	7.0	8.5	9.0	8.0	8.5	.0	.0	.0	.0	.0	.0
26	6.5	5.0	6.0	9.0	8.0	8.5	.0	.0	.0	.0	.0	.0
27	5.0	4.0	4.5	11.5	6.0	7.5	.0	.0	.0	.0	.0	.0
28	4.5	3.5	3.5	7.0	4.5	5.5	.0	.0	.0	.0	.0	.0
29	6.5	3.0	4.5	7.5	3.0	4.0	.0	.0	.0	.0	.0	.0
30	6.0	5.0	5.5	2.5	2.0	2.0	.0	.0	.0	.0	.0	.0
31	7.0	3.5	5.0	---	---	---	.0	.0	.0	.0	.0	.0
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
FEBRUARY			MARCH			APRIL			MAY			
1	.0	.0	.0	.0	.0	.0	.0	.0	.0	6.0	4.0	5.0
2	.0	.0	.0	.0	.0	.0	.0	.0	.0	9.0	3.5	6.5
3	.0	.0	.0	.0	.0	.0	.5	.0	.0	10.5	4.0	7.0
4	.0	.0	.0	.0	.0	.0	.0	.0	.0	9.5	4.5	7.0
5	.0	.0	.0	.0	.0	.0	.0	.0	.0	6.5	3.5	5.5
6	.0	.0	.0	.0	.0	.0	.5	.0	.0	12.0	4.5	8.0
7	.0	.0	.0	.0	.0	.0	1.5	.0	.5	8.5	5.0	6.5
8	.0	.0	.0	.0	.0	.0	.5	.0	.0	7.0	4.5	5.5
9	.0	.0	.0	.0	.0	.0	1.0	.0	.5	9.0	4.5	6.5
10	.0	.0	.0	.0	.0	.0	.0	.0	.0	8.0	5.0	6.5
11	.0	.0	.0	.0	.0	.0	2.5	.0	1.0	9.0	4.5	7.0
12	.0	.0	.0	.0	.0	.0	3.0	.5	1.5	14.0	7.0	10.0
13	.0	.0	.0	.0	.0	.0	5.0	1.0	2.0	10.5	8.5	9.5
14	.0	.0	.0	.0	.0	.0	3.5	.5	2.0	10.0	8.0	9.0
15	.0	.0	.0	.0	.0	.0	2.5	1.5	2.0	10.0	6.5	8.5
16	.0	.0	.0	.0	.0	.0	3.0	1.0	1.5	12.5	6.0	9.5
17	.0	.0	.0	.0	.0	.0	5.5	.0	2.0	15.5	7.5	11.0
18	.0	.0	.0	.0	.0	.0	4.5	1.0	2.5	11.5	9.5	10.5
19	.0	.0	.0	.0	.0	.0	8.0	1.0	4.0	13.5	9.0	11.0
20	.0	.0	.0	.0	.0	.0	5.5	1.5	4.0	15.5	8.5	12.0
21	.0	.0	.0	.0	.0	.0	6.0	2.5	4.0	14.5	9.5	12.5
22	.0	.0	.0	.0	.0	.0	4.5	1.0	3.0	17.5	10.0	13.5
23	.0	.0	.0	.0	.0	.0	4.5	2.5	3.5	17.0	12.0	14.5
24	.0	.0	.0	.0	.0	.0	8.0	3.0	5.5	17.5	12.5	14.5
25	.0	.0	.0	.0	.0	.0	8.0	3.5	5.5	17.5	11.0	14.0
26	.0	.0	.0	.0	.0	.0	5.0	3.0	4.0	14.0	10.0	12.0
27	.0	.0	.0	.0	.0	.0	5.5	2.0	4.0	16.5	10.0	12.5
28	.0	.0	.0	.0	.0	.0	5.5	3.5	4.5	16.0	9.0	12.0
29	.0	.0	.0	.0	.0	.0	4.0	2.0	3.0	18.5	10.5	14.0
30	---	---	---	.0	.0	.0	6.5	2.0	4.0	18.0	10.5	14.5
31	---	---	---	.0	.0	.0	---	---	---	17.0	14.0	15.0
MONTH	.0	.0	.0	.0	.0	.0	8.0	.0	2.0	18.5	3.5	10.0

01054300 ELLIS RIVER AT SOUTH ANDOVER, ME

LOCATION.--Lat 44°35'37", long 70°44'01", Oxford County, Hydrologic Unit 01040002, on left bank 100 ft (30 m) upstream from covered bridge at South Andover.

DRAINAGE AREA.--131 mi² (339 km²).

PERIOD OF RECORD.--February 1963 to current year.

GAGE.--Water-stage recorder. Datum of gage is 620.00 ft (188.976 m) National Geodetic Vertical Datum of 1929 (levels by Corps of Engineers).

REMARKS.--Records good except those for winter period, which are fair. Several observations of water temperature and specific conductance were made during the year.

AVERAGE DISCHARGE.--17 years, 250 ft³/s (7.080 m³/s), 25.92 in/yr (658 mm/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 5,630 ft³/s (159 m³/s) Dec. 29, 1969, gage height, 19.23 ft (5.861 m); minimum, 12 ft³/s (0.34 m³/s) part or all of each day Aug. 20-22, 1975.

EXTREMES FOR CURRENT YEAR.--Peak discharges above base of 2,000 ft³/s (57 m³/s) and maximum (*):

Date	Time	Discharge (ft ³ /s) (m ³ /s)	Gage height (ft) (m)	Date	Time	Discharge (ft ³ /s) (m ³ /s)	Gage height (ft) (m)
Apr. 10	2300	* 2950 83.5	16.95 5.166				

Minimum discharge, 17 ft³/s (0.48 m³/s) Aug. 26.

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	21	149	270	100	44	27	350	538	91	91	43	35
2	31	135	231	95	42	27	285	522	93	79	40	75
3	44	429	193	89	40	26	300	461	105	141	39	106
4	215	689	182	85	38	26	290	411	151	92	36	62
5	162	416	167	81	36	25	260	346	137	64	33	42
6	313	309	153	79	35	25	230	305	112	59	29	34
7	249	257	160	76	34	25	210	376	97	55	27	30
8	160	223	164	74	33	26	210	448	90	46	25	25
9	123	196	116	71	32	26	222	488	100	55	24	22
10	113	194	138	70	31	26	1480	609	91	50	30	21
11	108	211	126	68	30	27	2280	499	84	41	25	20
12	111	187	125	270	30	27	1370	414	79	38	24	19
13	209	169	120	215	29	27	1200	357	74	36	38	18
14	235	158	115	185	29	28	981	318	67	34	36	23
15	173	146	110	165	28	29	1020	283	63	33	31	82
16	145	135	105	150	28	30	1160	253	70	33	26	110
17	123	123	99	130	28	31	682	227	69	33	24	62
18	111	122	92	120	28	33	522	209	60	30	22	110
19	107	110	85	110	27	43	428	295	54	27	21	125
20	99	104	81	100	27	70	400	278	53	25	28	75
21	96	109	78	92	27	100	522	234	195	24	34	60
22	93	114	77	85	27	115	407	209	183	30	30	105
23	88	113	76	78	28	110	374	185	120	63	25	180
24	235	110	100	72	29	110	416	169	93	56	21	210
25	629	109	250	67	29	120	459	152	80	42	19	110
26	328	153	500	63	29	130	558	136	66	32	17	160
27	233	1050	300	59	29	145	621	125	57	48	28	200
28	188	689	175	55	28	180	536	114	50	97	34	240
29	177	435	140	52	28	250	459	106	45	60	33	140
30	187	335	125	48	---	400	542	99	42	65	25	85
31	168	---	110	46	---	480	---	93	---	56	21	---
TOTAL	5274	7679	4763	3050	903	2744	18774	9259	2671	1635	888	2586
MEAN	170	256	154	98.4	31.1	88.5	626	299	89.0	52.7	28.6	86.2
MAX	629	1050	500	270	44	480	2280	609	195	141	43	240
MIN	21	104	76	46	27	25	210	93	42	24	17	18
CFSM	1.30	1.95	1.18	.75	.24	.68	4.78	2.28	.68	.40	.22	.66
IN.	1.50	2.18	1.35	.87	.26	.78	5.33	2.63	.76	.46	.25	.73

CAL YR 1979	TOTAL	90541	MEAN 248	MAX 2890	MIN 19	CFSM 1.89	IN 25.71
WTR YR 1980	TOTAL	60226	MEAN 165	MAX 2280	MIN 17	CFSM 1.26	IN 17.10

01054500 ANDROSCOGGIN RIVER AT RUMFORD, ME

LOCATION.--Lat 44°33'04", long 70°32'38", Oxford County, Hydrologic Unit 01040002, on right bank below lower power plant of Rumford Falls Power Co. in Rumford and 1,000 ft (305 m) upstream from Swift River.

DRAINAGE AREA.--2,069 mi² (5,359 km²).

PERIOD OF RECORD.--May 1892 to current year. Monthly discharge only October 1903 to September 1904, published in WSP 1301.

REVISED RECORDS.--WSP 1001: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 420 ft (128.016 m) National Geodetic Vertical Datum of 1929.

Aug. 1, 1937, to Nov. 19, 1979, nonrecording gages in pond above dam in tailrace of upper plant. Prior to Aug. 1, 1937, nonrecording gages in pond and tailrace of middle plant.

REMARKS.--Records good. Several observations of water temperature and specific conductance were made during the year. Prior to Nov. 19, 1979, discharge computed from flow over upper dam and through wheels. Flow regulated by Rangeley, Mooselookmeguntic, Richardson, Umbagog, and Aziscohos Lakes (Reservoirs in Androscoggin River Basin), with final regulation at Errol Dam about 84 mi (135 km) upstream.

COOPERATION.--Prior to Nov. 19, 1979, records furnished by Rumford Falls Power Co.

AVERAGE DISCHARGE.--88 years, 3,709 ft³/s (105.0 m³/s).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 74,000 ft³/s (2,100 m³/s) Mar. 20, 1936; minimum daily, 625 ft³/s (17.7 m³/s) Mar. 27, 1911.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 30,800 ft³/s (872 m³/s) Apr. 11, gage height, 13.54 ft (4.127 m); minimum daily, 1,620 ft³/s (45.9 m³/s) Dec. 18.

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1800	2290	3040	2490	1900	1730	3440	5680	2050	2420	2050	1990
2	1850	2410	2990	2520	1930	1790	3420	5360	2040	2340	2650	2070
3	2020	4960	2600	2250	1910	1830	3590	4840	2230	2010	2490	2560
4	3690	6490	2590	2170	1900	1830	3700	4120	2600	2540	2090	2320
5	2740	4330	2630	2150	1950	1890	3280	3620	2650	1910	2020	1830
6	4820	3230	2750	2120	1900	1890	2980	3370	2460	1740	1940	1830
7	3320	2980	2850	2080	1880	1830	2730	3600	2150	1850	1960	1860
8	2570	2700	3050	2290	1840	1780	2760	4320	2020	1800	1910	1830
9	2360	2660	3090	2410	1900	1900	2770	4200	2180	1880	1860	1770
10	2350	2750	2220	2340	1860	1780	14700	4240	2180	1930	1890	1770
11	2290	2800	2140	2410	1890	1880	22000	4180	2120	1670	1910	1780
12	2330	2630	2850	4970	1890	1870	9760	3750	2050	1800	1830	1780
13	2980	2430	2770	3270	1890	1760	8020	3350	1990	1690	1940	1780
14	3020	2360	2400	2700	1890	1850	7350	3250	1990	1850	2010	1940
15	2630	2330	2180	2780	1880	1860	7540	3070	1910	1810	1930	2540
16	2380	2340	2840	2700	1890	1820	10600	2970	1990	1830	1880	2470
17	2340	2260	2630	2500	1850	1750	6880	3110	2010	1750	1830	1830
18	2240	2320	1620	2490	1800	2010	5380	2510	1940	1810	1780	1990
19	2330	2220	2020	2450	1860	2250	4320	3330	1890	1780	1780	2180
20	2240	2260	2350	2340	1890	2270	3910	3580	1930	1740	2010	2040
21	2270	2300	2360	2090	1920	2000	4240	2920	2650	1830	2050	1910
22	2210	2240	2610	1870	1920	2140	4550	2690	2850	1930	1940	1910
23	2200	2350	2730	2110	1940	2280	4040	2670	2370	2120	1850	2130
24	3380	2290	2620	2180	1960	2520	3710	2580	2090	2250	1830	2580
25	5750	2380	3500	1870	1940	2560	4000	2510	2020	2050	1850	2230
26	3400	3440	5260	2060	1950	2410	4550	2320	1960	1850	1850	2560
27	2680	11900	4230	2030	1900	2440	6100	2230	2020	1720	1830	3090
28	2500	5740	3330	2010	1910	2600	5510	2250	1890	2020	1860	2470
29	2450	4100	2840	1970	1870	2920	4930	2150	1860	2170	1930	2230
30	2460	3620	2720	1850	---	3340	6670	2170	1910	2130	1880	2350
31	2360	---	2420	1830	---	3640	---	2090	---	2100	1890	---
TOTAL	83960	99110	86230	73300	55010	66420	177430	103030	64000	60320	60520	63620
MEAN	2708	3304	2782	2365	1897	2143	5914	3324	2133	1946	1952	2121
MAX	5750	11900	5260	4970	1960	3640	22000	5680	2850	2540	2650	3090
MIN	1800	2220	1620	1830	1800	1730	2730	2090	1860	1670	1780	1770

CAL YR 1979 TOTAL 1363990 MEAN 3737 MAX 42000 MIN 1560
WTR YR 1980 TOTAL 992950 MEAN 2713 MAX 22000 MIN 1620

01055000 SWIFT RIVER NEAR ROXBURY, ME

LOCATION.--Lat 44°38'32", long 70°35'17", Oxford County, Hydrologic Unit 01040002, on left bank 0.2 mi (0.3 km) downstream from Philbrick Brook, 2.1 mi (3.4 km) downstream from Roxbury, and 7.2 mi (11.6 km) upstream from mouth.

DRAINAGE AREA.--95.8 mi² (248 km²).

PERIOD OF RECORD.--June 1929 to current year.

REVISED RECORDS.--WSP 801: 1934(M). WSP 1301: Drainage area, 1937-38(M), 1942(M).

GAGE.--Water-stage recorder. Datum of gage is 615.67 ft (187.656 m) National Geodetic Vertical Datum of 1929.

REMARKS.--Records good except those for winter period, which are fair. Several observations of water temperature and specific conductance were made during the year.

AVERAGE DISCHARGE.--51 years, 198 ft³/s (5.61 m³/s), 28.07 in/yr (713 mm/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 16,800 ft³/s (476 m³/s) Oct. 24, 1959, gage height, 12.87 ft (3.923 m), from rating curve extended above 7,000 ft³/s (200 m³/s); minimum, 3.8 ft³/s (0.11 m³/s) Sept. 16, 17, 1948, gage height, 0.93 ft (0.283 m).

EXTREMES FOR CURRENT YEAR.--Peak discharges above base of 2,400 ft³/s (68 m³/s) and maximum (*):

Date	Time	Discharge (ft ³ /s) (m ³ /s)	Gage height (ft) (m)	Date	Time	Discharge (ft ³ /s) (m ³ /s)	Gage height (ft) (m)
Apr. 10	1915	* 5190 147	7.64 2.329				

Minimum discharge, 11 ft³/s (0.31 m³/s) Aug. 30, 31, gage height, 1.00 ft (0.305 m).

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	19	101	150	77	22	17	250	498	68	29	33	16
2	48	96	132	72	20	16	220	435	72	33	33	109
3	54	760	109	70	19	15	200	354	93	38	29	103
4	296	579	100	67	18	15	165	309	115	29	26	52
5	134	270	96	65	17	15	140	239	95	23	23	32
6	328	193	100	64	17	15	134	208	75	32	19	26
7	185	160	119	63	17	16	123	336	60	29	17	21
8	134	141	117	62	16	16	134	341	61	22	15	17
9	105	125	94	61	16	17	153	500	83	29	122	14
10	91	175	115	60	16	18	2590	493	66	25	70	14
11	89	201	98	59	16	19	1510	328	56	20	35	14
12	101	150	92	600	16	21	767	283	52	24	53	13
13	196	127	88	390	16	22	954	247	47	25	119	12
14	221	117	86	225	16	23	625	218	40	24	61	58
15	141	107	84	155	16	24	1230	190	36	20	41	148
16	113	98	83	130	16	25	742	169	44	20	29	68
17	94	89	80	110	16	26	351	152	37	18	25	40
18	89	89	75	96	16	43	254	147	33	23	21	75
19	98	76	71	87	16	115	208	417	29	21	21	73
20	87	77	67	80	16	350	246	263	34	15	34	44
21	89	96	65	73	17	200	433	195	226	15	37	42
22	86	94	63	62	17	160	268	164	137	36	27	104
23	76	91	62	54	18	140	465	142	78	75	21	185
24	260	89	75	47	18	125	464	128	55	54	17	130
25	482	86	365	42	19	115	468	113	44	33	14	70
26	207	172	380	38	19	110	697	100	34	22	12	189
27	141	1220	190	35	19	115	550	93	43	65	12	178
28	117	396	135	32	18	130	430	85	46	111	13	103
29	117	245	105	29	18	160	359	78	32	53	14	71
30	136	185	91	27	---	420	758	71	27	77	11	58
31	117	---	83	24	---	390	---	66	---	53	12	---
TOTAL	4451	6405	3570	3056	501	2893	15888	7362	1918	1093	1016	2079
MEAN	144	214	115	98.6	17.3	93.3	530	237	63.9	35.3	32.8	69.3
MAX	482	1220	380	600	22	420	2590	500	226	111	122	189
MIN	19	76	62	24	16	15	123	66	27	15	11	12
CFSM	1.50	2.23	1.20	1.03	.18	.97	5.53	2.47	.67	.37	.34	.72
IN.	1.73	2.49	1.39	1.19	.19	1.12	6.17	2.86	.74	.42	.39	.81

CAL YR 1979	TOTAL	79710.0	MEAN 218	MAX 4960	MIN 9.3	CFSM 2.28	IN 30.95
WTR YR 1980	TOTAL	50232.0	MEAN 137	MAX 2590	MIN 11	CFSM 1.43	IN 19.51

01055500 NEZINSCOT RIVER AT TURNER CENTER, ME

LOCATION.--Lat 44°16'10", long 70°13'49", Androscoggin County, Hydrologic Unit 01040002, on left bank 500 ft (150 m) upstream from upper highway bridge at Turner Center and 3.6 mi (5.8 km) upstream from mouth.

DRAINAGE AREA.--171 mi² (443 km²).

PERIOD OF RECORD.--August 1941 to current year.

GAGE.--Water-stage recorder. Datum of gage is 276.29 ft (84.213 m) National Geodetic Vertical Datum of 1929.

REMARKS.--Records good except those for winter period, which are fair. Several observations of water temperature and specific conductance were made during the year.

AVERAGE DISCHARGE.--39 years, 305 ft³/s (8.638 m³/s), 24.22 in/yr (615 mm/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 13,900 ft³/s (394 m³/s) Mar. 27, 1953, gage height, 11.18 ft (3.408 m); minimum, 5.6 ft³/s (0.16 m³/s) Aug. 29, 1956, gage height, 0.72 ft (0.219 m).

EXTREMES FOR CURRENT YEAR.--Peak discharges above base of 1,700 ft³/s (48 m³/s) and maximum (*):

Date	Time	Discharge (ft ³ /s) (m ³ /s)	Gage height (ft) (m)	Date	Time	Discharge (ft ³ /s) (m ³ /s)	Gage height (ft) (m)
Apr. 11	1300	* 4500 127	6.47 1.972				

Minimum discharge, 18 ft³/s (0.510 m³/s) Aug. 30, Sept. 1, gage height, 0.95 ft (0.290 m).

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	46	172	316	140	54	39	560	569	70	61	141	18
2	92	161	272	130	52	38	460	536	69	55	98	24
3	104	418	231	120	51	37	420	487	76	68	78	61
4	265	901	215	115	50	37	400	425	105	72	71	62
5	332	698	203	110	48	36	380	364	114	60	62	51
6	367	518	192	105	47	35	345	321	95	52	56	40
7	452	423	200	105	46	35	330	299	80	44	48	33
8	637	353	210	100	44	36	330	368	73	42	42	28
9	563	301	195	97	42	38	325	421	71	46	37	25
10	469	328	173	95	41	42	1400	368	68	45	31	24
11	420	391	158	90	38	47	4210	316	63	43	28	22
12	380	341	153	110	37	50	2940	293	59	72	28	21
13	415	289	160	145	36	53	1490	274	56	117	28	19
14	399	263	160	145	35	54	1010	253	53	86	28	25
15	327	249	150	135	34	56	897	231	51	65	28	50
16	280	230	143	125	34	58	1130	205	64	56	25	72
17	248	208	165	115	34	60	950	184	72	51	23	67
18	224	193	160	110	33	400	725	169	63	47	22	61
19	204	180	150	105	33	500	599	176	55	47	22	56
20	188	169	140	99	33	390	518	176	53	42	28	50
21	177	168	130	94	34	330	490	159	122	40	31	52
22	171	169	120	90	35	290	460	145	200	41	33	68
23	169	182	115	86	37	270	497	131	166	51	29	73
24	171	185	120	82	39	255	554	120	124	85	26	69
25	276	180	150	76	41	250	500	110	96	96	23	65
26	309	230	640	72	41	245	461	99	80	69	21	86
27	251	559	450	67	41	240	494	91	71	54	20	98
28	212	650	325	63	40	250	468	84	73	47	21	89
29	208	494	240	60	40	375	439	80	67	47	20	71
30	214	387	195	57	---	660	516	75	71	87	19	60
31	193	---	155	55	---	700	---	72	---	133	19	---
TOTAL	8763	9990	6386	3098	1170	5906	24298	7601	2480	1921	1186	1540
MEAN	283	333	206	99.9	40.3	191	810	245	82.7	62.0	38.3	51.3
MAX	637	901	640	145	54	700	4210	569	200	133	141	98
MIN	46	161	115	55	33	35	325	72	51	40	19	18
CFSM	1.66	1.95	1.21	.58	.24	1.12	4.74	1.43	.48	.36	.22	.30
IN.	1.91	2.17	1.39	.67	.25	1.28	5.29	1.65	.54	.42	.26	.34
CAL YR 1979 TOTAL	141708		MEAN 388	MAX 3790	MIN 37	CFSM 2.27	IN 30.83					
WTR YR 1980 TOTAL	74339		MEAN 203	MAX 4210	MIN 18	CFSM 1.19	IN 16.17					

01057000 LITTLE ANDROSCOGGIN RIVER NEAR SOUTH PARIS, ME

LOCATION.--Lat 44°17'08", long 70°32'16", Oxford County, Hydrologic Unit 01040002, on right bank 30 ft (9 m) upstream from Biscoe Falls and 5 mi (8 km) upstream from South Paris.

DRAINAGE AREA.--76.2 mi² (197 km²).

PERIOD OF RECORD.--September 1913 to April 1924, October 1931 to current year.

REVISED RECORDS.--WSP 726: Drainage area. WSP 1301: 1915-23(M).

GAGE.--Water-stage recorder and concrete control. Datum of gage is 394.48 ft (120.238 m) National Geodetic Vertical Datum of 1929. Prior to Apr. 30, 1924, nonrecording gage at same site and datum.

REMARKS.--Records good except those for winter period, which are fair, and those below 10 ft³/s (0.3 m³/s), which are poor. Several observations of water temperature and specific conductance were made during the year.

AVERAGE DISCHARGE.--59 years (water years 1914-23, 1932-80), 139 ft³/s (3.936 m³/s), 24.77 in/yr (629 mm/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 8,000 ft³/s (227 m³/s) Mar. 27, 1953, gage height, 12.41 ft (3.783 m), from rating curve extended above 2,800 ft³/s (79 m³/s), verified by computation of flow over dam at South Paris; minimum, 1 ft³/s (0.028 m³/s) Aug. 16, 1914, Feb. 22 to Mar. 5, 1920.

EXTREMES FOR CURRENT YEAR.--Peak discharges above base of 1,000 ft³/s (28 m³/s) and maximum (*):

Date	Time	Discharge (ft ³ /s) (m ³ /s)	Gage height (ft) (m)	Date	Time	Discharge (ft ³ /s) (m ³ /s)	Gage height (ft) (m)
Apr. 10	2100	* 3240 91.8	8.63 2.630				

Minimum discharge not determined; minimum daily, 4.6 ft³/s (0.130 m³/s) Aug. 30.

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	18	65	133	59	15	10	249	220	28	25	36	5.4
2	28	61	115	51	14	9.0	222	200	28	28	39	8.5
3	34	236	97	44	14	8.3	207	180	38	66	34	22
4	167	343	87	38	13	8.1	201	165	58	45	28	21
5	127	217	83	35	12	8.0	201	145	48	31	22	14
6	187	165	79	31	11	8.8	247	135	39	26	18	11
7	167	134	88	28	11	9.4	205	130	33	21	18	9.6
8	206	113	89	27	11	9.8	178	200	30	18	16	7.8
9	145	98	69	25	11	10	165	170	31	22	14	6.4
10	129	156	67	24	10	12	1600	155	28	22	11	5.9
11	119	163	62	24	10	19	2060	140	24	20	9.3	5.3
12	115	132	63	170	10	43	721	125	22	56	8.5	5.2
13	199	112	66	126	9.9	45	457	113	21	43	7.8	5.0
14	162	101	61	82	9.8	33	341	105	20	32	7.3	11
15	119	92	52	70	9.8	29	427	95	18	26	6.8	37
16	99	84	59	60	9.8	27	491	86	21	24	6.3	28
17	83	76	66	54	9.7	25	321	77	22	21	5.9	21
18	73	73	51	49	9.6	60	257	71	19	19	5.5	21
19	66	68	41	45	9.6	170	219	96	17	16	5.9	20
20	61	64	33	42	10	134	194	92	17	14	7.3	17
21	58	64	30	39	11	123	191	78	92	14	12	15
22	56	64	30	35	11	102	171	66	67	15	12	14
23	54	71	32	32	11	146	210	57	42	26	9.6	13
24	66	68	37	29	12	226	227	53	36	45	7.7	12
25	152	71	149	27	12	243	199	49	28	31	6.3	11
26	122	152	278	24	12	191	214	43	23	23	5.7	20
27	97	449	185	22	12	210	238	39	51	16	5.5	34
28	81	286	133	20	12	216	235	35	40	15	5.4	24
29	87	208	107	19	11	259	212	32	29	17	5.0	19
30	83	164	90	18	---	410	250	30	25	34	4.6	16
31	72	---	72	16	---	322	---	29	---	49	5.3	---
TOTAL	3232	4150	2604	1365	324.2	3126.4	11110	3211	995	860	385.7	460.1
MEAN	104	138	84.0	44.0	11.2	101	370	104	33.2	27.7	12.4	15.3
MAX	206	449	278	170	15	410	2060	220	92	66	39	37
MIN	18	61	30	16	9.6	8.0	165	29	17	14	4.6	5.0
CFSM	1.37	1.81	1.10	.58	.15	1.33	4.86	1.37	.44	.36	.16	.20
IN.	1.58	2.03	1.27	.67	.16	1.53	5.42	1.57	.49	.42	.19	.22
CAL YR 1979 TOTAL	59071.0			MEAN 162	MAX 2510	MIN 8.0	CFSM 2.13	IN 28.84				
WTR YR 1980 TOTAL	31823.4			MEAN 86.9	MAX 2060	MIN 4.6	CFSM 1.14	IN 15.54				

01058500 LITTLE ANDROSCOGGIN RIVER NEAR AUBURN, ME

LOCATION.--Lat 44°03'49", long 70°16'28", Androscoggin County, Hydrologic Unit 01040002, on right bank 100 ft (30 m) upstream from highway bridge at Littlefields, 3 mi (5 km) southwest of Auburn, and 4.6 mi (3.4 km) upstream from mouth.

DRAINAGE AREA.--328 mi² (850 km²).

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

GAGE.--Water-stage recorder. Altitude of gage is 215 ft (65.5 m), from topographic map.

REMARKS.--Records good except those for winter period, which are fair. Flow regulated by Thompson Lake (Reservoirs in Androscoggin River Basin) and several powerplants above station. Several observations of water temperature and specific conductance were made during the year.

AVERAGE DISCHARGE.--40 years, 572 ft³/s (16.20 m³/s).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 16,500 ft³/s (467 m³/s) Mar. 28, 1953, gage height, 14.76 ft (4.499 m); minimum daily, 14 ft³/s (0.40 m³/s) Oct. 14, 1949.

EXTREMES OUTSIDE PERIOD OF RECORD.--Maximum discharge known, 16,800 ft³/s (476 m³/s) Mar. 20, 1936, at mouth of river.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 5,860 ft³/s (166 m³/s) Apr. 12, gage height, 8.79 ft (2.679 m); minimum daily, 44 ft³/s (1.25 m³/s) Sept. 2.

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	135	302	641	290	120	88	1000	970	151	123	113	46
2	261	361	563	245	120	89	852	953	169	121	115	44
3	205	587	493	215	115	89	743	919	155	119	117	58
4	384	1110	450	185	115	88	732	852	164	115	129	66
5	516	1150	420	165	110	84	808	769	167	115	127	57
6	607	1010	404	150	110	80	813	636	162	117	121	52
7	660	847	410	135	105	79	830	568	155	121	115	50
8	919	732	410	125	100	80	753	597	140	123	109	48
9	869	641	370	120	99	84	681	711	162	121	100	47
10	891	686	335	115	97	85	1960	764	144	111	87	47
11	880	722	305	120	95	93	4310	748	131	105	85	51
12	835	717	280	175	92	100	5580	691	125	98	87	51
13	891	665	265	208	90	110	3990	549	121	96	80	57
14	863	607	245	281	89	110	2730	485	113	109	77	58
15	808	539	235	302	88	110	2300	454	109	119	74	69
16	717	507	250	284	87	105	2320	384	123	115	70	85
17	686	450	265	205	85	100	2190	368	117	107	60	96
18	655	433	250	185	84	200	1790	353	115	100	54	103
19	607	412	200	175	83	550	1490	368	115	96	55	100
20	558	380	180	170	83	670	1310	400	113	87	64	90
21	530	376	155	165	82	665	1180	412	144	84	63	92
22	489	349	140	160	82	650	1050	342	146	89	60	119
23	345	400	150	155	83	706	982	291	202	85	57	115
24	294	372	160	155	83	780	999	274	179	84	55	121
25	342	388	294	150	84	841	1000	200	155	80	54	123
26	412	429	558	145	85	830	993	214	146	85	52	164
27	400	701	696	140	86	775	976	229	137	89	50	148
28	357	936	636	135	87	743	959	189	125	98	48	160
29	338	936	563	135	88	791	947	174	119	103	46	179
30	309	780	475	129	---	982	982	160	119	121	47	164
31	305	---	360	125	---	1070	---	157	---	115	47	---
TOTAL	17068	18525	11158	5444	2727	11827	47250	15181	4223	3251	2418	2660
MEAN	551	618	360	176	94.0	382	1575	490	141	105	78.0	88.7
MAX	919	1150	696	302	120	1070	5580	970	202	123	129	179
MIN	135	302	140	115	82	79	681	157	109	80	46	44
CAL YR 1979	TOTAL	245711	MEAN 673	MAX 5580	MIN 74							
WTR YR 1980	TOTAL	141732	MEAN 387	MAX 5580	MIN 44							

01059000 ANDROSCOGGIN RIVER NEAR AUBURN, ME

LOCATION.--Lat 44°04'20", long 70°12'31", Androscoggin County, Hydrologic Unit 01040002, on right bank 1.5 mi (2.4 km) downstream from Little Androscoggin River and 2.1 mi (3.4 km) downstream from north bridge between Auburn and Lewiston.

DRAINAGE AREA.--3,257 mi² (8,436 km²).

PERIOD OF RECORD.--Discharge: October 1928 to current year. Monthly discharge only for October 1928, published in WSP 1301.

Water-quality records: Water years 1966-75.

REVISED RECORDS.--WSP 781: 1930, 1933-34. WSP 1301: 1932-36.

GAGE.--Water-stage recorder. Datum of gage is 109.18 ft (33.278 m) National Geodetic Vertical Datum of 1929.

REMARKS.--Records good. Considerable diurnal fluctuation and some regulation by powerplants above station. Flow regulated by Rangeley, Mooselookmeguntic, Richardson, Aziscohos, Umbagog, Auburn, and Thompson Lakes and Gulf Island Pond (Reservoirs in Androscoggin River Basin) with major regulation at Errol Dam 136 mi (219 km) upstream. Several observations of water temperature and specific conductance were made during the year.

AVERAGE DISCHARGE.--52 years, 6,137 ft³/s (173.8 m³/s).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 135,000 ft³/s (3,820 m³/s) Mar. 20, 1936, gage height, 27.57 ft (8.403 m), from rating curve extended above 76 000 ft³/s (2,200 m³/s) on basis of slope-area measurement of peak flow and computation of flow over dam; minimum daily, 340 ft³/s (9.63 m³/s) Sept. 28, 1941.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 45,800 ft³/s (1,300 m³/s) Apr. 11, gage height, 13.68 ft (4.170 m); minimum daily, 616 ft³/s (17.4 m³/s) Aug. 17.

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	2340	3870	6590	3500	2590	1750	7610	12400	826	1400	3450	1340
2	3100	4450	5900	3640	2370	1500	6590	10300	2970	2880	2750	2860
3	2990	5350	4080	3460	1950	2290	6460	9910	3250	4100	1230	3660
4	3300	7650	4410	3370	2700	2260	6920	8630	3230	3390	2610	3700
5	4800	9450	4410	2510	2610	2260	7270	7550	3350	3010	2970	4060
6	5150	7050	4210	2510	2610	2240	6740	6950	3350	943	2860	2490
7	6500	6350	5160	3030	2590	2260	6090	6870	3450	2260	2540	2080
8	6800	5700	4990	2940	2610	1770	5990	6820	1930	2630	2580	2110
9	5300	6200	3430	2940	2020	1950	5900	7610	2990	2460	1800	1980
10	5350	4750	3560	2920	1960	1960	13400	7760	3100	2320	994	1980
11	5300	3790	3270	2900	2370	2260	43000	7490	2840	2020	2110	1980
12	5410	3550	3160	2490	2470	2440	31000	7350	2560	1220	2460	1960
13	4430	4300	3350	4940	2440	2420	19700	6850	2540	635	2440	1170
14	2830	5000	4570	5680	2420	2310	17100	6390	1560	2500	2440	1060
15	4470	4950	3600	4910	1900	1810	14900	5410	679	2950	2540	2520
16	5410	4900	3220	3720	1770	1890	20000	5730	2120	2850	1400	2940
17	4410	3800	3350	3640	1770	2440	14800	5270	2540	2790	616	2860
18	4300	1180	3540	3540	2200	3930	12700	3870	2520	2440	2200	2370
19	4020	3120	3120	3500	2420	4100	10700	4470	2520	1510	2520	2080
20	3230	3850	3160	3460	2410	3930	9030	4300	2580	748	2520	1090
21	2260	3500	3010	3370	2310	5160	8830	5110	1650	2030	2520	887
22	3180	2660	2460	3180	2260	4540	9360	5590	2920	2240	2440	2510
23	3790	3550	2460	2900	1780	4500	8930	5410	3640	2440	1590	2650
24	3450	3720	2900	2880	1470	4540	8830	4940	3680	2960	840	2650
25	4300	3600	3890	2740	1960	5270	8000	2050	3620	3120	2420	2490
26	7400	4020	6340	2460	2210	5680	8730	1770	3180	2060	2630	3460
27	5730	8100	7940	2360	2370	5950	10400	3310	3330	686	2200	3010
28	4250	15500	6870	2630	2240	5900	10300	3460	1720	1990	2180	867
29	3990	9560	5830	2580	2230	5900	9730	3430	768	2280	2160	2980
30	4120	7130	5180	2590	---	4820	11400	3370	780	2830	1510	2950
31	3830	---	3830	2610	---	7550	---	3330	---	3330	1350	---
TOTAL	135740	160600	131790	99900	65010	107580	360410	183700	76193	71022	66870	70744
MEAN	4379	5353	4251	3223	2242	3470	12010	5926	2540	2291	2157	2358
MAX	7400	15500	7940	5680	2700	7550	43000	12400	3680	4100	3450	4060
MIN	2260	1180	2460	2360	1470	1500	5900	1770	679	635	616	867

CAL YR 1979 TOTAL 2395946 MEAN 6564 MAX 48600 MIN 675
WTR YR 1980 TOTAL 1529559 MEAN 4179 MAX 43000 MIN 616

ANDROSCOGGIN RIVER BASIN

01059400 ANDROSCOGGIN RIVER AT BRUNSWICK, ME
(National stream-quality accounting network station)

LOCATION.--Lat 43°55'03", long 69°58'25", Cumberland County, Hydrologic Unit 01060001, on right bank at cable suspended footbridge, 530 ft (161 m) downstream from railroad bridge at Brunswick.

DRAINAGE AREA.--3,410 mi² (8,832 km²).

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

PERIOD OF DAILY RECORD.--

SPECIFIC CONDUCTANCE: November 1975 to current year.

WATER TEMPERATURES: November 1975 to current year.

INSTRUMENTATION.--Water-quality monitor since November 1975.

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

EXTREMES FOR PERIOD OF DAILY RECORD.--

SPECIFIC CONDUCTANCE: Maximum, 221 micromhos Dec. 20, 1978; minimum, 36 micromhos Apr. 4, 1976.

WATER TEMPERATURES: Maximum, 29.5°C Aug. 5, 1979; minimum, 0.0°C on many days during winter periods.

EXTREMES FOR CURRENT YEAR.--

SPECIFIC CONDUCTANCE: Maximum, 214 micromhos July 10, 11; minimum, 86 micromhos July 21.

WATER TEMPERATURES: Maximum, 27.5°C Aug. 6; minimum, 0.0°C on many days during winter period.

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

DATE	TIME	STREAM- FLOW, INSTAN- TANEOUS (CFS)	SPE- CIFIC CON- DUCTI- ANCE (MICRO- MHOS)	PH FIELD (UNITS)	TEMPER- ATURE, AIR (DEG C)	TEMPER- ATURE, WATER (DEG C)	TUR- BID- ITY (NTU)	OXYGEN, DIS- SOLVED (MG/L)	OXYGEN, DIS- SOLVED SATUR- ATION	COLI- FORM, FECAL, 0.7 UM-MF (COLS./ 100 ML)	STREP- TOCOCCI FECAL, KF AGAR (COLS. PER 100 ML)	HARD- NESS (MG/L AS CAC03)
NOV												
07...	1315	7320	125	6.8	12.0	7.5	3.0	11.0	91	130	92	17
28...	1415	17500	135	6.9	14.0	5.0	8.0	12.4	97	240	180	17
DEC												
19...	1430	3280	150	6.7	-3.0	.0	2.0	12.8	88	K900	400	21
JAN												
16...	1315	3760	160	6.6	-2.0	.0	1.8	12.9	88	440	K38	19
FEB												
13...	1000	2810	190	6.6	-3.0	.0	1.5	13.8	95	140	K22	23
MAR												
13...	1415	2850	215	6.6	1.0	.0	3.0	12.3	84	1500	810	22
APR												
15...	1530	16300	55	6.6	10.0	5.5	.68	12.4	98	360	72	10
MAY												
28...	1400	3460	110	6.9	18.0	17.0	1.2	9.8	101	78	K12	17
JUN												
16...	1030	2230	148	6.9	18.0	18.5	1.0	8.2	87	K12	K8	19
JUL												
22...	1515	2300	120	7.4	28.0	25.5	1.3	8.4	101	220	55	17
AUG												
27...	1300	2320	172	7.1	25.5	24.5	.80	7.6	90	240	60	21
SEP												
19...	1000	2040	175	7.1	19.0	18.0	1.4	8.9	94	300	88	22

DATE	HARD- NESS, NONCAR- BONATE (MG/L CAC03)	CALCIUM DIS- SOLVED (MG/L AS CA)	MAGNE- SIUM, DIS- SOLVED (MG/L AS MG)	SODIUM, DIS- SOLVED (MG/L AS NA)	SODIUM PERCENT	SODIUM AD- SORP- TION RATIO	SODIUM+ POTAS- SIUM DIS- SOLVED (MG/L AS NA)	POTAS- SIUM, DIS- SOLVED (MG/L AS K)	ALKA- LINITY (MG/L AS CAC03)	SULFATE DIS- SOLVED (MG/L AS S04)	CHLO- RIDE, DIS- SOLVED (MG/L AS CL)	FLUO- RIDE, DIS- SOLVED (MG/L AS F)
NOV												
07...	4	5.3	.9	12	59	1.3	13	1.2	13	9.8	13	.1
28...	0	5.3	.9	15	69	1.6	16	1.2	17	13	16	.0
DEC												
19...	0	6.5	1.1	15	65	1.4	16	1.2	26	13	17	.0
JAN												
16...	7	5.7	1.1	17	64	1.7	19	1.5	12	17	18	.1
FEB												
13...	0	7.3	1.2	24	68	2.2	25	1.4	25	18	24	.1
MAR												
13...	0	6.8	1.2	24	68	2.2	26	2.3	22	18	25	.1
APR												
15...	1	3.1	.6	4.1	43	.6	--	1.2	9	6.9	4.6	.0
MAY												
28...	7	5.1	1.0	16	66	1.7	--	1.1	10	12	15	.1
JUN												
16...	8	5.9	1.0	20	67	2.0	--	1.7	11	16	20	.1
JUL												
22...	2	5.3	1.0	14	61	1.5	--	1.5	15	15	12	.1
AUG												
27...	0	6.6	1.2	23	68	2.2	--	1.6	21	19	24	.1
SEP												
19...	6	7.1	1.1	24	68	2.2	--	1.7	16	19	26	.1

01059400 ANDROSCOGGIN RIVER AT BRUNSWICK, ME--Continued

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

DATE	SILICA, DIS- SOLVED (MG/L AS SiO2)	SOLIDS, RESIDUE AT 180 DEG. C DIS- SOLVED (MG/L)	SOLIDS, SUM OF CONSTITUENTS, DIS- SOLVED (MG/L)	SOLIDS, DIS- SOLVED (TONS PER AC-FT)	SOLIDS, DIS- SOLVED (TONS PER DAY)	NITRO- GEN, NO2+NO3 TOTAL (MG/L AS N)	NITRO- GEN, NO2+NO3 DIS- SOLVED (MG/L AS N)	NITRO- GEN, AMMONIA TOTAL (MG/L AS N)	NITRO- GEN, AMMONIA DIS- SOLVED (MG/L AS N)	NITRO- GEN, AMMONIA TOTAL (MG/L AS NH4)	NITRO- GEN, AMMONIA DIS- SOLVED (MG/L AS NH4)	NITRO- GEN, ORGANIC TOTAL (MG/L AS N)
NOV												
07...	5.6	79	57	.11	1560	.21	.21	.110	.060	.13	.08	.32
28...	5.7	85	70	.12	402	.34	.42	.260	.230	.31	.30	.60
DEC												
19...	6.2	84	77	.11	744	.89	.29	.170	.160	.21	.21	.73
JAN												
16...	5.6	81	74	.11	822	.23	.22	.150	.140	.18	.18	.51
FEB												
13...	5.5	113	98	.15	857	.24	.20	.280	.260	.34	.33	.66
MAR												
13...	4.4	114	97	.16	877	.45	.48	.390	.320	.47	.41	.71
APR												
15...	3.3	40	30	.05	1760	.67	.22	.060	.070	.07	.09	.60
MAY												
28...	4.3	78	72	.11	729	.31	2.6	.140	3.100	.17	4.0	.39
JUN												
16...	3.9	103	77	.14	620	.96	.44	.120	.100	.15	.13	.53
JUL												
22...	.4	70	60	.10	435	.36	.32	.050	.000	.06	.00	.47
AUG												
27...	3.8	116	94	.16	727	.54	.48	.000	.000	.00	.00	.29
SEP												
19...	4.4	123	95	.17	677	.36	.35	.080	.070	.10	.09	.49

DATE	NITRO- GEN, ORGANIC DIS- SOLVED (MG/L AS N)	NITRO- GEN,AM- MONIA + ORGANIC TOTAL (MG/L AS N)	NITRO- GEN,NH4 + ORG. SUSP. TOTAL (MG/L AS N)	NITRO- GEN,AM- MONIA + ORGANIC DIS. (MG/L AS N)	NITRO- GEN, TOTAL (MG/L AS N)	NITRO- GEN, DIS- SOLVED (MG/L AS N)	NITRO- GEN, TOTAL (MG/L AS NO3)	PHOS- PHORUS, TOTAL (MG/L AS P)	PHOS- PHORUS, TOTAL (MG/L AS PO4)	PHOS- PHORUS, DIS- SOLVED (MG/L AS P)	ARSENIC TOTAL (UG/L AS AS)	ARSENIC SUS- PENDE TOTAL (UG/L AS AS)
NOV												
07...	.45	.43	.00	.51	.64	.72	2.8	.060	.18	.030	--	--
28...	.51	.86	.12	.74	1.2	1.2	5.3	.100	.31	.020	4	2
DEC												
19...	.34	.90	.40	.50	1.8	.79	7.9	.040	.12	.030	--	--
JAN												
16...	.40	.66	.12	.54	.89	.76	3.9	.070	.21	.030	--	--
FEB												
13...	.22	.94	.46	.48	1.2	.68	5.2	.060	.18	.020	1	1
MAR												
13...	.51	1.1	.27	.83	1.6	1.3	6.9	.160	.49	.110	--	--
APR												
15...	.42	.66	.17	.49	1.3	.71	5.9	.050	.15	.020	--	--
MAY												
28...	.00	.53	.00	.55	.84	3.2	3.7	.060	.18	.030	0	0
JUN												
16...	.47	.65	.08	.57	1.6	1.0	7.1	.070	.21	.060	--	--
JUL												
22...	.55	.52	.00	.55	.88	.87	3.9	.070	.21	.020	--	--
AUG												
27...	.32	.29	.00	.32	.83	.80	3.7	.090	.28	.070	1	1
SEP												
19...	.63	.57	.00	.70	.93	1.1	4.1	.090	.28	.050	--	--

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

[illegible][illegible]

01059400 ANDROSCOGGIN RIVER AT BRUNSWICK, ME--Continued

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

DATE	MANGANESE, DIS- SOLVED (UG/L AS MN)	MERCURY TOTAL RECOV- ERABLE (UG/L AS HG)	MERCURY SUS- PENDE RECOV- ERABLE (UG/L AS HG)	MERCURY DIS- SOLVED (UG/L AS HG)	NICKEL, TOTAL RECOV- ERABLE (UG/L AS NI)	NICKEL, SUS- PENDE RECOV- ERABLE (UG/L AS NI)	NICKEL, DIS- SOLVED (UG/L AS NI)	SELE- NIUM, TOTAL (UG/L AS SE)	SELE- NIUM, SUS- PENDE TOTAL (UG/L AS SE)	SELE- NIUM, DIS- SOLVED (UG/L AS SE)	SILVER, TOTAL RECOV- ERABLE (UG/L AS AG)
NOV 07...	--	--	--	--	--	--	--	--	--	--	--
28...	60	.2	.1	<.1	3	1	2	0	0	0	0
DEC 19...	--	--	--	--	--	--	--	--	--	--	--
JAN 16...	--	--	--	--	--	--	--	--	--	--	--
FEB 13...	90	.1	.0	.1	1	0	1	0	0	0	0
MAR 13...	--	--	--	--	--	--	--	--	--	--	0
APR 15...	--	--	--	--	--	--	--	--	--	--	--
MAY 28...	40	.2	.1	.1	2	2	0	0	0	0	0
JUN 16...	--	--	--	--	--	--	--	--	--	--	0
JUL 22...	--	--	--	--	--	--	--	--	--	--	--
AUG 27...	20	.2	.1	.1	3	3	0	0	0	0	0
SEP 19...	--	--	--	--	--	--	--	--	--	--	0

DATE	SILVER, SUS- PENDE RECOV- ERABLE (UG/L AS AG)	SILVER, DIS- SOLVED (UG/L AS AG)	ZINC, TOTAL RECOV- ERABLE (UG/L AS ZN)	ZINC, SUS- PENDE RECOV- ERABLE (UG/L AS ZN)	ZINC, DIS- SOLVED (UG/L AS ZN)	CARBON, ORGANIC TOTAL (MG/L AS C)	CARBON, ORGANIC DIS- SOLVED (MG/L AS C)	CARBON, ORGANIC SUS- PENDE (MG/L AS C)	SEDI- MENT, SUS- PENDE (MG/L)	SEDI- MENT DIS- CHARGE, SUS- PENDE (T/DAY)	SED. SUSP. SIEVE DIAM. % FINER THAN .062 MM
NOV 07...	--	--	--	--	--	8.7	--	--	18	356	56
28...	0	0	40	30	10	--	316	1.1	42	198	81
DEC 19...	--	--	--	--	--	8.5	--	--	4	35	100
JAN 16...	--	--	--	--	--	10	--	--	9	91	78
FEB 13...	0	0	20	0	30	--	383	.3	2	15	100
MAR 13...	--	--	--	--	--	9.8	--	--	10	77	97
APR 15...	--	--	--	--	--	7.3	--	--	18	792	73
MAY 28...	0	0	10	10	0	--	118	--	--	--	--
JUN 16...	--	--	--	--	--	5.9	--	--	4	24	100
JUL 22...	--	--	--	--	--	8.4	--	--	--	--	--
AUG 27...	0	0	30	10	20	--	12	.7	9	56	100
SEP 19...	--	--	--	--	--	8.7	--	--	7	39	100

BIOLOGICAL DATA, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

PERIPHYTON

(Sampling method - Polyethylene strip)

DATES OF EXPOSURE	LENGTH OF EXPO- SURE (DAYS)	PERI- PHYTON BIOMASS TOTAL DRY WEIGHT (G/SQ M)	PERI- PHYTON BIOMASS ASH WEIGHT (G/SQ M)	CHLOR-A PERI- PHYTON CHROMO- GRAPHIC FLUOROM. (MG/M ²)	CHLOR-B PERI- PHYTON CHROMO- GRAPHIC FLUOROM. (MG/M ²)	BIOMASS PIGMENT RATIO
MAY 28 TO JUN 16	19	3.78	.866	1.04	.780	2800
JUL 22 TO AUG 27	36	3.86	1.65	10.5	2.79	210
AUG 27 TO SEP 19	23	1.34	.551	3.13	1.11	252

01059400 ANDROSCOGGIN RIVER AT BRUNSWICK, ME--Continued

PHYTOPLANKTON ANALYSES, OCTOBER 1979 TO SEPTEMBER 1980

DATE TIME	NOV 28,79 1415	MAR 13,80 1415	MAY 28,80 1400	JUN 16,80 1030
TOTAL CELLS/ML	63000	40000	2400	2800
DIVERSITY: DIVISION	0.2	0.0	1.4	1.5
..CLASS	0.2	0.0	1.4	1.5
..ORDER	0.2	0.0	2.3	2.1
...FAMILY	0.2	0.0	3.1	2.3
....GENUS	0.6	0.0	3.6	2.5

ORGANISM	CELLS /ML	PER- CENT	CELLS /ML	PER- CENT	CELLS /ML	PER- CENT	CELLS /ML	PER- CENT
CHLOROPHYTA (GREEN ALGAE)								
..CHLOROPHYCEAE								
...CHLOROCOCCALES								
...HYDRODICTYACEAE								
....PEDIASTRUM	--	-	--	-	--	-	--	-
....MICRACTINIACEAE								
....GOLENKINIA	--	-	--	-	52	2	*	0
....MICRACTINIUM	--	-	--	-	320	14	--	-
...OOCYSTACEAE								
....ANKISTRODESMUS	*	0	--	-	210	9	39	1
....CHLORELLA	--	-	--	-	26	1	--	-
....DICTYOSPHAERIUM	--	-	--	-	300	13	39	1
....OOCYSTIS	--	-	--	-	--	-	--	-
....SELENASTRUM	--	-	--	-	--	-	--	-
....TETRAEDRON	--	-	--	-	--	-	--	-
....TREUBARIA	--	-	--	-	13	1	--	-
....WESTELLA	--	-	--	-	--	-	--	-
...SCENEDESMACEAE								
....ACTINASTRUM	--	-	--	-	--	-	--	-
....CRUCIGENIA	--	-	--	-	--	-	--	-
....SCENEDESMUS	*	0	--	-	26	1	310	11
....TETRASTRUM	--	-	--	-	--	-	52	2
..TETRASPORALES								
...PALMELLACEAE								
....SPHAEROCYSTIS	--	-	--	-	--	-	--	-
..VOLVOCALES								
...CHLAMYDOMONADACEAE								
....CHLAMYDOMONAS	--	-	--	-	180	8	64	2
...VOLVOCAEAE								
....PANDORINA	--	-	--	-	210	9	--	-
CHRYSOPHYTA								
..BACILLARIOPHYCEAE								
...CENTRALES								
...COSCINODISCAEAE								
....CYCLOTELLA	*	0	--	-	150	7	170	6
....MELOSIRA	790	1	--	-	52	2	300	11
...PENNALES								
....ACHNANTHACEAE								
....ACHNANTHES	--	-	*	0	--	-	--	-
...CYMBELLACEAE								
....CYMBELLA	*	0	--	-	13	1	--	-
...FRAGILARIACEAE								
....ASTERIONELLA	--	-	*	0	--	-	--	-
....SYNEDRA	--	-	--	-	150	7	*	0
...GOMPHONEMATACEAE								
....GOMPHONEMA	--	-	--	-	--	-	*	0
...NAVICULACEAE								
....NAVICULA	*	0	*	0	26	1	--	-
...NITZSCHIACEAE								
....NITZSCHIA	*	0	--	-	120	5	120	4
...TABELLARIACEAE								
....TABELLARIA	*	0	--	-	--	-	--	-
...XANTHOPHYCEAE								
...HETEROCOCCALES								
...CHLOROTHECIACEAE								
...OPHIOCYTIUM	--	-	--	-	--	-	--	-
CRYPTOPHYTA (CRYPTOMONADS)								
..CRYPTOPHYCEAE								
...CRYPTOMONADALES								
...CRYPTOCHRYSIDACEAE								
....CHROOMONAS	--	-	--	-	--	-	--	-
...CRYPTOMONADACEAE								
....CRYPTOMONAS	--	-	--	-	--	-	39	1

NOTE: # - DOMINANT ORGANISM; EQUAL TO OR GREATER THAN 15%

* - OBSERVED ORGANISM, MAY NOT HAVE BEEN COUNTED; LESS THAN 1/2%

01059400 ANDROSCOGGIN RIVER AT BRUNSWICK, ME--Continued

PHYTOPLANKTON ANALYSES, OCTOBER 1979 TO SEPTEMBER 1980

DATE TIME	NOV 28,79 1415		MAR 13,80 1415		MAY 28,80 1400		JUN 16,80 1030	
ORGANISM	CELLS /ML	PER- CENT	CELLS /ML	PER- CENT	CELLS /ML	PER- CENT	CELLS /ML	PER- CENT
CYANOPHYTA (BLUE-GREEN ALGAE)								
..CYANOPHYCEAE								
...CHROOCOCCALES								
...CHROOCOCCACEAE								
....ANACYSTIS	--	-	--	-	130	5	220	8
...HORMOGONALES								
...NOSTOCACEAE								
....ANABAENA	--	-	--	-	--	-	--	-
....APHANIZOMENON	--	-	--	-	--	-	--	-
...OSCILLATORIA								
....OSCILLATORIA	4600	7	40000#100		390#	16	1400#	50
....SCHIZOTRICH	57000#	90	--	-	--	-	--	-
PYRRHOPHYTA (FIRE ALGAE)								
..DINOPHYCEAE								
...PERIDINIALES								
...GLENODINIAEAE								
....GLENODINIUM	--	-	--	-	--	-	*	0

NOTE: # - DOMINANT ORGANISM; EQUAL TO OR GREATER THAN 15%

* - OBSERVED ORGANISM, MAY NOT HAVE BEEN COUNTED; LESS THAN 1/2%

01059400 ANDROSCOGGIN RIVER AT BRUNSWICK, ME--Continued

PHYTOPLANKTON ANALYSES, OCTOBER 1979 TO SEPTEMBER 1980

DATE TIME	JUL 22,80 1515	AUG 27,80 1300	SEP 19,80 1000
TOTAL CELLS/ML	33000	6200	8500
DIVERSITY: DIVISION	1.2	1.5	1.3
..CLASS	1.2	1.5	1.3
..ORDER	2.0	1.9	1.8
...FAMILY	2.1	2.2	2.6
....GENUS	2.2	2.4	2.9

ORGANISM	CELLS /ML	PER- CENT	CELLS /ML	PER- CENT	CELLS /ML	PER- CENT
CHLOROPHYTA (GREEN ALGAE)						
..CHLOROPHYCEAE						
...CHLOROCOCCALES						
...HYDRODICTYACEAE						
....PEDIASTRUM	--	-	52	1	--	-
...MICRACTINIACEAE						
....GOLENKINIA	--	-	39	1	*	0
....MICRACTINIUM	--	-	--	-	*	0
...OOCYSTACEAE						
....ANKISTRODESMUS	*	0	100	2	170	2
....CHLORELLA	--	-	--	-	--	-
....DICTYOSPHAERIUM	--	-	*	0	440	5
...OOCYSTIS	900	3	*	0	52	1
....SELENASTRUM	--	-	91	1	65	1
....TETRAEDRON	--	-	*	0	--	-
....TREUBARIA	--	-	--	-	--	-
....WESTELLA	--	-	--	-	350	4
...SCENEDESMACEAE						
....ACTINASTRUM	--	-	100	2	--	-
....CRUCIGENIA	--	-	52	1	--	-
...SCENEDESMUS	360	1	390	6	410	5
....TETRASTRUM	360	1	--	-	--	-
...TETRASPORALES						
...PALMELLACEAE						
...SPHAEROCYSTIS	--	-	--	-	120	1
...VOLVOCALES						
...CHLAMYDOMONADACEAE						
...CHLAMYDOMONAS	270	1	39	1	100	1
...VOLVOCAEAE						
...PANDORINA	--	-	--	-	--	-
CHRYSTOPHYTA						
..BACILLARIOPHYCEAE						
...CENTRALES						
...COSCINODISCAEAE						
....CYCLOTELLA	1300	4	39	1	65	1
....MELOSIRA	2700	8	2800#	46	810	10
...PENNALES						
...ACHNANTHACEAE						
....ACHNANTHES	--	-	--	-	--	-
...CYMBELLACEAE						
....CYMBELLA	--	-	--	-	--	-
...FRAGILARIACEAE						
....ASTERIONELLA	17000#	52	--	-	52	1
....SYNEDRA	--	-	*	0	*	0
...GOMPHONEMACEAE						
....GOMPHONEMA	--	-	--	-	--	-
...NAVICULACEAE						
....NAVICULA	--	-	--	-	52	1
...NITZSCHIAEAE						
....NITZSCHIA	*	0	*	0	65	1
...TABELLARIACEAE						
....TABELLARIA	--	-	--	-	--	-
...XANTHOPHYCEAE						
...HETEROCOCCALES						
...CHLOROTHECIAEAE						
...OPHIOCYTIUM	--	-	--	-	*	0
CRYPTOPHYTA (CRYPTOMONADS)						
..CRYPTOPHYCEAE						
...CRYPTOMONADALES						
...CRYPTOCHRYSIDACEAE						
....CHROOMONAS	--	-	--	-	*	0
...CRYPTOMONADACEAE						
....CRYPTOMONAS	*	0	*	0	--	-

NOTE: # - DOMINANT ORGANISM; EQUAL TO OR GREATER THAN 15%

* - OBSERVED ORGANISM, MAY NOT HAVE BEEN COUNTED; LESS THAN 1/2%

01059400 ANDROSCOGGIN RIVER AT BRUNSWICK, ME--Continued

PHYTOPLANKTON ANALYSES, OCTOBER 1979 TO SEPTEMBER 1980

DATE TIME	JUL 22,80 1515		AUG 27,80 1300		SEP 19,80 1000	
ORGANISM	CELLS /ML	PER- CENT	CELLS /ML	PER- CENT	CELLS /ML	PER- CENT
CYANOPHYTA (BLUE-GREEN ALGAE)						
..CYANOPHYCEAE						
...CHROOCOCCALES						
...CHROOCOCCACEAE						
...ANACYSTIS	4500	14	1700#	28	660	8
...HORMOGONALES						
...NOSTOCACEAE						
....ANABAENA	--	-	320	5	--	-
....APHANIZOMENON	--	-	--	-	3500#	41
...OSCILLATORIA	5400#	16	280	5	1500#	17
...SCHIZOTHRIX	--	-	--	-	--	-
PYRRHOPHYTA (FIRE ALGAE)						
..DINOPHYCEAE						
...PERIDINIALES						
...GLENODINIACEAE						
...GLENODINIUM	--	-	--	-	--	-

NOTE: # - DOMINANT ORGANISM; EQUAL TO OR GREATER THAN 15%

* - OBSERVED ORGANISM, MAY NOT HAVE BEEN COUNTED; LESS THAN 1/2%

ANDROSCOGGIN RIVER BASIN

01059400 ANDROSCOGGIN RIVER AT BRUNSWICK, ME--Continued

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

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
	OCTOBER			NOVEMBER			DECEMBER			JANUARY		
1	160	151	158	142	133	139						
2	153	140	149	134	123	130						
3	140	136	139	124	104	112						
4	139	128	134	108	101	104						
5	141	129	134	128	109	118						
6	146	142	145	134	124	130						
7	151	144	147	---	---	---						
8	151	143	146	---	---	---						
9	146	141	144	---	---	---						
10	142	135	137	---	---	---						
11	134	125	129	---	---	---						
12	126	113	120	---	---	---						
13	114	100	105	---	---	---						
14	103	99	102	---	---	---						
15	102	97	100	---	---	---						
16	105	97	100	---	---	---						
17	108	105	106	---	---	---						
18	109	106	108	---	---	---						
19	116	107	111	---	---	---						
20	117	115	116	---	---	---						
21	120	116	119	---	---	---						
22	121	118	120	---	---	---						
23	122	120	121	---	---	---						
24	122	120	121	---	---	---						
25	124	121	123	---	---	---						
26	130	124	126	---	---	---						
27	134	129	131	---	---	---						
28	139	134	137	---	---	---						
29	143	139	141	---	---	---						
30	143	142	142	---	---	---						
31	146	141	143	---	---	---						
MONTH	160	97	128	142	101	122						

[illegible]

01059400 ANDROSCOGGIN RIVER AT BRUNSWICK, ME--Continued

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

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		JUNE			JULY			AUGUST			SEPTEMBER	
1	---	---	---	---	---	---				---	---	---
2	---	---	---	---	---	---				---	---	---
3	---	---	---	---	---	---				---	---	---
4	---	---	---	---	---	---				---	---	---
5	---	---	---	---	---	---				---	---	---
6	---	---	---	---	---	---				---	---	---
7	---	---	---	---	---	---				---	---	---
8	---	---	---	153	102	119				---	---	---
9	---	---	---	177	151	168				---	---	---
10	---	---	---	214	168	204				---	---	---
11	---	---	---	214	212	213				---	---	---
12	---	---	---	209	198	207				---	---	---
13	---	---	---	202	155	188				---	---	---
14	---	---	---	185	154	176				---	---	---
15	---	---	---	176	152	167				---	---	---
16	---	---	---	168	160	164				---	---	---
17	150	145	147	160	146	154				---	---	---
18	148	143	145	143	104	126				---	---	---
19	142	139	141	121	95	112				---	---	---
20	140	137	139	104	87	98				183	177	179
21	138	135	137	108	86	103				188	175	181
22	135	132	134	---	---	---				204	175	183
23	140	130	135	---	---	---				204	170	178
24	141	135	139	---	---	---				182	175	179
25	142	138	139	---	---	---				175	172	174
26	144	139	142	---	---	---				172	162	166
27	144	141	142	---	---	---				191	163	165
28	144	138	141	---	---	---				171	164	167
29	143	141	142	---	---	---				170	164	167
30	144	139	140	---	---	---				166	159	163
31	---	---	---	---	---	---				---	---	---
MONTH	150	130	140	214	86	157				204	159	173
YEAR	214	86	141									

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

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
	OCTOBER			NOVEMBER			DECEMBER			JANUARY		
1	17.0	16.5	16.5	10.0	9.0	9.5	7.0	6.5	6.5	.0	.0	.0
2	16.5	16.0	16.5	10.5	9.0	9.5	7.0	6.0	6.5	.0	.0	.0
3	16.5	16.0	16.0	10.5	9.0	10.0	---	---	---	.0	.0	.0
4	17.0	16.0	16.5	9.0	8.5	8.5	5.0	4.5	5.0	.0	.0	.0
5	16.5	16.0	16.5	8.5	8.0	8.5	5.0	4.0	4.5	.0	.0	.0
6	17.0	16.0	16.5	8.0	7.5	7.5	4.5	4.0	4.5	.0	.0	.0
7	16.0	15.5	16.0	8.0	7.0	7.5	5.5	4.5	5.0	.0	.0	.0
8	15.5	14.5	15.0	7.5	6.5	7.5	4.5	3.0	4.0	.0	.0	.0
9	14.5	13.0	13.5	7.5	7.0	7.5	2.0	1.5	2.0	.0	.0	.0
10	13.0	12.0	12.5	8.5	8.0	8.0	1.5	1.5	1.5	.0	.0	.0
11	12.5	12.0	12.0	8.5	8.0	8.5	1.5	1.5	1.5	.0	.0	.0
12	12.0	11.5	12.0	8.0	7.5	8.0	2.5	1.5	2.0	.0	.0	.0
13	11.5	11.0	11.5	7.5	7.0	7.0	2.5	1.5	2.0	.0	.0	.0
14	11.0	10.0	11.0	7.0	6.5	7.0	---	---	---	.0	.0	.0
15	10.0	9.5	9.5	6.5	6.0	6.5	---	---	---	.0	.0	.0
16	10.0	9.0	9.5	6.5	5.5	6.0	---	---	---	.0	.0	.0
17	9.5	9.0	9.0	5.5	5.0	5.0	---	---	---	.0	.0	.0
18	10.0	9.0	9.5	6.0	5.0	5.5	---	.0	---	.0	.0	.0
19	10.0	9.0	9.0	5.5	4.0	5.0	.0	.0	.0	.0	.0	.0
20	10.0	9.0	9.5	5.0	4.5	5.0	.0	.0	.0	.0	.0	.0
21	11.0	9.5	10.5	6.0	5.0	5.5	.0	.0	.0	.0	.0	.0
22	12.0	10.5	11.0	6.0	5.5	6.0	.0	.0	.0	.0	.0	.0
23	12.5	11.0	11.5	6.5	6.0	6.0	.0	.0	.0	.0	.0	.0
24	11.5	11.0	11.5	7.0	6.0	6.5	.0	.0	.0	.0	.0	.0
25	11.0	10.0	10.5	7.0	6.5	6.5	.0	.0	.0	.0	.0	.0
26	10.0	9.5	9.5	7.5	6.5	7.0	.0	.0	.0	.0	.0	.0
27	10.0	9.5	9.5	7.5	6.5	7.0	.0	.0	.0	.0	.0	.0
28	9.5	9.5	9.5	7.0	6.0	6.5	.0	.0	.0	.0	.0	.0
29	9.5	9.0	9.5	7.0	6.5	6.5	.0	.0	.0	.0	.0	.0
30	9.5	9.0	9.5	7.0	6.5	6.5	.0	.0	.0	.0	.0	.0
31	10.0	9.0	9.5	---	---	---	.0	.0	.0	.0	.0	.0
MONTH	17.0	9.0	12.0	10.5	4.0	7.0	7.0	.0	2.0	.0	.0	.0

01059400 ANDROSCOGGIN RIVER AT BRUNSWICK, ME--Continued

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

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
	FEBRUARY			MARCH			APRIL			MAY		
1	.0	.0	.0	.0	.0	.0						
2	.0	.0	.0	.0	.0	.0						
3	.0	.0	.0	.0	.0	.0						
4	.0	.0	.0	.0	.0	.0						
5	.0	.0	.0	.0	.0	.0						
6	.0	.0	.0	.0	.0	.0						
7	.0	.0	.0	.0	.0	.0						
8	.0	.0	.0	.0	.0	.0						
9	.0	.0	.0	.0	.0	.0						
10	.0	.0	.0	.0	.0	.0						
11	.0	.0	.0	.0	.0	.0						
12	.0	.0	.0	.0	.0	.0						
13	.0	.0	.0	.0	.0	.0						
14	.0	.0	.0	---	---	---						
15	.0	.0	.0	---	---	---						
16	.0	.0	.0	---	---	---						
17	.0	.0	.0	---	---	---						
18	.0	.0	.0	---	---	---						
19	.0	.0	.0	---	---	---						
20	.0	.0	.0	---	---	---						
21	.0	.0	.0	---	---	---						
22	.0	.0	.0	---	---	---						
23	.0	.0	.0	---	---	---						
24	.0	.0	.0	---	---	---						
25	.0	.0	.0	---	---	---						
26	.0	.0	.0	---	---	---						
27	.0	.0	.0	---	---	---						
28	.0	.0	.0	---	---	---						
29	.0	.0	.0	---	---	---						
30	---	---	---	---	---	---						
31	---	---	---	---	---	---						
MONTH	.0	.0	.0	.0	.0	.0						
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
	JUNE			JULY			AUGUST			SEPTEMBER		
1	---	---	---	20.0	15.5	19.5	27.0	25.0	26.0	25.0	23.0	24.0
2	---	---	---	19.5	19.0	19.0	27.0	25.0	26.0	25.0	24.0	24.5
3	---	---	---	20.5	19.0	19.5	26.5	25.5	26.0	25.0	24.0	24.5
4	---	---	---	22.0	19.5	21.0	27.0	25.5	26.0	24.5	23.0	23.5
5	---	---	---	22.5	20.5	21.5	27.0	25.5	26.5	23.0	22.5	23.0
6	---	---	---	21.5	20.0	21.0	27.5	24.5	27.0	24.0	22.5	23.0
7	---	---	---	22.0	19.0	20.5	---	---	---	24.0	22.5	23.0
8	---	---	---	20.5	19.5	20.0	---	---	---	---	---	---
9	---	---	---	22.5	20.5	21.5	---	---	---	---	---	---
10	---	---	---	24.0	21.5	23.0	---	---	---	---	---	---
11	---	---	---	24.0	23.5	23.5	---	---	---	---	---	---
12	---	---	---	24.5	23.5	24.0	---	---	---	---	---	---
13	---	---	---	24.0	22.0	23.0	---	---	---	---	---	---
14	---	---	---	24.0	22.5	23.5	---	---	---	---	---	---
15	---	---	---	23.5	22.0	23.0	---	---	---	---	---	---
16	---	---	---	24.5	23.5	24.0	---	---	---	---	---	---
17	20.5	19.0	19.5	24.5	23.5	24.0	---	---	---	---	---	---
18	20.0	18.5	19.0	25.0	24.0	24.0	---	---	---	---	---	---
19	20.0	18.0	19.0	25.0	22.5	24.0	---	---	---	---	---	---
20	18.5	17.5	18.0	25.0	23.0	24.0	---	---	---	18.0	17.5	17.5
21	18.5	17.0	17.5	26.0	24.0	24.5	---	---	---	19.5	17.0	18.0
22	19.5	16.5	18.0	26.0	24.0	25.0	---	---	---	19.0	17.5	18.5
23	20.5	17.5	19.0	25.5	24.5	25.0	---	---	---	19.5	18.0	18.5
24	21.5	19.0	20.0	25.5	24.5	25.0	---	---	---	19.0	17.0	18.0
25	22.0	19.5	21.0	25.5	24.0	25.0	---	---	---	17.5	16.5	17.0
26	22.5	20.5	21.5	25.5	24.5	25.0	---	---	---	17.0	16.0	16.5
27	22.5	20.5	21.5	26.0	24.5	25.0	---	---	---	16.5	15.5	16.0
28	22.0	20.0	21.0	26.5	24.5	25.5	25.0	24.0	24.5	16.5	15.0	15.5
29	20.5	19.5	20.0	26.0	24.5	25.5	24.5	23.5	24.0	15.5	14.0	15.0
30	20.0	15.5	19.0	26.0	25.0	25.5	24.5	22.5	23.5	15.5	14.0	14.5
31	---	---	---	26.5	24.5	25.5	24.5	22.5	23.5	---	---	---
MONTH	22.5	15.5	19.5	26.5	15.5	23.0	27.5	22.5	25.5	25.0	14.0	19.5
YEAR	27.5	.0	9.5									

Reservoirs in Androscoggin River Basin

- 01050500 RANGELEY LAKE on Rangeley Stream, at Oquossoc, Maine, used for power, has usable capacity of 1,339,200,000 ft³ (37,926,000 m³) in top 4.0 ft (1.22 m) of lake (top of flashboards). Gage-height record furnished by Union Water Power Co.
- 01051000 MOOSELOOKMEGUNTIC LAKE at Upper Dam, in Richardson Township, Maine, used for power, has usable capacity of 8,370,000,000 ft³ (237,000,000 m³) between gage heights 8.3 ft (2.53 m) and 20.5 ft (6.25 m). Gage-height record furnished by Union Water Power Co.
- 01051500 UPPER AND LOWER RICHARDSON LAKES on Rapid River, at Middle Dam, Maine, used for power has usable capacity of 5,691,500,000 ft³ (161,180,000 m³) between gage heights 3.0 ft (0.91 m) and 20.5 ft (6.25 m). Gage-height record furnished by Union Water Power Co.
- 01052000 AZISCOHOS LAKE on Magalloway River in Lincoln Township, 3 mi (5 km) east of village of Wilsons Mills, Maine, completed in 1911 for power, has usable capacity of 9,593,000,000 ft³ (271,700,000 m³) between elevations 1,490.0 ft (454.15 m) and 1,535.0 ft (467.87 m). Elevation record furnished by Union Water Power Co.
- 01053000 UMBAGOG LAKE on Androscoggin River at Errol Dam, 0.6 mi (1.0 km) northeast of Errol, NH, used for power, has usable capacity of 3,080,160,000 ft³ (87,230,100 m³) between gage heights 5.5 ft (1.68 m) and 15.0 ft (4.57 m). Gage-height record furnished by Union Water Power Co.
- 01056000 GULF ISLAND POND on Androscoggin River, 3 mi (5 km) upstream from Lewiston, Maine, completed in 1928 for power, has capacity of 1,100,000,000 ft³ (31,150,000 m³) in top 10 ft (3 m) of pond below elevation 262.0 ft (79.86 m). Elevation record furnished by Central Maine Power Co.
- 01056500 LAKE AUBURN on outlet stream to Androscoggin River at East Auburn, Maine, used for storing water supply of Auburn and Lewiston, has usable capacity of 580,000,000 ft³ (16,430,000 m³) between elevations 254.7 ft (77.63 m) and 260.7 ft (79.46 m). Elevation record furnished by Auburn Water District.
- 01058000 THOMPSON LAKE on short outlet stream to Little Androscoggin River at Oxford, Maine, used for process water, has usable capacity of 950,000,000 ft³ (26,900,000 m³) between gage heights 95.0 ft (28.96 m) and 100.0 ft (30.48 m). Gage-height record furnished by Robinson Manufacturing Co.

MONTHEND CONTENTS IN MILLIONS OF CUBIC FEET, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

DATE	RANGELEY LAKE	MOOSELOOKMEGUNTIC LAKE	UPPER AND LOWER RICHARDSON LAKES	AZISCOHOS LAKE
SEPT. 30, 1979	572	2097	4602	6576
OCT. 31	392	468	5087	6408
NOV. 30	335	1698	4436	7430
DEC. 31	294	734	3474	8036
JAN. 31, 1980	251	186	1830	7304
FEB. 29	40	0	938	4435
MAR. 31	0	0	653	1480
APR. 30	1229	3314	1536	4916
MAY 31	1269	4677	3069	6226
JUNE 30	1212	4300	3307	5469
JULY 31	1185	3790	3455	4903
AUG. 31	1172	3450	2941	4235
SEPT. 30	1061	1266	4195	3974
DATE	UMBAGOG LAKE	GULF ISLAND POND	LAKE AUBURN	THOMPSON LAKE
SEPT. 30, 1979	1776	2469	364	1742
OCT. 31	1488	2356	375	1537
NOV. 30	1470	2466	375	1537
DEC. 31	1030	2348	375	1457
JAN. 31, 1980	1030	2159	342	1552
FEB. 29	1156	2149	331	1584
MAR. 31	1188	2484	397	1710
APR. 30	2358	2495	640	1932
MAY 31	1884	2245	616	1932
JUNE 30	1596	2459	568	1900
JULY 31	1524	2338	520	1837
AUG. 31	1488	2038	463	1805
SEPT. 30	2148	1913	419	1687

NOTE.--Contents of Gulf Island Pond at 2400, Thompson Lake at 0800. Contents of all others at 0700 on first day of following month.

ROYAL RIVER BASIN

01059800 COLLYER BROOK NEAR GRAY, ME

LOCATION.--Lat 43°55'03", long 70°19'02", Cumberland County, Hydrologic Unit 01060001, 50 ft (15 m) downstream from U.S. Highway 202, 2.4 mi (3.9 km) northeast of Gray, and 3.4 mi (5.5 km) upstream from mouth.

DRAINAGE AREA.--13.9 mi² (36.0 km²).

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

GAGE.--Water-stage recorder. Altitude of gage is 180 ft (54.9 m), from topographic map.

REMARKS.--Records fair. Several observations of water temperature and specific conductance were made during the year.

AVERAGE DISCHARGE.--16 years, 27.8 ft³/s (0.787 m³/s), 27.16 in/yr (690 mm/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 1,220 ft³/s (34.6 m³/s) Dec. 27, 1969, gage height, 3.48 ft (1.061 m); maximum gage height, 4.30 ft (1.311 m) Feb. 14, 1972, (backwater from ice); minimum daily discharge, 6.4 ft³/s (0.18 m³/s) Jan. 29, 1966.

EXTREMES FOR CURRENT YEAR.--Peak discharges above base of 175 ft³/s (4.96 m³/s) and maximums (*):

Date	Time	Discharge (ft ³ /s) (m ³ /s)	Gage height (ft) (m)	Date	Time	Discharge (ft ³ /s) (m ³ /s)	Gage height (ft) (m)
Nov. 03	1815	191 5.41	1.97 0.600	Apr. 10	1830	* 830 23.5	3.14 0.957
Dec. 21	0400	ice jam	* 3.16 0.963				

Minimum daily discharge, 9.1 ft³/s (0.258 m³/s) Aug. 18.

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	17	19	21	17	13	12	21	34	16	12	12	11
2	40	19	21	17	13	12	20	29	16	13	14	12
3	82	112	19	16	13	12	19	26	17	14	14	21
4	66	85	19	15	13	12	35	24	19	13	16	12
5	55	35	19	15	13	12	31	22	17	12	12	11
6	45	29	19	15	13	12	24	22	16	12	12	11
7	64	27	26	15	13	12	23	21	15	11	12	11
8	60	25	22	15	13	13	23	40	16	11	11	10
9	54	23	20	15	13	18	23	34	15	12	11	9.7
10	45	31	19	20	13	16	310	27	14	13	10	11
11	35	29	18	26	13	35	277	24	13	13	11	10
12	28	28	19	21	12	20	63	23	14	16	15	9.4
13	51	26	19	18	12	16	44	22	14	13	13	9.7
14	30	25	18	18	12	21	38	21	14	12	12	13
15	26	25	18	16	12	19	67	21	13	12	12	15
16	24	23	19	16	12	13	79	20	17	12	11	11
17	22	21	20	15	12	12	42	19	14	12	10	11
18	22	21	16	15	12	120	34	19	13	12	9.1	13
19	21	20	16	15	12	40	31	21	13	11	15	11
20	20	20	15	15	12	28	29	19	17	11	18	11
21	20	20	15	15	12	22	29	19	30	12	15	11
22	20	21	15	15	12	25	27	18	19	14	13	10
23	19	23	14	15	13	31	42	17	16	13	12	10
24	20	21	16	14	12	30	35	17	14	12	11	10
25	22	20	50	14	12	26	29	17	13	12	11	9.8
26	20	29	39	14	12	19	29	16	13	12	11	25
27	19	45	26	14	12	21	29	16	12	11	11	14
28	19	29	22	14	12	18	27	16	12	10	11	12
29	23	26	19	14	12	18	36	15	11	15	11	11
30	20	23	19	13	---	29	51	15	11	22	11	11
31	19	---	18	13	---	25	---	15	---	14	12	---
TOTAL	1028	900	636	490	360	719	1567	669	454	394	379.1	357.6
MEAN	33.2	30.0	20.5	15.8	12.4	23.2	52.2	21.6	15.1	12.7	12.2	11.9
MAX	82	112	50	26	13	120	310	40	30	22	18	25
MIN	17	19	14	13	12	12	19	15	11	10	9.1	9.4
CFSM	2.39	2.16	1.48	1.14	.89	1.67	3.76	1.55	1.09	.91	.88	.86
IN.	2.75	2.41	1.70	1.31	.96	1.92	4.19	1.79	1.21	1.05	1.01	.96

CAL YR 1979	TOTAL	12415.0	MEAN 34.0	MAX 436	MIN 12	CFSM 2.45	IN 33.22
WTR YR 1980	TOTAL	7953.7	MEAN 21.7	MAX 310	MIN 9.1	CFSM 1.56	IN 21.28

01060000 ROYAL RIVER AT YARMOUTH, ME

LOCATION.--Lat 43°47'57", long 70°10'45", Cumberland County, Hydrologic Unit 01060001, on right bank 150 ft (46 m) upstream from lower highway bridge in Yarmouth.

DRAINAGE AREA.--142 mi² (368 km²).

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

GAGE.--Water-stage recorder. Altitude of gage is 10 ft (3.0 m), from topographic map.

REMARKS.--Records good except those for winter period and period of no gage-height record, Oct. 19 to Nov. 26, which are fair. Some diurnal fluctuation at low flow caused by mill upstream. Several observations of water temperature and specific conductance were made during the year.

AVERAGE DISCHARGE.--31 years, 276 ft³/s (7.816 m³/s), 26.39 in/yr (670 mm/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 11,500 ft³/s (326 m³/s) Mar. 13, 1977, gage height, 8.46 ft (2.579 m), from rating curve extended above 5,200 ft³/s (150 m³/s); minimum, 2.3 ft³/s (0.07 m³/s) July 23, 24, 1980, gage height, 0.48 ft (0.146 m), caused by unusual regulation.

EXTREMES FOR CURRENT YEAR.--Peak discharges above base of 1,500 ft³/s (42 m³/s) and maximum (*):

Date	Time	Discharge (ft ³ /s) (m ³ /s)	Gage height (ft) (m)	Date	Time	Discharge (ft ³ /s) (m ³ /s)	Gage height (ft) (m)
Nov. 04	--	1900 53.8	-- --	Apr. 11	0900	* 4950 140	5.71 1.740
Mar. 18	2000	2120 60.0	3.76 1.146				

Minimum discharge, 2.3 ft³/s (0.07 m³/s) July 23, 24, gage height, 0.48 ft (0.146 m), caused by unusual regulation.

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	64	180	214	150	57	50	373	442	64	44	49	29
2	447	160	188	135	56	49	317	356	62	47	47	30
3	472	1100	167	120	55	46	287	293	64	45	44	38
4	887	1700	157	105	54	44	373	248	73	43	47	47
5	689	800	150	92	53	43	705	214	89	41	49	41
6	617	480	144	85	52	45	513	194	78	38	45	36
7	510	370	180	75	51	47	369	184	67	35	40	31
8	662	310	215	72	50	50	308	383	63	35	41	29
9	627	280	171	70	49	62	293	575	62	40	41	27
10	587	390	149	68	48	80	2170	396	63	42	39	27
11	440	490	138	66	47	285	4610	294	58	41	36	26
12	367	450	128	89	46	350	2540	247	53	38	36	29
13	670	420	134	98	45	205	1130	216	51	40	30	37
14	549	390	127	91	45	130	674	201	49	38	33	32
15	361	360	113	88	44	149	638	183	47	40	35	32
16	278	340	118	86	44	167	950	164	48	36	34	34
17	226	310	150	80	44	142	815	147	52	37	32	37
18	200	290	190	78	44	1270	547	134	48	40	29	38
19	185	265	153	75	44	1810	419	146	30	38	32	37
20	175	255	116	73	43	1090	359	160	43	33	43	37
21	170	250	98	71	43	691	336	139	132	38	50	33
22	160	250	82	69	45	479	307	128	164	33	47	31
23	155	245	85	67	48	610	425	113	99	5.7	41	30
24	150	240	99	65	50	668	494	102	63	7.5	37	27
25	430	250	316	64	51	607	388	94	58	21	33	27
26	310	490	821	63	52	448	326	86	54	28	31	43
27	190	483	606	62	52	442	312	80	49	27	29	68
28	220	434	370	61	52	409	285	77	44	48	28	65
29	260	320	260	60	51	403	304	72	40	44	27	50
30	230	259	232	59	---	466	518	69	41	46	27	42
31	205	---	185	58	---	468	---	65	---	53	27	---
TOTAL	11493	12561	6256	2495	1415	11805	22085	6202	1908	1142.2	1159	1090
MEAN	371	419	202	80.5	48.8	381	736	200	63.6	36.8	37.4	36.3
MAX	887	1700	821	150	57	1810	4610	575	164	53	50	68
MIN	64	160	82	58	43	43	285	65	30	5.7	27	26
CFSM	2.61	2.95	1.42	.57	.34	2.68	5.18	1.41	.45	.26	.26	.26
IN.	3.01	3.29	1.64	.65	.37	3.09	5.79	1.62	.50	.30	.30	.29

CAL YR 1979 TOTAL 125365.0 MEAN 343 MAX 4220 MIN 40 CFSM 2.42 IN 32.84
WTR YR 1980 TOTAL 79611.2 MEAN 218 MAX 4610 MIN 5.7 CFSM 1.54 IN 20.86

PRESUMPSCOT RIVER BASIN

01064140 PRESUMPSCOT RIVER NEAR WEST FALMOUTH, ME
(National stream-quality accounting network station)

LOCATION.--Lat 43°43'28", long 70°18'12", Cumberland County, Hydrologic Unit 01080001, on right bank 50 ft (15 m) upstream from bridge on Blackstrap Road, 0.1 mi (0.2 km) downstream from Maine Turnpike, 0.6 mi (1.0 km) downstream from Meader Brook, 0.9 mi (1.4 km) upstream from Piscataqua River, and 1.5 mi (2.4 km) south of West Falmouth.

DRAINAGE AREA.--590 mi² (1,528 km²).

WATER-DISCHARGE RECORDS

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

GAGE.--Water-stage recorder. Datum of gage is 11.15 ft (3.399 m) National Geodetic Vertical Datum of 1929.

REMARKS.--Records fair. Flow regulated by Sebago Lake and many small powerplants upstream.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 12,500 ft³/s (354 m³/s) Mar. 14, 1977, gage height, 21.11 ft (6.434 m); minimum daily, 39 ft³/s (1.10 m³/s) July 9, 1976.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 6,350 ft³/s (180 m³/s) Apr. 11, gage height, 14.55 ft (4.435 m); minimum daily, 141 ft³/s (3.99 m³/s) July 5.

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	791	867	812	867	473	330	656	893	412	747	462	397
2	1510	841	812	738	475	318	601	741	349	416	406	338
3	1310	1880	803	744	422	318	554	659	368	188	394	433
4	2150	2490	790	729	465	298	674	638	435	186	403	422
5	1400	1390	769	716	419	300	1100	695	433	141	428	385
6	1310	1060	765	692	403	308	753	722	365	228	448	433
7	1220	936	863	689	377	346	595	630	360	454	489	388
8	1370	890	903	674	315	354	595	974	441	343	295	406
9	1330	893	812	704	478	519	587	930	456	433	286	446
10	1290	1050	781	726	341	551	3350	674	362	394	336	454
11	1180	1080	803	635	354	933	4660	584	300	357	357	489
12	1210	1070	735	738	371	723	1730	554	343	394	362	425
13	1810	1020	796	707	365	527	1220	481	397	357	403	481
14	1310	1020	744	719	388	441	1000	495	368	346	374	498
15	1130	981	772	601	328	465	1070	524	410	362	351	481
16	1010	933	784	538	333	443	1360	516	391	360	394	481
17	1010	906	784	506	346	403	1090	441	435	374	343	486
18	1030	910	735	522	377	2370	854	343	357	380	349	478
19	993	850	732	554	308	1680	630	365	412	385	410	473
20	968	841	735	522	325	1020	732	486	388	365	419	441
21	958	825	726	391	323	873	732	509	540	357	374	441
22	940	838	713	492	318	744	576	473	524	357	406	443
23	925	831	753	524	315	828	765	451	430	368	365	388
24	875	822	775	524	315	920	695	451	456	362	346	438
25	1120	828	1350	503	328	870	592	443	403	320	403	456
26	986	870	1770	506	330	732	495	438	382	295	313	527
27	862	1200	1140	506	328	701	538	430	351	346	403	486
28	879	1040	953	486	325	668	567	397	360	410	354	454
29	933	896	896	481	357	668	747	428	478	618	360	446
30	936	828	781	481	---	744	1210	400	784	692	419	448
31	897	---	806	478	---	762	---	410	---	627	397	---
TOTAL	35643	30886	26393	14693	10602	21157	30728	17175	12490	11962	11849	13362
MEAN	1150	1030	851	603	366	682	1024	554	416	386	382	445
MAX	2150	2490	1770	867	478	2370	4660	974	784	747	489	527
MIN	791	822	713	391	308	298	495	343	300	141	286	338
CAL YR 1979	TOTAL	410967	MEAN	1126	MAX	4940	MIN	126				
WTR YR 1980	TOTAL	240940	MEAN	658	MAX	4660	MIN	141				

01064140 PRESUMPCOT RIVER NEAR WEST FALMOUTH, ME--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 1973-74; 1976 to current year.

PERIOD OF DAILY RECORD.--

SPECIFIC CONDUCTANCE: July 1976 to current year.

pH: July 1976 to current year.

WATER TEMPERATURES: July 1976 to current year.

DISSOLVED OXYGEN: July 1976 to current year.

INSTRUMENTATION.--Water-quality monitor since July 1976.

EXTREMES OUTSIDE PERIOD OF DAILY RECORD.--A dissolved oxygen of 1.6 mg/L was observed July 9, 1976.

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

EXTREMES FOR PERIOD OF DAILY RECORD.--

SPECIFIC CONDUCTANCE: Maximum, 375 micromhos Jan. 8, 1979; minimum, 30 micromhos June 17-24, 1977.

pH: Maximum, 9.4 units Dec. 7, 1977; minimum, 5.3 units May 22, 1978.

WATER TEMPERATURES: Maximum, 29.0°C July 21, 1977, Aug. 8, 9, 1980; minimum, 0.0°C on many days during winter periods.

DISSOLVED OXYGEN: Maximum, 14.0 mg/L Feb. 15, 1978; minimum, 4.4 mg/L Aug. 8, 1980.

EXTREMES FOR CURRENT YEAR.--

SPECIFIC CONDUCTANCE: Maximum, 273 micromhos Mar. 8; minimum, 49 micromhos June 30.

pH: Maximum, 8.3 units July 18; minimum, 6.4 units on many days during water year.

WATER TEMPERATURES: Maximum, 29.0°C Aug. 8, 9; minimum, 0.0°C on many days during winter period.

DISSOLVED OXYGEN.--Maximum, 13.7 mg/L Dec. 20, 21; minimum, 4.4 mg/L Aug. 8.

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

DATE	TIME	STREAM- FLOW, INSTAN- TANEOUS (CFS)	SPE- CIFIC CON- DUCT- ANCE (MICRO- MHOS)	PH FIELD (UNITS)	TEMPER- ATURE, AIR (DEG C)	TEMPER- ATURE, WATER (DEG C)	TUR- BID- ITY (NTU)	OXYGEN, DIS- SOLVED (MG/L)	OXYGEN, DIS- SOLVED SATUR- ATION	COLI- FORM, FECAL, 0.7 UM-MF (COLS./ 100 ML)	STREP- TOCOCCI FECAL, KF AGAR (COLS./ 100 ML)	HARD- NESS (MG/L AS CACO3)
NOV												
05...	0900	1490	90	6.6	9.0	9.0	3.0	11.0	95	920	780	17
26...	1200	1020	105	7.1	12.0	9.5	3.0	10.4	91	240	390	17
DEC												
19...	1045	850	90	6.8	-4.0	1.0	3.0	13.2	93	>3000	210	17
JAN												
16...	1130	615	112	6.8	-1.0	2.5	3.5	12.8	93	K3600	K60	16
FEB												
13...	1300	384	170	6.9	6.0	1.5	3.5	12.3	88	5800	K80	24
MAR												
13...	1215	520	160	6.7	2.0	1.0	5.5	12.6	89	K4400	350	20
APR												
15...	1415	1030	105	6.9	12.0	7.0	2.5	10.6	87	320	75	20
MAY												
28...	1115	475	130	7.1	18.5	16.5	4.5	8.1	82	430	88	20
JUN												
16...	1430	434	108	6.9	20.0	20.0	1.5	7.5	82	K950	58	17
JUL												
22...	1100	362	168	7.4	31.0	26.0	7.3	6.8	83	2700	68	28
AUG												
27...	1000	438	125	7.1	25.5	24.0	2.1	6.7	79	2400	530	19
SEP												
19...	1330	479	123	7.1	18.0	19.0	3.9	8.6	91	K5000	K18	23

DATE	HARD- NESS, NONCAR- BONATE (MG/L AS CACO3)	CALCIUM DIS- SOLVED (MG/L AS CA)	MAGNE- SIUM, DIS- SOLVED (MG/L AS MG)	SODIUM, DIS- SOLVED (MG/L AS NA)	SODIUM PERCENT	SODIUM AD- SORP- TION RATIO	POTAS- SIUM, DIS- SOLVED (MG/L AS NA)	POTAS- SIUM, DIS- SOLVED (MG/L AS K)	ALKA- LINITY (MG/L AS CACO3)	SULFATE DIS- SOLVED (MG/L AS SO4)	CHLO- RIDE, DIS- SOLVED (MG/L AS CL)	FLUO- RIDE, DIS- SOLVED (MG/L AS F)
NOV												
05...	8	5.2	.9	7.8	48	.8	9.4	1.6	9	6.8	10	.1
26...	0	5.4	.8	11	62	1.2	12	.8	20	6.9	14	.0
DEC												
19...	4	5.3	.8	9.7	60	1.0	11	.8	13	6.5	12	.0
JAN												
16...	0	5.2	.8	13	62	1.4	14	.9	39	8.9	15	.1
FEB												
13...	0	8.1	.9	18	61	1.6	19	1.0	25	12	21	.1
MAR												
13...	3	6.5	1.0	14	56	1.4	17	3.1	17	8.3	18	.1
APR												
15...	8	6.3	1.0	11	53	1.1	--	1.2	12	8.1	14	.1
MAY												
28...	0	6.4	.9	22	70	2.2	--	1.0	22	9.8	18	.1
JUN												
16...	2	5.5	.7	11	57	1.2	--	1.1	15	7.4	12	.1
JUL												
22...	0	10	.8	19	58	1.6	--	1.2	34	11	23	.1
AUG												
27...	0	6.4	.8	14	60	1.4	--	.9	20	9.7	18	.1
SEP												
19...	5	7.8	.8	14	56	1.3	--	.9	18	9.0	18	.1

PRESUMPCOT RIVER BASIN

01064140 PRESUMPCOT RIVER NEAR WEST FALMOUTH, ME--Continued

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

DATE	SILICA, DIS- SOLVED (MG/L AS SI02)	SOLIDS, RESIDUE AT 180 DEG. C DIS- SOLVED (MG/L)	SOLIDS, SUM OF CONSTITUENTS, DIS- SOLVED (MG/L)	SOLIDS, DIS- SOLVED (TONS PER AC-FT)	SOLIDS, DIS- SOLVED (TONS PER DAY)	NITRO- GEN, NO2+NO3 TOTAL (MG/L AS N)	NITRO- GEN, NO2+NO3 DIS- SOLVED (MG/L AS N)	NITRO- GEN, AMMONIA TOTAL (MG/L AS N)	NITRO- GEN, AMMONIA DIS- SOLVED (MG/L AS N)	NITRO- GEN, AMMONIA TOTAL (MG/L AS NH4)	NITRO- GEN, AMMONIA DIS- SOLVED (MG/L AS NH4)	NITRO- GEN, ORGANIC TOTAL (MG/L AS N)
NOV												
05...	5.2	66	44	.09	266	.15	.15	.070	.020	.08	.03	.45
26...	3.5	66	56	.09	182	.27	.27	.130	.100	.16	.13	.15
DEC												
19...	3.7	58	48	.08	133	.84	.22	.000	.000	.00	.00	.80
JAN												
16...	3.5	67	73	.09	112	.21	.46	.020	.030	.02	.04	.32
FEB												
13...	3.7	94	81	.13	97.5	.18	.15	.040	.050	.05	.06	.43
MAR												
13...	3.6	77	67	.10	108	.45	.42	.280	.210	.34	.27	.70
APR												
15...	4.2	62	54	.08	172	.25	.26	.090	.070	.11	.09	.37
MAY												
28...	3.2	86	75	.12	110	.16	.00	.070	.090	.08	.12	.11
JUN												
16...	2.9	64	50	.09	75.0	.12	.13	.080	.050	.10	.06	.26
JUL												
22...	2.6	100	89	.14	97.7	.12	.12	.060	.010	.07	.01	.17
AUG												
27...	3.0	84	66	.11	99.3	.13	.10	.030	.050	.04	.06	.30
SEP												
19...	3.1	90	65	.12	116	.03	.02	.000	.000	.00	.00	.25

DATE	NITRO- GEN, ORGANIC DIS- SOLVED (MG/L AS N)	NITRO- GEN,AM- MONIA + ORGANIC TOTAL (MG/L AS N)	NITRO- GEN,NH4 + ORG. SUSP. TOTAL (MG/L AS N)	NITRO- GEN,AM- MONIA + ORGANIC DIS. (MG/L AS N)	NITRO- GEN, TOTAL (MG/L AS N)	NITRO- GEN, DIS- SOLVED (MG/L AS N)	NITRO- GEN, TOTAL (MG/L AS NO3)	PHOS- PHORUS, TOTAL (MG/L AS P)	PHOS- PHORUS, TOTAL (MG/L AS P04)	PHOS- PHORUS, DIS- SOLVED (MG/L AS P)	ARSENIC TOTAL (UG/L AS AS)	ARSENIC SUS- PENDED TOTAL (UG/L AS AS)
NOV												
05...	.43	.52	.07	.45	.67	.60	3.0	.040	.12	.030	--	--
26...	.16	.28	.02	.26	.55	.53	2.4	.020	.06	.010	4	2
DEC												
19...	.68	.80	.12	.68	1.6	.90	7.3	.020	.06	.010	--	--
JAN												
16...	.29	.34	.02	.32	.55	.78	2.4	.020	.06	.010	--	--
FEB												
13...	.31	.47	.11	.36	.65	.51	2.9	.040	.12	.020	1	0
MAR												
13...	.61	.98	.16	.82	1.4	1.2	6.3	.140	.43	.100	--	--
APR												
15...	.21	.46	.18	.28	.71	.54	3.1	.070	.21	.040	--	--
MAY												
28...	.29	.18	.00	.38	.34	.38	1.5	.050	.15	.030	1	0
JUN												
16...	.24	.34	.05	.29	.46	.42	2.0	.050	.15	.020	--	--
JUL												
22...	.36	.23	.00	.37	.35	.49	1.6	.050	.15	.030	--	--
AUG												
27...	.25	.33	.03	.30	.46	.40	2.0	.080	.25	.070	1	1
SEP												
19...	.26	.25	.00	.26	.28	.28	1.2	.090	.28	.070	--	--

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

[illegible][illegible]

PRESUMPCOT RIVER BASIN

01064140 PRESUMPCOT RIVER NEAR WEST FALMOUTH, ME--Continued

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

DATE	MANGANESE, DIS- SOLVED (UG/L AS MN)	MERCURY TOTAL RECOV- ERABLE (UG/L AS HG)	MERCURY SUS- PENDE RECOV- ERABLE (UG/L AS HG)	MERCURY DIS- SOLVED (UG/L AS HG)	NICKEL, TOTAL RECOV- ERABLE (UG/L AS NI)	NICKEL, SUS- PENDE RECOV- ERABLE (UG/L AS NI)	NICKEL, DIS- SOLVED (UG/L AS NI)	SELE- NIUM, TOTAL (UG/L AS SE)	SELE- NIUM, SUS- PENDE TOTAL (UG/L AS SE)	SELE- NIUM, DIS- SOLVED (UG/L AS SE)	SILVER, TOTAL RECOV- ERABLE (UG/L AS AG)
NOV 05...	--	--	--	--	--	--	--	--	--	--	--
26...	20	.2	.1	<.1	3	2	1	0	0	0	0
DEC 19...	--	--	--	--	--	--	--	--	--	--	0
JAN 16...	--	--	--	--	--	--	--	--	--	--	--
FEB 13...	40	.2	.0	.2	2	0	2	0	0	0	0
MAR 13...	--	--	--	--	--	--	--	--	--	--	0
APR 15...	--	--	--	--	--	--	--	--	--	--	--
MAY 28...	30	.1	.0	.1	3	3	0	0	0	0	0
JUN 16...	--	--	--	--	--	--	--	--	--	--	0
JUL 22...	--	--	--	--	--	--	--	--	--	--	--
AUG 27...	30	.1	.0	.1	3	3	0	0	0	0	0
SEP 19...	--	--	--	--	--	--	--	--	--	--	0

DATE	SILVER, SUS- PENDE RECOV- ERABLE (UG/L AS AG)	SILVER, DIS- SOLVED (UG/L AS AG)	ZINC, TOTAL RECOV- ERABLE (UG/L AS ZN)	ZINC, SUS- PENDE RECOV- ERABLE (UG/L AS ZN)	ZINC, DIS- SOLVED (UG/L AS ZN)	CARBON, ORGANIC TOTAL (MG/L AS C)	CARBON, ORGANIC DIS- SOLVED (MG/L AS C)	CARBON, ORGANIC SUS- PENDE (MG/L AS C)	SEDI- MENT, SUS- PENDE (MG/L)	SEDI- MENT DIS- CHARGE, SUS- PENDE (T/DAY)	SED. SUSP. SIEVE DIAM. % FINER THAN .062 MM
NOV 05...	--	--	--	--	--	7.6	--	--	9	36	80
26...	0	0	30	0	30	--	137	.6	23	63	24
DEC 19...	--	--	--	--	--	5.1	--	--	1	2.3	100
JAN 16...	--	--	--	--	--	7.6	--	--	2	3.3	100
FEB 13...	0	0	10	0	10	--	298	.5	5	5.2	81
MAR 13...	--	--	--	--	--	9.6	--	--	16	22	98
APR 15...	--	--	--	--	--	5.2	--	--	--	--	--
MAY 28...	0	0	10	10	0	--	52	.6	--	--	--
JUN 16...	--	--	--	--	--	4.0	--	--	19	22	68
JUL 22...	--	--	--	--	--	8.5	--	--	--	--	--
AUG 27...	0	0	30	0	30	--	202	.6	4	4.7	100
SEP 19...	--	--	--	--	--	6.0	--	--	--	--	--

BIOLOGICAL DATA, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

PERIPHYTON

(Sampling method - Polyethylene strip)

DATES OF EXPOSURE	LENGTH OF EXPO- SURE (DAYS)	PERI- PHYTON BIOMASS TOTAL DRY WEIGHT (G/SQ M)	PERI- PHYTON BIOMASS ASH WEIGHT (G/SQ M)	CHLOR-A PERI- PHYTON CHROMO- GRAPHIC FLUOROM. (MG/M ²)	CHLOR-B PERI- PHYTON CHROMO- GRAPHIC FLUOROM. (MG/M ²)	BIOMASS PIGMENT RATIO
MAY 28 TO JUN 16	19	.630	.236	1.15	.990	343
JUN 16 TO JUL 22	36	.394	.157	.070	.000	3390
JUL 22 TO AUG 27	36	8.11	5.91	3.87	.640	568
AUG 27 TO SEP 19	23	2.99	2.05	3.32	.460	283

01064140 PRESUMPCOT RIVER NEAR WEST FALMOUTH, ME--Continued

PHYTOPLANKTON ANALYSES, OCTOBER 1979 TO SEPTEMBER 1980

DATE TIME	NOV 26,79 1200	MAR 13,80 1215	MAY 28,80 1115	JUN 16,80 1430				
TOTAL CELLS/ML	290	1900	610	2100				
DIVERSITY: DIVISION	1.3	0.4	0.5	0.8				
..CLASS	1.5	0.4	0.5	0.8				
..ORDER	2.0	1.3	0.8	0.9				
...FAMILY	2.4	1.3	0.9	1.0				
....GENUS	2.5	1.4	0.9	1.0				
ORGANISM	CELLS /ML	PER- CENT	CELLS /ML	PER- CENT	CELLS /ML	PER- CENT	CELLS /ML	PER- CENT
CHLOROPHYTA (GREEN ALGAE)								
..CHLOROPHYCEAE								
...CHLOROCOCCALES								
....OOCYSTACEAE								
....CHLORELLA	12	4	--	-	--	-	--	-
....SELENASTRUM	--	-	--	-	--	-	26	1
...SCENEDESMACEAE								
....SCENEDESMUS	14	5	26	1	--	-	52	2
..VOLVOCALES								
...CHLAMYDOMONADACEAE								
....CHLAMYDOMONAS	2	1	--	-	13	2	65	3
CHRYSOPHYTA								
..BACILLARIOPHYCEAE								
...CENTRALES								
....COSCINODISCACEAE								
....CYCLOTELLA	5	2	13	1	--	-	--	-
....SKELETONEMA	74#	26	--	-	--	-	--	-
...PENNALES								
....FRAGILARIACEAE								
....ASTERIONELLA	--	-	--	-	--	-	52	2
....FRAGILARIA	--	-	51	3	--	-	--	-
....SYNEDRA	39	14	13	1	13	2	13	1
...NAVICULACEAE								
....NAVICULA	14	5	--	-	13	2	--	-
...NITZSCHIACEAE								
....NITZSCHIA	9	3	26	1	13	2	52	2
..CHRYSOPHYCEAE								
...CHRYSOMONADALES								
....OCHROMONADACEAE								
....DINOBRYON	9	3	--	-	--	-	--	-
CRYPTOPHYTA (CRYPTOMONADS)								
..CRYPTOPHYCEAE								
...CRYPTOMONADALES								
....CRYPTOMONADACEAE								
....CRYPTOMONAS	--	-	--	-	--	-	26	1
CYANOPHYTA (BLUE-GREEN ALGAE)								
..CYANOPHYCEAE								
...CHROOCOCCALES								
....CHROOCOCCACEAE								
....ANACYSTIS	--	-	640#	33	39	6	1800#	86
...HORMOGONALES								
....OSCILLATORIACEAE								
....OSCILLATORIA	110#	38	1200#	60	520#	85	--	-
PYRRHOPHYTA (FIRE ALGAE)								
..DINOPHYCEAE								
...PERIDINIALES								
....GLENODINIACEAE								
....GLENODINIUM	--	-	--	-	--	-	13	1

NOTE: # - DOMINANT ORGANISM; EQUAL TO OR GREATER THAN 15%

* - OBSERVED ORGANISM, MAY NOT HAVE BEEN COUNTED; LESS THAN 1/2%

01064140 PRESUMPCOT RIVER NEAR WEST FALMOUTH, ME--Continued

PHYTOPLANKTON ANALYSES, OCTOBER 1979 TO SEPTEMBER 1980

DATE TIME	JUL 22,80 1100	AUG 27,80 1000	SEP 19,80 1330
TOTAL CELLS/ML	39	7800	39
DIVERSITY: DIVISION	0.9	0.1	0.9
..CLASS	0.9	0.1	0.9
...ORDER	0.9	0.1	0.9
...FAMILY	1.6	0.1	1.6
....GENUS	1.6	0.1	1.6

ORGANISM	CELLS /ML	PER- CENT	CELLS /ML	PER- CENT	CELLS /ML	PER- CENT
CHLOROPHYTA (GREEN ALGAE)						
..CHLOROPHYCEAE						
...CHLOROCOCCALES						
...OOCYSTACEAE						
....CHLORELLA	--	-	--	-	--	-
....SELENASTRUM	--	-	* 0		--	-
...SCENEDESMACEAE						
...SCENEDESMUS	--	-	* 0		--	-
...VOLVOCALES						
...CHLAMYDOMONADACEAE						
....CHLAMYDOMONAS	13#	33	--	-	13#	33
CHRYSTOPHYTA						
..BACILLARIOPHYCEAE						
...CENTRALES						
...COSCINODISCACEAE						
...CYCLOTELLA	--	-	--	-	--	-
...SKELETONEMA	--	-	--	-	--	-
...PENNALES						
...FRAGILARIACEAE						
....ASTERIONELLA	--	-	--	-	--	-
....FRAGILARIA	--	-	--	-	--	-
....SYNEDRA	--	-	--	-	--	-
...NAVICULACEAE						
....NAVICULA	13#	33	--	-	13#	33
...NITZSCHIA						
....NITZSCHIA	13#	33	--	-	13#	33
..CHRYSTOPHYCEAE						
...CHRYSOMONADALES						
...OCHROMONADACEAE						
....DINOBRYON	--	-	--	-	--	-
CRYPTOPHYTA (CRYPTOMONADS)						
..CRYPTOPHYCEAE						
...CRYPTOMONADALES						
...CRYPTOMONADACEAE						
....CRYPTOMONAS	--	-	--	-	--	-
CYANOPHYTA (BLUE-GREEN ALGAE)						
..CYANOPHYCEAE						
...CHROOCOCCALES						
...CHROOCOCCACEAE						
....ANACYSTIS	--	-	7800# 99		--	-
...HORMOGONALES						
...OSCILLATORIACEAE						
....OSCILLATORIA	--	-	--	-	--	-
PYRRHOPHYTA (FIRE ALGAE)						
..DINOPHYCEAE						
...PERIDINIALES						
...GLENODINIACEAE						
....GLENODINIUM	--	-	--	-	--	-

NOTE: # - DOMINANT ORGANISM; EQUAL TO OR GREATER THAN 15%

* - OBSERVED ORGANISM, MAY NOT HAVE BEEN COUNTED; LESS THAN 1/2%

01064140 PRESUMPCOT RIVER NEAR WEST FALMOUTH, ME--Continued

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

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
OCTOBER			NOVEMBER			DECEMBER			JANUARY			
1	119	102	111	110	102	107	91	80	85	84	72	79
2	115	85	98	111	101	108	87	79	83	115	81	88
3	113	104	109	110	84	99	89	79	83	91	77	84
4	101	86	94	93	89	91	91	81	87	92	69	82
5	109	97	102	105	91	94	88	77	84	88	72	80
6	112	93	101	103	96	99	87	78	83	82	68	75
7	115	102	109	107	95	101	95	80	85	80	59	73
8	121	100	106	100	92	97	89	78	83	131	72	89
9	118	99	108	99	83	92	88	78	83	101	83	93
10	107	97	102	99	86	91	89	80	85	100	78	91
11	109	95	104	96	80	90	89	76	82	126	87	96
12	111	96	103	100	81	93	93	81	88	105	81	94
13	109	92	98	101	87	95	97	80	89	87	68	77
14	102	94	98	99	89	94	100	83	92	87	74	80
15	107	98	103	92	81	88	101	81	92	106	77	90
16	109	97	105	99	89	95	102	86	95	131	100	109
17	104	89	98	95	72	84	100	87	94	127	98	109
18	108	90	99	94	82	89	98	87	92	121	99	108
19	120	99	108	95	87	91	104	86	95	106	98	103
20	118	107	113	98	87	92	103	84	93	124	101	107
21	118	110	112	98	74	87	99	73	87	146	127	133
22	118	103	109	78	69	73	96	78	89	139	101	111
23	116	105	110	92	74	80	104	88	96	106	83	100
24	135	107	116	95	85	90	101	85	90	105	97	101
25	116	96	106	103	88	93	105	67	86	---	---	---
26	114	104	108	100	86	92	81	67	73	105	89	99
27	117	101	110	90	78	83	87	75	81	103	83	94
28	120	101	109	92	86	89	95	83	90	119	100	106
29	130	116	122	96	79	86	93	85	90	121	100	107
30	126	112	119	87	79	83	91	78	88	118	90	103
31	117	102	110	---	---	---	99	76	92	118	98	105
MONTH	135	85	106	111	69	92	105	67	88	146	59	96

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
FEBRUARY			MARCH			APRIL			MAY			
1	118	93	105	179	143	167	152	119	144	129	89	113
2	112	90	100	181	164	171	141	110	129	130	101	115
3	---	---	---	164	144	158	150	121	134	149	114	130
4	---	---	---	183	153	175	155	113	135	148	119	129
5	---	---	---	200	149	177	113	104	108	125	99	119
6	139	100	115	224	190	208	162	110	132	106	88	101
7	110	86	98	187	149	167	162	114	143	134	98	114
8	130	100	118	273	166	213	154	129	139	138	97	118
9	129	80	104	259	167	198	150	134	144	125	97	112
10	135	98	123	183	158	170	156	78	113	151	111	127
11	---	---	---	168	111	142	84	71	79	149	119	131
12	---	---	---	143	113	133	111	83	97	143	117	130
13	---	---	---	175	140	149	115	100	107	176	121	148
14	167	128	149	235	158	188	123	103	116	154	136	145
15	175	153	169	204	169	192	127	105	119	138	112	129
16	175	163	169	187	155	171	110	103	106	151	113	130
17	180	142	166	227	177	191	121	110	114	181	125	148
18	179	141	157	214	65	109	---	---	---	181	165	172
19	190	176	186	90	70	81	---	---	---	179	162	170
20	182	152	168	115	87	102	---	---	---	178	94	131
21	195	133	160	---	---	---	---	---	---	146	92	112
22	187	162	174	---	---	---	155	137	144	127	91	112
23	243	156	189	---	---	---	146	113	130	135	94	114
24	214	172	201	---	---	---	218	104	137	160	100	130
25	206	185	193	---	---	---	160	138	151	132	71	108
26	191	166	178	---	---	---	178	153	164	172	118	141
27	174	166	170	126	119	123	166	138	153	169	105	127
28	180	164	171	135	119	126	150	128	142	160	114	139
29	172	147	158	140	128	132	151	104	135	172	126	152
30	---	---	---	136	112	123	110	91	103	168	122	145
31	---	---	---	146	118	132	---	---	---	174	126	143
MONTH	243	80	153	273	65	156	218	71	128	181	71	130

01064140 PRESUMPCOT RIVER NEAR WEST FALMOUTH, ME--Continued

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

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
	JUNE			JULY			AUGUST			SEPTEMBER		
1	151	106	128	67	50	56	166	108	125	135	105	115
2	185	96	145	81	53	67	159	129	143	147	126	137
3	188	135	159	84	58	70	157	136	145	152	115	126
4	179	123	150	242	68	123	159	134	146	155	120	143
5	159	120	137	172	75	97	155	112	136	152	127	139
6	185	122	161	244	88	193	147	111	125	127	100	113
7	195	133	165	127	95	106	159	109	120	146	108	136
8	208	144	167	135	108	122	178	149	161	155	116	138
9	158	124	136	104	73	87	165	138	156	153	117	131
10	151	116	134	115	71	92	186	118	155	170	84	127
11	183	122	164	150	79	114	177	101	142	139	92	117
12	185	133	169	147	106	124	153	121	134	200	114	134
13	169	129	141	150	110	129	156	114	127	130	102	120
14	160	135	147	160	115	133	164	115	139	126	109	118
15	143	120	130	172	130	150	163	113	131	126	96	110
16	---	---	---	163	101	129	133	90	117	127	100	112
17	---	---	---	166	93	120	173	125	155	133	107	116
18	---	---	---	211	152	177	184	111	141	139	117	127
19	---	---	---	189	141	163	151	113	129	139	108	122
20	---	---	---	181	101	147	163	94	139	133	110	119
21	137	112	120	166	93	135	170	92	127	144	95	112
22	119	108	113	195	130	159	153	123	133	148	105	125
23	153	90	129	179	129	155	172	135	154	162	117	139
24	161	124	133	178	144	163	171	129	146	146	100	117
25	163	106	136	191	122	169	168	104	133	126	102	110
26	156	102	132	225	97	175	166	112	143	121	105	111
27	165	113	140	188	154	178	163	124	138	124	104	110
28	156	114	133	169	108	148	158	114	140	132	111	117
29	140	54	107	123	76	109	146	115	134	141	109	122
30	57	49	53	120	87	103	134	103	114	152	106	128
31	---	---	---	112	94	102	138	108	122	---	---	---
MONTH	208	49	137	244	50	129	186	90	137	200	84	123
YEAR	273	49	121									

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

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

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

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

01064140 PRESUMPCOT RIVER NEAR WEST FALMOUTH, ME--Continued

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

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
OCTOBER			NOVEMBER			DECEMBER			JANUARY			
1	17.0	16.0	16.5	10.5	9.5	10.0	7.0	6.5	6.5	2.5	2.0	2.0
2	16.5	16.0	16.5	11.0	9.5	10.5	6.5	5.5	6.0	3.0	2.0	2.5
3	16.5	15.5	16.0	11.5	10.5	11.0	5.5	5.0	5.0	2.5	2.0	2.0
4	16.0	15.5	15.5	10.5	10.0	10.0	5.0	4.5	5.0	2.0	1.5	1.5
5	16.5	16.0	16.0	10.0	9.0	9.5	5.0	4.5	4.5	2.0	1.5	1.5
6	17.0	16.0	16.5	9.5	9.0	9.0	5.0	4.5	5.0	1.5	1.0	1.5
7	16.0	15.5	16.0	9.5	9.0	9.5	5.5	5.0	5.0	2.0	1.0	1.5
8	15.5	14.0	15.0	9.5	9.0	9.5	5.5	4.5	5.0	2.5	1.5	2.0
9	14.0	13.0	13.5	9.5	9.0	9.5	5.0	3.5	4.0	2.5	2.0	2.0
10	12.5	11.0	11.5	10.5	9.5	10.0	4.0	3.0	3.5	2.0	1.5	2.0
11	11.5	11.0	11.0	10.5	10.0	10.0	4.5	3.5	4.0	3.0	2.0	2.5
12	11.5	11.0	11.0	10.0	9.5	9.5	5.0	4.0	4.5	3.5	2.5	3.0
13	11.0	11.0	11.0	9.5	9.0	9.0	5.0	3.5	4.5	2.5	2.0	2.5
14	11.0	10.5	11.0	9.0	8.5	8.5	4.0	3.0	3.5	2.5	1.5	2.0
15	11.0	10.0	10.5	8.5	8.0	8.5	3.0	2.5	3.0	3.5	2.5	3.0
16	11.5	10.0	10.5	8.0	7.0	7.5	3.5	3.0	3.0	3.0	2.5	2.5
17	10.5	10.0	10.5	7.0	6.5	6.5	4.0	2.5	3.5	2.5	2.0	2.0
18	11.0	10.0	10.5	7.0	6.5	7.0	3.0	1.5	2.0	3.0	2.0	2.5
19	11.5	10.0	11.0	7.0	6.5	6.5	2.0	1.0	1.5	3.5	2.5	3.0
20	12.0	11.0	11.5	6.5	6.0	6.5	2.0	1.0	1.5	3.0	2.5	3.0
21	13.0	11.5	12.0	7.0	6.5	6.5	2.0	1.0	1.5	2.5	2.0	2.5
22	14.5	12.5	13.5	7.5	6.5	7.0	2.5	1.5	2.0	2.0	1.5	2.0
23	15.0	13.5	14.0	8.0	7.0	7.5	3.5	2.5	3.0	2.5	1.5	2.0
24	15.0	14.0	14.5	8.5	7.5	8.0	4.0	3.0	3.5	2.0	1.5	1.5
25	14.5	13.5	14.0	9.0	8.5	9.0	4.5	3.5	4.0	---	---	---
26	13.5	12.5	13.0	10.0	9.0	9.5	3.5	3.0	3.0	2.0	1.0	1.5
27	12.5	11.5	11.5	10.0	9.5	9.5	3.5	3.0	3.5	2.5	1.0	1.5
28	11.0	10.5	11.0	9.5	8.5	9.0	3.5	3.0	3.0	2.5	1.5	2.0
29	11.0	10.5	10.5	8.5	7.5	8.5	3.0	2.5	3.0	2.5	1.5	2.0
30	11.0	10.0	10.5	7.5	7.0	7.5	3.0	2.5	3.0	2.0	1.5	1.5
31	10.5	10.0	10.0	---	---	---	3.0	2.5	2.5	2.0	1.5	1.5
MONTH	17.0	10.0	13.0	11.5	6.0	8.5	7.0	1.0	3.5	3.5	1.0	2.0
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
FEBRUARY			MARCH			APRIL			MAY			
1	2.0	1.0	1.5	1.5	.0	.5	5.0	2.5	4.0	8.5	7.5	8.0
2	2.0	1.0	1.5	1.5	.0	1.0	5.0	3.5	4.0	10.0	8.5	9.5
3	---	---	---	2.0	.0	1.0	6.5	4.0	5.0	12.0	9.0	10.5
4	---	---	---	2.5	.5	1.5	5.0	4.5	4.5	12.5	10.0	11.0
5	---	---	---	2.0	1.0	1.5	4.5	3.0	4.0	12.0	10.0	11.0
6	2.5	1.5	2.0	3.0	1.5	2.0	5.0	3.0	4.0	12.5	10.5	11.0
7	2.0	1.5	2.0	2.5	1.0	1.5	6.0	4.0	5.0	11.5	11.0	11.0
8	3.0	1.5	2.5	2.0	1.5	1.5	6.0	5.0	5.5	10.5	9.5	10.0
9	2.5	2.0	2.0	2.0	1.0	1.5	6.5	5.5	6.0	10.0	9.0	9.5
10	3.0	2.0	2.5	2.0	.5	1.5	5.5	3.5	4.5	11.5	9.0	10.0
11	---	---	---	1.5	.5	1.0	4.0	3.0	3.5	11.5	9.5	10.5
12	---	---	---	1.5	.0	.5	5.0	4.0	4.5	13.5	10.5	12.0
13	---	---	---	2.0	.0	1.0	6.5	5.0	6.0	13.5	12.5	13.0
14	2.0	.5	1.0	1.5	.0	.5	7.5	5.5	6.5	14.0	13.0	13.5
15	2.0	1.0	1.5	2.0	.5	1.5	7.5	6.5	7.0	13.5	12.5	13.0
16	1.5	.5	1.0	2.0	.0	1.0	7.0	5.5	6.5	14.0	12.5	13.0
17	1.5	.5	.5	2.5	1.0	1.5	---	---	---	15.0	12.5	13.5
18	1.5	.0	.5	1.5	.5	1.0	---	---	---	14.5	13.5	14.0
19	2.0	.5	1.0	1.0	.0	.5	---	---	---	16.0	13.5	14.5
20	2.0	1.0	1.5	2.0	.5	1.5	---	---	---	16.0	14.0	15.0
21	2.5	1.0	1.5	---	---	---	---	---	---	15.0	14.5	15.0
22	1.5	.5	1.0	---	---	---	---	---	---	17.0	14.5	15.5
23	2.5	1.0	1.5	---	---	---	9.0	8.0	8.5	16.5	15.0	16.0
24	1.5	1.0	1.5	---	---	---	10.5	8.0	9.0	17.0	15.5	16.0
25	2.5	1.0	1.5	---	---	---	10.5	8.0	9.5	17.0	15.5	16.0
26	2.0	.5	1.0	---	---	---	9.5	9.0	9.0	16.5	15.5	16.0
27	1.5	.0	1.0	3.5	2.5	3.0	10.5	9.5	10.0	17.0	15.0	16.0
28	2.0	.5	1.0	4.0	2.5	3.0	10.0	9.0	9.5	18.5	15.0	17.0
29	1.0	.0	.5	4.0	2.5	3.5	9.0	8.0	8.5	19.0	17.0	18.0
30	---	---	---	4.0	3.0	3.5	8.0	7.5	7.5	20.0	16.5	18.0
31	---	---	---	4.5	2.5	3.5	---	---	---	18.5	18.0	18.5
MONTH	3.0	.0	1.5	4.5	.0	1.5	10.5	2.5	6.5	20.0	7.5	13.5

01064140 PRESUMPCOT RIVER NEAR WEST FALMOUTH, ME--Continued

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

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
JUNE			JULY			AUGUST			SEPTEMBER			
1	20.0	18.0	19.0	22.0	21.0	21.5	27.0	24.5	25.5	25.5	24.5	25.0
2	18.5	18.0	18.5	22.0	21.0	21.0	26.5	25.0	25.5	27.0	25.0	26.0
3	18.0	17.5	18.0	22.5	20.5	21.5	26.5	25.5	26.0	26.5	25.0	25.5
4	18.5	17.0	17.5	23.0	21.0	22.0	27.5	25.5	26.5	26.5	24.5	25.0
5	18.5	17.0	17.5	22.5	21.0	22.0	27.5	25.5	26.5	25.0	24.0	24.5
6	20.0	17.0	18.5	23.5	21.5	22.0	27.5	26.0	27.0	24.5	23.5	24.0
7	20.0	17.5	18.5	23.5	21.0	22.0	28.5	26.5	27.5	25.0	23.0	24.0
8	19.5	18.0	18.5	22.5	21.0	21.5	29.0	27.0	28.0	24.5	22.0	23.0
9	18.5	17.0	17.5	23.5	20.5	21.5	29.0	27.0	28.0	23.5	22.0	22.5
10	18.0	16.5	17.0	23.5	20.5	22.0	27.5	26.0	26.5	23.0	21.0	22.0
11	18.5	16.0	17.0	24.0	21.0	22.5	26.0	25.0	25.5	22.5	20.5	21.5
12	19.0	16.0	17.5	23.5	21.5	22.5	25.0	24.5	24.5	22.0	20.5	21.5
13	19.5	16.5	18.0	23.5	21.5	22.5	25.5	23.5	24.5	21.0	20.0	20.5
14	20.0	17.5	18.5	24.5	21.5	23.0	24.5	23.5	24.0	20.5	20.0	20.5
15	21.0	18.0	19.5	23.5	22.0	23.0	25.5	23.5	24.5	20.5	19.5	20.0
16	---	---	---	25.0	22.5	24.0	24.5	23.0	23.5	20.0	19.0	19.5
17	---	---	---	25.5	23.5	24.5	24.5	22.5	23.0	19.5	19.0	19.5
18	---	---	---	26.0	24.0	25.0	24.5	22.0	23.0	20.0	19.5	19.5
19	---	---	---	26.0	24.0	25.0	23.0	21.5	22.0	20.0	18.5	19.0
20	---	---	---	26.5	24.5	25.5	22.0	21.0	21.5	19.5	18.5	19.0
21	20.5	19.0	19.5	26.5	24.5	25.5	22.5	20.5	21.5	20.0	18.5	19.5
22	21.0	19.0	20.0	27.0	25.0	26.0	22.0	20.5	21.0	20.5	19.0	20.0
23	22.0	19.0	20.5	27.0	25.5	26.5	23.0	21.0	22.0	21.0	20.0	20.5
24	22.5	20.5	21.5	27.0	25.0	26.0	24.0	22.0	22.5	20.0	19.0	19.5
25	23.5	21.5	23.0	27.5	25.0	26.0	23.5	22.0	23.0	19.0	18.0	18.5
26	25.0	22.5	23.5	27.0	24.5	26.0	25.0	22.5	23.5	18.0	17.0	17.5
27	25.0	22.5	23.5	27.0	25.0	26.0	25.0	23.0	24.0	17.5	16.5	17.0
28	24.0	22.0	23.0	27.5	25.5	26.0	25.5	24.0	24.5	17.0	15.5	16.5
29	23.0	22.0	22.5	26.0	24.5	25.5	26.0	23.5	24.5	16.0	15.0	15.5
30	22.0	21.5	22.0	25.5	24.5	25.0	25.0	23.0	24.0	16.5	15.0	15.5
31	---	---	---	26.5	24.5	25.5	25.0	24.0	24.5	---	---	---
MONTH	25.0	16.0	19.5	27.5	20.5	24.0	29.0	20.5	24.5	27.0	15.0	20.5
YEAR	29.0	.0	12.0									

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

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
OCTOBER			NOVEMBER			DECEMBER			JANUARY			
1	9.4	8.9	9.2	11.0	10.5	10.7	11.4	11.1	11.3	12.9	12.7	12.8
2	9.6	8.9	9.2	11.0	10.5	10.8	11.7	11.4	11.5	12.8	12.4	12.7
3	9.6	9.0	9.3	11.0	9.9	10.5	12.0	11.7	11.8	12.9	12.6	12.8
4	9.9	9.3	9.6	11.3	10.8	11.0	11.9	11.6	11.8	13.2	12.9	13.1
5	9.8	9.2	9.5	11.2	10.4	10.8	11.9	11.6	11.8	13.1	12.9	13.0
6	9.6	9.1	9.4	10.6	10.4	10.5	11.8	11.6	11.7	13.1	12.9	13.0
7	9.5	9.1	9.3	10.4	10.2	10.3	11.7	11.6	11.6	13.2	12.6	12.9
8	10.0	8.9	9.5	10.3	10.1	10.3	12.0	11.5	11.7	13.0	12.4	12.7
9	10.4	9.9	10.1	10.5	10.2	10.3	12.3	11.7	12.1	13.1	12.8	13.0
10	11.2	10.3	10.8	10.4	10.0	10.1	12.5	12.0	12.3	13.4	13.1	13.3
11	11.2	10.8	11.0	10.2	10.1	10.2	12.4	11.8	12.2	13.2	12.7	13.0
12	11.2	10.8	11.0	10.4	10.2	10.3	12.2	11.7	12.0	12.9	12.4	12.7
13	11.3	10.8	11.1	10.5	10.4	10.5	12.6	11.7	12.2	13.3	12.9	13.2
14	11.2	10.8	11.0	10.6	10.4	10.5	12.7	12.3	12.5	13.4	13.0	13.2
15	11.2	10.6	10.8	10.7	10.6	10.7	13.0	12.5	12.8	13.0	12.7	12.9
16	10.9	10.8	10.8	10.9	10.7	10.8	12.8	12.3	12.6	13.0	12.7	12.9
17	11.3	11.0	11.2	11.1	10.9	11.0	12.6	12.0	12.3	13.2	13.0	13.1
18	11.3	10.6	11.0	11.1	11.0	11.1	13.0	12.5	12.8	13.0	12.7	12.9
19	11.1	10.6	10.8	11.3	11.1	11.2	13.4	12.9	13.2	12.7	12.5	12.6
20	10.9	10.5	10.7	11.3	11.1	11.3	13.7	13.2	13.5	12.6	12.5	12.5
21	10.6	10.2	10.5	11.2	11.0	11.1	13.7	13.1	13.4	12.5	12.4	12.5
22	10.1	9.6	9.9	11.1	10.8	10.9	13.3	12.7	13.0	13.0	12.5	12.8
23	9.7	9.2	9.5	10.8	10.6	10.8	13.1	12.4	12.7	12.8	12.4	12.6
24	9.5	8.9	9.1	10.7	10.4	10.6	12.7	12.2	12.5	12.6	12.4	12.5
25	9.6	9.0	9.3	10.4	10.1	10.3	12.6	12.0	12.3	---	---	---
26	9.9	9.4	9.7	10.4	10.0	10.2	12.8	12.5	12.6	12.9	12.7	12.8
27	10.1	9.8	10.0	10.3	10.0	10.2	12.6	12.3	12.5	13.0	12.7	12.9
28	10.4	10.1	10.3	10.3	10.2	10.3	12.5	12.4	12.4	12.8	12.7	12.8
29	10.8	10.2	10.4	10.6	10.3	10.5	12.5	12.3	12.4	12.9	12.6	12.7
30	10.9	10.3	10.7	11.0	10.7	10.8	12.4	12.3	12.4	12.9	12.7	12.8
31	11.1	10.5	10.8	---	---	---	12.7	12.4	12.5	12.9	12.8	12.9
MONTH	11.3	8.9	10.2	11.3	9.9	10.6	13.7	11.1	12.3	13.4	12.4	12.9

01064140 PRESUMPSCOT RIVER NEAR WEST FALMOUTH, ME--Continued

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

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
	FEBRUARY			MARCH			APRIL			MAY		
1	12.9	12.7	12.8	12.5	12.3	12.4	11.9	11.6	11.8	11.4	11.0	11.2
2	12.9	12.7	12.8	12.6	12.4	12.5	11.8	11.5	11.7	11.2	10.6	11.0
3	---	---	---	12.6	12.0	12.4	11.6	11.5	11.6	10.9	10.2	10.6
4	---	---	---	12.4	11.8	12.1	11.7	11.3	11.5	10.8	10.0	10.4
5	---	---	---	12.4	12.2	12.3	12.1	11.5	11.8	11.2	10.0	10.3
6	13.3	12.6	13.0	12.5	12.1	12.3	12.1	11.7	11.8	11.5	10.4	10.7
7	13.3	13.1	13.2	12.6	12.3	12.4	12.0	11.6	11.8	10.8	10.2	10.5
8	13.2	13.0	13.1	12.4	12.1	12.2	11.8	11.6	11.7	11.3	10.7	11.0
9	13.4	12.9	13.2	12.3	12.0	12.1	11.6	11.5	11.6	11.4	11.0	11.2
10	13.1	12.8	12.9	12.4	12.1	12.3	12.5	11.4	11.9	11.2	10.7	10.9
11	---	---	---	12.4	12.0	12.1	12.7	12.3	12.4	10.9	10.5	10.8
12	---	---	---	12.4	12.2	12.3	13.0	11.7	12.2	10.8	10.4	10.6
13	---	---	---	12.5	12.3	12.4	11.9	11.1	11.6	10.4	9.5	9.9
14	13.2	12.3	12.8	12.4	11.9	12.1	11.6	11.2	11.4	9.7	8.7	9.0
15	12.9	12.7	12.8	12.2	11.9	12.1	11.5	11.1	11.3	9.5	9.1	9.3
16	12.8	12.6	12.7	12.4	12.2	12.3	11.4	11.1	11.3	9.8	9.2	9.4
17	12.8	12.6	12.7	12.3	12.1	12.3	11.5	11.2	11.4	9.8	9.1	10.5
18	12.9	12.7	12.8	12.9	12.0	12.4	---	---	---	9.3	8.1	8.4
19	12.7	12.5	12.6	13.0	12.7	12.9	---	---	---	8.4	8.0	8.2
20	12.8	12.6	12.6	12.8	12.1	12.6	---	---	---	8.7	7.9	8.4
21	12.6	12.4	12.5	---	---	---	---	---	---	8.6	8.2	8.4
22	12.5	12.2	12.3	---	---	---	---	---	---	8.5	7.8	8.3
23	12.3	12.1	12.1	---	---	---	10.2	8.9	9.9	8.3	7.7	8.0
24	12.5	12.2	12.4	---	---	---	10.4	9.6	10.1	7.6	7.1	7.4
25	12.5	12.1	12.3	---	---	---	10.2	9.7	10.1	7.5	6.7	7.2
26	12.3	12.1	12.2	---	---	---	10.0	9.7	9.9	7.5	6.8	7.2
27	12.3	12.0	12.2	12.4	12.2	12.3	10.3	9.9	10.1	8.2	7.2	7.8
28	12.4	12.0	12.2	12.7	12.0	12.2	10.6	9.7	10.4	8.4	7.8	8.1
29	12.6	12.2	12.4	12.5	12.1	12.3	11.0	10.4	10.7	9.3	7.9	8.1
30	---	---	---	12.3	12.1	12.2	11.3	11.1	11.2	9.4	8.9	9.1
31	---	---	---	12.8	11.8	12.0	---	---	---	9.3	8.7	9.0
MONTH	13.4	12.0	12.6	13.0	11.8	12.3	13.0	8.9	11.3	11.5	6.7	9.4
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
	JUNE			JULY			AUGUST			SEPTEMBER		
1	9.1	8.7	8.9	7.2	6.7	7.0	7.6	6.8	7.2	6.6	6.3	6.5
2	8.8	8.4	8.6	7.4	6.7	7.2	6.9	6.6	6.7	6.4	6.0	6.2
3	8.8	8.4	8.6	7.8	7.2	7.4	6.7	6.4	6.5	6.7	6.2	6.5
4	8.7	8.2	8.5	8.0	6.7	7.4	6.4	6.0	6.2	6.9	6.2	6.5
5	9.1	8.7	8.9	7.8	7.2	7.5	6.4	5.8	6.0	6.9	6.5	6.7
6	8.9	8.5	8.7	8.0	7.0	7.4	6.3	5.3	5.9	7.3	6.7	7.1
7	8.9	8.5	8.7	8.3	7.4	7.9	6.0	4.8	5.5	7.0	6.3	6.6
8	8.6	8.2	8.4	7.8	7.5	7.6	5.7	4.4	5.1	7.1	6.7	6.9
9	9.0	8.3	8.7	8.1	7.6	8.0	5.9	5.3	5.6	7.8	7.0	7.4
10	9.1	8.3	8.9	8.4	7.7	8.1	6.3	5.3	5.9	7.9	7.3	7.4
11	8.4	8.0	8.2	8.0	7.5	7.8	6.2	5.5	5.8	7.8	7.3	7.6
12	8.2	7.8	8.0	8.0	7.4	7.7	6.6	6.3	6.5	8.1	7.3	7.7
13	8.2	7.8	8.0	8.1	7.5	7.8	7.2	6.5	6.9	8.5	7.8	8.2
14	7.7	7.4	7.5	8.0	7.5	7.8	7.3	6.6	6.9	8.2	7.8	8.1
15	7.6	7.2	7.4	7.9	6.9	7.6	7.2	6.1	6.6	8.5	7.7	8.1
16	---	---	---	7.6	6.8	7.2	7.0	6.4	6.7	8.7	8.1	8.4
17	---	---	---	7.5	7.2	7.4	7.3	6.5	6.8	8.6	8.3	8.5
18	---	---	---	7.4	7.0	7.2	7.3	6.6	7.0	8.6	8.2	8.4
19	---	---	---	7.6	7.2	7.4	7.4	6.9	7.2	8.9	8.3	8.5
20	---	---	---	7.7	7.2	7.5	7.5	6.9	7.2	9.0	8.5	8.7
21	7.4	7.1	7.3	7.8	6.8	7.4	7.5	7.1	7.3	8.9	8.3	8.6
22	7.5	7.1	7.4	7.1	6.4	6.8	7.6	7.4	7.5	8.7	8.0	8.4
23	7.5	6.9	7.3	7.1	6.5	6.9	7.4	6.4	6.7	8.2	7.9	8.0
24	7.2	6.9	7.1	7.0	6.4	6.7	6.6	5.9	6.3	8.7	8.1	8.3
25	7.1	6.7	6.9	6.9	6.1	6.7	7.1	6.1	6.7	9.0	8.0	8.6
26	7.1	6.6	6.8	7.2	6.4	6.8	6.8	6.1	6.3	8.8	8.4	8.6
27	6.9	6.6	6.8	7.0	6.4	6.7	6.8	6.2	6.5	9.1	8.6	8.9
28	7.1	6.8	7.0	7.5	6.6	6.9	6.9	6.1	6.4	9.3	8.9	9.1
29	7.2	6.8	7.0	7.7	7.4	7.6	6.8	6.4	6.6	9.6	9.1	9.3
30	7.1	6.6	7.0	7.8	7.5	7.7	7.1	6.5	6.9	9.5	8.9	9.2
31	---	---	---	7.7	7.5	7.6	6.7	6.5	6.6	---	---	---
MONTH	9.1	6.6	7.9	8.4	6.1	7.4	7.6	4.4	6.5	9.6	6.0	7.9
YEAR	13.7	4.4	10.0									

01064500 SACO RIVER NEAR CONWAY, NH

LOCATION.--Lat 43°59'27", long 71°05'20", Carroll County, Hydrologic Unit 01060002, on left bank at Odell Falls 1.8 mi (2.9 km) downstream from Swift River and Conway.

DRAINAGE AREA.--386 mi² (1,000 km²).

PERIOD OF RECORD.--August 1903 to December 1909, January 1910 to June 1912 (gage heights only), February 1929 to current year. Monthly discharge only for some periods, published in WSP 1301. Prior to 1912, published as "at Center Conway."

REVISED RECORDS.--WSP 756: Drainage area. WSP 1301: 1908-09.

GAGE.--Water-stage recorder. Datum of gage is 418.19 ft (127.464 m) National Geodetic Vertical Datum of 1929. Aug. 26, 1903, to June 30, 1912, nonrecording gage at site 0.8 mi (1.3 km) downstream at different datum.

REMARKS.--Records good except those for winter period, which are fair. Several observations of water temperature and specific conductance were made during the year.

AVERAGE DISCHARGE.--57 years (water years 1904-09, 1930-80), 930 ft³/s (26.34 m³/s), 32.72 in/yr (831 mm/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 43,900 ft³/s (1,240 m³/s) Mar. 27, 1953, gage height, 17.20 ft (5.243 m), from rating curve extended above 23,000 ft³/s (650 m³/s) on basis of slope-area measurement of peak flow; maximum gage height, 19.03 ft (5.800 m) Mar. 7, 1979, ice jam; minimum, 40 ft³/s (1.13 m³/s) Mar. 16, 1932, gage height, 1.61 ft (0.491 m).

EXTREMES FOR CURRENT YEAR.--Peak discharges above base of 8,700 ft³/s (250 m³/s) and maximum (*):

Date	Time	Discharge (ft ³ /s) (m ³ /s)		Gage height (ft) (m)		Date	Time	Discharge (ft ³ /s) (m ³ /s)		Gage height (ft) (m)	
Nov. 27	0800	11100	312	8.76	2.670	Apr. 15	2000	9310	264	8.19	2.496
Apr. 10	1500	* 16400	464	10.34	3.152						

Minimum discharge, 75 ft³/s (2.12 m³/s) Mar. 16, gage height, 1.75 ft (0.533 m).

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	278	666	1200	555	285	200	1010	2820	466	329	187	141
2	351	629	1070	500	280	200	1070	2840	461	337	166	160
3	379	1470	939	460	270	200	974	2240	502	318	166	269
4	2020	1930	899	400	270	200	1200	1990	608	281	168	297
5	1050	1210	844	380	270	200	990	1510	602	253	162	220
6	2440	1010	804	360	270	205	949	1380	533	237	157	179
7	1520	914	846	350	270	205	909	1570	456	224	187	151
8	900	840	798	325	270	210	934	1760	432	218	179	136
9	680	782	656	320	265	215	860	1530	447	234	153	123
10	600	911	684	310	265	215	11400	1280	423	227	134	117
11	900	982	685	300	260	220	7660	1150	396	209	132	113
12	750	840	685	2050	261	215	4160	1180	375	221	144	109
13	620	771	723	1160	260	205	3920	1170	353	221	152	104
14	1400	745	640	860	255	205	3470	1080	333	221	164	106
15	800	714	543	790	255	205	5600	970	314	207	154	194
16	600	674	470	700	250	200	5000	852	314	195	145	354
17	520	627	425	600	250	205	2610	814	310	190	134	245
18	490	621	360	545	250	390	1960	799	288	182	133	196
19	460	583	320	500	250	1500	1660	1520	274	172	139	199
20	430	561	305	470	240	936	1620	1300	292	164	182	215
21	415	557	300	440	235	647	2170	995	778	159	200	183
22	400	550	290	405	225	563	1750	882	756	174	186	170
23	390	566	285	390	230	603	1380	799	518	201	163	166
24	380	559	290	360	230	723	1470	742	410	188	146	160
25	1650	562	1030	320	225	728	1750	702	358	182	133	151
26	1350	930	1970	290	220	620	2640	644	322	164	126	142
27	1100	6990	1140	320	200	620	2280	596	295	158	120	215
28	950	2620	920	350	200	685	2100	555	270	162	118	379
29	820	1790	770	360	200	860	2270	518	257	158	122	275
30	769	1420	680	330	---	1200	4430	492	267	178	122	219
31	704	---	610	290	---	1130	---	466	---	199	123	---
TOTAL	26116	34024	22181	15790	7211	14710	80196	37146	12410	6563	4697	5688
MEAN	842	1134	716	509	249	475	2673	1198	414	212	152	190
MAX	2440	6990	1970	2050	285	1500	11400	2840	778	337	200	379
MIN	278	550	285	290	200	200	860	466	257	158	118	104
CFSM	2.18	2.94	1.86	1.32	.65	1.23	6.93	3.10	1.07	.55	.39	.49
IN.	2.52	3.28	2.14	1.52	.69	1.42	7.73	3.58	1.20	.63	.45	.55

CAL YP 1979	TOTAL	434664	MEAN	1191	MAX	19800	MIN	145	CFSM	3.09	IN	41.89
WTR YR 1980	TOTAL	266732	MEAN	729	MAX	11400	MIN	104	CFSM	1.89	IN	25.71

LOCATION.--Lat 43°47'44", long 71°03'36", Carroll County, Hydrologic Unit 01060002, on left bank 0.3 mi (0.5 km) upstream from bridge on State Highway 153 at Effingham Falls, 0.3 mi (0.5 km) downstream from outlet of Ossipee Lake, and 4 mi (6 km) northwest of Effingham.

Water-quality records: Water year 1955.

REMARKS.--Records excellent except those for period of no gage-height record, May 1-29, which are fair. Flow regulated by Osagee and Silver Lakes and Pine River Pond, combined capacity, 1,450,000,000 ft³/s (40,500,000 m³/s). Several observations of water temperature and specific conductance were made during the year.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 11,700 ft³/s (331 m³/s) Mar. 28, 1953, gage height 11.64 ft (3.548 m); minimum, about 5 ft³/s (0.14 m³/s) during part of several days Nov. 4-20, 1968 (caused by unusual regulation); minimum daily, 11 ft³/s (0.31 m³/s) Oct. 10, 1944.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 3,860 ft³/s (109 m³/s) Apr. 12, gage height, 8.05 ft (2.454 m); minimum, 136 ft³/s (3.85 m³/s) Aug. 26 to Sept. 2; minimum daily, 136 ft³/s (3.85 m³/s) Aug. 27-29, Sept. 1.

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	282	624	477	668	220	244	1120	950	214	198	146	136
2	285	604	480	663	180	243	1140	940	302	202	146	137
3	288	623	483	658	180	242	1140	930	323	488	148	140
4	447	681	484	652	180	240	1250	880	325	708	153	141
5	948	731	485	646	180	241	1400	820	325	696	151	142
6	1160	762	486	639	181	241	1360	680	334	686	151	142
7	1140	769	487	632	181	202	1250	480	326	371	149	145
8	1120	762	489	623	181	177	1160	600	308	184	147	146
9	1090	747	489	616	181	178	1130	800	307	185	148	144
10	1050	742	490	606	184	178	1700	600	327	183	144	143
11	1020	744	491	521	184	180	3380	520	356	321	144	142
12	842	749	492	401	183	180	3820	580	353	350	179	141
13	745	748	493	403	183	180	3570	680	236	266	203	140
14	750	743	493	403	183	219	3180	520	192	195	144	141
15	838	732	494	403	183	247	2900	500	192	147	144	142
16	917	730	491	404	183	245	2900	480	192	147	142	142
17	960	730	489	406	183	245	2780	540	191	147	142	144
18	966	730	487	383	183	252	2520	560	191	148	140	147
19	934	680	488	365	208	346	2220	580	191	147	140	234
20	901	629	487	366	252	770	1920	500	193	148	140	289
21	867	481	484	318	250	1080	1730	490	195	147	140	287
22	830	384	482	247	250	1060	1340	540	200	146	139	286
23	791	387	481	247	250	1050	1120	540	360	146	138	285
24	761	387	481	250	250	1040	1080	540	430	146	138	281
25	719	388	490	250	248	1050	939	560	427	145	138	279
26	732	395	737	250	247	1060	881	540	432	144	137	410
27	734	416	852	250	247	1060	890	470	395	144	136	507
28	711	449	1020	250	246	1060	887	370	236	144	136	500
29	694	463	957	250	245	1060	895	210	195	144	136	407
30	647	471	927	250	---	1080	950	211	195	146	140	264
31	658	---	778	250	---	1110	---	212	---	145	148	---
TOTAL	24827	18481	17444	13270	6006	16760	52552	17823	8443	7514	4527	6584
MEAN	801	616	563	428	207	541	1752	575	281	242	146	219
MAX	1160	769	1020	668	252	1110	3820	950	432	708	203	507
MIN	282	384	477	247	180	177	881	210	191	144	136	136
CAL YR 1979	TOTAL	295280	MEAN 809	MAX 3630	MIN 196							
WTR YR 1980	TOTAL	194231	MEAN 531	MAX 3820	MIN 136							

01065500 OSSIPEE RIVER AT CORNISH, ME

LOCATION.--Lat 43°48'26", long 70°47'55", Oxford County, Hydrologic Unit 01060002, on left bank 100 ft (30 m) downstream from highway bridge in Cornish and 1.3 mi (2.1 km) upstream from mouth.

DRAINAGE AREA.--453 mi² (1,173 km²).

PERIOD OF RECORD.--July 1916 to current year.

REVISED RECORDS.--WSP 756: Drainage area. WSP 1301: 1927-29(M).

GAGE.--Water-stage recorder. Datum of gage is 276.1 ft (84.16 m) National Geodetic Vertical Datum of 1929. Prior to Aug. 21, 1929, nonrecording gage, and Aug. 21, 1929, to Sept. 30, 1942, water-stage recorder at same site and datum 1 ft (0.3 m) higher.

REMARKS.--Records good except those for winter period, and period of no gage-height record Oct. 1 to Oct. 31, which are fair. Flow partly regulated by mill at Kezar Falls and by Ossipee and Silver Lakes, and Pine River, Bickford, and Colcord Ponds, combined capacity 1,600,000,000 ft³ (45,300,000 m³). Several observations of water temperature and specific conductance were made during the year.

AVERAGE DISCHARGE.--64 years, 876 ft³/s (24.81 m³/s).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 17,200 ft³/s (487 m³/s) Mar. 21, 1936, gage height, 16.32 ft (4.974 m) present datum, from rating curve extended above 7,500 ft³/s (210 m³/s); minimum daily, 65 ft³/s (1.84 m³/s) Sept. 8, 1929.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 4,580 ft³/s (130 m³/s) Apr. 12, gage height, 7.26 ft (2.213 m); minimum daily, 168 ft³/s (4.76 m³/s) Aug. 18.

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	325	792	665	838	315	315	1460	1380	312	533	208	192
2	310	756	662	822	295	310	1440	1360	314	433	230	191
3	450	1150	650	806	290	305	1440	1330	414	384	229	411
4	700	1360	648	790	290	300	1500	1270	437	765	222	288
5	1100	1120	647	760	290	295	1830	1160	426	760	210	232
6	1450	1060	645	745	290	290	1740	952	413	745	232	217
7	1550	1040	688	740	285	255	1620	694	417	644	171	204
8	1600	1010	677	730	285	230	1470	875	396	282	189	202
9	1550	982	656	725	285	250	1430	1140	390	285	192	196
10	1450	1070	643	690	285	270	2780	770	375	261	187	196
11	1400	1110	638	630	285	300	4320	737	407	272	186	185
12	1250	1060	641	575	285	355	4530	786	413	509	192	183
13	1150	1020	643	540	280	345	4200	944	406	373	255	179
14	1050	1000	636	525	280	350	3710	889	268	339	212	192
15	1150	975	625	522	280	360	3480	703	257	237	187	203
16	1250	970	627	522	280	365	3450	691	269	220	184	191
17	1350	965	695	517	275	370	3260	777	254	218	188	187
18	1400	950	800	512	275	640	2940	784	252	216	168	216
19	1350	885	800	488	300	810	2620	837	243	219	179	223
20	1300	815	705	485	365	925	2330	715	250	205	191	323
21	1250	675	680	460	360	1430	2110	694	453	205	190	329
22	1200	580	645	435	355	1410	1830	794	381	211	186	327
23	1150	580	625	415	350	1460	1520	784	348	210	182	324
24	1100	570	622	390	345	1510	1470	775	481	208	181	313
25	1050	570	859	375	340	1480	1350	817	483	197	177	311
26	1100	570	1210	365	335	1410	1220	763	452	184	179	406
27	1050	610	1140	360	330	1430	1230	729	496	190	172	575
28	1000	740	1280	360	325	1450	1210	538	368	189	175	543
29	970	693	1230	355	320	1450	1260	495	265	192	172	522
30	910	675	1160	350	---	1520	1390	326	280	279	171	342
31	850	---	1070	350	---	1500	---	308	---	227	193	---
TOTAL	34765	26353	23912	17177	8875	23690	66140	25817	10920	10192	5990	8403
MEAN	1121	878	771	554	306	764	2205	833	364	329	193	280
MAX	1600	1360	1280	838	365	1520	4530	1380	496	765	255	575
MIN	310	570	622	350	275	230	1210	308	243	184	168	179
CAL YR 1979 TOTAL	415235			1138		5630		255				
WTR YR 1980 TOTAL	262234			716		4530		168				

01066000 SACO RIVER AT CORNISH, ME
(National stream-quality accounting network station)

LOCATION.--Lat 43°48'35", long 70°46'53", Cumberland County, Hydrologic Unit 01060002, on left bank 300 ft (90 m) upstream from highway bridge at Cornish and 0.4 mi (0.6 km) downstream from Ossipee River.

DRAINAGE AREA.--1,298 mi² (3,362 km²).

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--June 1916 to current year.

REVISED RECORDS.--WSP 1301: 1917-18(M), 1936(M).

GAGE.--Water-stage recorder. Datum of gage is 263.48 ft (80.309 m) National Geodetic Vertical Datum of 1929. Prior to Oct. 30, 1919, nonrecording gage on bridge downstream at different datum.

REMARKS.--Records good except those for winter period, which are fair. Flow partly regulated by powerplants above station and by Ossipee, Silver, Conway, and Kezar Lakes, and Moose, Hancock, Pine River, Bickford, and Colcord Ponds, combined capacity, 3,400,000,000 ft³ (96,000,000 m³).

AVERAGE DISCHARGE.--64 years, 2,706 ft³/s (76.63 m³/s).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 45,000 ft³/s (1,270 m³/s) Mar. 21, 22, 1936, gage height, 21.90 ft (6.675 m), from floodmarks; minimum daily, 245 ft³/s (6.94 m³/s) Oct. 18, 1957.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 11,800 ft³/s (334 m³/s) Apr. 14, gage height, 9.06 ft (2.761 m); minimum daily, 311 ft³/s (8.81 m³/s) Sept. 13.

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	869	2440	3470	2350	930	665	3310	4970	1270	1090	444	449
2	1170	2340	3380	2280	880	660	3330	5140	1230	1010	401	417
3	1150	2950	3220	2180	875	620	3370	5240	1300	928	412	560
4	1700	3230	3060	2100	870	595	3540	5210	1310	1330	410	612
5	2290	3220	2860	2020	870	635	3920	5020	1320	1330	401	579
6	2800	3170	2690	1950	870	645	3890	4650	1300	1300	450	585
7	2870	3140	2650	1590	865	610	3730	4140	1320	1190	483	524
8	3330	3040	2550	1450	795	585	3550	4110	1250	735	430	481
9	3320	2920	2400	1440	750	610	3450	4270	1200	693	455	479
10	3220	2990	2130	1380	710	625	6170	3800	1140	670	448	457
11	3090	3030	2120	1290	675	750	8970	3630	1140	671	448	451
12	2910	2950	2100	1240	650	770	10200	3440	1120	921	456	402
13	2960	2890	2080	1400	630	730	11600	3490	1080	789	504	311
14	2870	2810	2030	1630	620	780	11700	3320	907	749	477	455
15	2870	2670	1830	1800	620	830	11500	2960	855	626	450	467
16	3020	2620	1740	1770	610	840	11200	2890	855	574	444	410
17	2970	2520	1960	1700	610	723	11100	2830	816	595	450	428
18	2940	2430	1910	1680	600	1230	10800	2710	794	595	431	604
19	2770	2290	1530	1650	620	1710	9900	2640	779	531	440	556
20	2690	2250	1390	1650	660	1890	8800	2550	769	519	452	572
21	2600	2150	1260	1590	650	2500	7810	2610	1060	571	452	600
22	2520	1910	1230	1350	660	2480	6820	2670	1160	610	446	647
23	2440	1870	1210	1240	680	2570	6150	2500	1210	612	445	621
24	2420	1800	1350	1080	700	2810	5720	2410	1310	605	443	566
25	2490	1760	1640	1020	690	2810	5180	2350	1260	596	438	566
26	2570	1890	2530	980	680	2830	4810	2200	1170	562	439	649
27	2790	2260	2610	975	670	2880	4690	2020	1160	537	432	812
28	2710	3100	2730	950	660	2940	4670	1800	969	530	435	830
29	2620	3370	2680	940	655	2980	4740	1670	812	513	385	934
30	2640	3450	2610	935	---	3230	4930	1410	806	596	341	734
31	2510	---	2580	930	---	3270	---	1320	---	573	451	---
TOTAL	80119	79460	69530	46540	20755	47803	199550	99970	32672	23151	13593	16758
MEAN	2584	2649	2243	1501	716	1542	6652	3225	1089	747	438	559
MAX	3330	3450	3470	2350	930	3270	11700	5240	1320	1330	504	934
MIN	869	1760	1210	930	600	585	3310	1320	769	513	341	311

CAL YR 1979 TOTAL 1204375 MEAN 3300 MAX 17600 MIN 701
WTR YR 1980 TOTAL 729901 MEAN 1994 MAX 11700 MIN 311

01066000 SACO RIVER AT CORNISH, ME--Continued

WATER-QUALITY RECORDS

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

PERIOD OF DAILY RECORD.--

SPECIFIC CONDUCTANCE: July 1975 to current year.

WATER TEMPERATURES: July 1975 to current year.

INSTRUMENTATION.--Water-quality monitor since July 1975.

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

EXTREMES FOR PERIOD OF DAILY RECORD.--

SPECIFIC CONDUCTANCE: Maximum >310 micromhos (monitor limitation) Nov. 6, Dec. 13, 23, 24, 26, 27, 1978; minimum, 16 micromhos Oct. 13, 1978.

WATER TEMPERATURES: Maximum, 29.0°C Aug. 2, 1975; minimum, 0.0°C on many days during winter periods.

EXTREMES FOR CURRENT YEAR.--

SPECIFIC CONDUCTANCE: Maximum, 62 micromhos Feb. 19, Mar. 16, Aug. 1; minimum, 17 micromhos Mar. 3, 4.

WATER TEMPERATURES: Maximum, 28.5°C Aug. 9, 10; minimum, 0.0°C on many days during winter period.

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

DATE	TIME	STREAM- FLOW, INSTAN- TANEOUS (CFS)	SPE- CIFIC CON- DUCT- ANCE (MICRO- MHOS)	PH FIELD (UNITS)	TEMPER- ATURE, AIR (DEG C)	TEMPER- ATURE, WATER (DEG C)	TUR- BID- ITY (NTU)	OXYGEN, DIS- SOLVED (MG/L)	OXYGEN, DIS- SOLVED (PER- CENT SATUR- ATION)	COLI- FORM, FECAL, 0.7 UM-MF (COLS./ 100 ML)	STREP- TOCOCCI FECAL, KF AGAR (COLS. PER 100 ML)	HARD- NESS (MG/L AS CACO3)
NOV												
07...	0930	3140	34	6.5	7.5	6.5	1.0	11.1	90	40	K5	7
28...	1030	3300	39	6.5	5.5	7.5	1.0	11.4	95	K15	K13	8
DEC												
18...	1045	1930	48	6.5	-3.0	.0	1.0	12.9	88	K3	K3	9
JAN												
15...	1000	1850	42	6.3	7.0	.0	.20	12.1	83	K9	23	6
FEB												
11...	1230	866	54	6.5	6.5	.0	.50	11.6	79	<1	<1	10
MAR												
12...	1000	910	58	6.4	-6.0	.0	.45	12.4	85	24	24	10
APR												
16...	1015	11100	28	6.4	9.0	5.0	.82	12.6	98	K5	K2	6
MAY												
29...	1130	1690	38	6.6	21.0	16.0	.35	9.2	92	K12	K2	8
JUN												
18...	0930	794	45	6.7	20.0	18.5	.50	7.8	83	24	K6	9
JUL												
21...	1100	604	48	6.9	29.0	25.0	.85	7.0	83	44	K110	10
AUG												
26...	1215	439	48	6.7	23.0	21.0	.20	7.4	82	72	K11	10
SEP												
18...	1530	599	42	6.8	17.5	18.0	.50	9.4	99	33	39	10
DATE		HARD- NESS, NONCAR- BONATE (MG/L CACO3)	CALCIUM DIS- SOLVED (MG/L AS CA)	MAGNE- SIUM, DIS- SOLVED (MG/L AS MG)	SODIUM, DIS- SOLVED (MG/L AS NA)	SODIUM PERCENT	SODIUM+ POTAS- SIUM AD- SORP- TION RATIO	POTAS- SIUM, DIS- SOLVED (MG/L AS K)	ALKA- LINITY (MG/L AS CACO3)	SULFATE DIS- SOLVED (MG/L AS SO4)	CHLO- RIDE, DIS- SOLVED (MG/L AS CL)	FLUO- RIDE, DIS- SOLVED (MG/L AS F)
NOV												
07...	1	2.3	.4	2.7	48	.4	3.2	.5	6	4.6	2.7	.3
28...	3	2.5	.5	2.8	47	.4	3.3	.5	5	4.8	3.4	.3
DEC												
18...	6	2.8	.5	3.1	47	.4	3.6	.5	3	3.6	3.8	.3
JAN												
15...	3	1.4	.6	1.1	27	.2	1.5	.4	3	4.0	.8	.1
FEB												
11...	3	3.1	.5	3.7	43	.5	4.4	.7	7	5.4	4.9	.3
MAR												
12...	2	3.1	.6	4.3	46	.6	5.0	.7	8	3.9	5.7	.4
APR												
16...	0	1.9	.3	2.2	42	.4	--	.6	6	3.9	2.6	.2
MAY												
29...	5	2.4	.4	3.4	47	.5	--	.6	3	3.1	3.5	.3
JUN												
18...	5	3.0	.4	3.3	41	.5	--	.8	4	6.5	4.3	.4
JUL												
21...	1	3.1	.5	3.7	43	.5	--	.8	9	3.1	4.6	.3
AUG												
26...	1	2.9	.6	3.7	43	.5	--	.7	9	3.6	5.1	.4
SEP												
18...	0	3.1	.6	3.9	43	.5	--	1.0	14	3.5	4.8	.4

SACO RIVER BASIN

01066000 SACO RIVER AT CORNISH, ME--Continued

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

DATE	SILICA, DIS- SOLVED (MG/L AS SI02)	SOLIDS, RESIDUE AT 180 DEG. C DIS- SOLVED (MG/L)	SOLIDS, SUM OF CONSTITUENTS, DIS- SOLVED (MG/L)	SOLIDS, DIS- SOLVED (TONS PER AC-FT)	SOLIDS, DIS- SOLVED (TONS PER DAY)	NITRO- GEN, NO2+NO3 TOTAL (MG/L AS N)	NITRO- GEN, NO2+NO3 DIS- SOLVED (MG/L AS N)	NITRO- GEN, AMMONIA TOTAL (MG/L AS N)	NITRO- GEN, AMMONIA DIS- SOLVED (MG/L AS N)	NITRO- GEN, AMMONIA TOTAL (MG/L AS NH4)	NITRO- GEN, AMMONIA DIS- SOLVED (MG/L AS NH4)	NITRO- GEN, ORGANIC TOTAL (MG/L AS N)
NOV												
07...	6.5	37	24	.05	314	.07	.10	.040	.010	.05	.01	.23
28...	7.5	34	31	.05	303	.65	1.2	.050	.030	.06	.04	.24
DEC												
18...	7.7	34	25	.05	177	.80	.15	.010	.030	.01	.04	.29
JAN												
15...	6.0	21	16	.03	105	.04	.04	--	.010	--	.01	--
FEB												
11...	8.5	34	32	.05	79.5	.15	.15	.000	.030	.00	.04	.32
MAR												
12...	8.1	32	33	.04	78.6	.29	.28	.010	.000	.01	.00	.12
APR												
16...	4.7	26	21	.04	779	.18	.13	.100	.010	.12	.01	.10
MAY												
29...	6.0	24	22	.03	110	.18	.00	.020	.220	.02	.28	.95
JUN												
18...	5.8	38	28	.05	81.5	.13	.15	.020	.020	.02	.03	.12
JUL												
21...	5.0	26	27	.04	42.4	.11	.13	.020	.010	.02	.01	.12
AUG												
26...	7.0	47	31	.06	55.7	.15	.22	.010	.020	.01	.03	.09
SEP												
18...	7.3	47	34	.06	76.0	.14	.15	.020	.020	.02	.03	.08

DATE	NITRO- GEN, ORGANIC DIS- SOLVED (MG/L AS N)	NITRO- GEN,AM- MONIA + ORGANIC TOTAL (MG/L AS N)	NITRO- GEN,NH4 + ORG. SUSP. TOTAL (MG/L AS N)	NITRO- GEN,AM- MONIA + ORGANIC DIS. (MG/L AS N)	NITRO- GEN, TOTAL (MG/L AS N)	NITRO- GEN, DIS- SOLVED (MG/L AS N)	NITRO- GEN, TOTAL (MG/L AS NO3)	PHOS- PHORUS, TOTAL (MG/L AS P)	PHOS- PHORUS, TOTAL (MG/L AS P04)	PHOS- PHORUS, DIS- SOLVED (MG/L AS P)	ARSENIC TOTAL (UG/L AS AS)	ARSENIC SUS- PENDE TOTAL (UG/L AS AS)
NOV												
07...	.30	.27	.00	.31	.34	.41	1.5	.010	.03	.010	--	--
28...	.26	.29	.00	.29	.94	1.5	4.2	.010	.03	.000	4	2
DEC												
18...	.17	.30	.10	.20	1.1	.35	4.9	.010	.03	.010	--	--
JAN												
15...	.11	--	--	.12	--	.16	--	.000	.00	.000	--	--
FEB												
11...	.14	.32	.15	.17	.47	.32	2.1	.010	.03	.000	0	0
MAR												
12...	.37	.13	.00	.37	.42	.65	1.9	.000	.00	.000	--	--
APR												
16...	.14	.20	.05	.15	.38	.28	1.7	.010	.03	.010	--	--
MAY												
29...	.12	.97	.63	.34	1.2	.34	5.1	.010	.03	.000	0	0
JUN												
18...	.09	.14	.03	.11	.27	.26	1.2	.010	.03	.000	--	--
JUL												
21...	.17	.14	.00	.18	.25	.31	1.1	.010	.03	.000	--	--
AUG												
26...	.04	.10	.04	.06	.25	.28	1.1	.000	.00	.010	0	0
SEP												
18...	.07	.10	.01	.09	.24	.24	1.1	.020	.06	.010	--	--

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

[illegible]

01066000 SACO RIVER AT CORNISH, ME--Continued

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

DATE	MANGANESE, DIS- SOLVED (UG/L AS MN)	MERCURY TOTAL RECOV- ERABLE (UG/L AS HG)	MERCURY SUS- PENDE RECOV- ERABLE (UG/L AS HG)	MERCURY DIS- SOLVED (UG/L AS HG)	NICKEL, TOTAL RECOV- ERABLE (UG/L AS NI)	NICKEL, SUS- PENDE RECOV- ERABLE (UG/L AS NI)	NICKEL, DIS- SOLVED (UG/L AS NI)	SELE- NIUM, TOTAL RECOV- ERABLE (UG/L AS SE)	SELE- NIUM, SUS- PENDE TOTAL (UG/L AS SE)	SELE- NIUM, DIS- SOLVED (UG/L AS SE)	SILVER, TOTAL RECOV- ERABLE (UG/L AS AG)
NOV											
07...	--	--	--	--	--	--	--	--	--	--	--
28...	10	.2	.1	.1	2	1	1	0	0	0	0
DEC											
18...	--	--	--	--	--	--	--	--	--	--	0
JAN											
15...	--	--	--	--	--	--	--	--	--	--	--
FEB											
11...	30	.1	.0	.1	1	0	1	0	0	0	0
MAR											
12...	--	--	--	--	--	--	--	--	--	--	0
APR											
16...	--	--	--	--	--	--	--	--	--	--	--
MAY											
29...	20	.1	.0	.1	2	2	0	0	0	0	0
JUN											
18...	--	--	--	--	--	--	--	--	--	--	0
JUL											
21...	--	--	--	--	--	--	--	--	--	--	--
AUG											
26...	10	.1	--	<.1	1	1	0	0	0	0	0
SEP											
18...	--	--	--	--	--	--	--	--	--	--	0

DATE	SILVER, SUS- PENDE RECOV- ERABLE (UG/L AS AG)	SILVER, DIS- SOLVED (UG/L AS AG)	ZINC, TOTAL RECOV- ERABLE (UG/L AS ZN)	ZINC, SUS- PENDE RECOV- ERABLE (UG/L AS ZN)	ZINC, DIS- SOLVED (UG/L AS ZN)	CARBON, ORGANIC TOTAL (MG/L AS C)	CARBON, ORGANIC DIS- SOLVED (MG/L AS C)	CARBON, ORGANIC SUS- PENDE (MG/L AS C)	SEDI- MENT, SUS- PENDE (MG/L)	SEDI- MENT DIS- CHARGE, SUS- PENDE (T/DAY)	SED. SUSP. SIEVE DIAM. % FINER THAN .062 MM
NOV											
07...	--	--	--	--	--	5.7	--	--	3	25	91
28...	0	0	30	20	9	--	94	.3	13	116	57
DEC											
18...	--	--	--	--	--	3.0	--	--	1	5.2	100
JAN											
15...	--	--	--	--	--	--	--	--	2	10	100
FEB											
11...	0	0	10	0	20	--	5.4	.1	--	--	--
MAR											
12...	--	--	--	--	--	2.7	--	--	2	4.9	100
APR											
16...	--	--	--	--	--	3.6	--	--	114	3420	20
MAY											
29...	0	0	10	9	1	--	65	.2	2	9.1	100
JUN											
18...	--	--	--	--	--	.9	--	--	3	6.4	100
JUL											
21...	--	--	--	--	--	4.6	--	--	6	9.8	100
AUG											
26...	0	0	30	20	10	--	14	.2	3	3.6	100
SEP											
18...	--	--	--	--	--	1.9	--	--	3	4.9	100

BIOLOGICAL DATA, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

PERIPHYTON

(Sampling method - Polyethylene strip)

DATES OF EXPOSURE	LENGTH OF EXPO- SURE (DAYS)	PERI- PHYTON BIOMASS TOTAL DRY WEIGHT (G/SQ M)	PERI- PHYTON BIOMASS ASH WEIGHT (G/SQ M)	CHLOR-A PERI- PHYTON CHROMO- GRAPHIC FLUOROM. (MG/M ²)	CHLOR-B PERI- PHYTON CHROMO- GRAPHIC FLUOROM. (MG/M ²)	BIOMASS PIGMENT RATIO
JUL 21 TO AUG 26	36	2.21	1.18	1.19	.680	866
AUG 26 TO SEP 18	23	2.44	1.73	.430	.130	1650

01066000 SACO RIVER AT CORNISH, ME--Continued

PHYTOPLANKTON ANALYSES, OCTOBER 1979 TO SEPTEMBER 1980

DATE TIME	NOV 28,79 1030	MAR 12,80 1000	MAY 29,80 1130	JUN 18,80 0930				
TOTAL CELLS/ML	400	64	340	170				
DIVERSITY: DIVISION	0.6	0.0	1.9	2.1				
..CLASS	1.5	0.0	1.9	2.1				
...ORDER	1.8	1.0	2.2	2.3				
...FAMILY	2.9	1.5	2.3	2.6				
....GENUS	3.6	1.5	2.3	2.6				
ORGANISM	CELLS /ML	PER- CENT	CELLS /ML	PER- CENT	CELLS /ML	PER- CENT	CELLS /ML	PER- CENT
CHLOROPHYTA (GREEN ALGAE)								
..CHLOROPHYCEAE								
...CHLOROCOCCALES								
....COELASTRACEAE								
.....COELASTRUM	--	-	--	-	--	-	--	-
....OOCYSTACEAE								
.....ANKISTRODESMUS	10	3	--	-	--	-	--	-
.....DICTYOSPHAERIUM	--	-	--	-	--	-	--	-
.....SELENASTRUM	--	-	--	-	--	-	--	-
.....TETRAEDRON	--	-	--	-	--	-	--	-
.....WESTELLA	--	-	--	-	--	-	--	-
....SCENEDESMACEAE								
.....SCENEDESMUS	--	-	--	-	26	8	26#	15
....TETRASPORALES								
....COCCOMYXACEAE								
.....ELAKATOTHRIX	--	-	--	-	26	8	--	-
..VOLVOCALES								
...CHLAMYDOMONADACEAE								
....CHLAMYDOMONAS	--	-	--	-	--	-	13	8
CHRYSTOPHYTA								
..BACILLARIOPHYCEAE								
...CENTRALES								
....COSCINODISCACEAE								
.....CYCLOTELLA	25	6	26#	40	13	4	--	-
.....MELOSIRA	20	5	--	-	--	-	--	-
...PENNALES								
....ACHNANTHACEAE								
.....ACHNANTHES	30	8	26#	40	--	-	--	-
....COCCONEIS	--	-	--	-	--	-	--	-
....RHOICOSPHENIA	5	1	--	-	--	-	--	-
....DIATOMACEAE								
.....DIATOMA	10	3	13#	20	--	-	--	-
....EUNOTIACEAE								
.....EUNOTIA	10	3	--	-	--	-	--	-
....FRAGILARIACEAE								
.....ASTERIONELLA	5	1	--	-	--	-	--	-
....FRAGILARIA	--	-	--	-	--	-	--	-
....SYNEDRA	15	4	--	-	--	-	--	-
....GOMPHONEMATACEAE								
.....GOMPHONEMA	5	1	--	-	--	-	--	-
....MERIDIONACEAE								
.....MERIDION	5	1	--	-	--	-	--	-
....NAVICULACEAE								
.....NAVICULA	45	11	--	-	13	4	--	-
....NITZSCHIA	15	4	--	-	--	-	--	-
....NITZSCHIA								
....TABELLARIACEAE								
.....TABELLARIA	5	1	--	-	52#	15	--	-
..CHRYSTOPHYCEAE								
...CHRYSONOMADALES								
....MALLOMONADACEAE								
.....MALLOMONAS	--	-	--	-	--	-	--	-
....OCHROMONADACEAE								
.....DINOBRYON	96#	24	--	-	--	-	--	-
....OCHROMONAS	70#	18	--	-	--	-	--	-
..XANTHOPHYCEAE								
...HETEROCOCCALES								
....CHLOROTHECIACEAE								
.....OPHIOCYTIUM	--	-	--	-	--	-	--	-
CRYPTOPHYTA (CRYPTOMONADS)								
..CRYPTOPHYCEAE								
...CRYPTOMONADALES								
....CRYPTOCHRYSIDACEAE								
.....CHROOMONAS	--	-	--	-	--	-	13	8
....CRYPTOMONADACEAE								
.....CRYPTOMONAS	5	1	--	-	26	8	52#	31

NOTE: # - DOMINANT ORGANISM; EQUAL TO OR GREATER THAN 15%

* - OBSERVED ORGANISM, MAY NOT HAVE BEEN COUNTED; LESS THAN 1/2%

01066000 SACO RIVER AT CORNISH, ME--Continued

PHYTOPLANKTON ANALYSES, OCTOBER 1979 TO SEPTEMBER 1980

DATE TIME	NOV 28,79 1030		MAR 12,80 1000		MAY 29,80 1130		JUN 18,80 0930	
ORGANISM	CELLS /ML	PER- CENT	CELLS /ML	PER- CENT	CELLS /ML	PER- CENT	CELLS /ML	PER- CENT
CYANOPHYTA (BLUE-GREEN ALGAE)								
..CYANOPHYCEAE								
...CHROOCOCCALES								
...CHROOCOCCACEAE								
....ANACYSTIS	--	-	--	-	--	-	39#	23
...HORMOGONALES								
...NOSTOCACEAE								
....ANABAENA	--	-	--	-	170#	50	--	-
EUGLENOPHYTA (EUGLENOIDS)								
..EUGLENOPHYCEAE								
...EUGLENALES								
....EUGLENACEAE								
....EUGLENA	10	3	--	-	13	4	--	-
....EUTREPTIA	5	1	--	-	--	-	--	-
....TRACHELOMONAS	5	1	--	-	--	-	13	8
PYRRHOPHYTA (FIRE ALGAE)								
..DINOPHYCEAE								
...PERIDINIALES								
...GLENODINIACEAE								
....GLENODINIUM	--	-	--	-	--	-	13	8

NOTE: # - DOMINANT ORGANISM; EQUAL TO OR GREATER THAN 15%.

° - OBSERVED ORGANISM, MAY NOT HAVE BEEN COUNTED; LESS THAN 1/2%

01066000 SACO RIVER AT CORNISH, ME--Continued

PHYTOPLANKTON ANALYSES, OCTOBER 1979 TO SEPTEMBER 1980

DATE TIME	JUL 21,80 1100	AUG 26,80 1215	SEP 18,80 1530
TOTAL CELLS/ML	450	260	190
DIVERSITY: DIVISION	1.5	0.9	1.2
..CLASS	1.6	1.0	1.2
...ORDER	2.2	1.0	1.2
...FAMILY	3.0	1.0	1.2
....GENUS	3.3	1.9	1.2

ORGANISM	CELLS /ML	PER- CENT	CELLS /ML	PER- CENT	CELLS /ML	PER- CENT
CHLOROPHYTA (GREEN ALGAE)						
..CHLOROPHYCEAE						
...CHLOROCOCCALES						
...COELASTRACEAE						
....COELASTRUM	78#	17	--	-	--	-
...OOCYSTACEAE						
....ANKISTRODESMUS	--	-	52#	20	--	-
...DICTYOSPHAERIUM	--	-	140#	55	--	-
....SELENASTRUM	--	-	13	5	--	-
...TETRAEDRON	13	3	--	-	--	-
....WESTELLA	52	11	--	-	--	-
...SCENEDESMACEAE						
....SCENEDESMUS	52	11	--	-	--	-
..TETRASPORALES						
...COCCOMYXACEAE						
....ELAKATOTHRIX	--	-	--	-	--	-
..VOLVOCALES						
...CHLAMYDOMONADACEAE						
....CHLAMYDOMONAS	26	6	--	-	--	-
CHRYSOPHYTA						
..BACILLARIOPHYCEAE						
...CENTRALES						
...COSCINODISCACEAE						
....CYCLOTELLA	26	6	--	-	--	-
....MELOSTRA	52	11	--	-	--	-
..PENNALES						
...ACHNANTHACEAE						
....ACHNANTHES	--	-	--	-	--	-
...COCCONEIS	13	3	--	-	--	-
...RHOICOSPHENIA	--	-	--	-	--	-
..DIATOMACEAE						
....DIATOMA	--	-	--	-	--	-
...EUNOTIACEAE						
....EUNOTIA	--	-	--	-	--	-
...FRAGILARIACEAE						
....ASTERIONELLA	--	-	--	-	--	-
...FRAGILARIA	26	6	--	-	--	-
....SYNEDRA	--	-	--	-	--	-
...GOMPHONEMACEAE						
....GOMPHONEMA	--	-	--	-	--	-
...MERIDIONACEAE						
....MERIDION	--	-	--	-	--	-
...NAVICULACEAE						
....NAVICULA	--	-	13	5	--	-
...NITZSCHIA						
....NITZSCHIA	13	3	--	-	13	7
...TABELLARIACEAE						
....TABELLARIA	--	-	--	-	--	-
..CHRYSOPHYCEAE						
...CHRYSOMONADALES						
...MALLOMONADACEAE						
....MALLOMONAS	--	-	13	5	--	-
...OCHROMONADACEAE						
....DINOBRYON	--	-	--	-	--	-
...OCHROMONAS	--	-	--	-	--	-
..XANTHOPHYCEAE						
...HETEROCOCCALES						
...CHLOROTHECIACEAE						
....OPHIOCYTIUM	13	3	--	-	--	-
CRYPTOPHYTA (CRYPTOMONADS)						
..CRYPTOPHYCEAE						
...CRYPTOMONADALES						
...CRYPTOCHRYSIDACEAE						
....CHROOMONAS	--	-	--	-	52#	27
...CRYPTOMONADACEAE						
....CRYPTOMONAS	--	-	--	-	--	-

NOTE: # - DOMINANT ORGANISM; EQUAL TO OR GREATER THAN 15%

* - OBSERVED ORGANISM, MAY NOT HAVE BEEN COUNTED; LESS THAN 1/2%

01066000 SACO RIVER AT CORNISH, ME--Continued

PHYTOPLANKTON ANALYSES, OCTOBER 1979 TO SEPTEMBER 1980

DATE TIME	JUL 21,80 1100		AUG 26,80 1215		SEP 18,80 1530	
ORGANISM	CELLS /ML	PER- CENT	CELLS /ML	PER- CENT	CELLS /ML	PER- CENT
CYANOPHYTA (BLUE-GREEN ALGAE)						
..CYANOPHYCEAE						
...CHROOCOCCALES						
...CHROOCOCCACEAE						
....ANACYSTIS	90#	20	26	10	130#	67
..HORMOGONALES						
...NOSTOCACEAE						
....ANABAENA	--	-	--	-	--	-
EUGLENOPHYTA (EUGLENOIDS)						
..EUGLENOPHYCEAE						
...EUGLENALES						
...EUGLENACEAE						
....EUGLENA	--	-	--	-	--	-
....EUTREPTIA	--	-	--	-	--	-
....TRACHELOMONAS	--	-	--	-	--	-
PYRRHOPHYTA (FIRE ALGAE)						
..DINOPHYCEAE						
...PERIDINIALES						
...GLENODINIACEAE						
....GLENODINIUM	--	-	--	-	--	-

NOTE: # - DOMINANT ORGANISM; EQUAL TO OR GREATER THAN 15%

* - OBSERVED ORGANISM, MAY NOT HAVE BEEN COUNTED; LESS THAN 1/2%

01066000 SACO RIVER AT CORNISH, ME--Continued

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

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
OCTOBER			NOVEMBER			DECEMBER			JANUARY			
1	40	38	39	38	35	36	40	38	39	48	44	46
2	42	40	41	39	36	38	42	41	41	48	44	46
3	43	40	41	38	36	37	43	40	41	47	44	46
4	42	40	41	36	35	36	44	42	43	48	44	45
5	41	40	41	36	32	35	44	42	43	47	44	46
6	40	32	37	34	32	33	46	43	44	49	44	47
7	33	31	32	35	34	35	46	45	46	50	46	48
8	33	30	32	36	36	36	46	43	45	51	48	50
9	31	30	31	39	36	37	44	43	44	50	47	49
10	33	31	32	40	39	40	46	44	45	50	47	48
11	34	33	34	40	38	39	47	46	47	53	47	50
12	35	34	35	39	38	39	51	47	49	51	40	43
13	37	35	36	38	37	38	50	46	47	47	45	46
14	36	35	35	39	38	39	47	45	46	54	46	49
15	36	34	35	41	39	40	47	44	46	48	40	43
16	35	34	34	40	39	40	48	47	48	45	42	43
17	35	33	34	41	39	41	49	45	47	47	44	46
18	37	35	36	43	41	42	48	45	47	49	47	48
19	37	35	36	44	41	42	46	44	45	52	49	50
20	38	37	38	43	42	43	48	45	46	51	47	49
21	39	37	38	45	43	44	49	45	47	49	46	47
22	39	37	38	45	44	44	52	49	50	49	46	48
23	38	36	37	48	45	46	54	52	53	50	48	49
24	35	35	35	46	46	46	56	54	55	49	46	47
25	35	34	35	47	46	46	54	53	53	50	46	48
26	34	33	34	47	46	46	53	50	51	51	47	49
27	33	30	31	46	44	46	50	48	49	53	49	51
28	32	31	32	45	37	42	47	43	45	53	51	52
29	35	32	34	39	37	38	47	44	45	52	50	51
30	36	35	35	39	37	38	47	45	46	52	49	50
31	38	35	36	---	---	---	48	45	46	51	49	50
MONTH	43	30	36	48	32	40	56	38	46	54	40	48

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
FEBRUARY			MARCH			APRIL			MAY			
1	50	48	49	59	56	57	44	42	43	35	32	33
2	49	47	48	56	28	39	42	40	41	33	31	32
3	50	47	48	28	17	22	42	39	40	33	29	31
4	52	48	50	25	17	21	40	37	38	31	29	30
5	52	49	50	24	20	22	39	37	38	30	28	28
6	53	50	51	33	22	27	39	37	38	32	28	30
7	53	51	52	35	26	32	39	36	38	32	30	30
8	55	51	54	39	35	37	38	37	38	33	30	32
9	57	54	55	45	39	43	38	37	38	33	32	33
10	58	55	56	58	44	50	38	36	37	33	32	33
11	55	53	54	60	58	59	35	32	34	34	32	33
12	56	54	56	61	58	59	32	30	31	36	33	34
13	59	56	57	61	59	60	32	29	31	33	33	33
14	59	56	57	61	59	60	30	29	29	34	33	33
15	60	58	59	61	58	59	31	28	30	34	32	33
16	60	56	57	62	59	60	30	29	29	34	32	33
17	58	55	56	61	59	60	30	28	29	33	32	33
18	59	55	57	60	56	58	30	28	29	34	32	33
19	62	57	60	57	55	56	31	28	30	37	34	35
20	61	59	60	55	52	54	32	28	30	36	34	35
21	61	59	60	53	51	52	31	28	30	34	32	33
22	59	54	56	55	53	22	29	27	28	34	31	32
23	56	54	55	54	52	21	31	28	29	33	32	33
24	55	54	55	51	50	51	32	31	32	34	33	33
25	57	53	55	49	48	48	33	31	32	34	33	34
26	56	53	55	50	48	49	32	32	32	34	33	33
27	54	52	53	49	48	49	33	31	32	36	33	34
28	57	55	56	49	46	47	31	29	30	36	34	35
29	58	55	56	46	45	46	32	31	32	37	35	36
30	---	---	---	45	44	45	34	32	33	37	36	37
31	---	---	---	45	43	44	---	---	---	38	37	37
MONTH	62	47	55	62	17	45	44	27	33	38	28	33

01066000 SACO RIVER AT CORNISH, ME--Continued

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

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
	JUNE			JULY			AUGUST			SEPTEMBER		
1	39	38	39	48	44	45	62	33	50	39	36	38
2	39	38	38	47	45	46	34	29	31	40	39	40
3	40	39	39	48	46	47	33	31	32	39	33	37
4	40	39	39	46	44	45	35	31	33	41	38	40
5	40	39	40	45	44	45	35	31	33	44	40	42
6	39	38	39	45	45	45	36	30	33	46	44	45
7	39	38	38	46	44	44	---	---	---	48	45	46
8	39	38	39	46	45	45	---	---	---	47	45	46
9	39	38	38	47	45	46	34	33	33	48	45	46
10	39	38	38	48	46	47	35	34	34	49	47	48
11	39	39	39	49	45	47	37	35	36	49	48	49
12	40	39	39	48	46	47	42	35	37	52	49	50
13	40	40	40	49	47	48	39	37	38	---	---	---
14	41	40	40	49	46	47	41	39	40	51	49	50
15	41	40	40	49	46	48	41	40	40	52	49	51
16	42	40	40	50	48	49	42	40	41	58	51	52
17	41	40	40	50	48	49	44	42	43	---	---	---
18	46	40	43	51	48	49	45	42	44	44	42	42
19	46	45	46	49	47	49	45	44	45	---	---	---
20	47	46	46	50	48	49	46	45	45	---	---	---
21	46	45	46	50	47	49	47	45	46	---	---	---
22	47	46	46	50	48	49	49	44	47	---	---	---
23	46	43	44	50	49	49	48	45	46	---	---	---
24	44	42	43	50	49	49	48	45	46	---	---	---
25	42	41	42	50	49	49	46	45	46	---	---	---
26	43	41	41	54	50	51	47	43	46	---	---	---
27	44	42	43	54	50	52	49	45	46	---	---	---
28	45	44	44	53	51	52	47	45	46	---	---	---
29	46	45	45	53	49	51	---	---	---	---	---	---
30	46	45	46	50	46	49	---	---	---	---	---	---
31	---	---	---	50	49	49	36	34	36	---	---	---
MONTH	47	38	41	54	44	48	62	29	40	58	33	45
YEAR	62	17	42									

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

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
	OCTOBER			NOVEMBER			DECEMBER			JANUARY		
1	15.5	15.0	15.0	7.5	6.5	7.0	4.0	3.5	3.5	.0	.0	.0
2	16.0	15.0	15.5	8.0	7.0	7.5	3.5	2.5	3.0	.0	.0	.0
3	15.5	15.0	15.0	8.5	7.5	8.0	2.5	2.0	2.5	.0	.0	.0
4	16.0	14.5	15.5	8.5	8.0	8.5	2.0	1.5	2.0	.0	.0	.0
5	16.0	15.5	15.5	8.0	7.0	7.5	2.0	1.5	1.5	.0	.0	.0
6	15.5	14.5	15.5	7.0	6.5	6.5	1.5	1.5	1.5	.0	.0	.0
7	14.5	14.0	14.0	6.5	6.0	6.5	2.5	1.5	2.0	.0	.0	.0
8	13.5	11.5	13.0	7.0	6.5	6.5	2.5	2.0	2.5	.0	.0	.0
9	11.5	9.5	10.5	7.0	6.5	7.0	2.0	1.0	1.5	.0	.0	.0
10	9.5	8.0	9.0	7.5	7.0	7.5	1.0	.0	.5	.0	.0	.0
11	8.0	7.5	8.0	8.0	7.5	7.5	.5	.0	.0	.0	.0	.0
12	8.0	7.5	8.0	7.5	7.0	7.5	1.5	.5	1.0	.0	.0	.0
13	8.5	8.0	8.0	7.0	6.5	7.0	1.5	1.0	1.0	.0	.0	.0
14	8.0	7.5	8.0	7.0	6.5	6.5	1.5	.5	1.0	.0	.0	.0
15	7.5	7.0	7.5	6.5	6.0	6.5	.5	.0	.0	.0	.0	.0
16	7.5	7.0	7.0	6.0	4.5	5.5	.0	.0	.0	.5	.0	.0
17	7.0	7.0	7.0	4.5	4.0	4.0	.0	.0	.0	.5	.0	.5
18	8.0	7.0	7.5	4.0	3.0	3.5	.0	.0	.0	.5	.0	.5
19	8.5	7.0	7.5	3.5	2.5	3.0	.0	.0	.0	.5	.5	.5
20	9.5	8.0	8.5	3.0	2.5	3.0	.0	.0	.0	.5	.0	.5
21	10.5	9.0	10.0	4.0	3.0	3.5	.0	.0	.0	.5	.0	.0
22	12.0	10.5	11.5	3.5	3.5	3.5	.0	.0	.0	.0	.0	.0
23	14.0	12.0	13.0	5.0	4.0	4.5	.0	.0	.0	.0	.0	.0
24	14.0	13.5	14.0	6.0	5.0	5.5	.0	.0	.0	.0	.0	.0
25	13.5	12.5	13.0	7.0	6.0	6.5	.0	.0	.0	.0	.0	.0
26	12.5	10.0	11.5	8.0	7.0	7.5	.0	.0	.0	.0	.0	.0
27	10.0	8.0	9.0	8.0	8.0	8.0	.0	.0	.0	.0	.0	.0
28	8.0	7.0	7.5	8.0	7.0	8.0	.0	.0	.0	.0	.0	.0
29	7.0	6.5	7.0	7.0	5.5	6.0	.5	.0	.0	.0	.0	.0
30	7.0	6.5	7.0	5.0	4.0	4.5	.5	.0	.0	.0	.0	.0
31	7.5	6.5	7.0	---	---	---	.0	.0	.0	.0	.0	.0
MONTH	16.0	6.5	10.5	8.5	2.5	6.0	4.0	.0	1.0	.5	.0	.0

01066000 SACO RIVER AT CORNISH, ME--Continued

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

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
	FEBRUARY			MARCH			APRIL			MAY		
1	.0	.0	.0	.0	.0	.0	3.5	2.0	2.5	7.5	6.5	7.0
2	.0	.0	.0	.0	.0	.0	3.5	3.5	3.5	9.5	7.0	8.5
3	.0	.0	.0	.0	.0	.0	4.5	3.5	4.0	11.0	9.0	10.0
4	.0	.0	.0	.0	.0	.0	4.5	3.5	4.0	12.0	10.5	11.0
5	.0	.0	.0	.0	.0	.0	4.0	3.0	3.5	11.5	10.5	11.0
6	.0	.0	.0	.0	.0	.0	3.5	2.5	3.0	11.5	10.0	11.0
7	.0	.0	.0	.0	.0	.0	5.0	3.5	4.0	11.0	11.0	11.0
8	.0	.0	.0	.0	.0	.0	5.0	4.5	5.0	11.0	9.5	10.0
9	.0	.0	.0	.0	.0	.0	5.5	5.0	5.0	9.5	9.0	9.0
10	.0	.0	.0	.0	.0	.0	5.0	3.5	4.0	10.5	8.5	9.5
11	.0	.0	.0	.0	.0	.0	3.5	2.5	3.0	11.5	9.5	10.5
12	.0	.0	.0	.0	.0	.0	4.0	2.5	3.0	12.5	10.5	11.5
13	.0	.0	.0	.0	.0	.0	5.0	3.5	4.5	13.5	12.0	12.5
14	.0	.0	.0	.0	.0	.0	5.5	5.0	5.0	13.5	13.0	13.0
15	.5	.0	.0	.0	.0	.0	5.5	5.0	5.5	13.5	12.5	12.5
16	.0	.0	.0	.0	.0	.0	5.5	5.0	5.0	13.0	12.0	12.5
17	.0	.0	.0	.0	.0	.0	5.0	4.0	4.5	14.0	12.5	13.0
18	.0	.0	.0	.5	.0	.0	5.5	4.5	5.0	14.0	13.5	14.0
19	.0	.0	.0	.5	.0	.0	6.5	5.0	6.0	15.0	13.5	14.0
20	.0	.0	.0	.5	.0	.5	7.5	6.5	7.0	15.5	14.0	14.5
21	.0	.0	.0	.5	.0	.5	8.5	7.5	8.0	15.0	14.5	14.5
22	.0	.0	.0	1.0	.5	.5	8.5	8.0	8.0	16.0	14.5	15.5
23	.0	.0	.0	1.5	.5	1.0	8.0	7.5	7.5	17.0	15.5	16.5
24	.0	.0	.0	1.0	.5	.5	8.0	7.0	7.5	18.0	16.0	17.0
25	.0	.0	.0	.5	.5	.5	9.0	7.5	8.5	18.0	16.5	17.0
26	.0	.0	.0	1.0	.5	.5	9.0	8.5	9.0	17.0	16.0	16.5
27	.0	.0	.0	1.0	.5	.5	9.0	8.5	8.5	17.0	15.5	16.0
28	.0	.0	.0	1.5	.0	1.0	8.0	7.5	7.5	17.0	15.0	16.0
29	.0	.0	.0	2.0	1.0	1.5	8.0	7.5	8.0	17.0	15.5	16.0
30	---	---	---	2.0	1.5	2.0	7.5	7.0	7.5	18.0	15.5	16.5
31	---	---	---	2.0	1.0	1.5	---	---	---	17.5	16.5	17.0
MONTH	.5	.0	.0	2.0	.0	.5	9.0	2.0	5.5	18.0	6.5	13.0
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
	JUNE			JULY			AUGUST			SEPTEMBER		
1	18.5	17.0	17.5	20.5	19.5	20.0	28.0	22.0	23.5	26.0	23.5	24.5
2	17.5	17.0	17.5	20.0	19.0	19.5	28.0	23.0	25.0	27.5	24.0	25.0
3	17.0	16.5	16.5	21.5	18.5	20.0	26.5	24.0	25.0	25.5	22.5	24.0
4	17.0	16.0	16.5	23.0	19.5	21.0	28.0	23.5	25.5	25.0	22.0	23.5
5	17.0	15.5	16.0	23.0	20.5	21.5	28.0	23.5	26.0	23.0	22.0	22.5
6	18.0	15.5	16.5	23.0	21.5	22.0	28.0	25.0	26.5	24.5	22.0	23.0
7	18.0	16.0	17.0	23.5	20.5	22.0	---	---	---	24.0	21.5	22.0
8	17.0	16.5	17.0	21.5	20.0	20.5	---	---	---	23.0	19.5	21.0
9	17.5	15.5	16.5	22.0	19.5	20.5	28.5	25.5	26.5	22.0	18.5	20.0
10	16.5	15.0	15.5	22.0	19.0	20.5	28.5	24.0	25.5	22.0	18.5	20.0
11	16.0	14.5	15.0	22.5	19.5	21.0	25.0	23.5	24.0	22.0	18.0	19.5
12	17.0	13.5	15.0	21.5	20.0	21.0	24.5	22.5	23.0	22.0	18.0	19.5
13	18.0	14.0	16.0	22.0	19.5	20.5	25.0	21.5	23.0	---	---	---
14	20.0	15.0	17.0	23.5	20.0	21.5	24.0	21.5	22.5	18.5	17.5	18.0
15	20.5	16.5	18.5	22.0	21.0	21.0	25.5	21.5	23.0	19.0	17.5	18.0
16	21.5	18.0	19.5	24.0	21.0	22.5	22.0	20.5	21.0	19.5	16.0	17.0
17	21.5	18.5	20.0	25.0	22.0	23.5	24.5	19.5	21.5	---	---	---
18	21.5	18.5	20.0	27.5	22.0	24.0	23.5	20.0	21.5	18.0	17.0	17.5
19	22.0	18.5	20.0	25.0	22.5	24.0	21.5	20.0	20.5	---	---	---
20	19.5	18.0	18.5	27.5	23.5	25.0	20.0	20.0	20.0	---	---	---
21	19.5	17.0	18.0	28.0	24.0	26.0	21.5	18.5	20.0	---	---	---
22	19.0	16.5	17.5	26.5	25.0	25.5	22.5	19.5	20.5	---	---	---
23	20.0	17.0	18.0	28.0	25.0	25.5	24.0	18.5	21.0	---	---	---
24	21.0	17.5	19.5	28.0	24.0	25.5	24.5	19.5	21.5	---	---	---
25	22.5	19.5	21.0	28.0	23.5	25.0	23.0	20.0	21.5	---	---	---
26	24.0	20.5	22.5	26.0	23.5	24.5	25.5	20.5	22.5	---	---	---
27	24.5	21.5	23.0	25.5	23.5	24.5	---	22.0	23.5	---	---	---
28	25.0	21.5	23.0	26.0	23.5	24.5	26.5	22.0	23.5	---	---	---
29	23.0	21.0	22.0	24.5	22.5	23.5	---	---	---	---	---	---
30	21.5	21.0	21.0	26.0	22.0	23.5	---	---	---	---	---	---
31	---	---	---	25.5	22.0	23.5	25.5	23.0	24.0	---	---	---
MONTH	25.0	13.5	18.5	28.0	18.5	22.5	28.5	18.5	23.0	27.5	16.0	21.0
YEAR	28.5	.0	9.5									

01069500 MOUSAM RIVER NEAR WEST KENNEBUNK, ME

LOCATION.--Lat 43°25'04", long 70°39'32", York County, Hydrologic Unit 01060003, on right bank 100 ft (30 m) upstream from highway bridge, 1.4 mi (2.3 km) downstream from Middle Branch, and 4.0 mi (6.4 km) west of West Kennebunk.

DRAINAGE AREA.--105 mi² (272 km²).

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

GAGE.--Water-stage recorder. Altitude of gage is 170 ft (52 m), from topographic map.

REMARKS.--Records good. Flow regulated by Square Pond and Mousam and Estes Lakes, combined capacity about 700,000,000 ft³ (20,000,000 m³) and powerplants upstream. Several observations of water temperature and specific conductance were made during the year.

AVERAGE DISCHARGE.--41 years, 180 ft³/s (5.098 m³/s).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 3,540 ft³/s (100 m³/s) Mar. 14, 1977, gage height, 5.82 ft (1.774 m); minimum daily, 0.4 ft³/s (0.011 m³/s) Nov. 10, 15, 16, 1964.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 1,640 ft³/s (46.4 m³/s) Apr. 11, gage height, 3.80 ft (1.158 m); minimum daily, 2.1 ft³/s (0.059 m³/s) Sept. 24.

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	39	164	186	164	12	12	203	461	15	79	63	19
2	156	166	183	141	12	13	188	407	15	98	21	73
3	144	306	175	141	13	13	179	367	114	20	22	72
4	295	570	167	146	74	25	191	323	168	18	22	19
5	215	401	164	144	104	110	295	279	158	18	67	19
6	174	320	58	144	105	80	264	265	104	19	72	19
7	203	290	4.9	133	149	34	315	264	14	19	23	19
8	226	267	87	135	80	11	303	323	15	95	22	17
9	221	239	102	132	13	11	307	322	15	80	21	17
10	241	269	143	133	13	69	867	289	116	75	19	16
11	261	272	138	130	88	102	1400	276	156	18	19	69
12	229	273	188	119	145	177	906	265	107	18	20	43
13	307	233	172	104	74	160	717	249	15	19	20	15
14	286	264	89	98	12	158	572	235	15	19	20	16
15	239	235	136	98	12	158	543	204	17	19	67	70
16	224	231	153	98	13	155	571	196	18	19	18	16
17	209	198	155	68	13	42	502	184	115	19	17	16
18	217	201	150	12	13	110	446	180	118	19	51	16
19	186	197	149	12	13	380	403	180	17	19	19	111
20	180	187	149	12	102	354	372	179	19	19	71	66
21	172	136	136	12	152	291	353	179	19	19	18	22
22	167	172	78	34	34	307	326	53	18	85	19	21
23	165	206	141	39	11	303	338	50	19	65	19	12
24	164	192	141	105	11	319	336	18	68	19	19	2.1
25	168	178	148	138	11	303	316	43	113	19	20	11
26	163	182	341	131	12	259	317	66	77	19	20	57
27	161	227	299	130	12	243	309	138	18	19	20	13
28	161	228	232	130	12	234	299	166	17	19	19	12
29	162	210	196	130	12	226	413	165	19	19	19	35
30	152	200	178	130	---	234	563	110	19	19	19	25
31	164	---	167	85	---	225	---	15	---	82	19	---
TOTAL	6051	7214	4805.9	3228	1327	5118	13114	6451	1718	1093	885	938.1
MEAN	195	240	155	104	45.8	165	437	208	57.3	35.3	28.5	31.3
MAX	307	570	341	164	152	380	1400	461	168	98	72	111
MIN	39	136	4.9	12	11	11	179	15	14	18	17	2.1
†	382	351	329	336	341	423	523	500	482	451	407	364
CAL YR 1979	TOTAL	82268.6	MEAN	225	MAX	1360	MIN	2.3				
WTR YR 1980	TOTAL	51943.0	MEAN	142	MAX	1400	MIN	2.1				

† Monthend contents, in millions of cubic feet, in Square Pond and Mousam Lake; records furnished by town of Sanford.

PISCATAQUA RIVER BASIN

01072100 SALMON FALLS RIVER AT MILTON, NH

LOCATION.--Lat 43°24'50", long 70°59'15", Strafford County, Hydrologic Unit 01060003, on right bank just downstream from Milton Pond, at Milton.

DRAINAGE AREA.--108 mi² (280 km²).

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

GAGE.--Water-stage recorder and concrete control. Altitude of gage is 405 ft (123 m), from topographic map.

REMARKS.--Records good. Flow regulated by Great East and Lovell Lakes, and Horn, Wilson, and Milton (also controls Northeast and Town House) Ponds, combined usable capacity, 1,280,000,000 ft³ (36,250,000 m³). Several observations of water temperature and specific conductance were made during the year.

AVERAGE DISCHARGE.--12 years, 201 ft³/s (5,692 m³/s).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 3,500 ft³/s (99.1 m³/s) Mar. 15, 1977, gage height, 6.50 ft (1.981 m); minimum daily, 19 ft³/s (0.54 m³/s) Aug. 30, Sept. 13, 1970.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 1,780 ft³/s (50.4 m³/s) Apr. 11, gage height, 5.52 ft (1.682 m); minimum daily, 39 ft³/s (1.10 m³/s) Mar. 6-11.

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	51	136	194	201	114	44	235	550	62	46	44	46
2	48	136	179	185	96	46	224	438	62	46	44	46
3	90	204	158	170	86	46	198	380	62	46	45	46
4	269	339	147	155	114	46	194	380	61	46	48	46
5	273	348	136	144	121	42	224	285	62	46	49	46
6	273	335	136	134	94	39	250	235	62	46	49	46
7	273	322	136	139	78	39	277	239	62	46	49	46
8	265	322	142	153	70	39	265	242	61	46	49	45
9	246	301	147	134	61	40	265	245	60	46	49	44
10	246	273	139	116	58	40	621	265	54	46	49	44
11	246	273	136	136	67	40	1560	273	51	43	47	44
12	246	273	131	158	73	42	1270	257	51	44	43	44
13	246	269	129	158	65	58	855	242	49	44	43	43
14	250	257	139	150	58	86	608	221	47	44	43	43
15	254	239	139	139	53	94	449	170	46	44	43	43
16	239	224	131	136	50	88	413	102	44	44	43	42
17	211	201	124	142	49	84	444	58	42	44	43	42
18	211	198	124	153	46	72	366	57	44	44	43	42
19	194	179	129	147	44	84	326	57	44	44	43	42
20	142	170	136	139	44	131	330	58	44	44	43	42
21	142	170	121	131	46	158	210	69	44	44	43	42
22	142	158	111	121	47	285	167	86	44	44	42	42
23	136	147	107	134	47	285	191	90	44	44	42	42
24	134	147	105	139	47	228	198	90	44	44	42	42
25	153	136	131	124	48	191	198	90	44	44	42	42
26	158	147	261	111	48	167	201	90	44	44	43	42
27	158	182	330	98	47	147	204	86	46	44	46	43
28	158	211	330	126	47	150	204	80	46	44	46	48
29	158	214	297	142	46	161	295	75	46	44	46	68
30	153	211	261	142	---	201	497	70	46	44	46	84
31	147	---	235	136	---	232	---	65	---	44	46	---
TOTAL	5912	6722	5121	4393	1864	3405	11739	5645	1518	1383	1393	1377
MEAN	191	224	165	142	64.3	110	391	182	50.6	44.6	44.9	45.9
MAX	273	348	330	201	121	285	1560	550	62	46	49	84
MTN	48	136	105	98	44	39	167	57	42	43	42	42
CAL YR 1979	TOTAL	79029	MEAN	217	MAX	1690	MIN	31				
WTR YR 1980	TOTAL	50472	MEAN	138	MAX	1560	MIN	39				

DISCHARGE MEASUREMENTS MADE AT MISCELLANEOUS SITES DURING WATER YEAR 1980

DISCHARGE MEASUREMENTS MADE AT MISCELLANEOUS SITES DURING WATER YEAR 1980			Drainage area (mi ²)	Measured previously (water years)	Measurements	
Stream	Tributary to	Location			Date	Discharge (ft ³ /s)
PLEASANT RIVER BASIN						
Dogwood Brook	North Branch Pleasant River	Lat 44°43'11", long 67°48'37", Washington County, at a point 0.7 mi (1.1 km) upstream of mouth and 3.3 mi (5.3 km) northwest of Epping.			06-25-80 08-14-80	0.7 0.2
Unnamed Tributary	North Branch Pleasant River	Lat 44°43'47", long 67°48'39", Washington County, at a point approximately 2.0 mi (3.2 km) up- stream from mouth and 4.5 mi (7.2 km) northwest of Epping.			08-21-80	0.7
Unnamed Tributary	North Branch Pleasant River	Lat 44°43'04", long 67°49'23", Washington County, at a point approximately 1.9 mi (3.1 km) up- stream from mouth and 3.6 mi (5.8 km) northwest of Epping.			05-23-80	0.9
Unnamed Tributary	North Branch Pleasant River	Lat 44°43'01", long 67°50'05", Washington County, at outlet of ponds located on peat bog, approxi- mately 2.4 mi (3.9 km) upstream from mouth and 4.0 mi (6.4 km) northwest of Epping.			05-23-80	0.2
Pine Island Brook	Pleasant River	Lat 44°41'55", long 67°49'46", Washington County, at a point 500 ft (152 m) upstream from mouth, 3.5 mi (5.6 km) northwest of Epping, and 3.3 mi (5.3 km) east of camp on Schoodic Lake near Columbia.			05-21-80	1.2
Pine Island Brook	Pleasant River	Lat 44°42'32", long 67°50'23", Washington County, at a point 1.0 mi (1.6 km) upstream from mouth, 4.2 mi (6.8 km) northwest of Epping, and 3.0 mi (4.8 km) east-northeast of camp on Schoodic Lake near Columbia.			05-21-80	.09
Pleasant River	Atlantic Ocean	Lat 44°41'31", long 67°51'02", Washington County, at end of gravel road 1.7 mi (2.7 km) north of Pineo Ridge Road, and 4.2 mi (6.8 km) north- west of Epping.			06-26-80 06-27-80 08-13-80	43 31 27
Bill Smith Brook	Taylor Branch Brook	Lat 44°45'27", long 67°52'42", Washington County, 1.7 mi (2.7 km) upstream from mouth and 0.3 mi (0.5 km) southwest of Pineo Camp near Deblois.			08-14-80	.03
Fred Dorr Brook	Taylor Branch Brook	Lat 44°45'58", long 67°51'32", Washington County, 1.0 mi (1.6 km) up- stream from mouth at gravel road crossing 0.7 mi (1.1 km) east of Pineo Camp near Deblois.			08-14-80	.09
Taylor Branch Brook	Pleasant River	Lat 44°46'01", long 67°50'40", Washington County, at gravel road crossing 1.4 mi (2.2 km) east of Pineo Camp and 0.8 mi (1.3 km) downstream from Taylor Branch Pond near Deblois.			08-14-80	.01
Pleasant River	Atlantic Ocean	Lat 44°42'38", long 67°51'21", Washington County, 10 ft (3.0 m) up- stream from Taylor Brook mouth and ap- proximately 4.8 mi (7.7 km) northwest of Epping.			08-13-80	20
KENNEBEC RIVER BASIN						
West Outlet Stream	Kennebec River	Lat 45°39'06", long 69°44'43", Somerset County, just downstream from West Outlet dam of Moosehead Lake, near Rockwood.		many	07-02-80	37
Sebasticook River	Kennebec River	Lat 44°52'58", long 69°26'58", Somerset County, on left bank ap- proximately 200 ft (60.9 m) downstream of bridge on State Highway 152, at Hartland	230	1979	10-01-79 10-29-79	27 263
Indian Stream	Sebasticook River	Lat 44°52'32", long 69°26'27", Somerset County, upstream side of bridge on town road, 0.7 mi (1.1 km) south of junction with State High- way 152 at Hartland.	40	1979	11-01-79	78

DISCHARGE AT PARTIAL-RECORD STATIONS AND MISCELLANEOUS SITES

DISCHARGE MEASUREMENTS MADE AT MISCELLANEOUS SITES DURING WATER YEAR 1980--CONTINUED

Stream	Tributary to	Location	Drainage area (mi ²)	Measured previously (water years)	Measurements	
					Date	Discharge (ft ³ /s)
KENNEBEC RIVER BASIN.--Continued						
Unnamed Tributary	Lovejoy Pond	Lat 44°32'01", long 69°28'17", Kennebec County, downstream side of box culvert approximately 100 ft (3.5 m) east of town road near Albion.		1979	03-26-80	4.0
Mill Stream	Fifteen Mile Brook	Lat 44°31'54", long 69°27'18", Kennebec County, approximately 25 ft (7.6 m) upstream of culvert on town road, 0.65 mi (1.05 km) west of Albion.		1979	04-25-80 07-23-80	37 2.7
Unnamed Tributary	Threemile Pond	Lat 44°20'07", long 69°37'05", Kennebec County, approximately 30 ft (9.1 m) upstream of culvert on Weeks Mills Road near West Windsor.		1976,79	03-27-80	40
Outlet Three- mile Pond	Webber Pond	Lat 44°24'06", long 69°38'17", Kennebec County, approximately 40 ft (12.2 m) upstream of culvert on Cross Hill Road at Seaward Mills.		1979	03-27-80	68
Outlet Three- mile Pond	Webber Pond	Lat 44°23'08", long 69°35'34", Kennebec County, approximately 30 ft (9.1 m) upstream of box culvert on town road at South Vassalboro.		1979	03-27-80 04-22-80 06-18-80	64 82 11
Wilson Stream	Lake Annabes- sacook	Lat 44°16'04", long 70°01'16", Kennebec County, on left upstream wingwall of culvert on U.S. Highway 202 near North Monmouth.	17.6	many	10-18-79	13
Wilson Stream	Wilson Stream	Lat 44°14'34", long 70°01'18", Kennebec County, 30 ft (9.1 m) upstream from culvert on State Highway 135 at Monmouth.	8.16	many	10-18-79	5.4
Hoyt Brook	Lake Annabes- sacook	Lat 44°16'54", long 69°59'14", Kennebec County, upstream side of culvert on Annabessacook Road near Winthrop.	3.50	many	10-18-79	2.5
Potters Brook	Pleasant Pond	Lat 43°08'54", long 69°55'30", Kennebec County, upstream headwall of box culvert on Pond Road near Litchfield Plains.	5.17	many	10-18-79	6.9
Chase Meadow Brook	Togus Stream	Lat 44°15'59", long 69°42'01", Kennebec County, downstream side of bridge on State Highway 226, 400 ft (122 m) south of Chelsea School in Chelsea.			03-19-80	121
Togus Stream	Kennebec River	Lat 44°16'21", long 69°41'15", Kennebec County, upstream side of bridge on Wellman Road near Chelsea.		1976	03-19-80	63
Swift River	Androscoggin River	Lat 44°33'17", long 70°32'43", Oxford County, downstream side of bridge on U.S. Route 2 at Rumford.	125		04-11-80 06-03-80 07-22-80 08-14-80	1780 114 25 70
Androscoggin River	Kennebec River	Lat 44°31'49", long 70°27'52", Oxford County, downstream side of bridge on town road at Dixfield.	2204		03-27-80 07-23-80 09-09-80	3010 1990 1630
ANDROSCOGGIN RIVER BASIN						
Webb River	Androscoggin River	Lat 44°35'55", long 70°28'20", Oxford County, just west of private road 0.4 mi (0.6 km) up- stream of the falls, near Dixfield.	116		06-04-80 07-21-80 09-11-80	115 15 8.6
Androscoggin River	Kennebec River	Lat 44°30'04", long 70°13'05", Franklin County, upstream side of bridge on town road near Jay.	2488		05-19-80 06-04-80 08-11-80 09-10-80	3540 2930 2020 1830
Androscoggin River	Kennebec River	Lat 44°20'31", long 70°11'22", Androscoggin County, upstream side of bridge on State Highway 219 at Twin Bridges.	2639		05-20-80 05-30-80 08-12-80	5430 2700 1980
Allen Stream	Androscoggin River	Lat 44°17'32", long 70°10'09", Androscoggin County, upstream side of bridge on town road at West Leeds.			05-20-80 05-24-80 07-21-80	15 10 1.1

DISCHARGE MEASUREMENTS MADE AT MISCELLANEOUS SITES DURING WATER YEAR 1980--CONTINUED

Stream	Tributary to	Location	Drainage area (mi ²)	Measured previously (water years)	Measurements Date	Discharge (ft ³ /s)
ANDROSCOGGIN RIVER BASIN.--Continued						
Little Andros- coggin River	Androscoggin River	Lat 44°14'56", long 70°31'00", Oxford County, 1.5 mi (2.4 km) upstream from bridge on State Highway 26 at South Paris.	92.8	many	07-10-80 09-16-80	24 32
Little Andros- coggin River	Androscoggin River	Lat 44°06'37", long 70°25'03", Androscoggin County, downstream side of bridge on Lane Road near Mechanic Falls.	231	many	07-10-80 07-11-80 09-17-80	76 81 86
Stony Brook	Little Andros- coggin River	Lat 44°13'23", long 70°30'24", Oxford County, upstream side of bridge on State Highway 117 at South Paris.	14.7	many	07-10-80 09-17-80	0.8 1.6
Little Andros- coggin River	Androscoggin River	Lat 44°12'40", long 70°31'02", Oxford County, approximately 200 ft (61 m) above railroad bridge at South Paris.	109	1978	07-10-80 09-16-80	27 37
Pennesseewassee Lake Outlet	Little Andros- coggin River	Lat 44°12'22", long 70°31'54", Oxford County, upstream side of culvert on State Highways 26 and 121 at Norway.	22.2	1978	07-11-80	0.5
Little Andros- coggin River	Androscoggin River	Lat 44°08'12", long 70°29'26", Oxford County, upstream side of bridge on State Highway 121 at Oxford.	152	1978	07-10-80 09-17-80	40 45
Thompson Lake Outlet	Little Andros- coggin River	Lat 44°08'07", long 70°29'28", Oxford County, on left bank 0.2 mi (0.3 km) upstream from mouth and 50 ft (15 m) upstream from bridge on State Highway 121 at Oxford.	47.3	1978	07-11-80 09-17-80	14 75
Little Andros- coggin River	Androscoggin River	Lat 44°07'56", long 70°27'47", Oxford County, upstream side of bridge on State Highway 26 at Welchville.	216	many	07-11-80 09-17-80	77 86
Dead River	Sabattus Pond	Lat 44°12'20", long 70°04'46", Androscoggin County, 10 ft (3.0 m) upstream of bridge on town road, 1.2 mi (2.0 km) south of junction of U.S. Route 202 and town road at Leeds Junction.	8.8	1978,79	05-20-80 07-02-80	3.4 1.5
Lombard Brook	Sabattus Pond	Lat 44°09'45", long 70°06'28", Androscoggin County, upstream side of culvert on private road, 0.2 mi (0.4 km) east of junction with town road, 2.7 mi (4.3 km) south of Greene.	0.25	1978,79	03-25-80 07-09-80	1.9 0
Drainage ditch	Sabattus Pond	Lat 44°08'19", long 70°05'30", Androscoggin County, in field 0.3 mi (0.5 km) east of State Highway 132, 1.2 mi (1.9 km) north of junction of State Highways 126 and 132 near Sabattus.		1978,79	10-30-79 03-25-80 04-15-80	.06 0.2 4.0
Sabattus River	Androscoggin River	Lat 44°07'12", long 70°06'32", Androscoggin County, 75 ft (23 m) below bridge at Sabattus.	34.2	many	03-25-80 07-10-80	4.0 3.6
Sabattus River	Androscoggin River	Lat 44°01'13", long 70°05'27", Androscoggin County, 0.7 mi (1.1 km) upstream from mouth and 600 ft (180 m) downstream from Mill Street bridge at Lisbon Center.	72.3	many	05-23-80 09-09-80	49 28
MOUSAM RIVER BASIN						
Mousam River	Atlantic Ocean	Lat 43°24'26", long 70°43'26", York County, 0.4 mi (0.7 km) downstream from Jagger Pond dam near Sanford.	44.6	1978,79	11-30-79 07-31-80	98 18
Middle Branch Mousam River	Estes Lake	Lat 43°28'11", long 70°43'12", York County, upstream side of bridge on State Highway 4 at Alfred.	15.3	1978,79	07-31-80	2.1
Littlefield River	Estes Lake	Lat 43°28'33", long 70°42'03", York County, upstream side of bridge on State Highway 111 near Alfred.	21.6	1978,79	11-30-79 03-13-80 04-16-80 06-17-80 07-31-80	41 40 135 11 5.4

MISCELLANEOUS TEMPERATURE AND SPECIFIC CONDUCTANCE DETERMINATIONS

WATER QUALITY DATA, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

DATE	TIME	STREAM- FLOW, INSTAN- TANEOUS (CFS)	TEMPER- ATURE, WATER (DEG C)	TEMPER- ATURE, AIR (DEG C)	SPE- CIFIC CON- DUCT- ANCE (MICRO- MHOS)	DATE	TIME	STREAM- FLOW, INSTAN- TANEOUS (CFS)	TEMPER- ATURE, WATER (DEG C)	TEMPER- ATURE, AIR (DEG C)	SPE- CIFIC CON- DUCT- ANCE (MICRO- MHOS)
01013500 - FISH RIVER NEAR FORT KENT, ME (LAT 47 14 14 LONG 068 34 56)											
DEC , 1979						JUN , 1980					
13...	0850	989	.0	13.0	75	05...	1600	1030	13.5	16.0	53
JAN , 1980						JUL					
31...	1250	458	.0	-10.0	90	16...	1835	531	21.5	24.0	80
FEB						AUG					
28...	1130	294	.0	-9.5	60	14...	1500	463	20.0	22.0	70
APR						SEP					
02...	1410	149	.0	8.5	80	12...	0930	205	14.0	14.0	68
MAY											
20...	1255	2510	11.5	12.0	80						
01015800 - AROOSTOOK RIVER NEAR MASARDIS, ME (LAT 46 31 21 LONG 068 22 23)											
OCT , 1979						FEB , 1980					
23...	1405	630	14.5	21.0	60	25...	1525	160	.0	1.0	125
DEC						JUL					
13...	1055	642	.0	-8.0	66	17...	1105	584	21.0	21.0	60
JAN , 1980						AUG					
28...	1450	342	.0	-6.5	70	13...	1415	591	19.0	17.0	60
01016500 - MACHIAS RIVER NEAR ASHLAND, ME (LAT 46 37 42 LONG 068 26 07)											
OCT , 1979						FEB , 1980					
23...	1435	286	15.0	21.0	68	25...	1655	48	.0	.5	105
DEC						AUG					
13...	1100	3200	.0	-4.0	78	13...	1030	139	17.0	17.0	77
JAN , 1980											
28...	1605	112	.0	-6.5	85						
01017000 - AROOSTOOK RIVER AT WASHBURN, ME (LAT 46 46 36 LONG 068 09 29)											
OCT , 1979						APR , 1980					
24...	0810	1180	12.0	15.0	78	01...	1600	1030	.0	8.5	74
DEC						MAY					
12...	0820	1250	.0	-1.0	88	20...	0930	3510	12.0	11.0	60
JAN , 1980						JUL					
29...	0920	787	.0	-13.5	80	16...	0855	1180	20.5	22.0	88
FEB						AUG					
26...	1020	495	.0	-12.0	60	14...	0855	1160	18.0	13.0	66
01017900 - MARLEY BROOK NEAR LUDLOW, ME (LAT 46 08 42 LONG 068 03 42)											
OCT , 1979						APR , 1980					
23...	1050	1.4	10.0	14.0	102	01...	1115	8.4	.0	7.5	52
DEC						JUL					
11...	1420	.83	.0	-5.0	120	15...	1410	1.1	16.0	22.0	95
JAN , 1980						AUG					
28...	1045	.26	.0	-5.0	120	12...	1205	.12	14.0	16.0	145
FEB											
25...	1115	.14	.0	9.0	175						
01018000 - MEDUXNEK RIVER NEAR HOULTON, ME (LAT 46 06 17 LONG 067 52 00)											
OCT , 1979						FEB , 1980					
23...	1215	151	12.0	17.0	144	25...	1255	25	.0	9.0	185
DEC						JUL					
11...	1350	158	.0	-4.0	140	15...	1555	144	19.0	27.0	130
JAN , 1980						AUG					
28...	1215	66	.0	-6.5	170	15...	1250	124	19.0	21.0	130
01018500 - ST. CROIX RIVER AT VANCEBORO, ME (LAT 45 34 08 LONG 067 25 47)											
OCT , 1979						FEB , 1980					
31...	0835	805	6.5	5.0	41	21...	1400	982	2.5	3.0	42
DEC											
06...	0750	836	2.0	2.0	36						
01019000 - GRAND LAKE STREAM AT GRAND LAKE STREAM, ME (LAT 45 10 23 LONG 067 46 06)											
OCT , 1979						MAR , 1980					
30...	1645	223	8.5	6.5	26	25...	1155	147	3.0	8.5	--
DEC						SEP					
06...	0930	245	4.5	7.5	31	03...	1700	204	22.5	22.0	28
FEB , 1980						24...	1320	170	16.0	12.0	28
21...	1155	589	2.0	3.5	32						

WATER QUALITY DATA, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

DATE	TIME	STREAM- FLOW, INSTAN- TANEOUS (CFS)	TEMPER- ATURE, WATER (DEG C)	TEMPER- ATURE, AIR (DEG C)	SPE- CIFIC CON- DUCT- ANCE (MICRO- MHOS)	DATE	TIME	STREAM- FLOW, INSTAN- TANEOUS (CFS)	TEMPER- ATURE, WATER (DEG C)	TEMPER- ATURE, AIR (DEG C)	SPE- CIFIC CON- DUCT- ANCE (MICRO- MHOS)
01020000 - ST. CROIX RIVER NEAR BAILEYVILLE, ME (LAT 45 15 55 LONG 067 28 36)											
OCT , 1979						MAY , 1980					
30...	1510	2020	7.5	7.0	32	21...	1300	1770	15.5	22.0	32
DEC						SEP					
06...	1110	2690	1.5	9.5	37	03...	1805	2040	23.0	21.5	30
FEB , 1980						25...	1415	1600	14.0	11.5	30
21...	1110	1870	1.0	3.5	40						
MAR											
25...	1100	3390	1.5	8.0	--						
01021000 - ST. CROIX RIVER AT BARING, ME (LAT 45 08 12 LONG 067 19 05)											
OCT , 1979						FEB , 1980					
30...	1410	2060	9.0	6.5	121	21...	1655	1820	1.5	3.0	185
NOV						MAY					
20...	1045	1820	2.0	2.5	108	21...	1400	1510	16.5	21.0	110
01021200 - DENNIS RIVER AT DENNISVILLE, ME (LAT 44 54 03 LONG 067 14 56)											
OCT , 1979						MAR , 1980					
30...	1220	207	6.5	7.5	33	24...	1625	392	.0	6.0	33
NOV						MAY					
19...	1605	174	1.0	.0	38	21...	1445	109	15.0	16.5	35
FEB , 1980						SEP					
21...	0910	85	.0	3.0	52	24...	1535	84	13.5	12.0	42
01024200 - GARLAND BROOK NEAR MARIAVILLE, ME (LAT 44 43 17 LONG 068 24 40)											
OCT , 1979						MAY , 1980					
29...	1650	54	6.5	4.5	30	20...	1440	15	15.0	23.0	--
DEC						JUN					
06...	1445	14	2.0	8.0	37	23...	1810	4.8	20.0	27.0	40
FEB , 1980						AUG					
20...	1245	3.5	.0	5.0	48	11...	1720	2.9	19.5	17.0	41
MAR											
24...	1100	59	.0	7.0	28						
01029500 - EAST BRANCH PENOBSCOT RIVER AT GRINDSTONE, ME (LAT 45 43 49 LONG 068 35 22)											
OCT , 1979						MAR , 1980					
31...	1615	1400	5.5	5.5	43	21...	1645	1950	.0	7.0	43
DEC						MAY					
05...	1810	1570	.0	-1.0	42	22...	1145	2030	16.0	23.5	36
JAN , 1980						JUL					
15...	1200	1530	.5	1.0	50	17...	1300	1150	21.5	26.0	46
FEB											
27...	0830	780	.0	-18.0	20						
01030000 - PENOBSCOT RIVER NEAR MATTAWAMKEAG, ME (LAT 45 34 01 LONG 068 24 10)											
OCT , 1979						MAR , 1980					
31...	1330	4600	7.5	11.0	53	31...	1310	6000	2.0	8.5	45
DEC						MAY					
05...	1720	6440	1.0	-1.0	57	19...	1410	5000	14.0	17.0	65
JAN , 1980						JUL					
15...	1255	5380	.0	4.0	58	15...	1200	3330	20.0	28.0	65
FEB											
27...	1015	3250	.0	-10.0	52						
01030500 - MATTAWAMKEAG RIVER NEAR MATTAWAMKEAG, ME (LAT 45 30 18 LONG 068 18 07)											
OCT , 1979						FEB , 1980					
31...	1200	2290	7.0	8.5	68	27...	1530	186	.0	-11.0	55
DEC						MAR					
05...	1610	2070	1.0	.0	69	31...	1110	4740	.0	3.0	47
JAN , 1980											
15...	1510	1840	.5	.0	67						

MISCELLANEOUS TEMPERATURE AND SPECIFIC CONDUCTANCE DETERMINATIONS.--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

DATE	TIME	STREAM- FLOW, INSTAN- TANEOUS (CFS)	TEMPER- ATURE, WATER (DEG C)	TEMPER- ATURE, AIR (DEG C)	SPE- CIFIC CON- DUCT- ANCE (MICRO- MHOS)	DATE	TIME	STREAM- FLOW, INSTAN- TANEOUS (CFS)	TEMPER- ATURE, WATER (DEG C)	TEMPER- ATURE, AIR (DEG C)	SPE- CIFIC CON- DUCT- ANCE (MICRO- MHOS)
01031500 - PISCATAQUIS RIVER NEAR DOVER-FOXCROFT, ME (LAT 45 10 31 LONG 069 18 55)											
OCT , 1979						MAY , 1980					
18...	0920	428	6.5	7.0	40	14...	1745	659	12.0	12.0	48
29...	1245	784	5.0	5.0	--	JUN					
NOV						26...	1325	144	25.0	32.0	47
27...	1310	2250	6.5	11.0	58	JUL					
DEC						02...	1130	80	19.0	17.0	56
27...	1110	682	.0	2.5	42	29...	1100	179	21.5	21.0	53
JAN , 1980						AUG					
14...	1130	150	.0	-2.0	120	27...	1700	56	26.0	28.5	--
29...	1325	63	.0	-6.0	68	SEP					
FEB						10...	1000	54	18.0	13.0	62
26...	0910	25	.0	-11.0	53	17...	1430	267	14.0	17.0	47
MAR											
26...	1020	597	.0	8.5	--						
01033000 - SEBEC RIVER AT SEBEC, ME (LAT 45 16 12 LONG 069 06 44)											
OCT , 1979						MAY , 1980					
17...	1735	488	8.0	7.5	27	14...	1500	1220	11.5	12.0	26
NOV						JUN					
27...	1455	627	7.0	8.5	38	26...	1510	300	24.0	34.0	26
DEC						27...	1530	352	24.0	31.0	26
27...	1435	387	.5	2.0	34	JUL					
JAN , 1980						29...	1230	291	23.5	24.0	34
29...	1120	392	.0	-8.0	32	SEP					
FEB						17...	1340	252	17.0	16.5	29
26...	1105	101	2.5	-7.0	31						
01034000 - PISCATAQUIS RIVER AT MEDFORD, ME (LAT 45 15 40 LONG 068 52 07)											
OCT , 1979						APR , 1980					
17...	1530	1960	7.0	8.5	32	01...	1410	3200	1.0	10.0	38
DEC						MAY					
05...	1155	1870	1.5	.5	40	14...	1200	3310	13.0	11.0	32
JAN , 1980						JUN					
14...	1530	1420	.0	.5	52	27...	0810	913	22.0	25.0	38
FEB						SEP					
26...	1300	328	.0	-6.0	43	17...	1225	1540	14.0	16.5	44
01034500 - PENOBSCOT RIVER AT WEST ENFIELD, ME (LAT 45 14 12 LONG 068 38 56)											
OCT , 1979						MAY , 1980					
17...	1430	10800	7.5	10.5	51	14...	1130	17200	13.0	10.5	57
DEC						JUN					
05...	1320	11200	1.5	1.5	69	27...	1120	6340	24.0	31.0	68
JAN , 1980						AUG					
14...	1605	9500	.0	-1.5	64	05...	1330	8060	25.0	25.0	63
MAR						SEP					
04...	1300	4660	.0	-2.0	--	12...	1330	5130	12.0	10.5	70
APR						17...	1120	8110	15.5	18.5	60
01...	0900	18000	1.0	1.5	65						
01038000 - SHEEPSCOT RIVER AT NORTH WHITEFIELD, ME (LAT 44 13 23 LONG 069 35 38)											
NOV , 1979						MAR , 1980					
01...	1405	206	7.5	13.0	51	27...	1400	594	2.5	6.5	43
DEC						JUN					
07...	1400	262	2.0	1.5	55	03...	1430	81	16.0	13.0	52
JAN , 1980						JUL					
07...	1100	198	.5	-2.0	58	01...	1140	44	19.5	17.0	57
FEB						30...	1100	70	24.0	25.0	65
05...	1005	65	.0	-8.0	41	SEP					
MAR						03...	1000	20	22.5	20.0	70
04...	1020	47	.0	.0	80						
01041000 - KENNEBEC RIVER AT MOOSEHEAD, ME (LAT 45 35 08 LONG 069 43 05)											
OCT , 1979						APR , 1980					
18...	0720	2770	9.5	7.5	31	01...	2025	268	3.0	.0	36
DEC						MAY					
05...	0940	2000	3.5	-2.0	39	15...	0945	241	9.5	14.0	29
JAN , 1980						JUL					
14...	1000	1760	.5	.0	37	02...	0815	626	15.0	16.5	31
FEB						SEP					
25...	1530	268	1.5	-3.5	36	17...	1615	1790	15.5	17.5	30

WATER QUALITY DATA, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

DATE	TIME	STREAM- FLOW, INSTAN- TANEOUS (CFS)	TEMPER- ATURE, WATER (DEG C)	TEMPER- ATURE, AIR (DEG C)	SPE- CIFIC CON- DUCT- ANCE (MICRO- MHOS)	DATE	TIME	STREAM- FLOW, INSTAN- TANEOUS (CFS)	TEMPER- ATURE, WATER (DEG C)	TEMPER- ATURE, AIR (DEG C)	SPE- CIFIC CON- DUCT- ANCE (MICRO- MHOS)
01042500 - KENNEBEC RIVER AT THE FORKS, ME (LAT 45 20 25 LONG 069 57 48)											
OCT , 1979						APR , 1980					
01...	1430	3250	15.0	17.0	29	22...	1130	549	6.5	7.0	33
30...	1230	5340	9.0	8.5	32	MAY					
NOV						15...	1630	2180	10.0	10.0	30
20...	1100	6370	4.5	3.0	33	JUN					
JAN , 1980						30...	1340	2980	17.0	22.0	35
10...	1100	6080	.0	-7.0	36	AUG					
FEB						18...	0930	1120	18.0	19.0	35
14...	1130	5060	.5	-4.0	34	SEP					
MAR						16...	0840	460	13.0	4.0	34
20...	1445	1760	1.0	5.0	40						
01043500 - DEAD RIVER NEAR DEAD RIVER, ME (LAT 45 13 48 LONG 070 11 58)											
OCT , 1979						MAR , 1980					
18...	1300	1270	7.0	4.5	35	20...	1200	.92	.5	6.0	90
DEC						MAY					
05...	1130	1.4	.0	1.0	42	13...	1130	1.8	13.5	21.0	40
JAN , 1980						AUG					
09...	1230	1150	1.5	-7.0	39	14...	1045	4.5	19.0	22.0	40
FEB						SEP					
13...	1430	869	3.0	-2.0	57	16...	1155	776	16.0	16.0	39
01046500 - KENNEBEC RIVER AT BINGHAM, ME (LAT 45 03 06 LONG 069 53 12)											
OCT , 1979						APR , 1980					
30...	1115	6050	11.0	9.5	36	22...	1300	1480	3.0	2.5	42
NOV						MAY					
20...	1015	6190	7.0	2.5	34	16...	0945	4180	9.0	13.0	34
JAN , 1980						JUN					
10...	0945	6320	1.0	-7.0	36	30...	1035	3690	15.0	17.0	36
FEB						AUG					
14...	1245	4680	1.0	-3.0	36	14...	1055	643	20.5	24.0	41
MAR						SEP					
20...	1345	711	1.0	5.0	48	16...	1055	4500	17.0	17.0	36
APR											
03...	1040	2460	2.0	8.0	52						
01047000 - CARRABASSETT RIVER NEAR NORTH ANSON, ME (LAT 44 52 09 LONG 069 57 20)											
OCT , 1979						MAR , 1980					
04...	1100	932	14.5	16.0	43	20...	1100	253	.0	3.0	72
18...	1030	393	7.0	8.5	38	MAY					
DEC						16...	1230	559	12.5	14.0	37
05...	1000	554	.0	-1.0	38	AUG					
JAN , 1980						14...	1345	266	21.0	20.0	40
09...	1115	125	.0	-2.5	38						
FEB											
13...	1245	80	.0	-2.0	62						
01047730 - WILSON STREAM AT EAST WILTON, ME (LAT 44 36 55 LONG 070 11 42)											
OCT , 1979						MAY , 1980					
17...	1045	45	7.5	4.5	51	16...	1600	60	15.0	13.0	48
JAN , 1980						JUN					
09...	1630	16	.0	-5.0	78	05...	1050	16	16.0	15.0	70
FEB						AUG					
13...	0930	14	.0	-3.0	75	13...	1440	8.9	23.0	26.5	72
MAR						SEP					
18...	0910	213	.0	5.0	180	11...	1135	5.2	17.0	21.0	89
APR											
22...	1530	116	7.0	5.0	48						
01049000 - SEBASTICOOK RIVER NEAR PITTSFIELD, ME (LAT 44 43 00 LONG 069 24 56)											
OCT , 1979						APR , 1980					
10...	0900	2030	10.0	2.5	146	23...	1200	1990	7.0	7.5	86
DEC						JUN					
18...	1100	590	.0	10.0	120	26...	0920	290	19.0	20.0	128
JAN , 1980						SEP					
29...	1500	135	.0	-3.0	150	18...	1200	356	17.5	21.0	130

MISCELLANEOUS TEMPERATURE AND SPECIFIC CONDUCTANCE DETERMINATIONS.--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

DATE	TIME	STREAM- FLOW, INSTAN- TANEOUS (CFS)	TEMPER- ATURE, WATER (DEG C)	TEMPER- ATURE, AIR (DEG C)	SPE- CIFIC CON- DUCT- ANCE (MICRO- MHOS)	DATE	TIME	STREAM- FLOW, INSTAN- TANEOUS (CFS)	TEMPER- ATURE, WATER (DEG C)	TEMPER- ATURE, AIR (DEG C)	SPE- CIFIC CON- DUCT- ANCE (MICRO- MHOS)
01049300 - NORTH BRANCH TANNING BROOK NEAR MANCHESTER, ME (LAT 44 21 00 LONG 069 51 07)											
OCT . 1979						MAR . 1980					
16...	1345	1.0	8.0	7.0	77	18...	0940	50	.0	6.0	35
DEC						JUN					
06...	1130	.92	2.0	10.0	86	09...	1100	.55	11.0	12.0	90
26...	1045	4.1	.0	4.5	65	27...	1345	.16	25.0	30.0	100
FEB . 1980						AUG					
05...	1500	.18	.0	-5.0	115	07...	1415	.13	27.0	28.5	105
MAR											
04...	1520	.14	.0	3.0	110						
01049373 - MILL STREAM AT WINTHROP, ME (LAT 44 18 24 LONG 069 58 18)											
OCT . 1979						MAR . 1980					
16...	1505	34	11.5	8.0	54	04...	1355	7.8	3.0	3.0	97
JAN . 1980						JUN					
08...	1400	34	3.0	.0	80	12...	1120	15	15.0	12.0	75
09...	0900	32	2.5	-4.0	64						
01049396 - JOCK STREAM AT SOUTH MONMOUTH, ME (LAT 44 11 04 LONG 069 59 48)											
NOV . 1979						JUN . 1980					
27...	1115	69	9.0	12.0	92	27...	1110	1.4	26.0	30.0	130
DEC						AUG					
06...	1040	14	1.0	8.5	108	08...	1110	.48	25.0	26.0	155
27...	1105	37	.0	2.0	91	SEP					
MAR . 1980						10...	1020	1.8	15.0	15.5	110
18...	1030	390	.0	9.0	40						
APR											
30...	1520	143	8.0	12.0	68						
01049500 - CORBOSSECONTEF STREAM AT GARDINER, ME (LAT 44 13 15 LONG 069 47 25)											
NOV . 1979						JUN . 1980					
05...	1400	1080	9.0	12.0	79	04...	1710	170	17.0	16.0	75
DEC						JUL					
06...	0945	451	2.5	4.5	82	01...	1345	47	22.0	20.0	77
FEB . 1980						30...	1645	33	27.0	30.0	90
04...	1030	182	1.5	-6.5	95	SEP					
MAR						02...	1700	34	26.5	30.0	80
05...	1015	67	2.5	1.5	105						
27...	1355	275	2.5	6.5	79						
01052500 - DIAMOND RIVER NEAR WENTWORTH LOCATION, NH (LAT 44 52 40 LONG 071 03 25)											
NOV . 1979						MAY . 1980					
01...	1130	196	3.0	10.0	36	22...	1345	317	13.5	24.5	40
FEB . 1980						JUL					
12...	1100	45	.0	-3.0	49	24...	1700	544	18.0	27.0	32
MAR						AUG					
19...	1200	57	.0	.0	55	27...	1100	63	19.5	22.0	42
APR											
25...	1115	1130	3.5	10.0	28						
01053500 - ANDROSCOGGIN RIVER AT ERROL, NH (LAT 44 46 57 LONG 071 07 46)											
NOV . 1979						APR . 1980					
01...	1000	1450	6.0	5.0	31	25...	1330	1300	6.0	11.0	30
JAN . 1980						MAY					
03...	1645	1710	.0	-10.0	23	22...	1000	1480	14.0	21.5	34
FEB						JUL					
12...	1130	1710	.5	-1.0	35	24...	1800	1280	20.0	18.0	34
MAR						AUG					
19...	1000	1330	1.0	.0	45	27...	0830	1420	20.0	21.0	32
01054000 - ANDROSCOGGIN RIVER NEAR GURHAM, NH (LAT 44 26 10 LONG 071 11 27)											
NOV . 1979						APR . 1980					
01...	0830	1680	6.0	1.0	85	25...	1445	1920	8.0	12.0	85
JAN . 1980						MAY					
04...	0815	1750	1.0	-13.0	80	21...	1830	1490	15.0	20.0	104
FEB						AUG					
11...	1715	1860	1.0	-3.0	101	26...	1800	1510	22.5	24.5	84
MAR											
19...	0900	1940	1.0	1.0	120						

WATER QUALITY DATA, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

DATE	TIME	STREAM- FLOW, INSTAN- TANEOUS (CFS)	TEMPER- ATURE, WATER (DEG C)	TEMPER- ATURE, AIR (DEG C)	SPE- CIFIC CON- DUCT- ANCE (MICRO- MHOS)	DATE	TIME	STREAM- FLOW, INSTAN- TANEOUS (CFS)	TEMPER- ATURE, WATER (DEG C)	TEMPER- ATURE, AIR (DEG C)	SPE- CIFIC CON- DUCT- ANCE (MICRO- MHOS)
01054300 - ELLIS RIVER AT SOUTH ANDOVER, ME (LAT 44 35 37 LONG 070 44 01)											
OCT , 1979						APR , 1980					
17...	1545	121	6.0	8.0	35	11...	1530	2040	3.0	8.0	25
JAN , 1980						MAY					
04...	1400	86	.0	-1.0	40	21...	1445	236	13.5	24.0	39
FEH						AUG					
11...	1430	25	.0	-1.5	49	21...	1400	34	17.5	17.0	50
MAR						26...	1425	17	29.0	20.5	50
18...	1710	32	.0	-1.0	55						
01054500 - ANDROSCOGGIN RIVER AT RUMFORD, ME (LAT 44 32 33 LONG 070 32 50)											
JUN , 1980						AUG , 1980					
03...	1130	2240	17.0	15.0	100	26...	1130	1810	25.5	27.0	135
JUL											
22...	1030	1790	26.5	25.5	122						
01055000 - SWIFT RIVER NEAR ROXBURY, ME (LAT 44 38 32 LONG 070 35 17)											
OCT , 1979						APR , 1980					
17...	1245	92	5.0	7.5	27	11...	1315	1200	2.0	10.0	22
JAN , 1980						JUN					
04...	1530	67	.0	-4.0	30	03...	1455	98	12.5	12.0	31
FEH						AUG					
11...	1210	16	.0	3.5	42	26...	1155	14	27.5	21.0	33
MAR											
18...	1300	43	.0	2.0	57						
01055500 - NFZINSCOT RIVER AT TURNER CENTER, ME (LAT 44 16 10 LONG 070 13 49)											
OCT , 1979						MAY , 1980					
17...	1245	247	6.0	8.0	54	02...	1550	556	9.5	13.5	75
NOV						29...	1150	84	17.5	17.5	65
05...	0955	769	7.5	6.5	52	JUN					
DEC						30...	1030	72	21.0	18.0	61
05...	1125	197	1.0	4.0	65	AUG					
JAN , 1980						04...	1400	70	26.0	28.0	57
02...	1400	146	.0	.0	70	14...	1210	27	21.5	21.5	63
MAR						SEP					
04...	1305	37	.0	1.0	105	02...	1100	25	25.0	28.0	85
APR											
05...	1310	48	.0	-5.0	102						
01057000 - LITTLE ANDROSCOGGIN RIVER NEAR SOUTH PARIS, ME (LAT 44 17 08 LONG 070 32 16)											
DEC , 1979						MAY , 1980					
27...	1100	189	.0	1.0	40	12...	1515	130	13.5	14.0	41
JAN , 1980						JUL					
20...	1100	25	.0	-2.0	58	30...	1245	34	22.0	24.0	55
FEH						AUG					
27...	1130	77	.0	-4.0	69	26...	1600	5.9	23.5	27.5	67
MAR						SEP					
17...	1530	27	.0	--	85	16...	1115	26	13.0	17.0	48
APR											
24...	1415	227	6.0	11.5	42						
01058500 - LITTLE ANDROSCOGGIN RIVER NEAR AUBURN, ME (LAT 44 03 49 LONG 070 16 28)											
OCT , 1979						JUN , 1980					
17...	1400	257	7.5	8.0	68	10...	1150	118	16.0	13.5	185
DEC						30...	1335	119	22.0	19.5	121
05...	1105	423	1.0	4.0	83	AUG					
JAN , 1980						12...	1330	84	22.5	17.0	155
14...	1000	273	.0	.0	160	SEP					
APR						29...	1015	165	13.0	7.0	94
17...	1340	2090	4.0	12.0	64						
MAY											
27...	1150	259	16.0	16.5	145						
01059000 - ANDROSCOGGIN RIVER NEAR AUBURN, ME (LAT 44 04 20 LONG 070 12 31)											
NOV , 1979						JUL , 1980					
24...	0950	3860	6.5	12.0	102	30...	1515	3260	25.5	25.0	156
JAN , 1980						AUG					
14...	0930	5010	.0	-1.0	152	18...	0935	2340	23.5	21.5	165
MAR						28...	1730	2210	23.0	24.0	190
06...	1345	2610	.0	4.0	220	SEP					
APR						14...	1330	973	18.5	20.5	375
17...	1415	16000	5.0	7.0	62	29...	1450	3640	7.5	15.0	150
JUN											
10...	1215	3050	17.5	12.5	158						
30...	1515	759	22.0	19.0	138						

WATER QUALITY DATA, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

DATE	TIME	STREAM- FLOW, INSTAN- TANEOUS (CFS)	TEMPER- ATURE, WATER (DEG C)	TEMPER- ATURE, AIR (DEG C)	SPE- CIFIC CON- DUCT- ANCE (MICRO- MHOS)	DATE	TIME	STREAM- FLOW, INSTAN- TANEOUS (CFS)	TEMPER- ATURE, WATER (DEG C)	TEMPER- ATURE, AIR (DEG C)	SPE- CIFIC CON- DUCT- ANCE (MICRO- MHOS)
01059800 - COLLYER BROOK NEAR GRAY, ME (LAT 43 55 03 LONG 070 19 02)											
NOV , 1979						MAY , 1980					
26...	1040	27	7.0	12.0	130	02...	1300	28	10.0	14.0	102
JAN , 1980						JUN					
14...	1150	18	.0	3.5	131	18...	1645	14	18.5	18.5	117
MAR						AUG					
06...	1120	12	1.5	5.0	170	15...	1245	10	15.0	23.0	140
01060000 - ROYAL RIVER AT YARMOUTH, ME (LAT 43 47 57 LONG 070 10 45)											
NOV , 1979						JUN , 1980					
26...	1310	195	7.0	12.0	145	18...	1510	49	21.5	18.5	108
MAR , 1980						AUG					
06...	0945	53	.0	2.0	145	18...	1100	30	21.5	19.5	120
APR						SEP					
11...	1055	4610	2.0	9.0	47	19...	1230	35	17.5	18.0	125
01064500 - SAGO RIVER NEAR CONWAY, NH (LAT 43 59 27 LONG 071 05 29)											
OCT , 1979						FEB , 1980					
29...	1430	770	6.0	8.0	34	27...	1430	249	.0	-8.0	55
NOV						MAY					
28...	1330	2360	5.5	8.0	28	12...	1800	1230	12.0	11.0	34
DEC						JUL					
27...	1400	1120	.0	5.0	31	23...	1600	188	23.0	23.0	50
JAN , 1980						AUG					
29...	1415	397	.0	-1.0	48	13...	1430	152	21.0	29.0	55
01065500 - OSSIPPE RIVER AT CORNISH, ME (LAT 43 48 26 LONG 070 47 55)											
JAN , 1980						APR , 1980					
15...	1200	521	.5	7.0	44	16...	1130	3600	4.5	9.5	28
FEB						MAY					
11...	1515	282	.0	10.0	46	29...	1200	516	17.5	22.0	36
MAR											
12...	1100	364	.0	-6.0	55						
01066500 - LITTLE OSSIPEF RIVER NEAR SOUTH LIMINGTON, ME (LAT 43 41 22 LONG 070 40 15)											
OCT , 1979						MAR , 1980					
31...	1615	205	9.5	7.0	42	12...	1400	250	.0	-6.0	65
DEC						APR					
18...	1300	199	.0	-4.0	58	16...	1315	721	7.0	9.5	32
JAN , 1980						AUG					
15...	1245	172	1.0	5.5	58	26...	1400	61	24.0	24.0	42
FEB											
11...	1615	68	.5	-1.0	64						
01069500 - MOUSAM RIVER NEAR WEST KENNEBUNK, ME (LAT 43 25 04 LONG 070 39 32)											
OCT , 1979						MAR , 1980					
31...	1315	157	10.0	9.0	70	12...	1530	179	2.0	-7.0	135
DEC						APR					
18...	1430	149	1.5	-4.0	84	16...	1530	568	6.5	8.5	48
JAN , 1980						JUL					
15...	1330	98	2.5	5.5	90	31...	1630	155	26.0	23.5	94
FEB						AUG					
14...	1430	12	2.5	2.5	95	29...	1345	18	23.0	23.0	90

ANDROSCOGGIN COUNTY

440438070261601. Local number, An 986.

LOCATION.--Lat 44°04'38", long 70°26'16", Hydrologic Unit 01040002, in gravel pit west of Winter Brook, 1.0 mi (1.6 km) west of intersection of State Highways 11 and 26, Poland.

Owner: U.S. Geological Survey.

AQUIFER.--Glacial sand and gravel (ice-contact deposits) of Pleistocene age.

WELL CHARACTERISTICS.--Drilled observation water-table well, diameter 6 in (0.15 m), depth 45 ft (13.7 m), screened 42 to 45 ft (12.8 to 13.7 m).

REMARKS.--Water quality records for the current year are published elsewhere in this report.

DATUM.--Altitude of land-surface datum is 310 ft (94 m). Measuring point: Top of casing at land-surface datum.

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

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 4.76 ft (1.45 m) below land-surface datum, Apr. 12, 1977; lowest measured, 7.95 ft (2.42 m) below land-surface datum, Nov. 29, 1978.

WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 11	7.09	DEC 27	6.93	MAR 27	7.09	MAY 12	6.20	JUL 17	7.21	AUG 13	7.45
29	7.06	JAN 29	7.15	APR 16	5.95	JUN 17	6.82	22	7.29	SEP 17	7.48
DEC 05	6.91	FEB 27	7.33	28	5.05						

440730070035304. Local number, An 988C.

LOCATION.--Lat 44°07'30", long 70°03'53", Hydrologic Unit 01040002, on Old Bowdoin Road, 0.6 mi (1.0 km) east of State Highway 126, in Sabattus.

Owner: U.S. Geological Survey.

AQUIFER.--Glacial sand and gravel (ice-contact deposits) of Pleistocene age.

WELL CHARACTERISTICS.--Wash-bored observation artesian well, diameter 1.5 in (0.04 m), depth 45 ft (13.7 m), screened 40 to 45 ft (12.2 to 13.7 m).

DATUM.--Altitude of land-surface datum is 200 ft (61 m). Measuring point: Top of pipe at land-surface datum

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

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 3.95 ft (1.20 m) below land-surface datum, May 29, 1979; lowest measured, 6.07 ft (1.85 m), below land-surface datum, Dec. 28, 1978.

WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
NOV 05	4.98	JAN 29	5.05	MAR 27	M	APR 30	5.04	JUN 27	5.23	AUG 29	6.19
28	4.60	FEB 27	M	APR 16	4.19	MAY 29	5.14	JUL 31	5.50	SEP 29	6.18
DEC 27	4.95										

M - Well frozen

AROOSTOOK COUNTY.--Continued

460855067552201. Local number, Ar 887.

LOCATION.--Lat 46°08'55", long 67°55'22", Hydrologic Unit 01010005, on Ludlow Road, 0.2 mi (0.3 km) east of intersection of Hemore Road, in Ludlow.

Owner: Charles Marshall.

AQUIFER.--Glacial till of Pleistocene age.

WELL CHARACTERISTICS.--Dug observation water-table well, diameter 20 in (0.51 m), depth 12.5 ft (3.8 m), cased with rock to 12.5 ft (3.8 m), open end.

DATUM.--Altitude of land-surface datum is 675 ft (206 m). Measuring point: Top of concrete curb at land-surface datum.

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

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 1.30 ft (0.40 m) below land-surface datum, May 26, 1976; lowest measured, 8.40 (2.56 m) below land-surface datum, Oct. 11, 1978.

WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 15	3.30	DEC 13	1.50	FEB 25	8.00	APR 24	2.55	JUN 23	6.30	AUG 14	4.10
24	3.10	24	4.40	MAR 13	7.60	MAY 15	2.60	JUL 13	2.90	23	5.00
NOV 13	2.80	JAN 24	4.80	21	6.10	24	4.00	25	3.30	SEP 12	5.20
23	1.70	FEB 14	7.30	APR 12	4.00						

471457068353001. Local number, Ar 890.

LOCATION.--Lat 47°14'57", long 68°35'30", Hydrologic Unit 01010003, at southeast edge of athletic field of University of Maine at Fort Kent, west of Pleasant Street, Fort Kent.

Owner: U.S. Geological Survey.

AQUIFER.--Glacial sand and gravel (ice-contact deposits) of Pleistocene age.

WELL CHARACTERISTICS.--Drilled observation artesian well, diameter 6 in (0.15 m), depth 50 ft (15.2 m), open end.

DATUM.--Altitude of land-surface datum is 530 ft (162 m). Measuring point: Floor of recorder shelter at land-surface datum.

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

EXTREMES FOR PERIOD OF RECORD.--Highest water level, 2.22 ft (0.68 m) below land-surface datum, May 1, 1979; lowest, 15.30 ft (4.66 m) below land-surface datum, Jan. 22, 1979.

DEPTH BELOW LAND SURFACE (WATER LEVEL) (FEET), WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	10.28	10.59	9.87	10.06	10.33	12.45	11.76	5.95	7.78	10.87	10.67	11.26
10	10.21	10.41	10.01	10.42	10.28	12.68	10.23	6.19	8.21	11.05	10.62	11.21
15	10.24	10.27	10.00	10.60	10.71	12.84	7.65	6.47	8.83	10.68	10.89	11.41
20	10.37	10.47	10.05	10.96	11.37	13.02	6.44	6.62	9.49	10.68	10.70	11.63
25	10.28	10.39	10.00	10.82	11.81	12.95	6.29	6.85	10.00	10.82	11.06	11.44
EOM	10.53	9.74	10.01	10.51	12.09	12.75	5.86	7.41	10.47	10.99	11.35	11.39
MEAN	10.30	10.36	9.95	10.54	10.95	12.77	8.53	6.51	8.93	10.84	10.87	11.39
MAX	10.53	10.59	10.05	10.97	12.09	13.03	12.67	7.41	10.47	11.10	11.35	11.65
MIN	10.14	9.74	9.79	10.01	10.27	12.19	5.86	5.83	7.44	10.55	10.53	11.18
WTR YR 1980	MEAN	10.16	HIGH	5.83	MAY 3	LOW	13.03	MAR 17				

GROUND-WATER LEVELS

AROOSTOOK COUNTY ---Continued

443642069344601. Local number, Ar 891.

LOCATION.--Lat 46°36'42", long 69°34'46", Hydrologic Unit 01010002, about 2.7 mi (4.34 km) west of village of Clayton Lake, T 11, R 14.

Owner: International Paper Co.

AQUIFER.--Seboomook Formation of Devonian age.

WELL CHARACTERISTICS.--Drilled observation artesian well, diameter 6 in (0.15 m), depth 83 ft (25.3 m), open hole.

DATUM.--Altitude of land-surface datum is 1,050 ft (320 m). Measuring point: Top of casing at land-surface datum.

PERIOD OF RECORD.--July 1978 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 9.30 ft (2.83 m) below land-surface datum, Mar. 29, 1979; lowest measured, 16.50 ft (5.03 m) below land-surface datum, Aug. 14, 1978.

DEPTH BELOW LAND SURFACE (WATER LEVEL) (FEET), WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	14.91	13.53	14.18	14.71	15.49	16.31	14.82	13.16	15.11	15.89	14.77	15.26
10	13.69	13.87	13.86	14.95	15.70	16.21	14.09	13.12	15.17	15.60	14.65	15.55
15	14.19	14.03	14.22	14.72	15.84	16.02	12.02	13.58	15.52	14.83	14.82	15.70
20	14.52	14.37	14.70	14.94	15.76	15.40	12.82	13.70	15.77	15.09	15.14	15.78
25	13.87	14.42	14.84	15.17	15.91	15.15	12.95	14.23	15.51	13.82	15.45	15.06
EOM	13.99	13.67	14.32	15.39	16.07	15.10	12.61	14.71	15.70	14.55	15.73	15.13
MEAN	14.28	14.00	14.28	14.90	15.74	15.77	13.29	13.68	15.38	15.05	15.03	15.40
MAX	14.91	14.61	14.90	15.39	16.07	16.32	15.08	14.71	15.77	15.89	15.73	15.79
MIN	13.47	13.34	13.76	14.43	15.40	15.08	11.27	12.61	14.81	13.82	14.53	14.95
WTR YR 1980	MEAN	14.73	HIGH	11.27	APR 16	LOW	16.32	MAR 7				

CUMBERLAND COUNTY

435453070013601. Local number, C 26.

LOCATION.--Lat 43°54'53", long 70°01'36", Hydrologic Unit 01060001, north of Durham Road, 0.7 mi (1.1 km) west of U.S. Highway 1, Brunswick.

Owner: Brunswick and Topsham Water District.

AQUIFER.--Stratified sand and gravel deposits of Pleistocene age.

WELL CHARACTERISTICS.--Drilled observation artesian well, diameter 12 in (0.30 m), depth 101 ft (30.8 m), screened 81 to 101 ft (24.7 to 30.8 m).

DATUM.--Altitude of land-surface datum is 139 ft (42.3 m). Measuring point: Base of water-level recorder at land-surface datum.

PERIOD OF RECORD.--April 1958 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level, 27.28 ft (8.31 m) below land-surface datum, Jan. 5, 1978; lowest, 35.41 ft (11.10 m) below land-surface datum, Feb. 10, 1966.

DEPTH BELOW LAND SURFACE (WATER LEVEL) (FEET), WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	30.16	29.55	29.51	29.74	30.14	30.51	30.75	30.30	30.38	30.70	31.06	31.37
10	29.98	29.42	29.61	29.86	30.17	30.58	30.74	30.28	30.42	30.78	31.11	31.41
15	29.77	29.41	29.70	29.87	30.26	30.64	30.43	30.26	30.45	30.83	31.15	31.46
20	29.65	29.45	29.77	29.89	30.32	30.68	30.40	30.25	30.54	30.89	31.21	31.52
25	29.63	29.49	29.66	29.94	30.40	30.70	30.39	30.21	30.60	30.95	31.26	31.55
EOM	29.74	29.50	29.70	30.04	30.47	30.75	30.34	30.31	30.64	31.01	31.31	31.57
MEAN	29.85	29.48	29.63	29.87	30.26	30.63	30.55	30.27	30.49	30.84	31.17	31.46
MAX	30.33	29.72	29.77	30.04	30.47	30.75	30.86	30.33	30.64	31.01	31.31	31.59
MIN	29.57	29.38	29.48	29.71	30.04	30.49	30.34	30.21	30.30	30.69	31.01	31.32
WTR YR 1980	MEAN	30.37	HIGH	29.38	NOV 17	LOW	31.59	SEP 29				

HANCOCK COUNTY

444950068220601. Local number, H 1.

LOCATION.--Lat 44°49'50", long 68°22'06", Hydrologic Unit 01050002, on State Highway 9, 0.25 mi (0.4 km) west of intersection with State Highway 181 in Amherst.

Owner: Norman Salisbury.

AQUIFER.--Glacial till of Pleistocene age.

WELL CHARACTERISTICS.--Dug observation water-table well, diameter 18 in (0.46 m), depth 14 ft (4.3 m), cased with rock to 14 ft (4.3 m), open end.

DATUM.--Altitude of land-surface datum is 330 ft (101 m). Measuring point: Top edge of hole in base of recorder shelter.

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

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 2.10 ft (0.64 m) below land-surface datum, May 29, 1961; lowest estimated, 17.8 ft (5.4 m) below land-surface datum Sept. 30, 1965. Well goes dry frequently.

DEPTH BELOW LAND SURFACE (WATER LEVEL) (FEET), WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	---	---	5.24	5.49	---	10.85	7.53	3.70	6.68	9.14	8.48	10.61
10	---	---	5.65	6.05	---	10.82	7.07	4.17	6.94	9.68	8.19	10.94
15	---	---	6.07	5.63	---	10.29	5.03	4.58	7.51	10.16	8.56	11.25
20	---	---	5.77	5.98	---	9.59	4.63	4.98	---	10.58	9.09	11.03
25	---	---	5.46	---	10.12	8.80	4.26	5.44	7.89	10.23	9.57	10.67
EOM	5.32	4.96	5.10	7.04	10.44	8.09	---	---	8.52	9.15	10.13	8.92
MEAN	6.82	5.00	5.47	5.75	10.13	9.85	5.73	4.65	7.37	9.89	8.92	10.64
MAX	9.06	5.37	6.07	7.04	10.44	10.85	8.05	6.05	8.52	10.76	10.13	11.26
MIN	5.20	4.64	4.97	5.17	9.78	8.09	4.20	3.56	6.45	8.68	8.19	8.92
WTR YR 1980	MEAN	7.69	HIGH	3.56	MAY 4	LOW	11.26	SEP 16				

KENNEBEC COUNTY

441849069442001. Local number, K 52.

LOCATION.--Lat 44°18'49", long 69°44'20", Hydrologic Unit 01030003, on Cony Road, 0.3 mi (0.5 km) south of State Highway 105, in Augusta.

Owner: Walter Panek.

AQUIFER.--Glacial till of Pleistocene age.

WELL CHARACTERISTICS.--Dug observation water-table well, diameter 36 in (0.91 m), depth 22 ft (6.7 m), cased with rock to 22 ft (6.7 m), open end.

DATUM.--Altitude of land-surface datum is 220 ft (67 m). Measuring point: Top of floor of shelter house at land-surface datum.

REMARKS.--Water-quality records for the current year are published elsewhere in this report.

PERIOD OF RECORD.--December 1960 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level, 3.42 ft (1.04 m) below land-surface datum, Mar. 28, 1975; lowest, 15.68 ft (4.78 m) below land-surface datum, Nov. 30, 1978.

WATER LEVEL, IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	8.09	4.26	5.13	5.57	7.49	---	6.62	4.63	6.72	7.97	9.50	---
10	4.09	4.34	5.39	6.07	7.77	---	5.50	4.25	6.99	8.22	9.75	---
15	4.30	4.61	5.72	6.42	8.07	---	4.07	4.87	6.22	8.49	10.02	---
20	4.71	4.95	5.75	6.75	8.37	---	4.48	5.31	7.67	8.80	10.32	---
25	4.95	5.14	4.97	7.07	8.65	8.03	4.20	5.82	---	9.09	10.67	---
EOM	4.84	4.50	4.88	7.15	8.89	7.88	3.82	6.37	7.75	9.31	10.92	13.04

KENNEBEC COUNTY

442023069553801. Local number, K 88.

LOCATION.--Lat 44°20'23", long 69°55'38", Hydrologic Unit 01030003, on State Highway 135, 1.4 mi (2.3 km) north of U.S. Highway 202, in East Winthrop.

Owner: A. Allen Stackpole.

AQUIFER.--Bedrock of Silurian age.

WELL CHARACTERISTICS.--Drilled observation artesian well, diameter 6 in (0.15 m), depth 298 ft (90.8 m), open hole.

DATUM.--Altitude of land-surface datum is 350 ft (107 m). Measuring point: Top of pipe at land-surface datum.

PERIOD OF RECORD.--April 1962 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 28.79 ft (8.78 m) below land-surface datum, May 31, 1978; lowest measured, 72.91 ft (22.22 m) below land-surface datum, Oct. 30, 1978.

WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
NOV 05	50.45	DEC 27	48.52	FEB 29	56.13	APR 28	46.05	JUN 27	61.60	AUG 29	58.05
28	46.98	JAN 29	51.04	MAR 26	57.06	MAY 30	57.00	JUL 31	54.18	SEP 29	61.08

440918069564001. Local number, K 766.

LOCATION.--Lat 44°09'18", long 69°56'40", Hydrologic Unit 01030003, in Litchfield, 300 ft (91 m) east of town office.

Owner: U.S. Geological Survey.

AQUIFER.--Glacial sand and gravel (ice-contact deposits) of Pleistocene age.

WELL CHARACTERISTICS.--Drilled observation water-table well, diameter 6 in (0.15 m), depth 65 ft (19.8 m), cased to 62 ft (18.9 m), open end.

DATUM.--Altitude of land-surface datum is 300 ft (91 m). Measuring point: Floor of recorder shelter at land-surface datum.

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

EXTREMES FOR PERIOD OF RECORD.--Highest water level, 39.68 ft (12.09 m) below land-surface datum, Apr. 28, 1979; lowest, 49.66 ft (15.13 m) below land-surface datum, Sept. 30, 1980.

DEPTH BELOW LAND SURFACE (WATER LEVEL) (FEET), WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	46.13	45.36	45.80	46.30	47.13	48.01	46.79	44.88	45.75	46.73	47.86	48.92
10	45.95	45.58	45.92	46.42	47.28	48.16	46.73	44.90	45.98	46.97	48.05	49.11
15	45.95	45.58	46.06	46.51	47.45	48.01	45.39	45.15	46.12	47.15	48.22	49.28
20	45.95	45.70	46.15	46.69	47.59	45.82	45.53	45.27	46.33	47.34	48.40	49.43
25	46.05	45.77	46.24	46.79	47.72	46.16	45.71	45.46	46.41	47.52	48.58	49.58
EOM	46.12	45.71	46.17	46.96	47.85	46.68	44.74	45.62	46.64	47.72	48.79	49.66
MEAN	46.06	45.67	46.01	46.57	47.43	47.25	45.87	45.13	46.14	47.18	48.26	49.27
MAX	46.40	46.14	46.24	46.96	47.85	48.10	46.87	45.62	46.64	47.72	48.79	49.66
MIN	45.95	45.36	45.74	46.20	47.00	45.82	44.70	44.10	45.66	46.69	47.75	48.81
WTR YR 1980	MEAN	46.73	HIGH	44.10	MAY 1	LOW	49.66	SEP 30				

KENNEBEC COUNTY.--Continued

440810069553601. Local number, K 872A.

LOCATION.--Lat 44°08'10", long 69°55'36", Hydrologic Unit 01030003, on Small Road, 0.25 mi (0.40 km) north of State Highway 197, Litchfield.

Owner: Stephen Condon.

AQUIFER.--Bedrock of Devonian age.

WELL CHARACTERISTICS.--Drilled observation artesian well, diameter 6 in (0.15 m), depth 404 ft (123.1 m), cased to bedrock, open end.

DATUM.--Altitude of land-surface datum is 220 ft (67 m). Measuring point: Top of casing at land-surface datum.

PERIOD OF RECORD.--November 1978 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level, 6.55 ft (2.0 m) below land-surface datum, Mar. 8, 1979; lowest, 19.09 ft (5.82 m) below land-surface datum, Sept. 29, 1980.

DEPTH BELOW LAND SURFACE (WATER LEVEL) (FEET), WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	9.92	8.74	10.37	10.85	12.64	13.63	9.13	9.50	11.76	13.18	---	---
10	8.99	9.52	10.60	11.56	12.85	13.57	7.89	8.97	12.10	13.56	---	---
15	9.60	9.90	10.88	11.56	13.10	11.97	8.37	10.08	12.52	13.88	---	---
20	10.30	10.37	11.01	11.73	13.30	8.98	9.10	10.46	12.87	14.81	---	---
25	10.25	10.37	10.61	12.11	13.40	9.26	9.34	11.00	12.52	15.75	---	---
DOM	---	9.81	9.99	12.31	13.47	9.45	7.49	11.66	13.05	16.26	17.89	19.09
MEAN	10.03	9.83	10.45	13.04	13.03	11.34	8.94	10.13	12.36	14.43	---	---
MAX	13.05	10.37	11.24	46.89	13.47	13.72	9.71	11.66	13.05	16.26	---	---
MIN	8.62	8.74	9.38	10.15	12.34	8.64	7.19	8.08	11.70	13.11	---	---
WTR YR 1980 MEAN	11.40		HIGH	7.19 APR 11		LOW	46.89 JAN 28					

OXFORD COUNTY

444637070552301. Local number, O 400.

LOCATION.--Lat 44°46'37", long 70°55'23", Hydrologic Unit 01040001, at Middle Dam, Lower Richardson Lake.

Owner: Union Water Power Co.

AQUIFER.--Glacial till of Pleistocene age.

WELL CHARACTERISTICS.--Dug observation water-table well, diameter 24 in (0.61 m), depth 15 ft (4.6 m), cased with concrete pipe to 15 ft (4.6 m), open end.

DATUM.--Altitude of land-surface datum is 1,450 ft (442 m). Measuring point: Top of casing, 2.0 ft (0.61 m) above land-surface datum.

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

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 0.4 ft (0.12 m) below land-surface datum, Apr. 11, 1976; lowest measured, 12.2 ft (3.7 m) below land-surface datum, Oct. 9, 16, 23, 1966.

WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 07	11.6	DEC 16	6.5	FEB 17	9.0	APR 20	9.4	JUN 15	6.2	AUG 10	8.3
14	11.6	23	6.4	24	9.5	27	8.3	22	6.9	17	7.8
21	11.4	30	5.8	MAR 02	10.2	MAY 04	5.6	29	7.2	24	7.8
28	11.0	JAN 06	6.2	09	10.6	11	3.3	JUL 06	7.3	31	8.4
NOV 04	10.3	13	6.9	16	11.1	18	3.8	13	7.6	SEP 07	8.3
11	10.3	20	6.8	23	11.3	25	4.1	20	7.9	14	8.2
17	8.3	27	7.4	30	11.4	JUN 01	5.0	27	8.3	21	8.5
25	8.2	FEB 03	7.8	APR 06	11.3	08	5.3	AUG 03	8.0	28	8.5
DEC 02	7.3	10	8.5	13	10.8						

OXFORD COUNTY.--Continued

440642070583401. Local number, O 615.

LOCATION.--Lat 44°06'42", long 70°58'34", Hydrologic Unit 01060002, at intersection of State Highways 5 and 113, Fryeburg.

Owner: U.S. Geological Survey.

AQUIFER.--Glacial sand and gravel (outwash) of Pleistocene age.

WELL CHARACTERISTICS.--Wash-bored observation water-table well, diameter 1.5 in (0.04 m), depth 43 ft (13.1 m), screened 38 to 43 ft (11.6 to 13.1 m).

DATUM.--Altitude of land-surface datum is 390 ft (119 m). Measuring point: Top of casing at land-surface datum.

PERIOD OF RECORD.--August 1978 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 4.90 ft (1.49 m) below land-surface datum, Apr. 17, 1979; lowest measured, 11.58 ft (3.53 m) below land-surface datum, Oct. 1, 1978.

WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 09	8.60	DEC 29	8.40	FEB 29	10.28	APR 20	5.90	JUN 16	10.10	AUG 26	10.60
NOV 03	8.20	JAN 27	9.40	MAR 15	10.45	MAY 20	7.55	JUL 09	9.80	SEP 18	10.70
DEC 05	8.10	FEB 17	10.10	APR 06	8.35	JUN 04	8.70	31	10.40		

442515070481001. Local number, O 616.

LOCATION.--Lat 44°25'15", long 70°48'10", Hydrologic Unit 01040002, at Bethel Airport, Bethel.

Owner: U.S. Geological Survey.

AQUIFER.--Glacial sand and gravel (outwash) of Pleistocene age.

WELL CHARACTERISTICS.--Wash-bored observation water-table well, diameter 1.5 in (0.04 m), depth 24 ft (7.3 m), screened 19 to 24 ft (5.8 to 7.3 m).

DATUM.--Altitude of land-surface datum is 650 ft (198 m). Measuring point: Top of casing at land-surface datum.

PERIOD OF RECORD.--August 1978 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 7.40 ft (2.26 m) below land-surface datum, May 15, 29, 1979; lowest measured, 12.60 ft (3.84 m) below land-surface datum, Nov. 16, 1978.

WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
NOV 15	11.00	JAN 28	10.90	APR 24	9.88	MAY 30	9.92	JUL 30	11.10	SEP 18	10.46
27	11.20	FEB 15	10.80	28	10.00	JUN 15	9.25	AUG 14	11.20	29	11.90
DEC 19	11.00	28	11.20	MAY 15	10.00	30	10.60	28	11.60		
JAN 16	10.50	APR 15	10.25	28	10.00	JUL 15	10.82	SEP 15	11.80		

OXFORD COUNTY.--Continued

440823070291501. Local number, O 1214.

LOCATION.--Lat 44°08'23", long 70°29'15", Hydrologic Unit 01040002, on State Highway 121, about 0.1 mi (.16 km) east of intersection with Skeetfield Road, in Oxford.

Owner: U.S. Geological Survey.

AQUIFER.--Stratified sand (outwash) of Pleistocene age.

WELL CHARACTERISTICS.--Drilled observation water-table well, diameter 6 in (0.15 m), depth 40 ft (12.2 m), cased with 6 in (0.15 m) steel to 36 ft (11.0 m), 4 ft (1.22 m) stainless steel screen.

DATUM.--Altitude of measuring-point datum is 333.95 ft (101.8 m). Measuring point: mark on electric tape gage.

REMARKS.--Test hole adjacent to this well shows a depth to bedrock of 174 ft (53.03 m).

PERIOD OF RECORD.--September 1980.

EXTREMES FOR PERIOD OF RECORD.--Highest water level, 9.94 ft (3.03 m) below measuring-point datum, Sept. 27, 1980; lowest, 9.98 ft (3.04 m) below measuring-point datum, Sept. 25, 1980.

DEPTH RELOW LAND SURFACE (WATER LEVEL) (FEET), WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5												
10												
15												
20												
25												9.98
EOM												9.96
MEAN												9.96
MAX												9.98
MIN												9.95

PENOBSCOT COUNTY

451047068512201. Local number, Pe 455.

LOCATION.--Lat 45°10'47", long 68°51'22", Hydrologic Unit 01020005, on Medford Road, about 0.25 mi (0.4 km) north of intersection of State Highway 16, Lagrange.

Owner: Mrs. E. Velna Cowing.

AQUIFER.--Glacial till of Pleistocene age.

WELL CHARACTERISTICS.--Dug domestic and observation water-table well, diameter 36 in (0.91 m), depth 24.2 ft (7.4 m), cased with rock to 24.2 ft (7.4 m), open end.

DATUM.--Altitude of land-surface datum is 410 ft (125 m). Measuring point: Painted nail in north side of windlass housing at land-surface datum.

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

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 2.55 ft (0.95 m) below land-surface datum, Mar. 15, 1979; lowest measured, 15.78 ft (4.60 m) below land-surface datum, Oct. 15, 1978.

WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 15	4.42	DEC 15	6.01	FEB 15	9.80	APR 15	3.43	JUN 15	8.12	AUG 15	8.75
30	5.25	29	4.55	29	10.90	29	3.07	29	9.14	29	9.98
NOV 15	4.20	JAN 15	6.45	MAR 15	11.66	MAY 15	4.73	JUL 15	10.03	SEP 15	10.38
29	5.23	29	8.12	30	8.47	29	6.74	30	9.78	29	9.35

PENOBSCOT COUNTY.--Continued

445319068560101. Local number, Pe 456.

LOCATION.--Lat 44°53'19", long 68°56'01", Hydrologic Unit 01020005, on Kenduskeag-Levant Road, 2.5 mi (4.02 km) south of Kenduskeag, near Kenduskeag-Levant town line, Kenduskeag.

Owner: Clarence W. Parker, Jr.

AQUIFER.--Bedrock of Silurian age.

WELL CHARACTERISTICS.--Drilled observation artesian well, diameter 6 in (0.15 m), depth 101 ft (30.8 m), open hole.

DATUM.--Altitude of land-surface datum is 190 ft (57.9 m). Measuring point: Floor of fiberglass shelter at land-surface datum.

PERIOD OF RECORD.--April 1978 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level, 17.49 ft (5.33 m) below land-surface datum, Apr. 30, 1979; lowest, 26.33 ft (8.03 m) below land-surface datum, Nov. 16, 1978.

DEPTH BELOW LAND SURFACE (WATER LEVEL) (FEET), WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	22.83	19.05	20.51	21.32	22.65	24.00	---	---	---	23.27	24.03	24.14
10	21.11	19.17	20.81	21.68	22.88	24.19	---	---	---	23.52	23.81	24.28
15	20.61	19.42	21.14	21.70	23.12	24.34	---	---	---	23.75	23.62	24.42
20	20.64	19.89	21.37	21.87	23.36	24.17	---	---	---	23.97	23.66	24.51
25	20.84	20.18	21.47	22.10	23.58	23.35	---	---	---	23.98	23.78	24.64
EOM	20.96	20.23	21.09	22.38	23.80	22.86	22.62	22.73	23.01	24.08	23.99	24.59
MEAN	21.34	19.76	20.98	21.77	23.12	23.86	---	---	22.91	23.72	23.82	24.39
MAX	23.28	20.94	21.51	22.38	23.80	24.38	---	---	23.01	24.13	24.04	24.65
MIN	20.60	19.05	20.32	21.12	22.42	22.86	---	---	22.82	23.07	23.61	24.02
WTR YR 1980 MEAN	22.53		HIGH	19.05	NOV 5 AND OTHERS		LOW	24.65	SEP 26			

SOMERSET COUNTY

444219069545801. Local number, Sm 1.

LOCATION.--Lat 44°42'19", long 69°54'58", Hydrologic Unit 01030003, on dirt road, 2.25 mi (3.62 km) north of village of Mercer.

Owner: J. Harrison Farrand.

AQUIFER.--Eolian deposits of late Pleistocene age.

WELL CHARACTERISTICS.--Dug observation water-table well, diameter 60 in (1.52 m), depth 14 ft (4.3 m), cased with rock to 14 ft (4.3 m), open end.

DATUM.--Altitude of land-surface datum is 270 ft (82 m). Measuring point: Nail in top of horizontal timber at northeast corner of well cover, 0.4 ft (0.1 m) above land-surface datum.

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

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 3.21 ft (0.98 m) below land-surface datum, Mar. 25, 1979; lowest estimated, 14.1 ft (4.3 m) below land-surface datum, Nov. 30, 1952.

WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 11	9.42	DEC 10	6.24	FEB 11	7.35	APR 13	4.63	MAY 25	5.18	JUL 26	7.57
25	8.21	25	5.88	25	7.67	22	4.44	JUN 10	4.52	AUG 10	7.97
NOV 11	5.40	JAN 10	M	MAR 10	8.17	25	4.23	26	5.95	25	8.68
25	5.57	26	6.49	25	7.02	MAY 11	4.51	JUL 10	6.82	SEP 10	9.30
										26	10.60

M - Well frozen

WASHINGTON COUNTY

444240067283501. Local number, W 1.

LOCATION.--Lat 44°42'40", long 67°28'35", Hydrologic Unit 01050002, at barn southeast of race track at former fairgrounds on U.S. Highway 1A, 1.0 mi (1.6 km) west of village of Machias.

Owner: Julian A. Johnson.

AQUIFER.--Bedrock of Silurian age.

WELL CHARACTERISTICS.--Drilled artesian stock and observation well, diameter 6 in (0.15 m), depth 54 ft (16.5 m), open hole.

DATUM.--Altitude of land-surface datum is 140 ft (43 m). Measuring point: Top of casing at land-surface datum.

REMARKS.--Water-quality records for the current water year are published elsewhere in this report.

PERIOD OF RECORD.--July 1958 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 5.29 ft (1.61 m) below land-surface datum, Apr. 16, 1961; lowest measured, 14.80 ft (4.51 m) below land-surface datum, Oct. 31, 1977.

WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 02	9.35	NOV 30	11.66	JAN 29	10.69	MAR 31	11.03	JUN 16	10.81	AUG 18	11.04
16	8.53	DEC 17	9.61	FEB 18	11.57	APR 17	8.44	JUL 01	10.94	31	11.44
31	11.68	31	9.01	MAR 03	12.32	MAY 14	9.24	16	12.19	SEP 16	11.67
Nov 15	12.38B	JAN 19	10.77	16	11.14	JUN 01	10.61	31	10.88	30	11.60
15	9.18										

B - Well pumped recently

444955067000501. Local number, W 2.

LOCATION.--Lat 44°49'55", long 67°00'05", Hydrologic Unit 01050002, on Maple Tree Road, 1.0 mi (1.6 km) south of State Highway 189, Lubec.

Owner: Lubec Water and Light District.

AQUIFER.--Stratified sand and gravel (end moraine) of Pleistocene age.

WELL CHARACTERISTICS.--Driven artesian observation well, diameter 2.5 in (0.06 m), depth 52 ft (15.8 m), screened 42 to 52 ft (12.8 to 15.8 m).

DATUM.--Altitude of land-surface datum is 50 ft (15 m). Measuring point: Top of casing at land-surface datum.

PERIOD OF RECORD.--July 1958 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 9.31 ft (2.84 m) below land-surface datum, June 14, 1960; lowest measured, 22.30 ft (6.80 m) below land-surface datum, Sept. 30, 1978.

WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 25	16.05	DEC 26	15.97	FEB 26	16.39	APR 25	16.32	JUN 28	16.65	AUG 26	17.08
NOV 26	15.99	JAN 26	15.99	MAR 28	15.80	MAY 25	16.37	JUL 25	16.77	SEP 27	17.88

GROUND-WATER LEVELS

WASHINGTON COUNTY.--Continued

450713067162801. Local number, W 796.

LOCATION.--Lat 45°07'13", long 67°16'28", Hydrologic Unit 01050002, in Calais, on Charlotte Road, about 2.25 mi south of U.S. Highway 1.

Owner: U.S. Government (Moosehorn National Wildlife Refuge).

AQUIFER.--Bedrock of Devonian age.

WELL CHARACTERISTICS.--Drilled observation artesian well, diameter 6 in (0.15 m), depth 150 ft (45.7 m), cased with steel to 28 ft (8.5 m).

DATUM.--Altitude of land-surface datum is about 130 ft (39.6 m). Measuring point: Top of casing at land-surface datum.

PERIOD OF RECORD.--September 1980.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 4.65 ft (1.42 m) below land-surface datum, Sept. 26, 1980; lowest measured, 5.45 ft (1.63 m) below land-surface datum, Sept. 16, 1980.

WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
SEP 03	5.23										
16	5.34										
26	4.65										

YORK COUNTY

434822070482501. Local number, Y 1.

LOCATION.--Lat 43°48'22", long 70°48'25", Hydrologic Unit 01060002, on Main Street, about 0.2 mi (0.3 km) east of intersection of State Highways 25 and 5 in Cornish.

Owner: James P. Small.

AQUIFER.--Stratified sand and gravel (outwash) of Pleistocene age.

WELL CHARACTERISTICS.--Dug observation water-table well, diameter 36 in (0.91 m), depth 24 ft (7.3 m), cased with brick to 24 ft (7.3 m), open end.

DATUM.--Altitude of land-surface datum is 370 ft (113 m). Measuring point: Mark chiseled on top of concrete curb at land-surface datum.

REMARKS.--Water-quality records for the current water year are published elsewhere in this report.

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

EXTREMES FOR PERIOD OF RECORD.--Highest water level, 7.17 ft (2.19 m) below land-surface datum, Mar. 16, 1977; lowest, 20.02 ft (6.10 m) below land-surface datum, Dec. 31, 1978.

WATER LEVEL, IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	---	---	---	10.85	13.10	14.93	10.93	9.11	11.35	---	12.95	14.85
10	---	---	11.13	11.06	13.52	15.08	10.60	9.28	11.80	---	12.88	14.20
15	---	---	11.44	11.35	13.87	---	8.75	9.45	12.15	---	13.06	14.10
20	---	---	11.80	11.66	14.20	---	8.98	9.74	---	---	13.51	14.40
25	9.82	10.55	11.76	12.16	14.65	12.20	9.12	10.30	12.70	13.01	14.17	14.65
EOM	---	---	10.95	12.82	14.78	10.63	9.49	10.56	---	13.26	14.58	14.84

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

STATION	NUMBER	GEO- LOGIC UNIT	SAMP- LING DEPTH (FT)	DATE OF SAMPLE	SPF- CIFIC CON- DUCT- ANCE (MICRO- MHOS)	PH FIELD (UNITS)	TEMPER- ATURE, WATER (DEG C)	HARD- NESS (MG/L AS CACO3)	HARD- NESS, NONCAR- BONATE (MG/L CACO3)	CALCIUM DIS- SOLVED (MG/L AS CA)	MAGNE- SIUM, DIS- SOLVED (MG/L AS MG)	SODIUM, DIS- SOLVED (MG/L AS NA)
ANDROSCOGGIN COUNTY												
440438070261601	112ICCC		45.0	80-04-28	55	5.7	7.0	33	0	10	2.0	13
KENNEBEC COUNTY												
441849069442001	112TILL		22.0	80-04-29	230	5.7	6.5	15	0	5.2	.4	2.0
OXFORD COUNTY												
440702070270301	1120TSH		32.0	80-04-28	48	5.1	5.0	16	0	4.8	.9	1.9
440800070291501	112ICCC		83.0	80-04-28	150	6.2	8.0	48	23	15	2.5	8.0
441137070312501	112ICCC		82.0	80-04-28	178	6.2	9.0	50	30	13	4.3	14
441350070304201	112ICCC		48.0	80-08-06	143	5.3	6.5	36	11	12	1.4	12
441459070310501	1120TSH		53.0	80-07-08	130	5.6	6.5	48	6	17	1.4	3.8
441500070310501	1120TSH		60.0	80-04-28	90	5.3	6.5	130	38	42	5.5	7.8
SOMERSET COUNTY												
444219069545801	111EOLN		14.0	80-04-22	87	5.2	2.0	30	0	9.4	1.7	1.8
WALDO COUNTY												
442522069260001	300BDRK		125	80-05-02	326	7.4	--	29	11	10	.9	3.8
WASHINGTON COUNTY												
444240067283501	300BDRK		71.0	80-05-02	200	6.5	6.0	86	0	31	2.2	5.4
YORK COUNTY												
434822070482501	1120TSH		24.0	80-05-29	265	6.6	7.5	68	28	24	2.0	18
STATION	NUMBER	DATE OF SAMPLE	POTAS- SIUM, DIS- SOLVED (MG/L AS K)	ALKA- LINITY (MG/L AS CACO3)	SULFATE DIS- SOLVED (MG/L AS SO4)	CHLO- RIDE, DIS- SOLVED (MG/L AS CL)	FLUO- RIDE, DIS- SOLVED (MG/L AS F)	SILICA, DIS- SOLVED (MG/L AS SiO2)	SOLIDS, RESIDUE AT 180 DEG. C DIS- SOLVED (MG/L)	SOLIDS, SUM OF CONSTI- TUENTS, DIS- SOLVED (MG/L)	NITRO- GEN, NO2+NO3 TOTAL (MG/L AS N)	PHOS- PHORUS, TOTAL (MG/L AS P)
ANDROSCOGGIN COUNTY.--Continued												
440438070261601	80-04-28		1.5	41	9.3	5.2	.4	11	84	77	.46	.010
KENNEBEC COUNTY.--Continued												
441849069442001	80-04-29		.4	15	.6	1.7	.1	6.6	28	26	.03	.000
OXFORD COUNTY.--Continued												
440702070270301	80-04-28		.6	18	2.9	1.0	.1	12	38	35	.03	.000
440800070291501	80-04-28		1.5	25	8.8	17	.1	12	104	80	1.5	.010
441137070312501	80-04-28		1.6	20	12	34	.1	8.6	140	100	.32	.030
441350070304201	80-08-06		1.8	25	7.0	20	.1	8.9	97	78	1.5	.060
441459070310501	80-07-08		1.0	42	8.2	6.3	.1	8.8	77	72	.18	.010
441500070310501	80-04-28		3.6	90	21	20	.2	14	202	168	.63	.000
SOMERSET COUNTY.--Continued												
444219069545801	80-04-22		2.5	30	8.5	1.9	.0	5.7	62	50	.30	.080
WALDO COUNTY.--Continued												
442522069260001	80-05-02		.9	18	7.6	7.6	.1	7.8	62	50	.20	.000
WASHINGTON COUNTY.--Continued												
444240067283501	80-05-02		2.0	89	6.0	3.8	.1	13	123	118	.08	.000
YORK COUNTY.--Continued												
434822070482501	80-05-29		8.7	40	13	13	.0	8.4	202	111	.82	.030

QUALITY OF GROUND WATER

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

STATION	NUMBER	DATE OF SAMPLE	PHOS- PHORUS, TOTAL (MG/L AS P04)	ARSENIC TOTAL (UG/L AS AS)	CADMIUM TOTAL RECOV- ERABLE (UG/L AS CD)	CHRO- MIUM, TOTAL RECOV- ERABLE (UG/L AS CR)	COBALT, TOTAL RECOV- ERABLE (UG/L AS CO)	COPPER, TOTAL RECOV- ERABLE (UG/L AS CU)	IRON, SUS- PENDE RECOV- ERABLE (UG/L AS FE)	IRON, TOTAL RECOV- ERABLE (UG/L AS FE)	IRON, DIS- SOLVED (UG/L AS FE)	LEAD, TOTAL RECOV- ERABLE (UG/L AS PB)
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ANDROSCOGGIN COUNTY.--Continued

440438070261601	80-04-28	.03	1	0	10	0	2	20	30	10	3
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KENNEBEC COUNTY.--Continued

441849069442001	80-04-29	.00	--	--	--	--	--	240	250	10	--
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OXFORD COUNTY.--Continued

440702070270301	80-04-28	.00	1	0	10	0	1	160	320	160	2
440800070291501	80-04-28	.03	1	0	10	0	0	50	90	40	3
441137070312501	80-04-28	.09	--	0	10	0	30	300	320	20	10
441350070304201	80-08-06	.18	1	0	10	0	1	80	100	20	3
441459070310501	80-07-08	.03	0	0	10	0	1	30	70	40	1
441500070310501	80-04-28	.00	--	0	10	0	21	270	280	10	1

SOMERSET COUNTY.--Continued

444219069545801	80-04-22	.25	--	--	--	--	--	290	430	140	--
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WALDO COUNTY.--Continued

442522069260001	80-05-02	.00	--	--	--	--	--	70	140	70	--
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WASHINGTON COUNTY.--Continued

444240067283501	80-05-02	.00	--	--	--	--	--	6800	7800	980	--
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YORK COUNTY.--Continued

434822070482501	80-05-29	.09	--	--	--	--	--	50	60	10	--
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STATION	NUMBER	DATE OF SAMPLE	MANGA- NESE, SUS- PENDE RECOV. (UG/L AS MN)	MANGA- NESE, TOTAL RECOV- ERABLE (UG/L AS MN)	MANGA- NESE, DIS- SOLVED (UG/L AS MN)	MERCURY TOTAL RECOV- ERABLE (UG/L AS HG)	SELE- NIUM, TOTAL (UG/L AS SE)	ZINC, TOTAL RECOV- ERABLE (UG/L AS ZN)	CARBON, ORGANIC TOTAL (MG/L AS C)
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ANDROSCOGGIN COUNTY.--Continued

440438070261601	80-04-28		0	10	10	<.1	0	0	1.3
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KENNEBEC COUNTY.--Continued

441849069442001	80-04-29		0	10	10	--	--	--	5.9
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OXFORD COUNTY.--Continued

440702070270301	80-04-28		0	20	20	<.1	0	10	.6
440800070291501	80-04-28		0	10	10	<.1	0	0	3.8
441137070312501	80-04-28		5	10	5	--	--	60	1.9
441350070304201	80-08-06		7	10	3	.2	0	10	1.0
441459070310501	80-07-08		2	10	8	.1	0	10	3.4
441500070310501	80-04-28		3	10	7	--	--	30	1.9

SOMERSET COUNTY.--Continued

444219069545801	80-04-22		10	20	8	--	--	--	4.0
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WALDO COUNTY.--Continued

442522069260001	80-05-02		0	0	6	--	--	--	4.2
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WASHINGTON COUNTY.--Continued

444240067283501	80-05-02		--	--	50	--	--	--	1.1
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YORK COUNTY.--Continued

434822070482501	80-05-29		0	0	1	--	--	--	.8
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FACTORS FOR CONVERTING INCH-POUND UNITS TO INTERNATIONAL SYSTEM UNITS (SI)

The following factors may be used to convert the inch-pound units published herein to the International System of Units (SI). This report contains both the inch-pound and SI unit equivalents in the station manuscript descriptions.

Multiply inch-pound units	By	To obtain SI units
<i>Length</i>		
inches (in)	2.54×10^1	millimeters (mm)
	2.54×10^{-2}	meters (m)
feet (ft)	3.048×10^{-1}	meters (m)
miles (mi)	1.609×10^0	kilometers (km)
<i>Area</i>		
acres	4.047×10^3	square meters (m ²)
	4.047×10^{-1}	square hectometers (hm ²)
	4.047×10^{-3}	square kilometers (km ²)
square miles (mi ²)	2.590×10^0	square kilometers (km ²)
<i>Volume</i>		
gallons (gal)	3.785×10^0	liters (L)
	3.785×10^0	cubic decimeters (dm ³)
	3.785×10^{-3}	cubic meters (m ³)
million gallons	3.785×10^3	cubic meters (m ³)
	3.785×10^{-3}	cubic hectometers (hm ³)
cubic feet (ft ³)	2.832×10^1	cubic decimeters (dm ³)
	2.832×10^{-2}	cubic meters (m ³)
cfs-days	2.447×10^3	cubic meters (m ³)
	2.447×10^{-3}	cubic hectometers (hm ³)
acre-feet (acre-ft)	1.233×10^3	cubic meters (m ³)
	1.233×10^{-3}	cubic hectometers (hm ³)
	1.233×10^{-6}	cubic kilometers (km ³)
<i>Flow</i>		
cubic feet per second (ft ³ /s)	2.832×10^1	liters per second (L/s)
	2.832×10^1	cubic decimeters per second (dm ³ /s)
	2.832×10^{-2}	cubic meters per second (m ³ /s)
gallons per minute (gal/min)	6.309×10^{-2}	liters per second (L/s)
	6.309×10^{-2}	cubic decimeters per second (dm ³ /s)
	6.309×10^{-5}	cubic meters per second (m ³ /s)
million gallons per day	4.381×10^1	cubic decimeters per second (dm ³ /s)
	4.381×10^{-2}	cubic meters per second (m ³ /s)
<i>Mass</i>		
tons (short)	9.072×10^{-1}	megagrams (Mg) or metric tons

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