



Water Resources Data for Maine

U.S. GEOLOGICAL SURVEY WATER-DATA REPORT ME-79-1

WATER YEAR 1979

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

CALENDAR FOR WATER YEAR 1979

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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

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PREFACE

This report was prepared by personnel of the New England District of the Water Resources Division of the U. S. Geological Survey under the supervision of J. A. Baker, District Chief, and J. E. Biesecker, Regional Hydrologist, Northeastern Region. It was done in cooperation with the State of Maine and with other agencies.

This report is one of a series issued by State. The general direction for the series is by J. S. Cragwall, Jr., Chief Hydrologist, succeeded by Philip Cohen, and by Philip Cohen, Assistant Chief Hydrologist for Scientific Publications and Data Management, succeeded by R. J. Dingman.

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WATER RESOURCES DATA FOR MAINE, 1979

INTRODUCTION

Water resources data for the 1979 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 69 gaging stations; stage only records for 2 gaging stations; contents for 17 lakes and reservoirs; water quality for 13 gaging stations and 27 wells; and water levels for 21 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-79-1." 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 Public Utilities Commission, H. E. Gelder, chairman.

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

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

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:

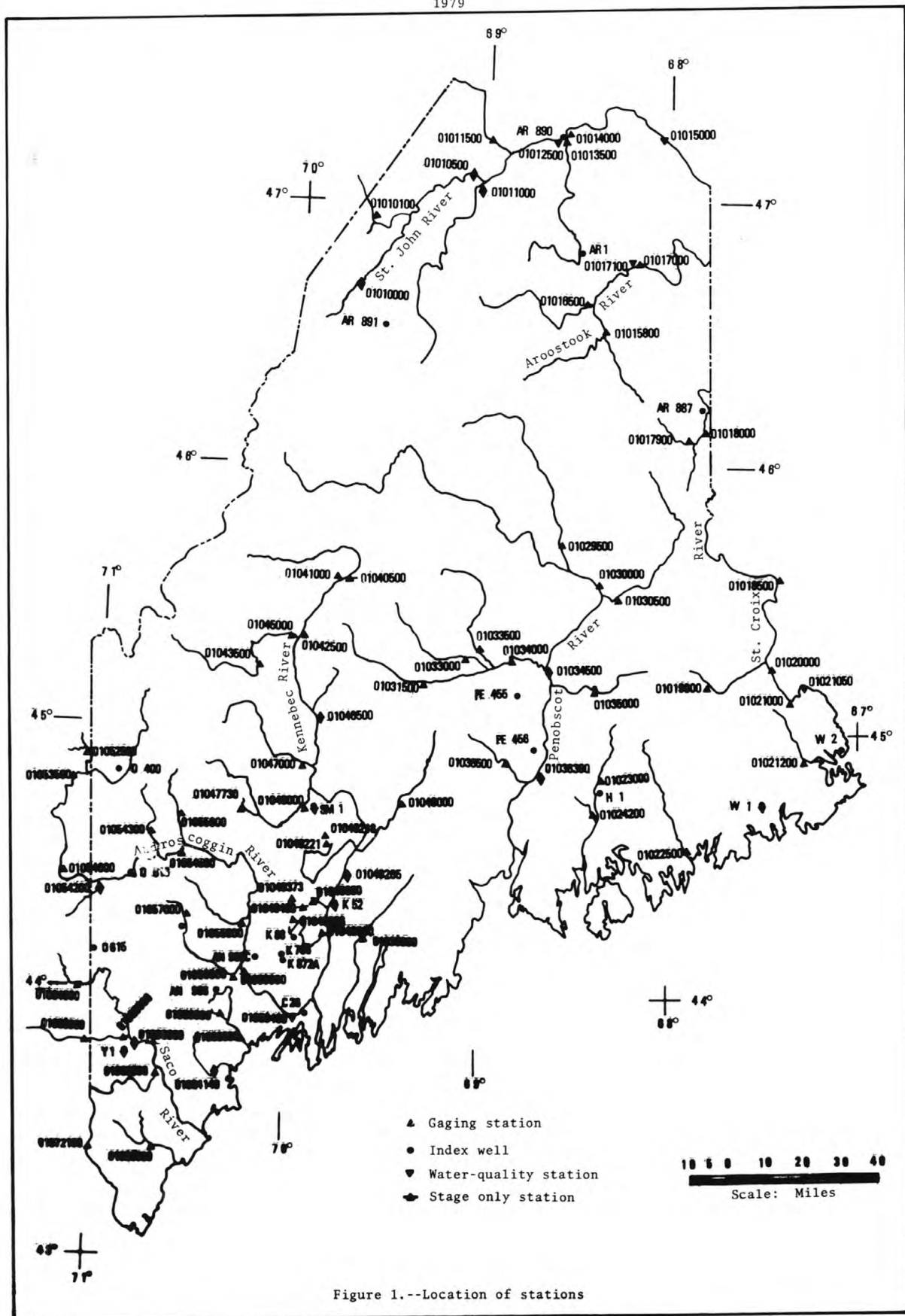
Boise Cascade

Central Maine Power Company

Great Northern Paper Company

Kennebec Water Power Company

Union Water Power Company



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 1979 was in the excessive range in the Northern section of the State and in the normal range elsewhere. Runoff at all four of the 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) was above average, and ranged from 105 percent to 127 percent of normal at the individual sites.

Mean monthly runoff was in the deficient range at three of the four index gaging stations for October, and at all four for November and December. The lowest December runoff for period of record occurred at the Piscataquis River near Dover-Foxcroft (August 1902-79).

January runoff was in the normal range at all index stations. February runoff was in the excessive range in the north, in the normal range in the central and southeastern sections, and in the deficient range in western Maine.

March runoff was excessive at all the index stations.

April through September runoff was generally in the normal range, except at the Fort Kent station where it was excessive during April, June, and September, and at the Dover-Foxcroft station where it was also in the excessive range during June and September and in the deficient range during July.

Ground-water levels were in the below-normal range at the beginning of the water year and continued this way until late January when rain and snowmelt brought levels back to normal or above normal in all but a small section in the western mountainous area. Record low levels were reached in several observation wells during October through December when many domestic wells went dry.

Levels were above normal in the spring, normal or below in June and July, and generally normal in August and September.

Water in usable storage was 103 percent of normal at the start of the water year, declined to only 60 percent by the end of December, rose to a high of 166 percent on March 31, and dropped to about normal by the end of April, where it remained until 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, 1979

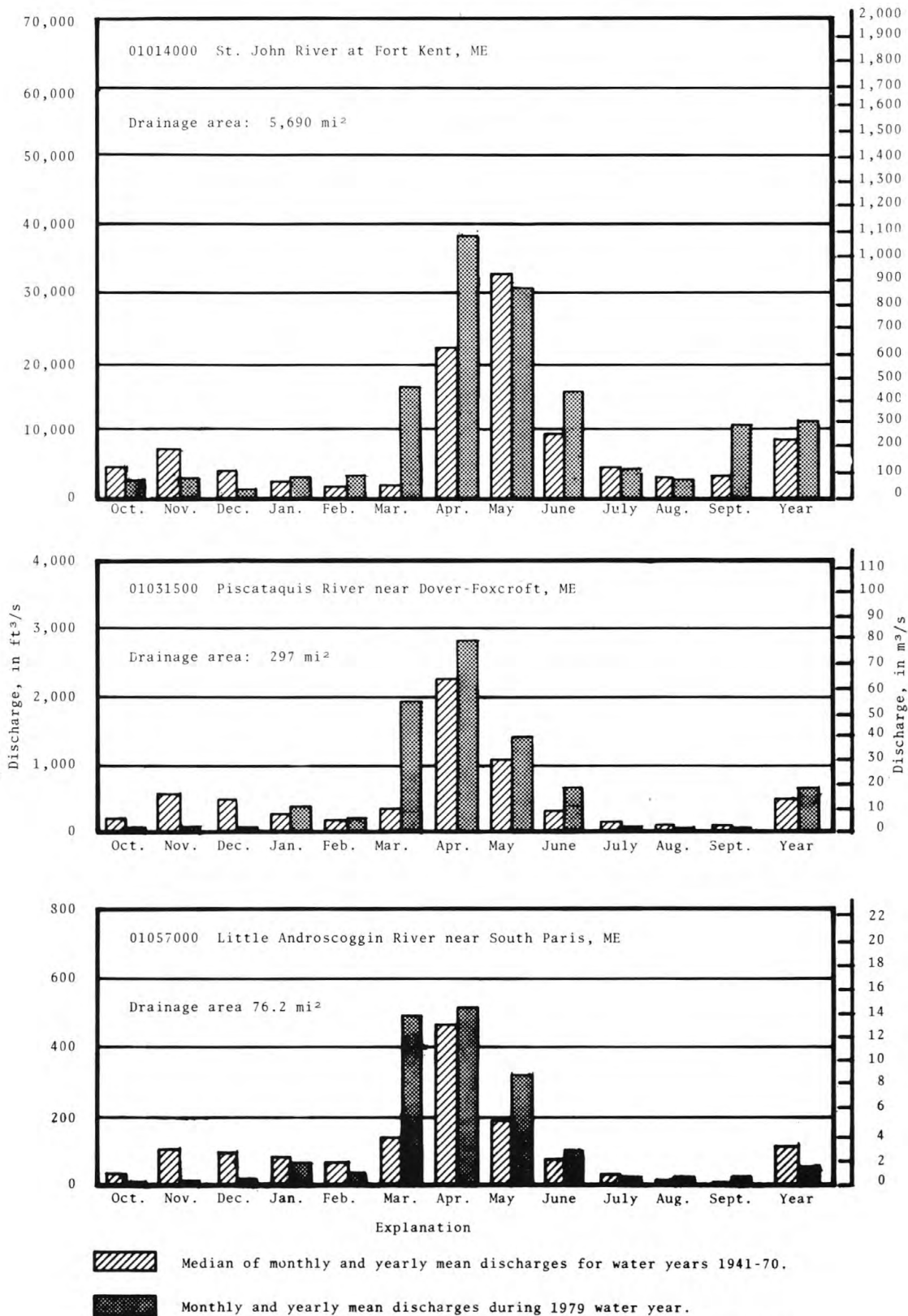


Figure 2.--Comparison of runoff at three long-term index gaging stations during 1979 water year with median runoff for period 1941-70.

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 +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 +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 +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 (lsd) 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 emersed or submersed solid surface, such as a rock or tree, upon which an organism lived.

Artificial substrate is a device which is purposely placed in a stream or lake for colonization 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.

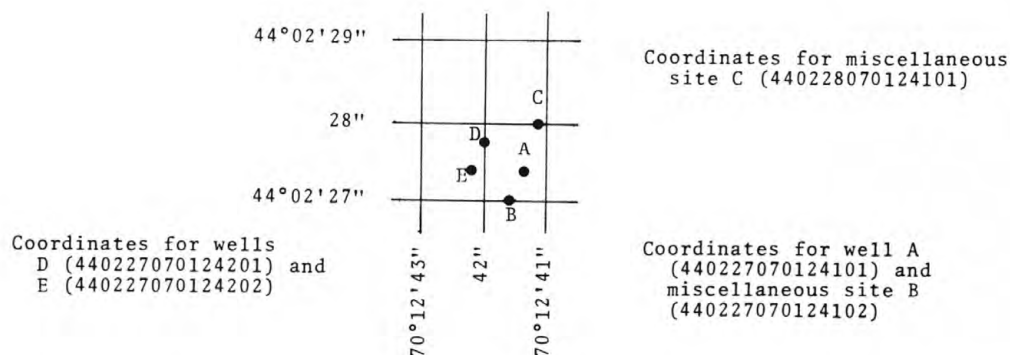


Figure 3.--System for numbering wells and miscellaneous sites (latitude and longitude)

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

The average discharge for the number of years indicated is given under "AVERAGE DISCHARGE;" it is not given for stations having fewer than 5 complete years of record 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, if the drainage area includes large noncontributing areas, or if the average annual rainfall over the drainage basin is usually less than 20 inches. In the yearly summary below the monthly summary, the figures shown are the appropriate daily discharges for the calendar and water years.

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

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

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

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NORTH ATLANTIC SLOPE BASINS

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.--29 years, 2,321 ft³/s (65.7 m³/s), 24.43 in/yr (621 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, 34,700 ft³/s (983 m³/s) Apr. 29, gage height 11.05 ft (3.368 m); minimum discharge, 191 ft³/s (5.41 m³/s) July 26, Aug. 13, gage height, 0.75 ft (0.229 m).

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	306	1430	440	360	1400	380	10100	23800	14800	613	283	1550
2	300	1250	465	370	1900	370	10300	19100	11400	651	367	1200
3	518	1110	500	390	2300	365	9380	15400	8010	1450	378	925
4	467	987	540	500	1950	360	8470	12700	5820	2220	387	737
5	437	881	560	950	1640	375	7510	10900	4390	1710	413	603
6	525	818	560	1700	1420	490	6350	9030	4370	1220	346	535
7	625	778	550	2050	1250	660	5100	7160	4210	887	445	5640
8	748	738	540	1950	1110	1200	4420	5760	3200	684	443	10100
9	706	702	520	1800	1040	2500	3870	4980	2760	545	343	7290
10	621	655	500	1700	940	4700	3470	5180	3830	452	284	4720
11	544	634	490	1550	860	5000	3070	5000	3960	392	239	4080
12	475	614	470	1450	800	4500	2860	4120	4000	369	207	3980
13	440	521	460	1350	740	4000	2730	3410	5370	518	195	2980
14	619	558	450	1250	695	3650	3300	3080	4490	491	205	2370
15	2860	2170	440	1150	640	3300	4570	2700	3270	377	231	7960
16	4370	3100	430	1100	610	3100	5490	2320	2460	359	297	9830
17	3430	2500	425	1030	580	2900	6390	2020	2160	1100	301	6630
18	2500	3050	420	975	545	2700	6560	1770	2780	1580	258	4240
19	1920	6130	410	940	525	2550	6720	1520	2540	1100	239	2960
20	1660	5040	405	880	505	2400	6550	1300	1920	727	244	2370
21	1470	3260	400	840	490	2330	7610	1130	1460	511	388	2020
22	1300	2300	395	820	470	2250	9750	1220	1120	389	403	1730
23	1120	1350	390	795	450	2200	10300	1660	906	321	385	1470
24	979	830	385	760	430	2600	12400	1460	803	261	367	1250
25	857	740	380	750	420	4500	14600	1250	853	223	461	1060
26	776	600	375	745	410	9000	17400	3020	850	208	2490	924
27	846	520	375	760	400	13000	23600	7260	723	260	3400	818
28	1820	460	370	825	385	15300	31500	7100	631	446	2860	720
29	2230	415	365	900	---	14000	34200	6600	602	458	2310	650
30	2040	425	365	1000	---	12100	30300	7650	593	347	1830	605
31	1690	---	360	1180	---	10400	---	10900	---	268	1810	---
TOTAL	39199	44566	13735	32820	24905	133180	308870	190500	104281	21137	22809	91947
MEAN	1264	1486	443	1059	889	4296	10300	6145	3476	682	736	3065
MAX	4370	6130	560	2050	2300	15300	34200	23800	14800	2220	3400	10100
MIN	300	415	360	360	385	360	2730	1130	593	208	195	535
CFSM	.98	1.15	.34	.82	.69	3.33	7.98	4.76	2.70	.53	.57	2.38
IN.	1.13	1.29	.40	.95	.72	3.84	8.91	5.49	3.01	.61	.66	2.65
CAL YR 1978 TOTAL	859289		MEAN 2354	MAX 26500	MIN 90	CFSM 1.83	IN 24.78					
WTR YR 1979 TOTAL	1027949		MEAN 2816	MAX 34200	MIN 195	CFSM 2.18	IN 29.64					

ST. JOHN RIVER BASIN

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

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 1976 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, 94 micromhos May 21, 1976; 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, 89 micromhos Oct. 4; minimum, 29 micromhos June 13, 14.

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

SPECIFIC CONDUCTANCE (MICROMHOS/CM AT 25 DEG. C), WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
OCTOBER			NOVEMBER			DECEMBER			JANUARY			
1	84	80	84	58	56	57	67	66	66	68	66	67
2	86	85	85	58	57	57	67	67	67	67	65	66
3	88	84	86	58	57	58	71	68	70	66	59	63
4	89	78	83	59	58	59	70	69	69	59	56	57
5	82	78	80	60	59	59	70	69	69	56	55	56
6	85	83	84	61	60	61	70	61	66	55	54	55
7	86	82	84	62	61	62	62	61	61	54	53	54
8	84	77	80	62	61	62	61	60	60	53	52	53
9	85	75	82	63	62	62	62	60	61	52	52	52
10	86	81	84	64	63	63	64	62	62	52	51	51
11	87	69	78	65	64	64	67	65	66	53	51	53
12	78	75	77	66	65	65	68	65	67	54	53	53
13	79	77	78	68	62	66	65	64	65	53	52	53
14	79	73	76	68	65	67	65	65	65	53	52	52
15	76	71	74	68	60	65	66	65	65	55	52	53
16	77	69	71	59	55	58	66	65	65	55	54	55
17	76	65	72	59	56	58	66	65	65	58	55	57
18	76	56	66	58	56	57	66	65	65	57	56	56
19	59	55	57	57	53	54	67	67	67	59	39	50
20	60	59	60	53	45	50	68	67	68	41	40	40
21	61	59	60	54	44	49	68	66	67	40	39	40
22	62	60	61	57	50	54	68	66	67	40	40	40
23	66	59	61	60	58	58	68	66	67	41	40	40
24	75	64	68	61	58	59	67	67	67	42	41	41
25	76	64	71	61	54	58	67	67	67	41	41	41
26	68	62	64	65	58	61	67	66	67	41	41	41
27	65	62	63	72	65	69	68	67	67	41	41	41
28	68	59	64	69	67	68	68	67	67	42	41	41
29	72	60	65	68	67	68	68	67	67	42	41	41
30	66	63	64	67	66	66	69	67	68	41	40	41
31	64	55	60	---	---	---	68	67	68	41	39	40
MONTH	89	55	72	72	44	60	71	60	66	68	39	50

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SPECIFIC CONDUCTANCE (MICROMHOS/CM AT 25 DEG. C), WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
FEBRUARY				MARCH			APRIL			MAY		
1	40	39	40	61	60	61	---	---	---	---	---	---
2	40	39	39	61	61	61	---	---	---	---	---	---
3	40	38	39	64	61	62	---	---	---	---	---	---
4	39	38	38	66	61	63	---	---	---	---	---	---
5	38	38	38	66	63	64	---	---	---	---	---	---
6	39	38	39	66	58	61	---	---	---	---	---	---
7	39	39	39	57	43	49	---	---	---	---	---	---
8	41	40	40	45	42	44	---	---	---	---	---	---
9	42	41	41	42	39	41	---	---	---	---	---	---
10	46	43	45	39	38	39	---	---	---	---	---	---
11	47	46	47	39	38	39	---	---	---	---	---	---
12	49	48	49	39	37	38	---	---	---	---	---	---
13	51	49	50	39	37	38	---	---	---	---	---	---
14	52	50	51	39	36	37	---	---	---	---	---	---
15	54	52	53	38	36	37	---	---	---	---	---	---
16	56	53	55	39	38	39	---	---	---	---	---	---
17	56	53	54	40	39	39	---	---	---	---	---	---
18	55	54	55	42	40	40	---	---	---	---	---	---
19	---	---	---	42	40	41	---	---	---	---	---	---
20	---	---	---	42	40	41	---	---	---	---	---	---
21	---	---	---	42	39	40	---	---	---	---	---	---
22	---	---	---	39	36	37	---	---	---	---	---	---
23	59	58	58	36	31	33	---	---	---	---	---	---
24	59	58	59	---	---	---	---	---	---	---	---	---
25	59	58	59	---	---	---	---	---	---	---	---	---
26	59	59	59	---	---	---	---	---	---	---	---	---
27	60	59	60	---	---	---	---	---	---	---	---	---
28	61	60	60	---	---	---	---	---	---	---	---	---
29	---	---	---	---	---	---	---	---	---	---	---	---
30	---	---	---	---	---	---	---	---	---	---	---	---
31	---	---	---	---	---	---	---	---	---	---	---	---
MONTH	61	38	49	66	31	45	---	---	---	---	---	---
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
JUNE				JULY			AUGUST			SEPTEMBER		
1	---	---	---	50	47	48	62	57	59	47	47	47
2	---	---	---	48	46	47	59	56	57	50	47	48
3	---	---	---	46	39	44	60	58	59	51	50	50
4	---	---	---	39	37	38	59	56	59	53	51	52
5	---	---	---	39	37	38	60	58	59	55	52	53
6	---	---	---	40	39	39	61	59	60	55	47	53
7	---	---	---	42	40	41	60	59	60	51	41	46
8	32	30	31	44	42	42	60	59	60	42	41	42
9	32	30	31	46	43	44	62	60	61	41	40	41
10	32	31	32	49	46	47	64	62	62	41	39	40
11	32	32	32	49	47	48	67	63	65	40	36	38
12	32	31	31	51	49	50	69	65	67	40	39	39
13	31	29	30	53	49	51	69	65	67	42	40	41
14	31	29	30	49	45	47	69	65	67	42	40	

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

TEMPERATURE, WATER (DEG. C), WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979

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

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 1979 (seasonal records only).

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, 5,190 ft³/s (147 m³/s) Apr. 29, gage height, 22.49 ft (6.855 m), backwater from bridge, from rating extended above 2,500 ft³/s (71 m³/s); minimum daily, 7.5 ft³/s (0.21 m³/s) Aug. 2.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	20	36	74			---	1410	3020	1930	50	8.2	99
2	25	33	60			---	1430	2390	1180	53	7.5	70
3	28	30	53			---	1260	1680	644	122	8.2	54
4	27	30	47			---	1090	1420	414	147	13	44
5	30	28	43			---	964	1180	307	103	21	35
6	36	27	---			---	805	907	363	71	21	35
7	38	27	---			---	644	691	313	52	18	654
8	36	26	---			---	575	577	240	40	15	770
9	32	26	---			---	507	541	216	32	13	402
10	29	27	---			---	454	635	239	26	11	223
11	26	28	---			---	406	566	223	22	10	342
12	42	28	---			---	368	422	353	20	9.6	384
13	128	28	---			---	372	350	635	20	9.2	251
14	331	29	---			---	563	322	503	18	14	238
15	285	28	---			---	815	284	315	16	18	1800
16	204	29	---			---	952	236	217	18	20	1630
17	151	27	---			---	1070	211	157	28	21	834
18	118	24	---			---	907	188	121	30	18	386
19	98	27	---			---	810	160	101	25	15	257
20	83	31	---			---	749	135	85	18	13	231
21	71	38	---			---	929	118	70	16	12	197
22	63	45	---			---	1170	164	59	18	18	173
23	56	61	---			---	1240	218	53	19	19	161
24	50	53	---			---	1640	173	72	16	19	132
25	45	58	---			---	1880	136	109	14	139	111
26	42	152	---			---	2280	267	96	16	414	94
27	40	342	---			---	3140	676	72	18	262	82
28	40	376	---			---	4240	747	61	18	152	71
29	42	275	---			---	2000	754	59	15	100	63
30	42	145	---			---	1680	4300	1120	56	11	90
31	39	---	---			---	1370	---	1880	---	9.3	116
TOTAL	2297	2114	---			---	41970	22368	9263	1081.3	1624.7	9883
MEAN	74.1	70.5	---			---	1399	722	309	34.9	52.4	329
MAX	331	376	---			---	5000	3020	1930	147	414	1800
MIN	20	24	---			---	368	118	53	9.3	7.5	35
CFSM	.46	.44	---			---	8.69	4.48	1.92	.22	.33	2.04
IN.	.53	.49	---			---	9.70	5.17	2.14	.25	.38	2.28

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.--33 years (water years 1947-79), 4,754 ft³/s (134.6 m³/s), 23.91 in/yr (607 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 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)
Mar. 11	0100	ice jam	*23.40 7.132	Apr. 29	2000	*91,700 2600	19.13 5.831
Mar. 29	2000	34700 983	12.28 3.743	June 1	1200	34,500 977	12.31 3.752

Minimum discharge, 397 ft³/s (11.2 m³/s), Aug. 21.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	598	2270	840	770	3050	810	19500	60300	33100	1550	645	2440
2	579	1770	890	795	3700	775	19500	50000	26200	1480	590	2110
3	589	1590	970	840	4490	760	18600	38800	17500	2290	559	1660
4	598	1450	1050	1020	4250	745	16500	29900	12400	3430	623	1320
5	759	1330	1140	1290	3700	745	15100	24900	9430	3830	645	1070
6	815	1220	1130	2300	3250	860	13000	20600	8310	2920	702	915
7	826	1160	1120	3100	2850	1180	10500	16300	8540	2180	713	3590
8	1000	1110	1120	3500	2520	1650	9230	13100	7170	1700	667	15500
9	1110	1070	1100	3100	2270	4100	8330	11300	5920	1360	761	12800
10	1050	1030	1080	2720	2100	8500	7570	11500	5700	1140	725	8500
11	1000	983	1050	2500	1990	10000	6520	11800	6660	1030	645	6690
12	942	969	1020	2290	1850	9500	6310	9990	6660	928	559	7300
13	902	798	1000	2090	1750	9000	5720	8200	8800	875	518	6180
14	942	836	990	1940	1680	8200	6310	7360	9500	811	508	4920
15	1700	849	980	1800	1580	7500	8290	6750	7300	875	442	13700
16	6240	2260	960	1690	1490	7000	10300	5840	5640	836	442	23300
17	6750	3510	950	1600	1400	6500	11800	5140	4400	969	442	16300
18	5230	3350	940	1510	1300	5900	12400	4430	3860	1410	433	10100
19	3890	6270	920	1450	1250	5600	12500	3830	4220	2160	415	7020
20	3120	8350	900	1400	1200	5100	12400	3330	3690	1640	406	5840
21	2700	6150	890	1360	1150	4800	13500	2920	2920	1240	406	5040
22	2420	4000	880	1300	1100	4500	17000	2720	2330	969	415	4340
23	2160	2370	865	1260	1040	4500	19200	2970	1990	774	479	3800
24	1930	1790	860	1230	1000	6200	22700	3350	2010	656	479	3280
25	1720	1750	845	1210	960	12000	28400	2990	2030	580	811	2870
26	1570	1350	830	1220	920	21000	34700	3380	2050	518	2290	2650
27	1470	1080	820	1320	880	29300	48000	10100	1950	498	4880	2370
28	1450	880	805	1480	850	32000	68200	13900	1790	508	4730	2130
29	2090	810	790	1700	---	31200	86800	13900	1720	528	3720	1930
30	2870	820	780	2000	---	25500	80900	17000	1610	702	2970	1750
31	2750	---	780	2540	---	21300	---	23700	---	679	2510	---
TOTAL	61770	63175	29295	54325	55570	286725	649780	440300	215400	41066	35130	181415
MEAN	1993	2106	945	1752	1985	9249	21660	14200	7180	1325	1133	6047
MAX	6750	8350	1140	3500	4490	32000	86800	60300	33100	3830	4880	23300
MIN	579	798	780	770	850	745	5720	2720	1610	498	406	915
CFSM	.74	.78	.35	.65	.74	3.43	8.02	5.26	2.66	.49	.42	2.24
IN.	.85	.87	.40	.75	.77	3.95	8.95	6.07	2.97	.57	.48	2.50
CAL YR 1978	TOTAL	1634954	MEAN	4479	MAX	57000	MIN	216	CFSM	1.66	IN	22.53
WTR YR 1979	TOTAL	2113951	MEAN	5792	MAX	86800	MIN	406	CFSM	2.15	IN	29.13

ST. JOHN RIVER BASIN

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

WATER-QUALITY RECORDS

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

PERIOD OF DAILY RECORD.--

SPECIFIC CONDUCTANCE: April 1975 to current year.

WATER TEMPERATURES: April 1975 to current year.

SUSPENDED SEDIMENT DISCHARGE: October 1975 to September 1976.

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

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.

EXTREMES FOR CURRENT YEAR.--

SPECIFIC CONDUCTANCE: Maximum, 96 micromhos Feb. 28; minimum, 31 micromhos May 16, 17.

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

SPECIFIC CONDUCTANCE (MICROMHOS/CM AT 25 DEG. C), WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
OCTOBER			NOVEMBER			DECEMBER			JANUARY			
1	64	62	63	56	55	55	69	67	68	76	75	75
2	65	64	64	57	55	56	70	68	69	75	74	75
3	71	64	68	58	56	57	69	68	68	78	75	76
4	72	70	71	59	57	58	69	67	68	78	77	78
5	72	71	72	61	59	60	67	67	67	79	74	77
6	72	71	71	62	60	61	68	67	68	74	72	72
7	74	73	73	62	62	62	67	66	67	72	69	70
8	74	72	73	63	62	62	68	67	68	69	67	68
9	72	71	71	64	63	63	69	68	68	67	65	66
10	71	70	71	65	62	64	69	69	69	66	65	65
11	72	69	71	66	64	65	70	69	70	66	64	65
12	73	71	72	65	64	65	71	69	70	65	63	65
13	73	71	72	66	62	64	71	70	70	66	64	65
14	72	69	71	68	63	66	71	70	71	65	65	65
15	73	70	71	67	66	66	71	70	70	66	65	65
16	73	65	70	68	60	65	71	70	70	67	65	66
17	65	62	63	57	47	53	71	70	70	68	65	67
18	62	60	61	56	53	54	72	71	72	68	67	68
19	60	59	60	58	56	57	73	72	72	69	66	68
20	59	59	59	---	---	---	73	72	73	70	67	69
21	59	58	59	---	---	---	73	73	73	71	70	70
22	59	58	59	---	---	---	74	73	73	71	69	70
23	60	60	60	60	47	53	74	73	73	72	71	72
24	60	59	60	54	52	54	74	73	74	73	72	72
25	61	60	60	60	51	54	74	74	74	73	69	72
26	61	61	61	60	51	56	74	74	74	74	73	73
27	63	61	62	63	60	61	75	74	74	74	74	74
28	63	62	63	65	63	65	75	74	74	75	74	74
29	63	59	61	68	65	67	---	---	---	75	75	75
30	59	56	57	70	68	69	---	---	---	76	75	75
31	56	55	55	---	---	---	76	76	76	75	72	73
MONTH	74	55	65	70	47	60	76	66	71	79	63	70

010105000 ST. JOHN RIVER AT DICKEY, ME--Continued

TEMPERATURE, WATER (DEG. C), WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
OCTOBER			NOVEMBER			DECEMBER			JANUARY			
1	11.0	8.0	9.0	3.5	1.5	2.5	.0	.0	.0	.0	.0	.0
2	11.0	10.0	10.5	3.5	1.5	2.5	.0	.0	.0	.0	.0	.0
3	10.5	8.0	9.0	3.5	1.5	2.5	.0	.0	.0	.0	.0	.0
4	8.5	6.5	7.0	4.0	1.0	3.0	.0	.0	.0	.0	.0	.0
5	9.0	7.5	8.5	5.0	3.0	4.0	.0	.0	.0	.0	.0	.0
6	9.5	9.0	9.0	7.0	4.0	5.5	.0	.0	.0	.0	.0	.0
7	11.0	9.0	10.0	6.5	4.5	6.0	.0	.0	.0	.0	.0	.0
8	9.5	7.0	8.5	5.0	3.0	4.0	.0	.0	.0	.0	.0	.0
9	6.5	5.0	5.5	3.5	2.5	3.0	.0	.0	.0	.0	.0	.0
10	6.5	5.0	5.5	3.0	1.5	2.0	.0	.0	.0	.0	.0	.0
11	7.5	4.0	6.0	3.0	1.5	2.5	.0	.0	.0	.0	.0	.0
12	8.0	5.5	7.0	2.0	.0	1.0	.0	.0	.0	.0	.0	.0
13	8.0	7.5	7.5	.0	.0	.0	.0	.0	.0	.0	.0	.0
14	8.0	7.0	7.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
15	7.5	5.0	6.5	1.0	.0	.5	.0	.0	.0	.0	.0	.0
16	5.5	4.5	5.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17	4.5	3.5	4.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
18	4.0	2.5	3.0	1.0	.0	.5	.0	.0	.0	.0	.0	.0
19	4.0	3.0	3.5	1.0	.5	1.0	.0	.0	.0	.0	.0	.0
20	4.5	3.0	3.5	.5	.5	.5	.0	.0	.0	.0	.0	.0
21	6.0	4.0	5.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
22	7.0	5.0	6.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23	7.0	5.0	6.5	.0	.0	.0	.0	.0	.0	.0	.0	.0
24	5.0	3.5	4.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
25	3.5	2.5	3.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26	5.0	3.5	4.5	.0	.0	.0	.0	.0	.0	.0	.0	.0
27	5.5	4.5	5.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
28	4.0	3.5	4.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
29	4.5	2.5	3.5	.0	.0	.0	.0	.0	.0	.0	.0	.0
30	3.0	1.0	2.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
31	3.5	1.5	2.0	---	---	---	.0	.0	.0	.0	.0	.0
MONTH	11.0	1.0	6.0	7.0	.0	1.5	.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	1.5	.5	1.0	6.0	4.5	5.5
2	.0	.0	.0	.0	.0	.0	1.5	.0	1.0	5.5	4.5	5.0
3	.0	.0	.0	.0	.0	.0	1.0	.5	.5	6.0	4.5	5.5
4	.0	.0	.0	.0	.0	.0	2.0	.5	1.5	6.0	5.5	6.0
5	.0	.0	.0	.0	.0	.0	1.5	.0	.5	6.0	5.0	5.5
6	.0	.0	.0	.0	.0	.0	.5	.0	.5	6.5	4.5	5.5
7	.0	.0	.0	.0	.0	.0	1.0	.5	.5	7.5	5.0	6.5
8	.0	.0	.0	.0	.0	.0	1.5	.5	.5	8.5	6.0	7.5
9	.0	.0	.0	.0	.0	.0	1.5	.0	1.0	11.5	8.5	10.0
10	.0	.0	.0	.0	.0	.0	1.5	.5	.5	12.5	11.0	12.0
11	.0	.0	.0	.0	.0	.0	2.5	.5	1.0	13.0	10.5	12.0
12	.0	.0	.0	.0	.0	.0	2.0	1.0	2.0	13.0	11.5	12.5
13	.0	.0	.0	.0	.0	.0	4.5	1.5	3.0	12.5	12.0	12.5
14	.0	.0	.0	.0	.0	.0	4.5	2.5	3.5	13.5	12.0	12.5
15	.0	.0	.0	.0	.0	.0	3.5	2.0	3.0	15.0	12.5	14.0
16	.0	.0	.0	.0	.0	.0	4.5	1.5	3.0	15.0	13.5	14.5
17	.0	.0	.0	.0	.0	.0	3.5	2.5	3.0	16.0	12.5	14.0
18	.0	.0	.0	.0	.0	.0	4.0	1.5	2.5	17.0	13.5	15.5
19	.0	.0	.0	.0	.0	.0	3.5	2.5	3.0	19.5	15.5	17.5
20	.0	.0	.0	.0	.0	.0	4.5	2.0	3.5	19.5	16.5	18.0
21	.0	.0	.0	.0	.0	.0	5.0	2.5	4.0	19.5	17.0	18.5
22	.0	.0	.0	.5	.0	.5	5.0	3.5	3.5	18.5	16.5	17.5
23	.0	.0	.0	.5	.0	.5	3.5	2.0	3.0	17.5	14.0	16.0
24	.0	.0	.0	.5	.0	.5	4.5	2.0	3.5	17.0	15.5	16.0
25	.0	.0	.0	.5	.0	.5	5.0	2.5	4.0	15.5	12.5	14.0
26	.0	.0	.0	.5	.5	.5	5.5	3.5	4.5	12.0	10.5	11.0
27	.0	.0	.0	.5	.0	.5	4.5	4.0	4.5	12.0	10.5	11.0
28	.0	.0	.0	1.0	.0	.5	4.5	4.0	4.0	11.0	10.5	11.0
29	---	---	---	.5	.0	.5	4.0	3.5	3.5	11.0	10.5	10.5
30	---	---	---	1.5	.5	1.0	5.0	3.5	4.0	10.5	10.0	10.5
31	---	---	---	1.0	.5	.5	---	---	---	11.0	10.5	10.5
MONTH	.0	.0	.0	1.5	.0	.0	5.5	.0	2.5	19.5	4.5	11.5

ST. JOHN RIVER BASIN

01011000 ALLAGASH RIVER NEAR ALLAGASH, ME

LOCATION.--Lat 47°04'14", long 69°04'51", Aroostock 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 RECORDS.--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 and period of no gage-height record, Apr. 29, May 1-31, 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.--48 years (water years 1932-79), 1,929 ft³/s (54.63 m³/s), 20.96 in/yr (532 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 (4.393 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, 28,400 ft³/s (804 m³/s) Apr. 29, gage height, unknown; minimum discharge, 354 ft³/s (10.03 m³/s) Oct. 12, 13, gage height, 2.17 ft (0.661 m).

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	522	623	480	400	1820	740	7330	21500	9640	1390	638	907
2	533	587	505	410	1900	720	6940	16600	8270	1300	645	815
3	508	568	540	450	1900	705	6570	12700	7010	1370	736	755
4	468	557	570	545	1880	700	6170	10200	6330	1390	830	668
5	460	550	620	780	1790	710	5870	8200	5620	1350	837	586
6	448	540	620	1200	1700	760	5540	6800	5090	1250	776	570
7	430	538	620	1400	1630	945	5190	5800	4510	1150	708	2660
8	418	529	620	1400	1570	1350	4780	5200	3930	1070	681	4550
9	412	512	605	1340	1500	2380	4500	4750	3560	999	649	3940
10	397	501	600	1250	1400	3400	4310	4800	3440	946	598	3290
11	374	489	580	1150	1350	3950	3990	4900	3330	909	562	2990
12	358	484	575	1070	1300	3900	3760	4700	3320	897	534	2730
13	368	438	560	1000	1250	3750	3570	4200	3510	936	525	2410
14	436	464	555	950	1200	3480	3750	3590	3350	910	554	2210
15	758	504	540	880	1150	3200	4080	3050	3060	818	660	4140
16	1000	515	540	845	1110	3000	4230	2650	2670	862	726	4670
17	918	540	520	815	1080	2850	4480	2300	2330	1260	640	4050
18	848	792	520	780	1020	2630	4460	2000	2200	1200	580	3390
19	783	1510	505	745	1000	2500	4430	1800	2190	1070	556	2860
20	719	1410	500	720	960	2400	4290	1650	2140	964	578	2610
21	664	1250	480	710	940	2300	4480	1550	1980	866	632	2410
22	622	995	480	690	910	2210	5020	1500	1810	789	716	2220
23	583	878	470	680	880	2280	5320	1550	1700	732	754	1990
24	541	790	460	660	840	2480	6230	1640	1670	686	680	1820
25	495	720	450	660	820	3250	7240	1660	1600	665	759	1680
26	486	580	440	700	795	5450	9130	1650	1490	660	1310	1560
27	509	540	440	800	775	12000	14100	2000	1410	725	1420	1440
28	571	480	430	980	750	11600	20200	3400	1450	752	1370	1340
29	638	460	420	1240	---	9980	26700	4500	1410	724	1310	1270
30	637	465	410	1530	---	8600	25800	5600	1390	677	1190	1190
31	639	---	410	1750	---	7690	---	8000	---	638	1050	---
TOTAL	17543	19809	16065	28530	35220	111910	222460	160440	101410	29955	24204	67721
MEAN	566	660	518	920	1258	3610	7415	5175	3380	966	781	2257
MAX	1000	1510	620	1750	1900	12000	26700	21500	9640	1390	1420	4670
MIN	358	438	410	400	750	700	3570	1500	1390	638	525	570
CFSM	.45	.53	.41	.74	1.01	2.89	5.93	4.14	2.70	.77	.63	1.81
IN.	.52	.59	.48	.85	1.05	3.33	6.62	4.77	3.02	.89	.72	2.02
CAL YR 1978	TOTAL	615592	MEAN	1687	MAX	16700	MIN	337	CFSM	1.35	IN	18.32
WTR YR 1979	TOTAL	835267	MEAN	2288	MAX	26700	MIN	358	CFSM	1.83	IN	24.86

01011000 ALLAGASH RIVER NEAR ALLAGASH, ME--Continued

WATER-QUALITY RECORDS

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

PERIOD OF DAILY RECORD.--

SPECIFIC CONDUCTANCE: April 1975 to current year.

WATER TEMPERATURES: April 1975 to current year.

SUSPENDED SEDIMENT DISCHARGE: October 1975 to September 1976.

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

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, July 26, 1979; 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, Jan. 16-30, 1976.

EXTREMES FOR CURRENT YEAR.--

SPECIFIC CONDUCTANCE: Maximum, 78 micromhos Nov. 26, 27; minimum, 40 micromhos Apr. 28.

WATER TEMPERATURES: Maximum, 27.5°C July 26; minimum, 0.0°C on many days during winter periods.

SPECIFIC CONDUCTANCE (MICROMHOS/CM AT 25 DEG. C), WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
	OCTOBER			NOVEMBER			DECEMBER			JANUARY		
1	67	66	66	69	68	68	67	67	67	67	66	66
2	67	65	66	69	68	69	67	67	67	66	66	66
3	66	65	66	69	68	69	67	66	66	66	65	65
4	67	65	66	70	68	69	67	66	66	65	65	65
5	67	66	67	70	69	69	67	67	67	65	64	64
6	67	67	67	70	69	69	67	65	66	63	62	63
7	67	67	67	70	68	69	66	65	66	63	62	63
8	67	67	67	69	68	69	66	66	66	63	62	62
9	68	67	67	69	69	69	66	66	66	62	61	61
10	68	68	68	69	69	69	66	65	66	60	59	60
11	69	68	68	69	68	69	66	64	65	59	57	58
12	69	68	69	69	68	69	68	66	67	58	55	57
13	69	68	69	69	68	69	68	68	68	58	56	57
14	70	68	69	71	68	69	68	67	67	59	57	58
15	73	70	71	69	68	69	67	66	67	58	57	58
16	74	73	73	69	68	69	67	67	67	57	55	56
17	73	69	71	70	69	70	67	67	67	56	54	55
18	69	68	68	70	68	69	67	66	67	56	55	56
19	68	68	68	70	69	69	67	66	66	56	54	55
20	68	67	68	69	67	68	68	67	67	56	53	55
21	69	68	68	68	67	67	67	67	67	56	55	55
22	69	68	69	68	61	66	67	67	67	57	56	57
23	70	69	69	68	64	66	67	66	67	57	56	57
24	69	68	69	68	67	67	68	67	67	56	55	56
25	69	69	69	67	67	67	67	67	67	56	55	56
26	70	69	70	78	67	70	67	67	67	73	56	60
27	70	68	69	78	70	72	67	67	67	72	55	65
28	70	69	69	71	69	70	67	67	67	55	55	55
29	71	70	70	69	68	68	67	67	67	55	55	55
30	70	69	70	68	67	68	66	65	65	55	53	54
31	69	69	69	---	---	---	66	65	65	53	52	53
MONTH	74	65	68	78	61	69	68	64	67	73	52	59

01011000 ALLAGASH RIVER NEAR ALLAGASH, ME--Continued

TEMPERATURE, WATER (DEG. C), WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979

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

ST. JOHN RIVER BASIN

33

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.--28 years, 890 ft³/s (25.2 m³/s), 23.24 in/yr (590 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, 15,000 ft³/s (425 m³/s) Apr. 30, gage height, 15.39 ft (4.691 m); minimum, 58 ft³/s (1.64 m³/s) Oct. 12, gage height, 2.02 ft (0.616 m).

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	66	101	102	111	219	167	3700	14300	2840	762	255	338
2	73	99	102	117	241	168	3320	12600	3850	726	245	330
3	71	97	101	134	253	155	3070	10500	3840	705	236	327
4	71	93	100	131	269	157	2790	8690	3330	684	225	319
5	66	93	99	135	282	159	2570	7280	2770	681	219	309
6	66	90	98	137	294	171	2420	6150	2380	705	228	310
7	69	93	97	141	296	203	2240	5250	2100	704	236	387
8	70	93	95	158	291	235	2050	4490	1910	659	233	439
9	68	91	95	169	300	296	1860	3870	1730	618	224	532
10	62	90	95	174	287	398	1760	3440	1560	580	209	593
11	60	90	96	179	286	537	1630	3240	1460	528	206	633
12	60	92	95	185	271	652	1490	3050	1390	510	196	643
13	63	84	95	193	238	707	1400	2790	1380	512	188	681
14	71	82	95	190	249	736	1310	2540	1400	492	193	757
15	85	87	95	197	234	768	1300	2330	1410	464	189	1070
16	94	84	94	191	235	757	1340	2120	1400	436	188	1650
17	92	82	97	195	237	744	1430	1930	1340	441	181	2110
18	98	97	107	193	218	745	1510	1750	1270	440	183	2140
19	110	106	104	187	210	740	1570	1580	1180	441	186	1950
20	115	110	103	183	202	711	1570	1420	1120	439	196	1720
21	118	108	103	184	193	714	1620	1290	1020	424	200	1530
22	118	105	105	181	190	692	1760	1200	948	398	199	1390
23	122	107	102	186	185	681	1970	1080	887	364	195	1260
24	123	106	103	186	177	711	2310	1010	849	340	195	1140
25	121	108	104	172	176	855	2880	950	854	316	211	1040
26	118	115	113	167	167	1320	3690	915	888	295	231	983
27	115	107	115	166	177	2270	5020	913	903	287	258	906
28	114	105	115	177	173	3450	7280	915	902	281	298	828
29	113	104	110	176	---	4240	11200	1030	866	283	323	762
30	106	103	110	180	---	4320	14500	1270	812	264	335	710
31	108	---	108	195	---	4060	---	1800	---	256	344	---
TOTAL	2806	2922	3153	5270	6550	32519	92560	111693	48589	15035	7005	27787
MEAN	90.5	97.4	102	170	234	1049	3085	3603	1620	485	226	926
MAX	123	115	115	197	300	4320	14500	14300	3850	762	344	2140
MIN	60	82	94	111	167	155	1300	913	812	256	181	309
CFSM	.17	.19	.20	.33	.45	2.02	5.93	6.93	3.12	.93	.44	1.78
IN.	.20	.21	.23	.38	.47	2.33	6.62	7.99	3.48	1.08	.50	1.99
CAL YR 1978	TOTAL	241297	MEAN	661	MAX	8620	MIN	60	CFSM	1.27	IN	17.26
WTR YR 1979	TOTAL	355889	MEAN	975	MAX	14500	MIN	60	CFSM	1.88	IN	25.46

ST. JOHN RIVER BASIN

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 current year.

PERIOD OF DAILY RECORD.--

SPECIFIC CONDUCTANCE: April 1977 to current year.

WATER TEMPERATURES: April 1977 to current year.

INSTRUMENTATION.--Water-quality monitor since April 1977.

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, 40 micromhos June 2, 1979.

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, 88 micromhos Oct. 14, 15; minimum, 40 micromhos June 2.

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

SPECIFIC CONDUCTANCE (MICROMHOS/CM AT 25 DEG. C), WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
	OCTOBER			NOVEMBER			DECEMBER			JANUARY		
1	78	77	77	75	74	74	74	72	73	75	68	72
2	79	78	79	74	66	69	74	72	73	76	71	75
3	79	78	78	67	66	66	73	71	72	73	70	71
4	80	78	79	68	66	67	74	71	73	71	67	69
5	82	79	81	68	67	68	74	72	73	66	64	65
6	84	82	83	69	68	69	73	71	72	64	61	62
7	84	84	84	69	68	68	71	69	70	62	61	61
8	83	82	83	70	68	69	69	68	68	60	58	59
9	84	82	83	70	69	70	68	67	67	58	56	57
10	85	84	84	71	69	70	68	65	67	56	52	55
11	85	83	84	71	69	70	67	66	66	55	48	53
12	85	82	83	70	68	69	68	65	66	57	54	56
13	85	84	84	70	68	69	70	67	69	57	55	56
14	88	84	85	74	70	72	70	69	70	55	53	54
15	88	84	86	73	72	73	70	67	69	55	50	53
16	86	83	84	73	66	70	70	68	69	56	54	55
17	86	81	84	74	68	71	69	67	69	55	54	55
18	82	79	80	76	66	69	69	67	68	---	---	---
19	80	78	80	67	66	66	68	67	68	---	---	---
20	80	78	79	67	59	64	70	68	69	---	---	---
21	80	79	79	62	58	60	70	68	70	---	---	---
22	80	78	79	64	58	61	70	68	69	---	---	---
23	80	77	79	68	62	65	71	68	70	---	---	---
24	78	77	77	70	68	69	71	69	70	---	---	---
25	79	77	78	70	67	69	71	68	69	---	---	---
26	80	79	79	70	67	68	71	69	70	---	---	---
27	80	79	80	69	67	68	70	69	70	---	---	---
28	80	79	80	69	68	69	70	69	70	---	---	---
29	80	78	79	72	69	71	70	69	69	---	---	---
30	80	77	78	75	72	74	69	68	69	---	---	---
31	79	75	77	---	---	---	69	68	69	---	---	---
MONTH	88	75	81	76	58	69	74	65	70	76	48	60

ST. JOHN RIVER BASIN

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

TEMPERATURE, WATER (DEG. C), WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979

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

ST. JOHN RIVER BASIN

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, 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.--55 years (water years 1904-8, 1930-79), 1,405 ft³/s (39.79 m³/s), 21.91 in/yr (557 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, 13,100 ft³/s (371 m³/s) Apr. 30, gage height, 11.11 ft (3.386 m); minimum discharge, 93 ft³/s (2.63 m³/s) Oct. 10, gage height, 2.12 ft (0.646 m).

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	122	128	150	120	850	655	5890	11600	3610	1540	532	564
2	119	128	150	120	920	640	5700	11000	3840	1610	507	551
3	110	125	160	130	1000	640	5510	10400	3910	1670	507	538
4	110	125	175	150	1050	635	5230	9730	3870	1580	469	507
5	113	122	190	210	1110	635	5000	9070	3770	1500	450	495
6	110	125	185	280	1170	660	4780	8370	3630	1430	438	513
7	110	122	180	380	1160	700	4590	7720	3450	1370	409	1140
8	110	122	180	490	1120	800	4360	7130	3260	1310	403	1200
9	104	122	175	545	1100	910	4090	6560	3040	1250	381	1270
10	98	116	170	560	1050	1120	3920	6030	2880	1180	360	1340
11	96	119	165	560	1020	1500	3780	5550	2720	1120	345	1420
12	98	116	160	540	980	1860	3540	5080	2620	1070	325	1400
13	104	110	160	520	960	1880	3380	4620	2540	1010	335	1390
14	110	119	155	500	930	1800	3310	4220	2400	957	387	1450
15	162	122	150	480	900	1670	3270	3880	2260	933	392	1880
16	155	116	150	470	885	1580	3230	3540	2120	941	398	1860
17	148	113	150	455	860	1500	3240	3240	1990	918	387	1880
18	141	180	145	440	840	1420	3230	2990	1840	872	381	1870
19	141	200	140	430	820	1410	3230	2750	1720	842	387	1830
20	138	188	140	420	800	1400	3240	2530	1610	793	403	1780
21	141	257	135	410	780	1400	3350	2350	1510	754	421	1730
22	138	267	135	400	760	1390	3500	2140	1440	717	438	1630
23	138	210	130	395	745	1390	3640	1970	1410	666	450	1550
24	128	190	130	390	730	1460	3970	1810	1470	639	463	1490
25	131	180	125	385	710	1800	4370	1680	1470	625	564	1420
26	138	170	125	415	700	2900	4980	1750	1460	680	584	1350
27	134	165	125	465	680	5670	6250	1860	1420	632	577	1270
28	138	160	120	540	660	6030	8160	1860	1500	597	604	1200
29	134	155	120	620	---	6230	11600	2050	1570	666	611	1140
30	134	150	120	720	---	6140	12800	2290	1580	597	618	1090
31	138	---	120	800	---	6050	---	3190	---	564	584	---
TOTAL	3891	4522	4615	13340	25290	63875	145140	148960	71910	31033	14110	38748
MEAN	126	151	149	430	903	2060	4838	4805	2397	1001	455	1292
MAX	162	267	190	800	1170	6230	12800	11600	3910	1670	618	1880
MIN	96	110	120	120	660	635	3230	1680	1410	564	325	495
CFSM	.15	.17	.17	.49	1.04	2.37	5.56	5.52	2.75	1.15	.52	1.48
IN.	.17	.19	.20	.57	1.08	2.73	6.20	6.36	3.07	1.33	.60	1.65
CAL YR 1978 TOTAL	421818	MEAN	1156	MAX	8720	MIN 96	CFSM 1.33	IN 18.02				
WTR YR 1979 TOTAL	565434	MEAN	1549	MAX	12800	MIN 96	CFSM 1.78	IN 24.15				

ST. JOHN RIVER BASIN

39

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.

RECORDS AVAILABLE.--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.--53 years, 9,701 ft³/s (275 m³/s), 23.15 in/yr (588 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/s (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)
Mar. 28	2400	57100 1620	16.59 5.057	June 1	1730	51600 1460	15.73 4.795
Apr. 30	0215	*151000 4280	27.31 8.324				

Minimum discharge, 1,320 ft³/s (37.4 m³/s) Oct. 5, gage height, 1.55 ft (0.472 m).

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1400	3280	1740	1400	5300	2420	38800	120000	48600	5800	2380	5000
2	1430	2870	1820	1410	5750	2370	37100	102000	45700	5780	2240	4630
3	1420	2680	1900	1800	6000	2320	35400	86600	35500	6180	2210	4100
4	1370	2500	2000	2250	5900	2300	32400	70000	28200	7030	2280	3580
5	1410	2340	2070	2850	5600	2330	30400	59200	23500	7880	2410	3140
6	1560	2230	2000	4250	5350	2600	27100	50400	20800	7010	2430	2900
7	1520	2130	1980	5800	5000	4500	24500	41900	19600	6020	2360	5740
8	1520	2060	1940	6400	4750	6900	21800	34900	17700	5300	2280	17900
9	1680	1990	1890	6200	4500	11000	19900	30200	15400	4750	2180	19500
10	1790	1910	1850	5750	4250	17000	19000	27800	14200	4330	2170	15200
11	1730	1890	1800	5250	4000	19000	17100	26900	14600	3900	2000	12600
12	1520	1880	1750	4750	3800	18200	16000	24200	14700	3930	1820	12500
13	1530	1730	1700	4350	3600	17000	15200	21200	15900	3720	1780	11800
14	1600	1590	1680	3950	3500	16000	15200	19200	17300	3610	1870	10300
15	2130	1810	1660	3650	3350	14800	16800	17500	15300	3460	1900	16500
16	4980	1730	1620	3400	3250	14000	19100	15800	13000	3560	2110	29800
17	8080	3950	1600	3200	3150	12700	21000	14200	11200	3890	2100	26100
18	6670	4720	1580	3000	3050	12000	22000	12800	9810	4120	1990	19300
19	5260	5850	1560	2900	2950	11300	22000	11600	9760	4610	1970	15200
20	4310	10300	1540	2800	2900	10500	22000	10500	9440	4380	2040	12800
21	3740	8640	1520	2750	2800	10300	22700	9570	8350	3810	2080	11400
22	3400	4740	1500	2700	2750	10400	26200	8890	7370	3340	2220	10300
23	3120	3840	1490	2650	2700	10700	30000	8450	6730	2960	2330	9360
24	2830	3250	1470	2600	2650	12100	34500	8610	6760	2700	2410	8480
25	2550	2700	1450	2580	2620	16200	42400	8100	6780	2530	2790	7680
26	2370	2550	1440	2650	2600	24500	51800	8500	6500	2480	4070	7030
27	2270	2100	1430	2850	2550	37000	72300	13500	6220	2410	6600	6420
28	2220	1700	1420	3200	2470	55200	103000	19900	6180	2420	7920	5920
29	2490	1620	1420	3700	---	54600	137000	20500	6200	2510	6960	5480
30	3630	1650	1410	4000	---	49400	146000	24300	5980	2450	6080	5130
31	3620	---	1400	4650	---	42900	---	32700	---	2470	5340	---
TOTAL	85150	92230	51630	109690	107090	522540	1138700	959920	467280	129340	91320	325790
MEAN	2747	3074	1665	3538	3825	16860	37960	30970	15580	4172	2946	10860
MAX	8080	10300	2070	6400	6000	55200	146000	120000	48600	7880	7920	29800
MIN	1370	1590	1400	1400	2470	2300	15200	8100	5980	2410	1780	2900
CFSM	.48	.54	.29	.62	.67	2.96	6.67	5.44	2.74	.73	.52	1.91
IN.	.56	.60	.34	.72	.70	3.42	7.44	6.28	3.05	.85	.60	2.13

CAL YR 1978	TOTAL	2995704	MEAN	8207	MAX	95700	MIN	758	CFSM	1.44	IN	19.59
WTR YR 1979	TOTAL	4080680	MEAN	11180	MAX	146000	MIN	1370	CFSM	1.97	IN	26.68

ST. JOHN RIVER BASIN

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 September 1979.

WATER TEMPERATURES: November 1978 to September 1979.

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

EXTREMES FOR CURRENT YEAR.--

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

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

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979

DATE	TIME	STREAM- FLOW (CFS)	SPE- CIFIC CON- DUCT- ANCE (MICRO- MHOS)	PH (UNITS)	TEMPER- ATURE, AIR (DEG C)	TEMPER- ATURE (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)
OCT 18...	1415	7640	110	7.0	8.0	5.0	1.0	11.4	90	75	K8
DEC 19...	1600	2250	130	6.6	--	.0	5.0	7.6	53	160	94
JAN 10...	1100	7800	105	7.0	-2.0	.0	3.0	8.0	56	210	55
FEB 28...	1100	3190	125	6.5	.0	.0	3.0	11.6	81	210	77
MAR 13...	1500	23700	80	6.6	6.0	.0	2.0	12.8	89	330	1000
APR 29...	1400	188000	46	6.7	14.5	4.0	35	12.0	93	200	100
MAY 30...	1700	26200	69	6.9	18.0	11.0	2.0	10.0	93	--	71
JUL 11...	0945	4850	98	7.2	31.5	24.0	1.0	6.6	80	220	K13
31...	1030	3870	125	7.3	26.5	24.0	3.0	4.1	49	K130	62
AUG 30...	1015	7700	90	7.3	24.0	19.5	4.0	6.6	73	260	K60
SEP 20...	0930	18300	73	6.9	10.0	12.5	1.0	9.1	87	620	130

DATE	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)	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- LITY (MG/L AS CACO3)	CARBON DIOXIDE DIS- SOLVED (MG/L AS CO2)
OCT 18...	41	7	13	2.0	2.5	12	.2	--	.6	34	--
DEC 19...	50	27	14	3.6	3.6	13	.2	--	.9	23	--
JAN 10...	--	--	--	--	--	--	--	--	--	19	--
FEB 28...	50	21	14	3.7	3.5	13	.2	--	.6	29	--
MAR 13...	30	11	9.3	1.6	1.8	11	.1	--	.3	19	--
APR 29...	19	4	6.1	.8	.9	9	.1	--	.4	15	--
MAY 30...	30	14	9.7	1.4	1.6	10	.1	1.9	.3	16	--
JUL 11...	40	14	12	2.4	2.0	10	.1	2.5	.5	26	3.2
31...	56	26	15	4.6	2.6	9	.2	3.2	.6	30	2.9
AUG 30...	38	11	12	1.9	2.4	12	.2	2.9	.5	27	2.6
SEP 20...	32	14	10	1.6	1.6	10	.1	2.0	.4	18	4.4

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979

DATE	NITRO- GEN, AMMONIA TOTAL (MG/L AS NH ₄)	NITRO- GEN, ORGANIC TOTAL (MG/L AS N)	NITRO- GEN,AM- MONIA + ORGANIC 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 NO ₃)	PHOS- PHORUS, TOTAL (MG/L AS P)	PHOS- PHATE, TOTAL (MG/L AS P ₀₄)	PHOS- PHORUS TOTAL (MG/L AS P ₀₄)	PHOS- PHORUS, DIS- SOLVED (MG/L AS P)
OCT 18...	--	.38	.38	.27	.42	--	1.9	.02	.06	--	.00
DEC 19...	--	.51	.52	.50	.68	--	3.0	.02	.06	--	.00
JAN 10...	--	--	--	--	--	--	--	.01	.03	--	.01
FEB 28...	--	--	--	--	--	--	--	.01	.03	--	.00
MAR 13...	--	.58	.58	.43	.93	--	4.1	.01	.03	--	.00
APR 29...	.02	.45	.47	.59	.61	--	2.7	.07	.21	.21	.01
MAY 30...	.00	.35	.35	.32	.44	--	1.9	.02	.06	.06	.02
JUL 11...	.05	.22	.26	.28	.30	--	1.3	.02	.06	.06	.01
31...	.04	.40	.43	.31	.47	--	2.1	.03	.09	.09	.01
AUG 30...	.04	.28	.31	.39	.36	--	1.6	.02	.06	.06	.00
SEP 20...	.04	.63	.66	.59	.82	.78	3.6	.01	--	.03	.01

[illegible]

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

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979

DATE	COBALT, TOTAL RECOV- ERABLE (UG/L AS CO)	COBALT, SUS- PENDE RECOV- ERABLE (UG/L AS CO)	COBALT, DIS- SOLVED (UG/L AS CO)	COPPER, TOTAL RECOV- ERABLE (UG/L AS CU)	COPPER, SUS- PENDE RECOV- ERABLE (UG/L AS CU)	COPPER, DIS- SOLVED (UG/L AS CU)	IRON, TOTAL RECOV- ERABLE (UG/L AS FE)	IRON, SUS- PENDE RECOV- ERABLE (UG/L AS FE)	IRON, DIS- SOLVED (UG/L AS FE)	LEAD, TOTAL RECOV- ERABLE (UG/L AS PB)	LEAD, SUS- PENDE RECOV- ERABLE (UG/L AS PB)
OCT 18...	--	--	--	--	--	--	--	--	--	--	--
DEC 19...	0	0	0	3	0	3	290	80	210	6	0
JAN 10...	--	--	--	--	--	--	--	--	--	--	--
FEB 28...	1	1	0	3	0	3	250	70	180	13	12
MAR 13...	--	--	--	--	--	--	--	--	--	--	--
APR 29...	--	--	--	--	--	--	--	--	--	--	--
MAY 30...	0	0	0	6	5	1	470	380	90	15	15
JUL 11...	--	--	--	--	--	--	--	--	--	--	--
31...	--	--	--	--	--	--	--	--	--	--	--
AUG 30...	1	0	1	18	12	6	550	430	120	14	9
SEP 20...	--	--	--	--	--	--	--	--	--	--	--

DATE	LEAD, DIS- SOLVED (UG/L AS PB)	MANGA- NESE, TOTAL RECOV- ERABLE (UG/L AS MN)	MANGA- NESE, SUS- PENDE RECOV- ERABLE (UG/L AS MN)	MANGA- NESE, 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)	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 18...	--	--	--	--	--	--	--	--	--	--	--
DEC 19...	6	60	10	50	.7	.2	<.5	0	0	0	0
JAN 10...	--	--	--	--	--	--	--	--	--	--	--
FEB 28...	1	30	0	50	<.5	.0	<.5	0	0	0	0
MAR 13...	--	--	--	--	--	--	--	--	--	--	--
APR 29...	--	--	--	--	--	--	--	--	--	--	--
MAY 30...	0	30	20	10	<.5	.0	<.5	0	0	0	0
JUL 11...	--	--	--	--	--	--	--	--	--	--	--
31...	--	--	--	--	--	--	--	--	--	--	--
AUG 30...	5	40	10	30	<.5	<.0	<.5	0	0	0	0
SEP 20...	--	--	--	--	--	--	--	--	--	--	--

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 TOTAL (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 18...	--	--	--	--	--	24	--	--	9	186	100
DEC 19...	0	0	30	--	--	--	39	--	8	49	100
JAN 10...	--	--	--	--	--	19	--	--	6	126	100
FEB 28...	0	0	20	10	10	--	150	.1	47	405	68
MAR 13...	--	--	--	--	--	13	--	--	17	1090	100
APR 29...	--	--	--	--	--	9.0	--	--	277	141000	42
MAY 30...	0	0	20	20	3	--	18	.4	11	778	100
JUL 11...	--	--	--	--	--	8.2	--	--	8	105	100
31...	--	--	--	--	--	15	--	--	16	167	100
AUG 30...	0	0	10	10	0	--	55	.5	20	416	81
SEP 20...	--	--	--	--	--	23	--	--	5	247	100

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

PHYTOPLANKTON ANALYSES, OCTOBER 1978 TO JULY 1979

DATE TIME	DEC 19,78 1600	MAR 13,79 1500	MAY 30,79 1700	JUL 11,79 0945	JUL 31,79 1030					
TOTAL CELLS/ML	120	300	1500	4000	4900					
DIVERSITY: DIVISION	0.0	1.1	0.6	1.3	0.9					
..CLASS	0.0	1.1	0.6	1.3	0.9					
...ORDER	0.0	1.1	0.7	1.4	1.6					
...FAMILY	0.0	1.4	0.8	1.9	1.8					
....GENUS	0.0	1.4	0.8	2.6	2.0					
ORGANISM	CELLS /ML	PER- CENT	CELLS /ML	PER- CENT	CELLS /ML	PER- CENT	CELLS /ML	PER- CENT	CELLS /ML	PER- CENT
CHLOROPHYTA (GREEN ALGAE)										
..CHLOROPHYCEAE										
...CHLOROCOCCALES										
....CHLOROCOCCACEAE										
....CHLOROCOCCUM	--	-	--	-	--	-	31	1	--	-
...OOCYSTACEAE										
....ANKISTRODESMUS	--	-	--	-	--	-	73	2	150	3
....CHLORELLA	--	-	--	-	--	-	31	1	--	-
....CHODATELLA	--	-	--	-	--	-	*	0	--	-
...OOCYSTIS	--	-	58#	19	--	-	42	1	--	-
....SELENASTRUM	--	-	--	-	--	-	--	-	*	0
...SCENEDESMACEAE										
....CRUCIGENIA	--	-	--	-	--	-	--	-	460	9
....SCENEDESMUS	--	-	29	10	52	4	190	5	230	5
....TETRASTRUM	--	-	--	-	--	-	42	1	--	-
..TETRASPORALES										
...PALMELLACEAE										
....SPHAEROCYSTIS	--	-	--	-	--	-	--	-	100	2
..VOLVOCALES										
...CHLAMYDOMONADACEAE										
....CHLAMYDOMONAS	--	-	--	-	39	3	--	-	--	-
..ZYGNEMATALES										
...DESMIDIACEAE										
....COSMARIUM	--	-	--	-	--	-	21	1	--	-
CHRYSOPHYTA										
..BACILLARIOPHYCEAE										
...CENTRALES										
...COSCINODISCAEAE										
....CYCLOTELLA	--	-	--	-	--	-	42	1	--	-
...PENNALES										
....ACHNANTHACEAE										
....ACHNANTHES	--	-	--	-	13	1	150	4	26	1
...CYMBELLACEAE										
....CYMBELLA	--	-	--	-	--	-	21	1	--	-
...DIATOMACEAE										
....DIATOMA	--	-	--	-	--	-	21	1	--	-
...FRAGILARIACEAE										
....ASTERIONELLA	--	-	--	-	--	-	21	1	26	1
....FRAGILARIA	--	-	--	-	--	-	84	2	--	-
....SYNEDRA	--	-	--	-	--	-	340	8	39	1
...GOMPHONEMATAEAE										
....GOMPHONEMA	--	-	--	-	--	-	63	2	--	-
...NAVICULACEAE										
....NAVICULA	--	-	--	-	--	-	21	1	--	-
...NITZSCHACEAE										
....NITZSCHIA	--	-	--	-	39	3	21	1	*	0
...CHRYSOPHYCEAE										
..CHRYSONOMADALES										
...OCHROMONADACEAE										
....DINOBRYON	--	-	--	-	--	-	*	0	--	-
CYANOPHYTA (BLUE-GREEN ALGAE)										
..CYANOPHYCEAE										
...CHROOCOCCALES										
....CHROOCOCCACEAE										
....AGMENELLUM	--	-	200#	67	--	-	--	-	--	-
....ANACYSTIS	--	-	--	-	26	2	--	-	2700#	55
...HORMOGONALES										
...OSCILLATORIACEAE										
....OSCILLATORIA	120#	100	--	-	1300#	88	600	15	1200#	24
....SCHIZOTHRIX	--	-	--	-	--	-	2100#	53	--	-
EUGLENOPHYTA (EUGLENOIDS)										
..EUGLENOPHYCEAE										
...EUGLENALES										
...EUGLENACEAE										
....EUTREPTIA	--	-	--	-	--	-	42	1	--	-
....PHACUS	--	-	--	-	--	-	*	0	--	-
PYRRHOPHYTA (FIRE ALGAE)										
..DINOPHYCEAE										
...PERIDINIALES										
...GLENODINIACEAE										
....GLENODINIUM	--	-	--	-	--	-	*	0	--	-
...PERIDINIACEAE										
....PERIDINIUM	--	-	14	5	--	-	--	-	--	-

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

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

ST. JOHN RIVER BASIN

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

PHYTOPLANKTON ANALYSES, AUGUST 1979 TO SEPTEMBER 1979

DATE TIME	AUG 30,79 1018	SEP 20,79 0930
TOTAL CELLS/ML	7700	3400
DIVERSITY: DIVISION	1.3	0.8
..CLASS	1.3	0.8
..ORDER	1.9	0.8
...FAMILY	2.3	1.0
....GENUS	2.5	0.0

ORGANISM	CELLS /ML	PER- CENT	CELLS /ML	PER- CENT
CHLOROPHYTA (GREEN ALGAE)				
..CHLOROPHYCEAE				
...CHLOROCOCCALES				
....UOCYSTACEAE				
....ANKISTRODESMS	260	3	*	0
....DICTYOSPHAERIUM	230	3	--	-
...SCENEDESMACEAE				
....SCENEDESMUS	510	7	--	-
..TETRASPOALES				
...PALMELLACEAE				
....SPHAEROCYSTIS	2600#	34	--	-
..VOLVOCALES				
...CHLAMYDOMONADACEAE				
....CHLAMYDOMONAS	*	0	--	-
CHRYSTOPHYTA				
..BACILLARIOPHYCEAE				
...CENTRALES				
...COSCINODISCACEAE				
....CYCLOTELLA	*	0	--	-
..PENNALES				
....ACHNANTHACEAE				
....ACHNANTHES	98	1	--	-
...CYMBELLACEAE				
....CYMBELLA	*	0	--	-
...FRAGILARIACEAE				
....SYNEDRA	160	2	--	-
...NAVICULACEAE				
....NAVICULA	120	2	--	-
...NITZSCHACEAE				
....NITZSCHIA	*	0	--	-
...TABELLARIACEAE				
....TABELLARIA	*	0	--	-
..CHRYSTOPHYCEAE				
...CHRYSOMONADALES				
...MALLOMONADACEAE				
....CHRYSOSPHAERELLA	--	-	720#	21
CYANOPHYTA (BLUE-GREEN ALGAE)				
..CYANOPHYCEAE				
...CHROOCOCCALES				
...CHROOCOCCACEAE				
....ANACYSTIS	320	4	--	-
...HORMOGONALES				
...NOSTOCACEAE				
....ANABAENA	73	1	--	-
....APHANIZUMENON	--	-	130	4
...OSCILLATORIA	--	-	170	5
...OSCILLATORIA	3000#	39	2100#	61
....PHORMIDIUM	--	-	290	8
....SCHIZOTHRIX	170	2	--	-

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

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

BIOLOGICAL DATA, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979

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
AUG 30 TO SEP 20	21	1.26	1.10	9.39	2.11	17.0

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

SPECIFIC CONDUCTANCE (MICROMHOS/CM AT 25 DEG. C). WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
OCTOBER			NOVEMBER			DECEMBER			JANUARY			
1	---	---	---	---	---	---	119	110	113	131	127	128
2	---	---	---	---	---	---	127	115	119	130	127	129
3	---	---	---	110	98	103	129	123	127	131	116	125
4	---	---	---	98	93	95	131	120	124	128	116	122
5	---	---	---	105	98	102	129	118	122	128	121	126
6	---	---	---	114	104	109	126	117	122	120	112	117
7	---	---	---	116	109	112	127	115	118	111	99	104
8	---	---	---	115	113	114	130	118	126	98	92	95
9	---	---	---	116	112	114	121	115	117	92	90	91
10	---	---	---	119	110	113	124	120	122	90	87	89
11	---	---	---	120	118	119	121	119	120	89	87	88
12	---	---	---	126	118	122	119	117	118	88	86	87
13	---	---	---	125	119	122	119	114	117	88	87	88
14	---	---	---	120	112	116	123	112	115	88	86	87
15	---	---	---	132	116	124	126	120	124	88	85	86
16	---	---	---	132	126	129	120	114	117	90	87	89
17	---	---	---	133	123	127	126	120	123	92	88	90
18	---	---	---	135	130	132	126	117	120	92	88	90
19	---	---	---	134	101	116	129	126	127	94	88	91
20	---	---	---	100	93	97	127	123	125	94	91	92
21	---	---	---	92	86	88	133	124	129	96	91	93
22	---	---	---	89	87	89	133	131	132	96	93	95
23	---	---	---	91	88	89	139	132	135	94	92	93
24	---	---	---	93	86	89	138	132	135	94	92	93
25	---	---	---	95	91	92	136	132	133	99	93	95
26	---	---	---	100	96	98	135	127	133	103	97	100
27	---	---	---	105	96	101	127	122	125	105	100	102
28	---	---	---	101	95	97	125	106	115	112	105	108
29	---	---	---	114	101	107	107	100	103	112	110	111
30	---	---	---	114	110	112	124	107	115	122	111	116
31	---	---	---	---	---	---	129	123	126	127	121	124
MONTH				135	86	108	139	100	122	131	85	101
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
FEBRUARY			MARCH			APRIL			MAY			
1	129	126	128	128	126	127	52	48	50	47	42	45
2	125	101	116	129	127	128	79	52	62	51	46	49
3	99	83	89	131	130	130	91	76	85	54	50	52
4	83	78	81	135	132	133	94	80	85	57	53	55
5	78	76	77	136	134	135	96	91	93	59	56	58
6	78	76	77	138	135	136	122	97	113	62	59	60
7	77	77	77	140	138	139	126	110	121	64	61	63
8	80	77	79	139	106	127	111	81	93	67	64	65
9	82	78	80	105	54	76	82	76	77	70	68	69
10	87	81	84	53	39	42	80	76	78	71	69	70
11	91	88	90	42	41	42	79	73	75	71	69	70
12	91	89	90	47	42	44	79	74	77	73	70	71
13	93	90	91	53	47	50	83	77	80	78	73	76
14	92	89	91	59	54	56	86	83	84	81	78	79
15	96	91	93	61	59	60	85	79	81	83	80	82
16	99	95	97	62	60	61	81	73	77	87	82	85
17	100	95	98	65	63	64	77	73	75	91	86	88
18	100	97	99	67	65	66	76	73	74	99	91	94
19	102	100	101	69	67	68	80	73	77	111	99	106
20	106	103	105	72	70	71	76	74	75	116	112	114
21	110	106	108	73	71	72	75	73	74	120	115	118
22	111	109	110	76	73	75	74	70	72	118	106	110
23	113	111	113	77	74	76	72	70	71	112	105	108
24	116	112	115	74	67	70	70	67	69	112	109	111
25	120	116	118	67	60	64	67	63	65	110	102	106
26	122	119	121	61	45	56	64	60	63	102	98	100
27	125	122	123	49	41	45	61	53	57	98	88	94
28	126	125	125	51	41	46	52	43	48	87	71	78
29	---	---	---	49	43	45	46	42	44	71	68	69
30	---	---	---	47	43	44	42	39	40	74	67	70
31	---	---	---	47	44	46	---	---	---	70	63	67
MONTH	129	76	99	140	39	77	126	39	75	120	42	80

ST. JOHN RIVER BASIN

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

SPECIFIC CONDUCTANCE (MICROMHOS/CM AT 25 DEG. C), WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
	JUNE			JULY			AUGUST			SEPTEMBER		
1	63	58	60	89	83	86	124	111	115	90	84	86
2	61	56	58	88	81	85	120	113	116	93	87	89
3	65	61	63	80	76	78	115	107	112	98	88	91
4	72	64	68	81	76	79	123	110	115	99	93	97
5	76	71	73	81	78	80	116	101	107	98	87	93
6	76	74	74	79	74	76	115	106	109	91	85	87
7	78	76	77	87	79	83	122	114	117	95	91	92
8	78	74	76	92	85	88	125	109	115	91	79	85
9	80	77	79	95	91	93	119	112	115	78	71	74
10	79	76	77	94	89	92	124	108	116	73	70	71
11	81	78	80	102	95	98	114	107	111	73	71	72
12	83	80	82	104	95	99	121	114	118	81	72	76
13	84	80	82	102	94	98	124	109	116	81	78	79
14	81	78	80	100	92	95	117	109	112	82	78	80
15	87	81	83	107	87	97	120	113	115	82	76	79
16	93	86	89	95	85	91	126	120	123	76	63	69
17	101	93	98	93	86	89	122	118	120	66	63	64
18	100	90	95	92	86	89	126	113	118	71	65	68
19	91	87	90	94	87	89	122	114	118	73	70	72
20	89	86	87	93	83	87	119	106	113	81	73	77
21	88	86	87	85	81	82	125	116	119	87	82	85
22	88	86	87	90	84	87	118	110	113	87	83	84
23	88	86	87	91	87	89	114	110	113	89	87	88
24	87	84	86	95	89	92	120	114	116	92	89	91
25	87	83	85	101	92	98	120	115	118	93	92	92
26	87	85	86	103	94	98	118	102	111	93	90	91
27	89	85	86	118	101	109	106	102	103	95	93	94
28	88	85	87	119	110	113	107	92	98	98	95	96
29	92	88	90	117	103	110	91	82	85	101	98	100
30	90	85	87	117	105	111	89	85	87	100	98	99
31	---	---	---	125	116	122	87	80	83	---	---	---
MONTH	101	56	81	125	74	93	126	80	111	101	63	84

TEMPERATURE, WATER (DEG. C), WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
	OCTOBER			NOVEMBER			DECEMBER			JANUARY		
1	---	---	---	---	---	---	.0	.0	.0	.0	.0	.0
2	---	---	---	---	---	---	.0	.0	.0	.0	.0	.0
3	---	---	---	4.0	3.5	3.5	.0	.0	.0	.0	.0	.0
4	---	---	---	4.0	3.5	3.5	.0	.0	.0	.0	.0	.0
5	---	---	---	4.5	4.0	4.0	.0	.0	.0	.0	.0	.0
6	---	---	---	5.0	4.0	4.5	.0	.0	.0	.0	.0	.0
7	---	---	---	5.0	4.5	5.0	.0	.0	.0	.0	.0	.0
8	---	---	---	5.0	4.5	5.0	.0	.0	.0	.0	.0	.0
9	---	---	---	5.0	4.5	4.5	.0	.0	.0	.0	.0	.0
10	---	---	---	5.0	4.5	4.5	.0	.0	.0	.0	.0	.0
11	---	---	---	4.5	4.0	4.0	.0	.0	.0	.0	.0	.0
12	---	---	---	4.0	3.0	3.5	.0	.0	.0	.0	.0	.0
13	---	---	---	3.0	2.5	3.0	.0	.0	.0	.0	.0	.0
14	---	---	---	2.5	2.0	2.0	.0	.0	.0	.0	.0	.0
15	---	---	---	2.0	1.0	1.5	.0	.0	.0	.0	.0	.0
16	---	---	---	1.0	.5	1.0	.0	.0	.0	.0	.0	.0
17	---	---	---	.5	.0	.0	.0	.0	.0	.0	.0	.0
18	---	---	---	.5	.0	.5	.0	.0	.0	.0	.0	.0
19	---	---	---	.0	.0	.0	.0	.0	.0	.0	.0	.0
20	---	---	---	.0	.0	.0	.0	.0	.0	.0	.0	.0
21	---	---	---	.0	.0	.0	.0	.0	.0	.0	.0	.0
22	---	---	---	.0	.0	.0	.0	.0	.0	.0	.0	.0
23	---	---	---	.0	.0	.0	.0	.0	.0	.0	.0	.0
24	---	---	---	.0	.0	.0	.0	.0	.0	.0	.0	.0
25	---	---	---	.0	.0	.0	.0	.0	.0	.0	.0	.0
26	---	---	---	.0	.0	.0	.0	.0	.0	.0	.0	.0
27	---	---	---	.0	.0	.0	.0	.0	.0	.0	.0	.0
28	---	---	---	.0	.0	.0	.0	.0	.0	.0	.0	.0
29	---	---	---	.0	.0	.0	.0	.0	.0	.0	.0	.0
30	---	---	---	.0	.0	.0	.0	.0	.0	.0	.0	.0
31	---	---	---	---	---	---	.0	.0	.0	.0	.0	.0
MONTH				5.0	.0	2.0	.0	.0	.0	.0	.0	.0

ST. JOHN RIVER BASIN

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 miles (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.--22 years, 1,527 ft³/s (43.24 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, 20,400 ft³/s (578 m³/s) Apr. 30, gage height, 16.76 ft (5.108 m); minimum discharge, 128 ft³/s (3.625 m³/s) Aug. 12, 13, gage height, 2.80 ft (0.853 m).

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	148	417	240	320	3100	660	8160	18500	8470	529	177	450
2	152	380	240	330	4000	660	6950	15600	7620	557	166	363
3	162	352	250	340	4350	645	6160	13300	6170	735	158	305
4	158	323	265	425	4400	630	5470	10700	5130	837	153	264
5	150	299	270	600	4000	630	5010	8430	4130	728	152	235
6	152	283	270	900	3600	670	4550	6920	3260	603	176	223
7	158	276	265	1300	3200	770	4030	5660	2650	512	199	1000
8	164	272	285	1700	2750	950	3590	4450	2180	446	193	2630
9	167	265	475	1850	2400	1500	3230	3510	1840	394	180	2390
10	165	256	550	1750	2050	2500	3050	3100	1650	355	157	1780
11	160	246	525	1600	1850	4500	3070	2750	1510	337	146	1370
12	151	237	500	1480	1700	5000	3000	2400	1430	335	135	1100
13	147	208	475	1360	1550	4100	2830	2090	1730	335	140	885
14	168	211	465	1250	1400	3250	2980	1880	1750	313	289	748
15	326	305	450	1150	1250	2700	3380	1740	1490	289	516	897
16	674	366	440	1050	1150	2300	3590	1640	1260	274	499	1270
17	712	338	425	960	1050	1950	3820	1540	1080	284	411	1180
18	583	472	420	900	990	1700	3830	1400	1010	284	323	986
19	475	778	400	850	900	1600	3760	1250	983	265	272	843
20	408	926	390	800	850	1450	3660	1130	885	242	256	829
21	363	703	385	770	800	1420	4040	1030	782	221	291	774
22	328	600	380	740	770	1400	4750	986	716	206	478	699
23	301	475	370	720	740	1420	5340	949	753	189	593	636
24	275	400	365	710	710	1600	6330	860	846	178	500	566
25	253	345	360	710	685	2500	7230	865	955	168	416	500
26	238	310	350	730	670	6950	8060	1810	864	147	440	447
27	260	280	345	800	650	12000	9950	3510	749	140	524	400
28	448	255	340	980	650	15700	13200	3970	682	161	638	358
29	575	250	335	1250	---	14200	17700	3640	637	177	753	326
30	542	240	330	1700	---	11600	20200	3970	575	177	669	307
31	478	---	325	2300	---	9260	---	5830	---	183	552	---
TOTAL	9441	11068	11485	32325	52215	116215	180920	135410	63787	10601	10552	24761
MEAN	305	369	370	1043	1865	3749	6031	4368	2126	342	340	825
MAX	712	926	550	2300	4400	15700	20200	18500	8470	837	753	2630
MIN	147	208	240	320	650	630	2830	860	575	140	135	223
CAL YR 1978	TOTAL	433410	MEAN	1187	MAX	10800	MIN	112				
WTR YR 1979	TOTAL	658780	MEAN	1805	MAX	20200	MIN	135				

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.--28 years, 576 ft³/s (16.31 m³/s), 23.70 in/yr (602 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)
Mar. 27	1800	5670 161	6.01 1.832	June 1	2000	4260 121	5.13 1.564
Apr. 30	--	*8500 240	a*8.60 2.621				

a Backwater from Aroostook River.

Minimum discharge not determined, occurred during period of backwater from ice; minimum daily, 48 ft³/s (1.36 m³/s) Dec. 31, Jan. 1..

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	66	136	85	48	1200	215	2350	7200	4090	248	98	215
2	67	130	88	51	1500	210	2180	5900	3900	284	108	190
3	65	125	94	65	1700	205	1990	4680	2970	310	114	175
4	61	117	99	120	1600	200	1910	3750	2170	286	139	165
5	60	111	100	200	1450	200	1680	2930	1610	246	139	330
6	60	105	98	325	1250	210	1460	2350	1250	218	147	600
7	62	100	94	500	1060	235	1300	1890	1030	196	144	1100
8	63	99	89	650	900	290	1160	1520	839	177	134	1500
9	64	96	86	700	790	600	1020	1260	698	160	127	1200
10	59	93	81	680	690	1000	955	1110	635	144	116	900
11	54	91	78	620	610	1800	916	990	577	131	106	700
12	52	90	74	560	545	1500	838	866	576	162	96	550
13	55	94	70	490	495	1200	782	751	634	184	126	450
14	75	105	68	425	450	930	868	669	562	158	247	390
15	183	110	66	370	405	780	1000	599	486	136	272	650
16	238	113	64	335	370	675	1090	542	424	129	246	1050
17	198	98	61	305	340	590	1180	495	369	138	218	930
18	176	171	60	285	310	535	1190	444	371	138	190	800
19	164	266	58	260	285	495	1180	402	422	129	171	639
20	154	265	57	245	260	470	1170	369	425	117	176	547
21	144	197	55	230	245	450	1320	341	381	107	248	478
22	135	170	53	215	235	440	1570	334	342	98	395	432
23	125	145	52	200	225	450	1800	319	356	90	357	394
24	117	130	52	195	220	550	2190	289	557	82	275	355
25	110	115	51	190	210	800	2620	293	523	76	264	325
26	105	105	50	200	205	2500	3130	595	403	72	363	301
27	117	96	50	230	200	5330	4340	1100	336	93	410	283
28	151	90	49	290	210	5350	5500	1270	312	102	450	261
29	157	87	49	420	---	4650	7500	1410	287	112	370	245
30	151	85	49	570	---	3590	8300	1710	260	112	300	229
31	142	---	48	850	---	2810	---	2960	---	103	250	---
TOTAL	3430	3735	2128	10824	17960	39260	64489	49338	27795	4738	6796	16384
MEAN	111	125	68.6	349	641	1266	2150	1592	927	153	219	546
MAX	238	266	100	850	1700	5350	8300	7200	4090	310	450	1500
MIN	52	85	48	48	200	200	782	289	260	72	96	165
CFSM	.34	.38	.21	1.06	1.94	3.84	6.52	4.82	2.81	.46	.66	1.66
IN.	.39	.42	.24	1.22	2.02	4.43	7.27	5.56	3.13	.53	.77	1.85

CAL YR 1978	TOTAL	161701	MEAN 443	MAX	4730	MIN 47	CFSM 1.34	IN 18.23
WTR YR 1979	TOTAL	246877	MEAN 676	MAX	8300	MIN 48	CFSM 2.05	IN 27.83

ST. JOHN RIVER BASIN

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 2.00 ft (0.610 m) higher.

REMARKS.--Records good except those for winter period and period of no gage-height record, May 23 to June 26, 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.--49 years, 2,662 ft³/s (75.39 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, 37,700 ft³/s (1,070 m³/s) Apr. 30, gage height, 13.17 ft (4.014 m); minimum daily discharge, 264 ft³/s (7.48 m³/s) Aug. 12.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	305	667	470	640	4500	1690	12600	33200	16000	1220	346	925
2	330	602	470	660	6400	1700	11500	26900	14000	1240	333	802
3	360	553	480	750	8000	1650	10300	21900	12000	1350	328	669
4	370	523	495	900	8200	1630	9170	17700	9500	1460	351	568
5	360	482	500	1200	7300	1630	8550	13800	7700	1320	359	496
6	365	460	505	1600	6500	1700	7680	11500	6200	1110	368	495
7	385	456	500	2150	5600	1850	7030	9300	5000	945	394	2740
8	410	456	560	3000	5200	2400	6280	7470	4000	841	394	5650
9	450	456	720	3400	4700	3200	5630	5970	3300	767	362	5300
10	465	456	930	3250	4250	5000	5470	5360	3100	672	326	4020
11	470	453	1000	2950	3900	7500	5410	4790	2900	601	293	3000
12	444	449	1030	2700	3600	9000	5260	4070	2700	584	264	2370
13	438	468	990	2500	3300	7400	5030	3500	3150	681	299	1910
14	454	451	960	2300	3050	6100	5380	3260	3250	686	580	1610
15	579	425	930	2100	2850	5100	6080	3010	3000	613	1170	2350
16	978	471	900	1950	2650	4500	6490	2780	2500	561	1140	3040
17	1260	491	880	1850	2450	3900	6880	2590	2150	560	943	2870
18	1090	665	850	1750	2300	3450	6850	2350	2000	562	788	2390
19	850	1110	830	1600	2200	3150	6740	1970	1900	531	636	1940
20	743	1370	810	1550	2050	2950	6540	1710	1750	483	582	1720
21	664	1080	790	1480	1980	2750	7070	1640	1600	509	714	1570
22	593	980	770	1430	1900	2750	8220	1620	1400	422	950	1430
23	538	870	750	1400	1800	2900	9180	1600	1400	368	1220	1310
24	487	770	725	1390	1750	4000	10600	1600	1600	338	1070	1180
25	461	690	710	1400	1700	6000	12000	1600	1800	313	987	1050
26	456	625	695	1430	1680	13000	13200	2800	1950	291	1170	942
27	456	570	680	1500	1650	21000	16400	6000	1660	299	1240	865
28	487	525	665	1680	1680	24600	22200	7200	1420	290	1300	816
29	735	490	655	1900	---	23200	30700	6800	1310	318	1400	752
30	792	480	650	2200	---	19700	37100	7200	1270	354	1330	693
31	738	---	640	3000	---	15400	---	10500	---	342	1110	---
TOTAL	17513	18544	22540	57610	103140	210800	311540	231690	121510	20631	22747	55473
MEAN	565	618	727	1858	3684	6800	10380	7474	4050	666	734	1849
MAX	1260	1370	1030	3400	8200	24600	37100	33200	16000	1460	1400	5650
MIN	305	425	470	640	1650	1630	5030	1600	1270	290	264	495
CAL YR 1978 TOTAL	785820	MEAN	2153	MAX	18900	MIN	210					
WTR YR 1979 TOTAL	1193738	MEAN	3271	MAX	37100	MIN	264					

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, 138 micromhos Jan. 2; minimum, 35 micromhos May 2.

WATER TEMPERATURES: Maximum, 27.0°C July 30, 31; minimum, 0.0°C on many days during winter periods.

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979

DATE	TIME	STREAM- FLOW (CFS)	SPE- CIFIC CON- DUCT- ANCE (MICRO- MHOS)	PH (UNITS)	TEMPER- ATURE AIR (DEG C)	TEMPER- ATURE (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)
OCT 19...	0830	1000	100	7.1	4.0	4.5	4.0	12.0	94	440	120
DEC 19...	1245	976	100	6.8	--	.0	1.0	8.2	57	190	190
JAN 09...	1500	4000	100	6.8	-2.0	.0	3.0	8.0	56	900	270
FEB 27...	1630	1940	92	6.7	3.5	.0	1.0	11.2	78	280	300
MAR 14...	1015	7170	78	6.5	3.0	.0	4.0	12.6	88	160	>2000
APR 29...	1715	36100	42	6.4	15.0	6.0	10	11.0	89	260	>500
MAY 30...	1430	8470	59	6.7	7.5	11.5	2.0	10.5	98	--	K4200
JUL 10...	1900	790	95	7.7	29.0	24.5	3.0	7.4	90	K75	71
30...	1500	416	120	8.7	26.0	27.0	1.0	9.7	123	9	11
AUG 29...	1530	1650	85	7.5	23.0	19.5	2.0	8.4	92	K300	20
SEP 19...	1415	2280	75	6.8	11.0	16.0	1.0	8.3	86	260	K70

DATE	HARD- NESS (MG/L AS CAC03)	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)	CARBON DIOXIDE DIS- SOLVED (MG/L AS CO2)
OCT 19...	39	3	12	2.2	2.4	11	.2	--	1.4	36	--
DEC 19...	36	5	11	2.0	2.2	11	.2	--	1.0	31	--
JAN 09...	35	12	10	2.5	2.1	11	.2	--	.8	23	--
FEB 27...	35	12	11	1.8	1.9	10	.1	--	.6	23	--
MAR 14...	28	9	8.6	1.5	1.5	10	.1	--	.4	19	--
APR 29...	17	0	5.2	.9	.9	10	.1	--	.4	17	--
MAY 30...	22	5	7.0	1.2	1.5	12	.1	2.0	.5	17	--
JUL 10...	41	12	13	2.0	1.7	8	.1	2.1	.4	29	1.1
30...	53	6	17	2.5	2.4	9	.1	3.1	.7	47	.2
AUG 29...	39	12	12	2.1	2.1	10	.1	2.6	.5	27	1.7
SEP 19...	32	8	10	1.8	1.7	10	.1	2.3	.6	24	--

01017100 AROOSTOOK RIVER AT CARIBOU, ME--Continued

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979

DATE	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)	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)
OCT 19...	7.4	2.4	.0	3.9	69	53	.09	186	.12	--	.04
DEC 19...	7.6	2.3	--	--	--	--	--	--	.26	--	.11
JAN 09...	8.6	3.3	.0	5.8	68	47	.09	734	.62	--	.00
FEB 27...	8.2	2.0	.0	5.0	54	44	.07	283	.32	--	.04
MAR 14...	7.4	2.6	.1	4.8	58	38	.08	1120	.32	--	.02
APR 29...	3.3	1.0	.1	3.3	39	25	.05	3800	.12	--	.01
MAY 30...	4.8	1.1	.0	3.5	58	30	.08	1330	.09	--	.03
JUL 10...	5.4	2.3	.0	1.9	74	44	.10	158	.19	--	.05
30...	7.3	3.1	.0	1.6	70	63	.10	78.6	.03	--	.10
AUG 29...	6.2	2.3	.0	4.0	72	46	.10	321	.11	--	.02
SEP 19...	5.5	1.9	.0	4.5	68	41	.09	419	.11	.12	.03

DATE	NITRO- GEN, AMMONIA TOTAL (MG/L AS NH4)	NITRO- GEN, ORGANIC TOTAL (MG/L AS N)	NITRO- GEN,AM- MONIA + ORGANIC 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 N03)	PHOS- PHORUS, TOTAL (MG/L AS P)	PHOS- PHATE, TOTAL (MG/L AS P04)	PHOS- PHORUS TOTAL (MG/L AS P04)	PHOS- PHORUS, DIS- SOLVED (MG/L AS P)
OCT 19...	--	.56	.60	.32	.72	--	3.2	.13	.40	--	.04
DEC 19...	--	.12	.23	.16	.49	--	2.2	.08	.25	--	.06
JAN 09...	--	.97	.97	.42	1.6	--	7.0	.15	.46	--	.03
FEB 27...	--	.03	.07	.12	.39	--	1.7	.04	.12	--	.03
MAR 14...	--	.51	.53	.23	.85	--	3.8	.06	.18	--	.02
APR 29...	.01	.50	.51	.37	.63	--	2.8	.05	.15	.15	.01
MAY 30...	.04	.43	.46	.45	.55	--	2.4	.07	.21	.21	.02
JUL 10...	.06	.27	.32	.27	.51	--	2.3	.03	.09	.09	.02
30...	.12	.42	.52	.30	.55	--	2.4	.03	.09	.09	.01
AUG 29...	.02	.43	.45	.21	.56	--	2.5	.02	.06	.06	.01
SEP 19...	.04	.94	.97	.48	1.1	.60	4.8	.03	.09	.09	.02

[illegible]

01017100 AROOSTOOK RIVER AT CARIBOU, ME--Continued

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979

DATE	COBALT, TOTAL RECOV- ERABLE (UG/L AS CO)	COBALT, SUS- PENDE RECOV- ERABLE (UG/L AS CO)	COBALT, DIS- SOLVED (UG/L AS CO)	COPPER, TOTAL RECOV- ERABLE (UG/L AS CU)	COPPER, SUS- PENDE RECOV- ERABLE (UG/L AS CU)	COPPER, DIS- SOLVED (UG/L AS CU)	IRON, TOTAL RECOV- ERABLE (UG/L AS FE)	IRON, SUS- PENDE RECOV- ERABLE (UG/L AS FE)	IRON, DIS- SOLVED (UG/L AS FE)	LEAD, TOTAL RECOV- ERABLE (UG/L AS PB)	LEAD, SUS- PENDE RECOV- ERABLE (UG/L AS PB)
OCT 19...	--	--	--	--	--	--	--	--	--	--	--
DEC 19...	1	0	1	3	0	3	180	70	110	4	--
JAN 09...	--	--	--	--	--	--	--	--	--	--	--
FEB 27...	1	1	0	2	0	2	220	150	70	3	--
MAR 14...	--	--	--	--	--	--	--	--	--	--	--
APR 29...	--	--	--	--	--	--	--	--	--	--	--
MAY 30...	0	0	0	4	2	2	340	270	70	8	6
JUL 10...	--	--	--	--	--	--	--	--	--	--	--
JUL 30...	--	--	--	--	--	--	--	--	--	--	--
AUG 29...	0	0	0	13	9	4	190	110	80	7	4
SEP 19...	--	--	--	--	--	--	--	--	--	--	--

DATE	LEAD, DIS- SOLVED (UG/L AS PB)	MANGA- NESE, TOTAL RECOV- ERABLE (UG/L AS MN)	MANGA- NESE, SUS- PENDE RECOV- ERABLE (UG/L AS MN)	MANGA- NESE, 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)	SELE- NIUM, TOTAL RECOV- ERABLE (UG/L AS SE)	SELE- NIUM, SUS- PENDE RECOV- ERABLE (UG/L AS SE)	SELE- NIUM, DIS- SOLVED (UG/L AS SE)	SILVER, TOTAL RECOV- ERABLE (UG/L AS AG)
OCT 19...	--	--	--	--	--	--	--	--	--	--	--
DEC 19...	--	40	10	30	.6	.1	<.5	0	0	0	0
JAN 09...	--	--	--	--	--	--	--	--	--	--	--
FEB 27...	6	10	--	30	<.5	.0	<.5	0	0	0	0
MAR 14...	--	--	--	--	--	--	--	--	--	--	--
APR 29...	--	--	--	--	--	--	--	--	--	--	--
MAY 30...	2	20	10	8	<.5	.0	<.5	0	0	0	0
JUL 10...	--	--	--	--	--	--	--	--	--	--	--
JUL 30...	--	--	--	--	--	--	--	--	--	--	--
AUG 29...	3	40	20	20	<.5	<.0	<.5	0	0	0	0
SEP 19...	--	--	--	--	--	--	--	--	--	--	--

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 TOTAL (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 19...	--	--	--	--	--	9.2	--	--	7	19	100
DEC 19...	0	0	30	30	0	--	11	.4	3	7.9	100
JAN 09...	--	--	--	--	--	10	--	--	6	65	100
FEB 27...	0	0	10	--	20	--	50	.2	9	47	32
MAR 14...	--	--	--	--	--	8.1	--	--	20	387	100
APR 29...	--	--	--	--	--	9.4	--	--	45	4390	87
MAY 30...	0	0	20	10	7	--	30	2.2	7	160	100
JUL 10...	--	--	--	--	--	7.2	--	--	2	4.3	100
JUL 30...	--	--	--	--	--	10	--	--	1	1.1	100
AUG 29...	0	0	20	10	10	--	135	--	2	8.9	100
SEP 19...	--	--	--	--	--	15	--	--	3	18	100

01017100 AROOSTOOK RIVER AT CARIBOU, ME--Continued

PESTICIDE ANALYSES, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979

DATE	ALDRIN, TOTAL (UG/L)	CHLOR- DANE, TOTAL (UG/L)	DDE, TOTAL (UG/L)	DDT, TOTAL (UG/L)	DI- AZINON, TOTAL (UG/L)	DI- ELDRIN TOTAL (UG/L)	ENDRIN, TOTAL (UG/L)	ETHION, TOTAL (UG/L)	HEPTA- CHLOR, TOTAL (UG/L)	HEPTA- CHLOR EPOXIDE TOTAL (UG/L)
DEC 19...	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
FEB 27...	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
MAY 30...	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND

DATE	LINDANE TOTAL (UG/L)	MALA- THION, TOTAL (UG/L)	METH- OXY- CHLOR, TOTAL (UG/L)	METHYL PARA- THION, TOTAL (UG/L)	METHYL TRI- THION, TOTAL (UG/L)	PARA- THION, TOTAL (UG/L)	TOX- APHENE, TOTAL (UG/L)	TOTAL TRI- THION (UG/L)	PCB, TOTAL (UG/L)
DEC 19...	ND	ND	ND	ND	ND	ND	ND	ND	ND
FEB 27...	ND	ND	ND	ND	ND	ND	ND	ND	ND
MAY 30...	ND	ND	ND	ND	ND	ND	ND	ND	ND

BIOLOGICAL DATA, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979

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 19	31	11.9	9.21	7.45	1.26	361
JUL 10 TO JUL 30	20	4.33	3.01	17.2	1.890	76.7
JUL 30 TO AUG 29	30	1.81	1.50	2.61	1.03	119
AUG 29 TO SEP 19	21	.240	.160	1.76	0.00	45.5

01017100 AROOSTOOK RIVER AT CARIBOU, ME--Continued

PHYTOPLANKTON ANALYSES, OCTOBER 1978 TO JULY 1979

DATE TIME	DEC 19.78 1245	MAR 14.79 1015	MAY 30.79 1430	JUL 10.79 1900	JUL 30.79 1500					
TOTAL CELLS/ML	2800	530	190	2600	11000					
DIVERSITY: DIVISION	0.3	0.4	0.8	1.0	1.3					
..CLASS	0.3	0.4	0.8	1.0	1.3					
...ORDER	1.2	0.4	0.8	1.6	1.6					
...FAMILY	1.2	0.4	1.6	3.2	2.7					
....GENUS	1.2	0.4	1.9	0.0	2.9					
ORGANISM	CELLS /ML	PER- CENT	CELLS /ML	PER- CENT	CELLS /ML	PER- CENT	CELLS /ML	PER- CENT	CELLS /ML	PER- CENT
CHLOROPHYTA (GREEN ALGAE)										
..CHLOROPHYCEAE										
...CHLOROCOCCALES										
....CHLOROCOCCACEAE										
....CHLOROCOCCUM	--	-	--	-	--	-	* 0		130	1
....COELASTRACEAE										
....COELASTRUM	--	-	--	-	--	-	140	5	1100	10
....HYDRODICTYACEAE										
....PEDIASTRUM	--	-	--	-	--	-			1800#	16
....MICRACTINIACEAE										
....GOLENKINIA	--	-	--	-	--	-	* 0		--	-
....OOCYSTACEAE										
....ANKISTRODESMUS	--	-	--	-	--	-	87	3	* 0	
....CHLORELLA	--	-	--	-	--	-	79	3	--	-
....DICTYOSPHAERIUM	--	-	--	-	--	-	190	7	--	-
....OOCYSTIS	--	-	--	-	--	-	44	2	--	-
....SELENASTRUM	--	-	--	-	--	-	--	-	2800#	26
....TETRAEDRON	--	-	--	-	--	-	* 0		--	-
....SCENEDESMACEAE										
....CRUCIGENIA	--	-	--	-	--	-	35	1	--	-
....SCENEDESMUS	58	2	14	3	52#	27	760#	30	520	5
....TETRASTRUM	--	-	--	-	--	-	35	1	--	-
..TETRASPORALES										
...PALMELLACEAE										
...SPHAEROCYSTIS	--	-	--	-	--	-	100	4	--	-
..VOLVOCALES										
...CHLAMYDOMONADACEAE										
....CHLAMYDOMONAS	--	-	--	-	--	-	--	-	420	4
....CHLOROGONIUM	--	-	--	-	--	-	--	-	* 0	
..ZYGNEATALES										
...DESMIDIACEAE	--	-	--	-	--	-	96	4	--	-
...CLOSTERIUM	--	-	--	-	--	-	* 0		--	-
...COSMARIUM	--	-	--	-	--	-	* 0		--	-
CHRYSOPHYTA										
..BACILLARIOPHYCEAE										
...CENTRALES										
....COSCINODISCACEAE										
....CYCLOTELLA	--	-	--	-	--	-	61	2	980	9
....THALASSIOSIRA	--	-	--	-	--	-	* 0		--	-
..PENNALES										
...ACHNANTHACEAE										
....ACHNANTHES	14	1	--	-	26	13	190	7	--	-
...CYMBELLACEAE										
....CYMBELLA	--	-	14	3	13	7	52	2	--	-
...FRAGILARIACEAE										
....FRAGILARIA	--	-	--	-	13	7	--	-	--	-
....SYNEDRA	--	-	--	-	90#	47	160	6	* 0	
...GOMPHONEMACEAE										
....GOMPHONEMA	14	1	--	-	--	-	120	5	--	-
...NAVICULACEAE										
....NAVICULA	--	-	--	-	--	-	230	9	--	-
...NITZSCHACEAE										
....NITZSCHIA	14	1	--	-	--	-	110	4	130	1
CYANOPHYTA (BLUE-GREEN ALGAE)										
..CYANOPHYCEAE										
...CHROOCOCCALES										
....CHROOCOCCACEAE										
....AGMENELLUM	--	-	--	-	--	-	--	-	520	5
....ANACYSTIS	1400#	51	500#	95	--	-	--	-	2400#	22
...HORMOGONALES										
....OSCILLATORIA										
....OSCILLATORIA	1300#	46	--	-	--	-	--	-	--	-
EUGLENOPHYTA (EUGLENOIDS)										
..EUGLENOPHYCEAE										
...EUGLENALES										
....EUGLENACEAE										
....EUTREPTIA	--	-	--	-	--	-	* 0		--	-
PYRRHOPHYTA (FIRE ALGAE)										
..DINOPHYCEAE										
...PERIDINIALES										
....GLENODINIACEAE										
....GLENODINIUM	--	-	--	-	--	-	--	-	* 0	
...PERIDINIACEAE										
....PERIDINIUM	--	-	--	-	--	-	* 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, AUGUST 1979 TO SEPTEMBER 1979

DATE TIME	AUG 29, 79 1530	SEP 19, 79 1415
TOTAL CELLS/ML	4400	690
DIVERSITY: DIVISION	1.4	1.2
..CLASS	1.4	1.2
..ORDER	1.7	1.2
...FAMILY	3.0	1.9
....GENUS	3.4	1.9

ORGANISM	CELLS /ML	PER- CENT	CELLS /ML	PER- CENT
CHLOROPHYTA (GREEN ALGAE)				
..CHLOROPHYCEAE				
...CHLOROCOCCALES				
...COELASTRACEAE				
....COELASTRUM	--	-	110#	17
...HYDRODICTYACEAE				
....SORASTRUM	170	4	--	-
...OOCYSTACEAE				
....ANKISTRODESMUS	100	2	--	-
....DICTYOSPHAERIUM	290	7	--	-
....OOCYSTIS	83	2	--	-
....TETRAEDRON	*	0	--	-
...SCENEDESMACEAE				
....CRUCIGENIA	83	2	--	-
....SCENEDESMUS	1300#	30	360#	52
CHRYSOPHYTA				
..BACILLARIOPHYCEAE				
...CENTRALES				
...COSCINODISCACEAE				
....CYCLOTELLA	100	2	--	-
....MELOSIHA	210	5	--	-
...PENNALES				
...ACHNANTHACEAE				
....ACHNANTHES	410	9	72	10
....COCONEIS	83	2	--	-
...CYMBELLACEAE				
....CYMBELLA	100	2	--	-
...FRAGILARIACEAE				
....SYNEDRA	230	5	--	-
...GOMPHONEMACEAE				
....GOMPHONEMA	120	3	--	-
...NAVICULACEAE				
....NAVICULA	330	7	14	2
...NITZSCHACEAE				
....NITZSCHIA	100	2	14	2
...TABELLARIACEAE				
....TABELLARIA	*	0	--	-
CYANOPHYTA (BLUE-GREEN ALGAE)				
..CYANOPHYCEAE				
...CHROOCOCCALES				
...CHROOCOCCACEAE				
....AGMENELLUM	--	-	110#	17
...HORMOGONALES				
...OSCILLATORACEAE				
....SCHIZOTHRIX	640	14	--	-

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

SPECIFIC CONDUCTANCE (MICROMHOS/CM AT 25 DEG. C), WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
OCTOBER			NOVEMBER			DECEMBER			JANUARY			
1	124	108	114	102	98	100	117	111	114	120	92	103
2	125	110	116	102	99	101	117	114	116	138	96	120
3	117	113	116	104	102	103	114	113	114	115	98	106
4	119	117	118	105	101	104	114	110	112	101	98	100
5	133	114	120	105	103	104	110	107	109	98	95	97
6	127	111	114	106	104	105	113	108	110	96	91	94
7	115	113	114	109	106	107	113	111	112	92	90	91
8	115	110	113	110	107	108	112	109	110	92	87	89
9	134	111	120	112	108	109	109	106	107	95	87	89
10	134	108	113	112	109	111	110	107	108	96	92	95
11	136	111	125	114	112	113	128	112	123	99	91	96
12	124	116	119	116	113	115	121	102	111	99	97	98
13	125	120	123	116	114	115	102	99	101	100	92	98
14	122	119	120	115	111	113	99	95	96	98	96	97
15	123	118	120	116	111	113	95	92	94	97	96	96
16	130	114	119	118	116	117	93	91	92	98	96	97
17	134	114	124	120	118	119	95	91	93	107	97	102
18	113	100	104	123	119	121	95	92	93	101	94	97
19	101	95	98	129	117	121	100	96	98	99	94	96
20	105	95	99	122	109	117	106	98	102	99	92	96
21	106	95	98	108	101	103	103	99	100	102	94	98
22	111	103	106	101	99	100	102	96	99	102	94	98
23	109	102	105	105	101	102	105	100	102	102	96	98
24	113	104	108	116	105	111	115	99	104	105	99	101
25	115	104	107	115	109	111	112	102	105	98	94	97
26	115	105	110	113	109	111	106	98	101	94	88	91
27	115	105	109	111	103	106	105	98	102	92	89	91
28	119	106	111	106	103	104	105	97	99	90	88	89
29	122	112	118	112	106	110	102	92	96	88	87	87
30	122	109	115	113	111	112	93	90	92	88	86	87
31	110	102	105	---	---	---	93	90	91	88	87	87
MONTH	136	95	113	129	98	110	128	90	103	138	86	96

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
FEBRUARY			MARCH			APRIL			MAY			
1	97	87	88	96	90	92	62	56	58	---	---	---
2	93	88	90	93	89	91	65	58	61	39	35	36
3	103	88	97	93	90	92	63	61	61	39	36	37
4	96	85	90	112	92	103	67	62	63	40	39	39
5	89	85	87	112	101	105	67	64	66	45	41	43
6	88	85	86	105	98	101	68	65	67	47	44	45
7	89	85	87	104	91	98	74	67	71	50	46	48
8	91	86	88	105	93	98	74	69	72	52	51	51
9	90	87	88	105	83	91	73	70	72	57	54	56
10	92	87	89	84	78	82	82	73	77	61	57	59
11	97	91	94	78	74	76	83	78	80	63	55	61
12	96	91	93	74	72	73	79	76	77	64	60	62
13	101	92	96	73	72	73	92	77	81	68	62	66
14	98	93	95	82	72	76	91	85	88	74	68	72
15	100	93	97	86	82	85	91	81	85	75	71	74
16	104	95	99	89	85	86	82	77	79	78	73	76
17	101	94	98	88	85	86	79	75	77	77	73	75
18	101	95	98	87	84	85	76	66	70	82	73	78
19	98	92	96	88	86	87	72	68	70	78	73	75
20	---	---	---	90	85	87	74	70	72	81	75	78
21	---	---	---	95	87	91	75	69	73	84	80	83
22	---	---	---	100	93	96	71	60	66	90	79	86
23	---	---	---	100	97	99	66	62	64	87	82	84
24	---	---	---	101	91	97	65	57	61	88	80	84
25	---	---	---	97	83	91	59	54	57	88	83	85
26	---	---	---	96	85	93	56	53	54	99	81	90
27	---	---	---	99	90	94	54	52	53	97	72	88
28	95	88	91	94	62	77	52	47	49	70	58	62
29	---	---	---	62	52	55	46	37	38	59	57	58
30	---	---	---	55	51	53	---	---	---	61	58	59
31	---	---	---	56	54	55	---	---	---	67	60	64
MONTH	104	85	92	112	51	86	92	37	68	99	35	66

ST. JOHN RIVER BASIN

01017100 AROOSTOOK RIVER AT CARIBOU, ME--Continued

SPECIFIC CONDUCTANCE (MICROMHOS/CM AT 25 DEG. C), WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
JUNE			JULY			AUGUST			SEPTEMBER			
1	63	53	56	87	80	85	122	119	120	81	78	80
2	53	50	51	89	77	83	122	115	118	82	79	81
3	56	52	53	102	88	96	120	114	117	86	82	83
4	58	56	58	101	90	96	121	116	118	90	87	88
5	61	58	60	90	81	84	121	115	118	94	90	92
6	65	61	63	82	79	81	119	114	116	95	93	94
7	69	64	67	82	79	80	115	111	113	122	94	106
8	73	66	71	85	80	82	112	111	111	126	73	94
9	76	69	72	87	82	85	113	110	111	73	65	68
10	79	73	77	94	85	90	111	107	109	67	63	65
11	82	75	80	97	91	93	108	103	105	70	64	67
12	87	77	82	105	95	99	105	104	104	72	70	72
13	96	84	91	109	100	104	105	103	104	75	72	73
14	88	80	84	107	100	103	109	104	106	79	72	75
15	79	72	75	102	96	98	117	108	112	89	76	84
16	81	74	77	98	94	96	117	97	106	90	83	87
17	79	75	77	98	93	95	97	87	91	81	70	75
18	80	75	78	100	97	98	87	86	87	73	71	72
19	90	79	84	103	98	101	87	84	85	77	70	74
20	85	79	82	107	102	104	87	85	86	81	75	78
21	85	79	82	105	102	103	96	86	91	84	80	82
22	86	80	83	106	100	104	106	96	101	89	83	86
23	95	84	89	112	102	105	106	98	104	90	86	88
24	95	83	91	107	102	104	96	84	89	92	88	89
25	92	84	89	106	104	105	85	81	82	97	89	92
26	83	73	78	109	106	108	92	82	85	97	91	94
27	76	73	74	112	109	111	91	87	89	100	94	97
28	85	75	82	118	112	115	89	84	87	103	98	100
29	86	82	84	117	113	115	86	83	84	106	100	104
30	88	86	87	122	115	118	84	80	82	113	106	109
31	---	---	---	121	119	120	82	80	81	---	---	---
MONTH	96	50	76	122	77	99	122	80	100	126	63	85
YEAR	138	35	91									

TEMPERATURE, WATER (DEG. C), WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979

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

TEMPERATURE, WATER (DEG. C), WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
FEBRUARY				MARCH			APRIL			MAY		
1	.0	.0	.0	.0	.0	.0	1.0	.5	.5	5.5	5.5	5.5
2	.0	.0	.0	.0	.0	.0	1.5	.5	1.0	6.0	5.5	6.0
3	.0	.0	.0	.0	.0	.0	1.0	.5	.5	6.5	5.5	6.0
4	.0	.0	.0	.0	.0	.0	2.0	.5	1.5	7.0	6.5	6.5
5	.0	.0	.0	.0	.0	.0	2.0	1.0	1.5	7.0	6.5	6.5
6	.0	.0	.0	.0	.0	.0	1.5	1.0	1.0	7.0	6.0	6.5
7	.0	.0	.0	.0	.0	.0	1.5	.5	1.0	8.5	6.5	7.5
8	.0	.0	.0	.0	.0	.0	1.5	1.0	1.0	9.5	8.0	8.5
9	.0	.0	.0	.0	.0	.0	2.0	.5	1.5	11.0	9.0	10.0
10	.0	.0	.0	.0	.0	.0	1.5	1.0	1.0	13.5	11.5	12.5
11	.0	.0	.0	.0	.0	.0	1.5	.5	1.0	14.0	12.5	13.0
12	.0	.0	.0	.0	.0	.0	2.5	1.5	2.0	14.0	12.5	13.5
13	.0	.0	.0	.0	.0	.0	4.0	2.0	3.0	13.5	13.0	13.0
14	.0	.0	.0	.0	.0	.0	5.0	3.5	4.0	14.0	13.5	14.0
15	.0	.0	.0	.0	.0	.0	4.5	3.5	4.0	15.0	14.0	14.5
16	.0	.0	.0	.0	.0	.0	4.5	3.0	3.5	15.5	15.0	15.5
17	.0	.0	.0	.0	.0	.0	4.5	3.5	4.0	16.0	14.5	15.0
18	.0	.0	.0	.0	.0	.0	3.5	2.5	3.0	17.0	15.5	16.5
19	.0	.0	.0	.5	.0	.0	4.0	3.0	3.5	19.0	17.0	18.0
20	.0	.0	.0	.5	.0	.0	5.0	3.0	4.0	19.5	18.5	19.0
21	.0	.0	.0	.5	.0	.0	5.5	4.0	5.0	19.5	19.0	19.5
22	.0	.0	.0	.5	.0	.0	5.5	4.5	5.0	19.5	18.5	19.0
23	.0	.0	.0	.5	.0	.0	5.0	4.0	4.5	19.0	16.5	17.5
24	.0	.0	.0	.0	.0	.0	5.0	4.0	4.5	18.5	16.5	17.5
25	.0	.0	.0	.5	.0	.0	5.5	4.0	5.0	17.0	15.0	16.0
26	.0	.0	.0	.5	.0	.5	7.0	5.0	6.0	15.0	12.0	13.5
27	.0	.0	.0	.5	.0	.0	7.5	7.0	7.0	12.0	11.5	11.5
28	.0	.0	.0	1.0	.0	.5	7.0	6.0	6.5	12.5	12.0	12.0
29	---	---	---	.5	.0	.5	6.0	6.0	6.0	12.5	12.0	12.5
30	---	---	---	1.0	.5	.5	5.5	5.5	5.5	12.0	11.5	12.0
31	---	---	---	.5	.5	.5	---	---	---	12.5	11.5	12.0
MONTH	.0	.0	.0	1.0	.0	.0	7.5	.5	3.5	19.5	5.5	12.5
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
JUNE				JULY			AUGUST			SEPTEMBER		
1	14.0	12.0	13.0	22.5	21.5	22.0	26.5	25.0	25.5	19.5	18.0	19.0
2	15.0	13.5	14.0	22.0	20.0	21.0	25.5	24.5	25.0	19.5	17.5	18.5
3	16.0	14.5	15.5	20.5	20.0	20.5	24.5	24.0	24.5	21.0	18.5	19.5
4	18.0	16.0	16.5	21.5	20.5	21.0	25.0	24.0	24.5	21.5	20.0	20.5
5	19.0	17.0	18.0	21.0	19.0	20.0	26.0	24.5	25.0	21.0	20.0	20.5
6	19.0	18.0	19.0	19.0	18.0	18.5	26.5	25.0	25.5	20.5	19.5	19.5
7	19.5	17.5	19.0	19.5	18.5	19.0	25.0	24.0	24.5	19.5	17.5	18.5
8	20.0	18.5	19.0	22.5	20.0	21.0	24.0	22.5	23.5	17.5	15.0	16.0
9	20.0	18.5	19.5	24.5	22.0	23.0	23.0	21.0	22.0	15.5	14.5	15.0
10	19.0	18.5	18.5	25.5	24.0	24.5	21.0	19.5	20.0	15.0	14.0	14.5
11	20.0	17.5	18.5	26.5	25.0	25.5	19.5	17.5	19.0	14.0	13.5	13.5
12	20.0	19.0	20.0	25.0	24.5	24.5	19.0	18.0	18.5	13.5	13.0	13.5
13	19.0	16.5	17.5	25.0	24.0	24.5	18.5	16.5	17.5	14.5	13.5	14.0
14	17.0	15.5	16.5	26.5	24.5	25.0	17.0	15.5	16.5	15.5	15.0	15.5
15	18.5	17.0	17.5	25.0	24.5	25.0	15.5	14.5	14.5	16.5	15.5	15.5
16	21.5	19.0	20.0	25.0	23.5	24.0	15.5	14.5	15.0	16.5	15.0	15.5
17	23.5	22.0	22.5	23.5	21.5	22.5	16.5	15.5	16.0	15.0	14.0	14.5
18	23.5	21.5	22.5	23.0	21.5	22.0	17.5	16.5	17.0	16.0	15.0	15.5
19	21.0	19.5	20.0	24.0	22.5	23.0	17.0	16.5	17.0	16.5	14.5	16.0
20	21.0	20.0	20.5	25.0	23.0	24.0	17.0	16.0	16.0	14.5	12.0	13.0
21	22.0	21.0	21.0	25.0	24.0	24.5	16.5	15.5	16.0	12.5	12.5	12.5
22	22.5	20.5	21.5	26.5	24.5	25.0	17.5	16.5	17.0	13.5	12.5	13.5
23	20.5	19.0	19.5	25.0	24.0	24.5	18.5	17.0	18.0	14.0	13.0	13.5
24	19.5	17.5	19.0	26.0	24.5	25.0	19.5	18.5	19.5	13.5	12.0	13.0
25	17.5	15.5	16.0	26.0	24.5	25.0	20.0	19.5	20.0	13.0	12.0	13.0
26	17.0	15.5	16.0	25.5	25.0	25.0	20.0	19.5	20.0	13.0	12.0	12.5
27	18.5	17.0	17.5	25.5	24.5	25.0	20.5	19.5	20.0	12.5	12.0	15.5
28	19.0	18.0	18.5	25.5	24.5	25.0	19.5	18.0	19.0	13.0	11.5	12.5
29	22.0	19.5	20.5	26.0	25.0	25.5	19.5	18.0	19.0	13.5	12.5	13.0
30	22.0	21.5	22.0	27.0	25.0	26.0	20.0	19.5	20.0	13.5	12.0	12.5
31	---	---	---	27.0	25.5	26.5	20.5	19.5	20.0	---	---	---
MONTH	23.5	12.0	18.5	27.0	18.0	23.5	26.5	14.5	20.0	21.5	11.5	15.5
YEAR	27.0	.0	8.5									

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.

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

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

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.

Date	Time	Discharge (ft ³ /s) (m ³ /s)		Gage height (ft) (m)		Date	Time	Discharge (ft ³ /s) (m ³ /s)		Gage height (ft) (m)	
Jan. 3	1315	26	0.73	4.66	1.420	May 26	2045	25	0.71	4.65	1.417
Mar. 8	0130	34	0.96	4.87	1.484	May 31	0130	42	1.19	5.09	1.551
Mar. 26	0045	*141	3.99	*7.14	2.176	Sept. 7	0130	33	0.93	4.86	1.481
Apr. 29	0515	86	2.44	6.04	1.841						

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.04	.23	.36	.27	12	1.4	11	13	10	.75	.06	.60
2	.04	.21	.31	1.3	8.4	1.1	11	10	6.9	4.1	.12	.51
3	.24	.22	.31	16	6.8	1.1	9.0	7.7	5.1	2.5	.11	.45
4	.61	.14	.36	18	5.7	1.1	8.3	7.2	3.7	1.1	.08	.47
5	.59	.12	.87	11	4.8	2.0	8.5	6.9	2.3	.42	.06	.41
6	.85	.13	.81	7.8	4.3	6.6	7.4	5.6	1.6	.29	.06	3.7
7	1.2	.17	.69	5.8	3.7	19	6.7	4.5	1.1	.20	.04	20
8	.91	.17	.60	4.7	3.3	27	5.8	3.9	.88	.19	.05	8
9	.76	.17	.54	4.0	3.0	19	5.1	3.6	.75	.16	.04	4.0
10	.34	.17	.48	3.6	2.7	11	9.2	3.2	.77	.14	.02	2.5
11	.06	.18	.41	3.1	2.5	8.0	9.1	2.8	.68	.14	.03	3.0
12	.05	.19	.37	2.7	2.3	7.0	7.0	2.5	2.6	.15	.03	2.4
13	.05	.08	.34	2.6	2.1	5.5	7.2	2.4	2.1	.28	1.9	1.9
14	.88	.78	.32	2.4	2.0	6.3	11	2.4	1.0	.21	1.6	2.0
15	4.0	1.6	.30	2.4	1.8	14	12	2.4	.63	.20	.75	6.0
16	1.2	.70	.29	2.2	1.7	10	10	2.6	.42	.19	.44	3.5
17	.68	.41	.27	2.0	1.6	7.0	11	3.1	.36	.23	.25	1.5
18	.45	4.1	.26	1.8	1.5	5.8	9.4	2.4	.26	.24	.19	.85
19	.37	3.5	.25	1.6	1.4	5.1	8.8	1.9	.16	.19	.21	1.8
20	.32	1.6	.24	1.6	1.4	4.6	9.1	1.6	.13	.17	1.0	1.5
21	.31	.84	.23	1.5	1.3	5.5	11	1.4	.07	.17	2.9	1.0
22	.28	.62	.23	3.6	1.3	10	12	1.4	.23	.17	1.6	.83
23	.22	.59	.22	4.5	1.2	15	13	1.1	.17	.17	.79	.66
24	.22	.23	.22	3.2	1.2	20	12	.85	5.1	.17	.49	.58
25	.20	.27	.21	2.8	1.2	44	11	5.0	2.0	.14	.52	.54
26	.20	.31	.21	3.2	1.2	64	11	19	1.1	.18	.63	.52
27	.80	.31	.21	4.7	1.4	22	11	17	.77	1.2	1.4	.46
28	.87	.31	.21	7.9	1.7	12	21	8.1	.76	.37	3.7	.42
29	.53	.31	.20	9.1	---	9.0	56	9.8	.68	1.9	1.7	.42
30	.29	.33	.20	14	---	8.7	19	12	.59	.37	1.1	.42
31	.26	---	.20	18	---	10	---	23	---	.22	.90	---
TOTAL	17.82	18.99	10.72	167.37	83.5	382.8	353.6	188.35	54.24	16.91	22.77	71.44
MEAN	.57	.63	.35	5.40	2.98	12.3	11.8	6.08	1.81	.55	.73	2.38
MAX	4.0	4.1	.87	18	12	64	56	23	10	4.1	3.7	20
MIN	.04	.08	.20	.27	1.2	1.1	5.1	.85	.07	.14	.02	.41
CFSM	.39	.43	.24	3.67	2.03	8.37	8.03	4.14	1.23	.37	.50	1.62
IN.	.45	.48	.27	4.23	2.11	9.68	8.94	4.76	1.37	.43	.58	1.81
CAL YR 1978	TOTAL	776.48	MEAN	2.13	MAX 25	MIN	.03	CFSM 1.45	IN 19.64			
WTR YR 1979	TOTAL	1388.51	MEAN	3.80	MAX 64	MIN	.02	CFSM 2.59	IN 35.11			

ST. JOHN RIVER BASIN

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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 is 333.92 ft (101.779 m) National Geodetic Vertical Datum of 1929.

REMARKS.--Records good except those for winter period and period of no gage-height record, Mar. 28 to May 1. which are fair. Several observations of water temperature and specific conductance were made during the year.

AVERAGE DISCHARGE.--39 years, 296 ft³/s (8.383 m³/s), 22.97 in/yr (583 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 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)
Mar. 9	--	2250 63.7	ice jam	Apr. 29	--	4400 125	-- --
Mar. 27	0200	*6130 174	9.57 2.917				

Minimum discharge, 12.0 ft³/s (0.340 m³/s) Oct. 1. gage height, 2.31 ft (0.704 m).

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	13	62	43	32	1000	170	1160	2100	1770	70	113	119
2	16	57	44	50	940	180	1130	1580	1200	136	91	96
3	15	52	48	175	800	165	1030	1250	763	149	74	81
4	15	48	52	650	670	150	920	963	583	134	63	70
5	17	45	54	930	580	140	905	859	463	107	54	63
6	20	42	52	1000	490	160	820	704	389	86	64	72
7	30	41	51	700	420	225	805	553	329	74	57	442
8	33	40	49	475	370	500	720	453	272	66	51	615
9	30	37	48	360	330	2000	610	385	238	57	45	418
10	26	35	47	295	295	1400	790	341	229	51	40	283
11	23	34	46	250	270	1000	1080	294	220	48	40	226
12	23	32	45	220	245	900	950	261	226	45	37	186
13	22	32	44	200	230	850	825	235	294	54	83	158
14	30	31	43	180	210	840	940	229	251	54	214	140
15	81	51	42	170	200	1140	1050	232	208	46	214	173
16	124	54	41	160	190	1150	980	242	178	42	181	175
17	110	52	40	150	180	1000	970	245	154	51	143	151
18	91	86	39	140	170	850	925	223	136	57	110	134
19	77	161	37	130	160	660	865	199	122	51	88	129
20	66	154	37	125	150	590	815	181	104	44	110	154
21	57	112	36	120	145	620	850	173	93	40	175	147
22	52	140	36	120	140	780	965	170	86	37	191	129
23	46	112	35	130	135	950	1050	156	104	35	168	113
24	37	61	34	160	130	1300	1180	143	158	34	138	98
25	39	54	34	180	125	2600	1170	211	166	32	119	88
26	36	51	33	160	125	4950	1160	834	147	31	125	79
27	46	48	33	200	130	5430	1350	1500	125	48	125	72
28	70	47	32	275	155	2950	1630	1320	104	54	170	66
29	77	44	32	420	---	1980	3860	850	91	134	175	63
30	72	43	32	600	---	1440	3350	810	76	163	163	61
31	67	---	31	840	---	1190	---	1630	---	143	147	---
TOTAL	1461	1858	1270	9597	8985	38260	34855	19326	9279	2173	3568	4801
MEAN	47.1	61.9	41.0	310	321	1234	1162	623	309	70.1	115	160
MAX	124	161	54	1000	1000	5430	3860	2100	1770	163	214	615
MIN	13	31	31	32	125	140	610	143	76	31	37	61
CFSM	.27	.35	.23	1.77	1.83	7.05	6.64	3.56	1.77	.40	.66	.91
IN.	.31	.39	.27	2.04	1.91	8.13	7.41	4.11	1.97	.46	.76	1.02
CAL YR 1978	TOTAL	82926.2	MEAN 227	MAX 2350	MIN 6.6	CFSM 1.30	IN 17.63					
WTR YR 1979	TOTAL	135433.0	MEAN 371	MAX 5430	MIN 13	CFSM 2.12	IN 28.79					

ST. CROIX RIVER BASIN

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 doubtful or no gage-height record, Mar. 27 to Apr. 30, 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.--51 years, 719 ft³/s (20.36 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, 5,650 ft³/s (160 m³/s) May 1, 2; gage height, 10.16 ft (3.097 m); minimum daily, 280 ft³/s (7.93 m³/s) Oct. 1.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	280	348	345	328	377	947	3370	5650	4740	1300	437	461
2	282	348	342	328	379	1060	3360	5650	4200	1300	437	461
3	285	348	345	339	383	1160	3030	5640	2700	1300	437	461
4	317	348	342	345	387	1150	2760	5630	1610	1290	437	458
5	334	348	342	348	387	1140	2760	5340	1610	1270	437	458
6	334	345	342	352	387	1020	2760	3900	1610	1160	437	459
7	336	348	342	355	391	872	2760	1430	1460	1050	463	465
8	336	348	342	362	397	568	2740	890	1100	1050	440	465
9	336	345	339	369	397	414	2170	506	1130	1040	529	465
10	336	345	339	369	397	416	1770	550	1040	1030	617	465
11	336	345	339	373	397	419	1770	577	850	1030	617	468
12	336	345	339	375	393	427	1780	577	850	1020	616	469
13	334	345	339	375	395	365	1780	577	850	1010	499	469
14	334	342	339	375	397	385	1780	577	847	1010	440	505
15	339	345	339	377	546	454	1790	861	845	998	440	646
16	339	342	339	378	712	458	1790	991	843	990	442	565
17	339	342	334	378	712	461	1800	993	840	995	444	476
18	345	345	334	378	712	465	1800	1290	983	992	444	479
19	348	348	334	378	836	465	1800	1440	1120	989	444	479
20	348	348	334	433	964	462	1800	1440	1290	983	445	479
21	348	348	334	525	961	465	1800	1440	1390	975	447	663
22	348	345	334	440	1130	468	1800	1440	1380	971	447	822
23	348	345	334	359	1220	472	1800	1430	1380	992	449	671
24	351	345	331	357	1210	477	1800	1430	1370	1040	451	472
25	348	348	331	551	1210	482	1800	1430	1360	1030	451	649
26	345	351	331	646	1200	431	1570	1430	1350	1020	453	807
27	351	348	331	646	1080	351	1250	1670	1350	795	454	805
28	348	345	331	649	949	1490	1250	2150	1330	599	454	804
29	351	345	331	496	---	3300	2080	4080	1320	599	458	798
30	348	345	331	365	---	3380	4940	4770	1310	600	459	795
31	348	---	331	368	---	3380	---	4770	---	527	463	---
TOTAL	10408	10383	10440	12717	18906	27804	65460	70549	44058	30955	14488	16939
MEAN	336	346	337	410	675	897	2182	2276	1469	999	467	565
MAX	351	351	345	649	1220	3380	4940	5650	4740	1300	617	822
MIN	280	342	331	328	377	351	1250	506	840	527	437	458
CAL YR 1978	TOTAL	311981	MEAN 855	MAX	3480	MIN 280						
WTR YR 1979	TOTAL	333107	MEAN 913	MAX	5650	MIN 280						

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.--51 years, 397 ft³/s (11.24 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, 11, 1945.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 1,980 ft³/s (56.1 m³/s) June 1, gage height, 5.60 ft (1.707 m); minimum daily, 126 ft³/s (3.57 m³/s) Nov. 14, 17.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	345	127	224	213	245	549	1200	1000	1970	986	258	252
2	345	127	225	216	245	545	1200	1020	1940	988	258	251
3	343	127	223	239	245	544	1350	1020	1780	986	258	252
4	337	127	222	234	245	541	1450	1010	1930	971	258	251
5	341	128	223	235	245	542	1440	1020	1380	880	257	249
6	342	127	225	235	245	550	1440	1010	826	506	258	250
7	344	128	225	235	245	384	1440	1000	813	385	256	256
8	344	127	223	244	245	240	1440	869	804	381	254	254
9	344	127	223	248	245	210	1440	336	801	381	254	252
10	341	127	225	248	245	210	1450	283	799	379	254	251
11	335	127	220	248	245	216	1490	277	683	378	254	252
12	332	127	220	248	245	219	1510	277	597	378	253	251
13	328	127	220	248	299	218	1530	277	599	376	260	251
14	324	126	219	251	337	219	1520	278	595	374	259	248
15	331	127	220	251	337	223	1510	282	594	371	262	251
16	328	127	218	251	336	222	1500	286	594	370	259	251
17	326	126	218	250	334	222	1130	403	593	371	258	251
18	321	127	219	251	333	222	946	896	665	370	257	250
19	250	127	219	269	332	222	937	896	786	368	258	250
20	130	127	219	323	330	223	928	896	964	365	261	251
21	130	127	219	363	330	227	921	893	1060	363	261	249
22	130	127	219	327	454	227	913	894	1060	361	260	251
23	130	127	219	241	537	230	798	882	1050	359	258	251
24	128	127	219	271	535	232	725	881	1050	359	258	248
25	127	127	219	387	536	248	501	897	1040	356	258	431
26	127	127	217	424	536	282	390	1100	1020	355	258	608
27	130	127	216	436	552	267	392	1330	1010	317	255	600
28	128	128	213	440	550	264	403	1440	1000	261	255	593
29	128	130	213	376	---	429	437	1520	980	261	255	588
30	128	164	213	244	---	624	620	1600	995	260	255	581
31	127	---	213	245	---	914	---	1770	---	258	255	---
TOTAL	7844	3851	6810	8691	9608	10465	32951	26543	29978	14074	7974	9424
MEAN	253	128	220	280	343	338	1098	856	999	454	257	314
MAX	345	164	225	440	552	914	1530	1770	1970	988	262	608
MIN	127	126	213	213	245	210	390	277	593	258	253	248
CAL YR 1978 TOTAL	140805		MEAN 386	MAX 1220	MIN 126							
WTR YR 1979 TOTAL	168213		MEAN 461	MAX 1970	MIN 126							

ST. CROIX RIVER BASIN

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.--60 years, 2,336 ft³/s (66.16 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, 19,300 ft³/s (547 m³/s) Mar. 27, gage height, 10.70 ft (3.261 m); minimum daily, 680 ft³/s (19.3 m³/s) Nov. 12.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	898	942	789	791	5750	2570	9710	13700	15200	2560	1850	1780
2	855	880	816	828	5840	2400	9310	13100	14600	2630	1750	1700
3	788	865	814	915	5630	2320	8340	12200	13500	2670	1680	1360
4	786	860	794	909	5420	2330	7920	10800	11900	2600	1630	1270
5	787	1250	805	1960	4740	2470	7770	10000	8800	2010	1610	1280
6	799	1500	791	2570	4080	2550	7480	9610	7390	1920	1590	1850
7	800	1310	792	2850	3470	2790	7360	8180	6570	2190	1560	1800
8	802	1050	792	4620	2300	3560	7290	6290	5210	2570	1530	1700
9	860	1420	797	3990	2630	5290	6520	4500	4410	2590	1510	1650
10	919	1100	799	3230	2590	6050	7190	3370	4360	2170	1440	1850
11	936	850	823	3190	2570	5970	8030	2680	3650	2530	1600	1980
12	936	680	797	3090	2570	5970	7970	2990	3450	2590	1590	1890
13	947	695	787	3070	2580	5300	7690	2910	3540	2630	1660	1840
14	958	745	808	3020	2570	5040	7410	2890	2940	2570	2330	2130
15	942	760	811	2950	2540	5120	7100	2880	3040	2630	3470	2530
16	953	770	794	2560	2540	5130	5760	3400	2920	1150	3810	2440
17	933	810	805	2310	2590	5000	5280	4240	2850	1030	3170	2390
18	932	828	825	2290	2600	4770	5440	4700	2780	1050	2790	2330
19	924	805	807	2290	2630	3820	5370	4760	2790	1070	2710	2270
20	943	816	805	2290	2640	3140	5240	4620	2870	1090	2730	2210
21	935	817	806	2280	2340	3150	5150	4290	2590	1100	2840	2170
22	936	1230	801	2620	2200	3120	5070	4140	2460	1120	2900	2140
23	953	1580	813	2520	2220	3090	4310	4030	2380	1140	2890	2120
24	953	1460	829	2300	2230	3140	3480	3440	2500	1150	2830	2100
25	951	836	805	2300	2220	3770	3590	3860	2280	1170	2740	2050
26	952	803	793	2300	2190	13700	3580	6480	2100	1160	2640	1610
27	963	783	825	2330	2370	18600	3520	8420	2600	1440	2060	936
28	967	765	812	2660	2500	15200	4600	8530	2630	1900	1550	1360
29	955	762	786	2450	---	11400	10400	8180	2520	2060	1300	1700
30	936	766	807	3920	---	10200	13700	9420	2540	2030	1140	1280
31	941	---	844	5140	---	10300	---	11500	---	1940	1150	---
TOTAL	28140	28738	24972	80543	86550	177260	201580	200110	147370	58460	66050	55716
MEAN	908	958	806	2598	3091	5718	6719	6455	4912	1886	2131	1857
MAX	967	1580	844	5140	5840	18600	13700	13700	15200	2670	3810	2530
MIN	786	680	786	791	2190	2320	3480	2680	2100	1030	1140	936
CAL YR 1978	TOTAL	889458	MEAN	2437	MAX	8900	MIN	657				
WTR YR 1979	TOTAL	1155489	MEAN	3166	MAX	18600	MIN	680				

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JAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	649	980	800	868	5850	2500	10300	14700	15600	2490	1900	1810
2	862	938	810	950	5920	2670	9700	13800	15100	2530	1800	1750
3	651	930	816	1000	5750	2580	8920	13000	14100	2480	1720	1410
4	854	928	821	990	5500	2260	8180	11500	12600	2570	1670	1280
5	874	1410	815	1950	4900	2420	8120	10400	9660	2250	1630	1280
6	937	1680	834	2470	4300	2860	7700	10100	7690	1860	1600	1910
7	1100	1560	827	3060	3800	3300	7660	8670	6930	2140	1570	1850
8	961	1000	841	4920	2650	4920	7570	6760	5340	2370	1550	1720
9	840	1610	837	4930	2410	5920	7060	5060	4380	2380	1520	1670
10	867	1280	832	3400	2600	6630	7780	3650	4450	2140	1500	1930
11	863	984	893	3380	2620	6680	8700	2790	4130	2000	1600	1990
12	871	740	858	3310	2680	6650	8400	2880	3220	2240	1550	1920
13	872	772	845	3060	2650	5760	8070	3000	3740	2360	1700	1830
14	885	843	860	3110	2670	5340	7730	3060	3250	2460	2550	2020
15	991	826	858	3020	2560	5900	7430	3150	2640	2460	3490	2360
16	988	842	850	2700	2600	5560	6300	4010	2800	1650	3540	2360
17	1010	902	867	2430	2630	5320	5380	4850	2810	886	3130	2350
18	986	956	843	2350	2660	5070	5640	5100	2890	829	2770	2350
19	981	963	889	2320	2640	4120	5630	5200	2740	808	2410	2350
20	978	944	981	2310	2600	3180	5510	5000	2620	830	2470	2330
21	972	925	794	2300	2420	3240	5370	4450	2690	968	2780	2250
22	972	1200	853	2780	2340	3350	5270	4540	2770	964	2970	2280
23	976	1600	907	2700	2300	3360	4590	4080	2550	961	2540	1880
24	972	1590	881	2500	2300	3430	3440	3800	2540	959	2550	1880
25	989	983	863	2300	2330	3960	3570	4310	2330	938	2660	1880
26	987	954	860	2300	2300	14400	3720	7460	2030	907	2640	1640
27	1010	974	877	2400	2380	19700	3650	9400	2610	1260	2230	958
28	999	880	877	2750	2220	16400	4930	9170	2710	1940	1570	938
29	982	799	849	2720	---	12600	12700	8670	2520	2050	1380	973
30	995	799	856	4070	---	10500	15400	10100	2470	2050	1140	1350
31	1030	---	860	5340	---	10500	---	14600	---	1980	1160	---
TOTAL	29304	31792	26454	84688	88780	191080	214490	217260	152010	54700	65290	54499
MEAN	945	1060	853	2732	3171	6164	7150	7008	5067	1765	2106	1817
MAX	1100	1680	981	5340	5920	19700	15400	14700	15600	2570	3540	2360
MIN	840	740	794	868	2220	2260		2790	2030	808	1140	938
CAL YR 1978	TOTAL	925774	MEAN	2536	MAX	9730	MIN	667				
WTR YR 1979	TOTAL	1210347	MEAN	3316	MAX	19700	MIN	740				

ST. CROIX RIVER BASIN

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 Aug. 21, 22, 1977; minimum, 0.0°C on many days during winter periods.

DISSOLVED OXYGEN: Maximum, 14.7 mg/L Nov. 23, 1975; minimum, 0.5 mg/L Aug. 19, 1975.

EXTREMES FOR CURRENT YEAR.--

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

pH: Maximum, 11.5 units Aug. 6; minimum, 6.1 units June 2, Sept. 8-10, 12, 18.

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

DISSOLVED OXYGEN: Maximum, 13.6 mg/L Feb. 7, Apr. 13; minimum, 2.8 mg/L July 28.

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979

DATE	TIME	STREAM- FLOW, INSTAN- TANEOUS (CFS)	SPE- CIFIC CON- DUCT- ANCE (MICRO- MHOS)	PH (UNITS)	TEMPER- ATURE, AIR (DEG C)	TEMPER- ATURE (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)
OCT 19...	1615	982	120	6.6	9.0	10.0	2.0	8.7	77	22	19
NOV 16...	1045	827	150	6.7	.5	5.0	2.0	11.2	88	130	--
JAN 03...	1600	2620	100	6.6	-.5	1.5	6.0	11.9	85	140	360
FEB 14...	0945	2810	80	6.3	-10.0	.5	3.0	12.2	85	>600	K4
MAR 21...	1000	3180	70	6.6	8.0	2.0	1.0	12.6	91	K14	33
APR 11...	1030	8660	41	6.5	8.5	2.5	2.0	13.2	96	K340	K4
MAY 23...	1600	3790	55	6.6	14.5	18.0	1.0	8.0	84	K14	K5
JUN 28...	1130	2710	71	7.0	23.0	19.5	1.0	6.6	71	42	K9
JUL 24...	0945	958	105	6.7	22.5	25.5	1.0	5.3	64	42	K11
AUG 29...	0930	1470	90	6.7	22.5	20.0	1.0	7.1	77	53	140
SEP 19...	0900	2350	56	6.3	16.0	17.0	1.0	7.3	75	22	83

DATE	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)	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- LITY (MG/L AS CACO3)	CARBON DIOXIDE DIS- SOLVED (MG/L AS CO2)
OCT 19...	18	0	5.6	.9	13	60	1.3	--	1.0	24	--
NOV 16...	17	1	5.4	.9	18	68	1.9	--	1.2	16	--
JAN 03...	16	2	5.0	.9	11	58	1.2	--	.9	14	--
FEB 14...	15	5	4.5	.9	7.9	52	.9	--	.7	10	--
MAR 21...	--	--	--	--	--	--	--	--	--	10	--
APR 11...	9	1	3.0	.4	2.8	38	.4	--	.5	8	--
MAY 23...	12	0	3.6	.7	6.4	53	.8	6.9	.5	16	--
JUN 28...	13	0	4.2	.6	7.8	55	.9	--	.6	16	--
JUL 24...	17	0	5.7	.7	12	59	1.3	13	.8	25	9.7
AUG 29...	15	0	4.5	.8	11	61	1.3	12	.6	15	5.8
SEP 19...	13	0	4.0	.8	5.2	45	.6	5.6	.4	17	--

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979

DATE	NITRO- GEN, AMMONIA TOTAL (MG/L AS NH4)	NITRO- GEN, ORGANIC TOTAL (MG/L AS N)	NITRO- GEN,AM- MONIA + ORGANIC 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 N03)	PHOS- PHORUS, TOTAL (MG/L AS P)	PHOS- PHATE, TOTAL (MG/L AS P04)	PHOS- PHORUS TOTAL (MG/L AS P04)	PHOS- PHORUS, DIS- SOLVED (MG/L AS P)
OCT 19...	--	.53	.59	.36	.62	--	2.7	.03	--	--	.01
NOV 16...	--	.54	.56	.48	.61	--	2.7	.03	--	--	.00
JAN 03...	--	.57	.62	.55	.79	--	3.5	.06	--	--	.01
FEB 14...	--	.80	.81	.34	.89	--	3.9	.02	--	--	.00
MAR 21...	--	.26	.31	.35	.41	--	1.8	.01	--	--	.02
APR 11...	--	.25	.26	.23	.30	--	1.3	.01	--	--	.00
MAY 23...	.05	.29	.33	.30	.34	--	1.5	.03	.09	.09	.00
JUN 28...	.08	.61	.68	.37	.68	--	3.0	.02	.06	.06	.00
JUL 24...	.07	.41	.47	.52	.52	--	2.3	.03	--	.09	.01
AUG 29...	.10	.53	.61	.52	.69	--	3.1	.02	--	.06	.01
SEP 19...	.01	.49	.50	.24	.52	.28	2.3	.03	--	.09	.02

[illegible]

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

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979

DATE	COBALT, TOTAL RECOV- ERABLE (UG/L AS CO)	COBALT, SUS- PENDE RECOV- ERABLE (UG/L AS CO)	COBALT, DIS- SOLVED (UG/L AS CO)	COPPER, TOTAL RECOV- ERABLE (UG/L AS CU)	COPPER, SUS- PENDE RECOV- ERABLE (UG/L AS CU)	COPPER, DIS- SOLVED (UG/L AS CU)	IRON, TOTAL RECOV- ERABLE (UG/L AS FE)	IRON, SUS- PENDE RECOV- ERABLE (UG/L AS FE)	IRON, DIS- SOLVED (UG/L AS FE)	LEAD, TOTAL RECOV- ERABLE (UG/L AS PB)	LEAD, SUS- PENDE RECOV- ERABLE (UG/L AS PB)
OCT 19...	--	--	--	--	--	--	--	--	--	--	--
NOV 16...	0	0	0	4	1	3	330	160	170	5	1
JAN 03...	--	--	--	--	--	--	--	--	--	--	--
FEB 14...	1	0	1	1	0	1	170	0	180	8	5
MAR 21...	--	--	0	--	--	2	--	--	60	--	--
APR 11...	--	--	--	--	--	--	--	--	--	--	--
MAY 23...	1	1	0	4	2	2	330	230	100	10	8
JUN 28...	--	--	--	--	--	--	--	--	--	--	--
JUL 24...	--	--	--	--	--	--	--	--	--	--	--
AUG 29...	0	0	0	7	3	4	380	170	210	10	6
SEP 19...	--	--	--	--	--	--	--	--	--	--	--

DATE	LEAD, DIS- SOLVED (UG/L AS PB)	MANGA- NESE, TOTAL RECOV- ERABLE (UG/L AS MN)	MANGA- NESE, SUS- PENDE RECOV. (UG/L AS MN)	MANGA- NESE, 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)	SELE- NIUM, TOTAL RECOV- ERABLE (UG/L AS SE)	SELE- NIUM, SUS- PENDE RECOV- ERABLE (UG/L AS SE)	SILVER, TOTAL RECOV- ERABLE (UG/L AS AG)
OCT 19...	--	--	--	--	--	--	--	--	--	--
NOV 16...	4	80	0	90	<.5	.0	<.5	0	0	0
JAN 03...	--	--	--	--	--	--	--	--	--	--
FEB 14...	3	60	0	60	<.5	.0	<.5	0	0	0
MAR 21...	85	--	--	--	--	--	--	--	--	--
APR 11...	--	--	--	--	--	--	--	--	--	--
MAY 23...	2	60	20	40	<.5	.0	<.5	0	0	0
JUN 28...	--	--	--	--	--	--	--	--	--	--
JUL 24...	--	--	--	--	--	--	--	--	--	--
AUG 29...	4	60	20	40	<.5	<.0	<.5	0	0	0
SEP 19...	--	--	--	--	--	--	--	--	--	--

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 TOTAL (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 19...	--	--	--	--	--	10	--	--	7	19	80
NOV 16...	0	0	0	0	--	--	13	1.1	12	27	100
JAN 03...	--	--	--	--	--	13	--	--	38	269	100
FEB 14...	0	0	40	30	10	--	16	.4	9	68	80
MAR 21...	--	0	--	--	210	10	--	--	8	69	100
APR 11...	--	--	--	--	--	8.4	--	--	4	94	100
MAY 23...	0	0	10	7	3	--	143	.4	4	41	100
JUN 28...	--	--	--	--	--	6.7	--	--	1	7.3	100
JUL 24...	--	--	--	--	--	11	--	--	3	7.8	100
AUG 29...	0	0	10	0	10	--	191	.3	19	75	69
SEP 19...	--	--	--	--	--	18	--	--	1	6.3	100

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

PHYTOPLANKTON ANALYSES, OCTOBER 1978 TO SEPTEMBER 1979

DATE TIME	NOV 16,78 1045	MAR 21,79 1000	MAY 25,79 1600	JUN 28,79 1130				
TOTAL CELLS/ML	180000	390	550	7800				
DIVERSITY: DIVISION	0.0	1.9	0.8	0.1				
..CLASS	0.0	2.1	0.8	0.1				
..ORDER	0.0	2.5	1.1	0.1				
...FAMILY	0.0	2.9	1.1	0.1				
....GENUS	0.0	3.1	1.1	0.1				
ORGANISM	CELLS /ML	PER- CENT	CELLS /ML	PER- CENT	CELLS /ML	PER- CENT	CELLS /ML	PER- CENT
CHLOROPHYTA (GREEN ALGAE)								
..CHLOROPHYCEAE								
...CHLOROCOCCALES								
....HYDRODICTYACEAE								
....PEDIASTRUM	--	-	--	-	--	-	--	-
....OOCYSTACEAE								
....ANKISTRODESMUS	--	-	15	4	13	2	*	0
....OUCYSTIS	--	-	20	5	--	-	--	-
....TETRAEDRON	--	-	5	1	--	-	--	-
...SCENEDESMACEAE								
....SCENEDESMUS	--	-	--	-	--	-	52	1
...VOLVOCALES								
...CHLAMYDOMONADACEAE								
....CHLAMYDOMONAS	--	-	--	-	26	5	--	-
CHRYSTOPHYTA								
..BACILLARIOPHYCEAE								
...CENTRALES								
...COSCINODISCAEAE								
....CYCLOTELLA	--	-	56	14	39	7	--	-
...PENNALES								
....ACHNANTHACEAE								
....ACHNANTHES	*	0	--	-	--	-	--	-
...DIATOMACEAE								
....DIATOMA	--	-	5	1	--	-	--	-
...FRAGILARIACEAE								
....FRAGILARIA	--	-	5	1	--	-	--	-
...SYNEDRA	--	-	--	-	13	2	--	-
...NAVICULACEAE								
....NAVICULA	--	-	15	4	--	-	--	-
...NITZSCHIAEAE								
....NITZSCHIA	--	-	5	1	--	-	--	-
...CHRYSTOPHYCEAE								
...CHRYSONOMADACEAE								
....CHRYSONOMADACEAE								
....DINOBRYON	--	-	25	6	--	-	--	-
CRYPTOPHYTA (CRYPTOMONADS)								
..CRYPTOPHYCEAE								
...CRYPTOMONADACEAE								
....CRYPTOMONAS	--	-	--	-	--	-	--	-
CYANOPHYTA (BLUE-GREEN ALGAE)								
..CYANOPHYCEAE								
...CHROOCOCCALES								
...CHROOCOCCACEAE								
....ANACYSTIS	*	0	20	5	13	2	--	-
...HORMOGONALES								
...NOSTOCACEAE								
....ANABAENA	--	-	36	9	--	-	--	-
...OSCILLATORIAEAE								
....LYNGBYA	--	-	--	-	--	-	--	-
....OSCILLATORIA	180000#100	--	100# 26	--	450# 81	--	7700# 99	--
....SCHIZOTHRIX	--	-	--	-	--	-	--	-
EUGLENOPHYTA (EUGLENOIDS)								
..EUGLENOPHYCEAE								
...EUGLENALES								
...EUGLENACEAE								
....TRACHELOMONAS	--	-	81# 21	--	--	-	--	-
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%

ST. CROIX RIVER BASIN

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

PHYTOPLANKTON ANALYSES, OCTOBER 1978 TO SEPTEMBER 1979

DATE TIME	JUL 24,79 0945	AUG 29,79 0930	SEP 19,79 0900			
TOTAL CELLS/ML	76000	250000	720			
DIVERSITY: DIVISION	0.0	0.0	0.9			
..CLASS	0.0	0.0	0.9			
...ORDER	0.0	0.3	1.7			
...FAMILY	0.0	0.3	1.7			
...GENUS	0.0	0.3	1.7			
ORGANISM	CELLS /ML	PER- CENT	CELLS /ML	PER- CENT	CELLS /ML	PER- CENT
CHLOROPHYTA (GREEN ALGAE)						
..CHLOROPHYCEAE						
...CHLOKOCOCCALES						
...HYDRODICTYACEAE						
....PEDIASTRUM	--	-	* 0		--	-
....OOCYSTACEAE						
....ANKISTRODESMUS	--	-	--	-	--	-
....OOCYSTIS	--	-	--	-	--	-
....TETRAEDRON	--	-	--	-	--	-
...SCENEDESMACEAE						
...SCENEDESMUS	--	-	* 0		110#	16
...VOLVOCALES						
...CHLAMYDOMONADACEAE						
....CHLAMYDOMONAS	--	-	--	-	--	-
CHRYSOPHYTA						
..BACILLARIOPHYCEAE						
...CENTRALES						
...COSCINODISCACEAE						
....CYCLOTELLA	--	-	--	-	--	-
...PENNALES						
...ACHNANTHACEAE						
....ACHNANTHES	--	-	* 0		--	-
...DIATOMACEAE						
....DIATOMA	--	-	--	-	--	-
...FRAGILARIACEAE						
....FRAGILARIA	--	-	--	-	--	-
....SYNEDRA	--	-	--	-	--	-
...NAVICULACEAE						
....NAVICULA	--	-	--	-	--	-
...NITZSCHIACEAE						
....NITZSCHIA	--	-	--	-	14	2
..CHRYSOPHYCEAE						
...CHRYSOMONADALES						
...OCHROMONADACEAE						
....DINOBRYON	--	-	--	-	--	-
CRYPTOPHYTA (CRYPTOMONADS)						
..CRYPTOPHYCEAE						
...CRYPTOMONADALES						
...CRYPTOMONADACEAE						
....CRYPTOMONAS	--	-	* 0		--	-
CYANOPHYTA (BLUE-GREEN ALGAE)						
..CYANOPHYCEAE						
...CHROOCOCCALES						
...CHROOCOCCACEAE						
....ANACYSTIS	--	-	12000	5	230#	32
...HORMOGONALES						
...NOSTOCACEAE						
....ANABAENA	--	-	--	-	--	-
...OSCILLATORIACEAE						
....LYNGBYA	--	-	--	-	340#	48
...OSCILLATORIA	76000#100		--	-	--	-
...SCHIZOTHRIX	--	-	240000#	95	--	-
EUGLENOPHYTA (EUGLENOIDS)						
..EUGLENOPHYCEAE						
...EUGLENALES						
...EUGLENACEAE						
....TRACHELOMONAS	--	-	--	-	--	-
PYRRHOPHYTA (FIRE ALGAE)						
..DINOPHYCEAE						
...PERIDINIALES						
...GLENODINIACEAE						
....GLENODINIUM	--	-	--	-	14	2

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

BIOLOGICAL DATA, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979

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 21 TO OCT 19	28	.551	.315	.600	.660	393
JUN 28 TO JUL 24	26	.390	.240	.000	.000	---
JUL 24 TO AUG 29	36	15.0	9.84	3.55	.450	1450
AUG 29 TO SEP 19	21	.710	.470	2.45	.350	98.0

ST. CROIX RIVER BASIN

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

SPECIFIC CONDUCTANCE (MICROMHOS/CM AT 25 DEG. C), WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
OCTOBER			NOVEMBER			DECEMBER			JANUARY			
1	116	111	114	152	146	149	---	---	---	---	---	---
2	119	113	117	162	149	154	---	---	---	---	---	---
3	125	118	121	165	159	162	---	---	---	---	---	---
4	126	120	124	170	160	166	---	---	---	86	71	78
5	124	116	119	174	146	165	---	---	---	82	64	72
6	123	117	120	145	119	129	---	---	---	77	71	75
7	121	116	120	115	100	104	---	---	---	77	70	72
8	114	109	111	137	103	117	---	---	---	71	63	68
9	129	113	119	149	119	138	---	---	---	63	58	60
10	130	124	128	120	112	114	---	---	---	68	65	66
11	130	123	127	---	---	---	---	---	---	70	67	69
12	126	120	122	---	---	---	---	---	---	73	70	71
13	126	120	123	---	---	---	---	---	---	74	72	73
14	123	115	120	---	---	---	---	---	---	76	72	73
15	121	116	118	---	---	---	---	---	---	78	74	76
16	133	123	130	---	---	---	---	---	---	80	75	77
17	133	124	128	154	136	146	---	---	---	93	79	87
18	131	124	127	142	137	138	---	---	---	94	88	92
19	121	118	119	154	143	151	---	---	---	96	84	90
20	122	117	120	151	146	148	---	---	---	93	84	89
21	126	120	122	148	142	146	---	---	---	89	87	88
22	131	123	128	145	140	143	---	---	---	92	86	89
23	136	132	134	140	100	111	---	---	---	88	77	82
24	134	129	131	101	98	100	---	---	---	81	77	79
25	136	126	130	124	101	106	---	---	---	78	75	77
26	145	136	139	130	124	129	---	---	---	82	75	80
27	148	142	145	---	---	---	---	---	---	82	80	81
28	160	149	155	---	---	---	---	---	---	81	75	77
29	155	146	150	---	---	---	---	---	---	76	72	74
30	155	149	151	---	---	---	---	---	---	73	63	70
31	157	147	153	---	---	---	---	---	---	62	58	60
MONTH	160	109	128	174	98	136	---	---	---	96	58	77
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
FEBRUARY			MARCH			APRIL			MAY			
1	59	55	57	87	71	81	40	39	40	27	25	26
2	56	55	55	75	70	72	42	40	41	25	23	24
3	56	54	55	77	75	76	45	41	43	27	23	24
4	58	55	57	82	76	78	46	44	45	26	23	25
5	63	58	59	85	83	84	46	44	45	27	24	26
6	64	60	63	83	71	76	49	46	47	26	23	25
7	67	63	65	71	65	68	50	45	48	32	25	28
8	70	66	68	67	55	62	45	43	44	36	28	31
9	91	72	82	---	---	---	44	42	43	44	34	37
10	83	73	79	---	---	---	46	39	43	52	44	47
11	79	74	77	---	---	---	43	40	42	72	51	56
12	80	76	78	---	---	---	41	39	40	69	59	62
13	79	74	77	62	52	57	42	38	40	62	56	58
14	78	74	77	57	53	55	45	39	42	61	58	59
15	81	74	78	56	53	55	45	41	56	60	57	59
16	88	75	80	63	54	59	49	40	44	59	51	56
17	79	73	76	64	54	59	50	43	47	52	46	50
18	77	74	76	58	55	56	45	41	43	52	48	50
19	81	74	77	64	57	60	46	42	44	54	47	50
20	83	81	82	70	65	69	48	41	44	55	48	51
21	86	83	85	70	63	68	50	40	45	58	51	54
22	95	87	91	64	59	61	50	45	48	61	55	58
23	92	89	90	63	59	60	52	46	48	61	54	56
24	99	91	95	64	59	62	71	52	62	61	57	59
25	94	88	90	63	56	58	64	56	59	63	57	61
26	92	89	90	68	35	47	56	50	53	58	46	52
27	93	89	91	36	29	32	56	52	54	48	46	47
28	92	84	86	30	28	29	52	47	50	51	48	49
29	---	---	---	38	30	34	46	29	35	49	46	47
30	---	---	---	41	38	39	29	25	27	46	43	45
31	---	---	---	40	39	40	---	---	---	45	39	41
MONTH	99	54	76	87	28	59	71	25	45	72	23	46

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

SPECIFIC CONDUCTANCE (MICROMHOS/CM AT 25 DEG. C), WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
	JUNE			JULY			AUGUST			SEPTEMBER		
1	39	37	38	---	---	---	87	80	84	109	88	102
2	39	36	37	---	---	---	97	88	92	84	71	76
3	41	36	37	---	---	---	110	94	100	88	79	84
4	40	37	39	---	---	---	123	92	103	88	76	82
5	43	39	40	---	---	---	121	94	102	78	63	73
6	44	41	43	51	45	48	334	90	104	62	50	56
7	44	41	43	53	47	50	139	91	113	54	41	45
8	51	43	47	57	46	50	151	133	143	50	40	42
9	55	50	53	---	---	---	131	101	117	46	41	43
10	55	51	53	---	---	---	102	93	98	44	39	41
11	55	50	53	78	57	68	101	91	95	39	35	37
12	61	54	56	75	66	70	100	92	96	48	35	40
13	61	55	58	77	68	73	92	88	90	82	41	62
14	60	53	55	83	72	78	92	72	87	56	40	49
15	66	59	62	79	72	76	68	55	60	39	34	36
16	70	62	65	77	67	70	59	51	54	37	34	35
17	69	63	66	112	69	91	61	51	56	38	34	36
18	68	64	66	129	111	120	61	54	57	46	35	40
19	67	62	64	133	126	130	70	61	63	63	57	54
20	68	63	65	127	116	120	69	63	66	69	61	64
21	68	63	66	126	108	118	69	64	66	70	65	67
22	66	62	64	118	109	113	63	57	59	71	67	69
23	70	63	67	114	108	111	69	61	64	78	67	72
24	76	64	69	113	108	114	71	64	68	76	70	72
25	71	63	66	126	110	118	68	65	67	73	67	70
26	80	66	73	134	109	124	77	66	71	78	71	74
27	---	---	---	125	103	110	70	65	67	98	73	81
28	---	---	---	124	100	113	89	67	79	114	101	107
29	72	59	65	98	81	87	95	84	89	114	108	112
30	69	58	63	80	64	70	108	92	97	113	95	106
31	---	---	---	85	70	76	113	106	109	---	---	---
MONTH	80	36	56	134	45	92	334	51	84	114	34	64
YEAR	334	23	77									

PH (STANDARD UNITS), WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979

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

PH (STANDARD UNITS), WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979

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

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
JUNE				JULY			AUGUST			SEPTEMBER		
1	6.3	6.2	6.2	---	---	---	6.5	6.4	6.4	6.4	6.4	6.4
2	6.2	6.1	6.2	---	---	---	6.5	6.4	6.4	6.4	6.2	6.3
3	6.2	6.2	6.2	---	---	---	6.6	6.5	6.5	6.3	6.3	6.3
4	6.3	6.2	6.2	---	---	---	6.5	6.5	6.5	6.6	6.3	6.4
5	6.3	6.2	6.3	---	---	---	6.5	6.4	6.5	6.5	6.4	6.4

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

TEMPERATURE, WATER (DEG. C), WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979

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

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

TEMPERATURE, WATER (DEG. C), WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
	JUNE			JULY			AUGUST			SEPTEMBER		
1	14.0	13.5	13.5	---	---	---	25.5	23.5	24.0	21.5	20.0	20.5
2	15.0	13.5	14.5	---	---	---	24.0	24.0	24.0	22.5	20.0	21.0
3	15.0	14.5	15.0	---	---	---	26.0	23.5	24.5	22.5	21.0	21.5
4	16.0	15.0	15.5	---	---	---	26.0	24.5	25.5	22.0	21.5	22.0
5	16.0	15.5	15.5	---	---	---	27.0	25.0	26.0	22.5	21.0	21.5
6	17.5	15.5	16.5	20.5	18.5	19.5	26.5	24.5	25.5	22.5	20.5	21.5
7	18.5	16.0	17.0	22.0	19.0	20.5	25.5	24.0	24.5	21.5	20.0	20.5
8	19.0	16.5	17.5	22.5	20.0	21.0	24.5	24.0	24.0	21.0	19.5	20.0
9	18.5	17.5	18.0	---	---	---	24.0	23.0	23.5	20.5	19.0	19.5
10	19.0	17.5	18.5	---	---	---	23.5	21.0	22.0	20.5	18.5	19.5
11	20.5	18.0	19.0	24.0	22.0	23.0	21.5	20.0	20.5	19.5	18.0	18.5
12	19.5	18.5	19.0	24.5	22.0	23.0	21.5	20.0	20.5	19.5	17.5	18.5
13	19.0	17.5	18.0	25.5	23.0	24.0	20.0	19.0	19.0	19.5	17.5	18.5
14	20.0	17.0	18.5	26.0	23.5	24.5	19.5	18.0	18.5	19.5	17.5	18.5
15	20.5	18.0	19.0	25.0	23.0	24.0	19.5	18.5	19.0	19.5	18.5	19.0
16	22.0	19.0	20.5	24.5	23.0	23.5	19.0	17.5	18.5	18.5	17.0	18.0
17	22.5	20.0	21.5	23.0	22.5	22.5	19.5	17.0	18.5	19.0	16.5	18.0
18	22.0	20.0	21.0	24.0	23.0	23.5	19.0	17.5	18.5	19.5	17.0	18.5
19	22.0	19.5	21.0	25.5	24.0	24.5	18.5	17.5	17.5	19.0	16.5	17.5
20	22.5	20.0	21.0	25.5	24.0	25.0	18.0	17.5	17.5	17.0	15.0	16.0
21	22.5	20.0	21.0	25.0	24.5	24.5	18.0	17.0	17.5	17.0	15.5	16.5
22	22.0	20.0	20.5	25.5	24.5	25.0	19.5	17.5	18.5	16.5	16.0	16.0
23	20.5	20.0	20.0	25.5	25.0	25.5	20.5	17.5	19.0	16.0	14.5	15.5
24	20.5	19.5	20.0	26.0	25.5	26.0	20.0	18.0	19.0	16.5	14.5	15.5
25	20.0	18.5	19.0	26.0	24.0	25.0	20.0	19.0	19.5	16.0	14.5	15.5
26	21.0	17.5	19.0	24.0	23.5	24.0	21.5	19.0	20.0	16.0	15.0	15.5
27	---	---	---	25.0	23.5	24.0	21.0	20.0	20.0	16.0	15.0	15.0
28	---	---	---	25.0	24.0	24.5	21.5	19.5	20.0	16.0	15.5	15.5
29	22.0	19.0	20.5	26.5	24.0	25.0	21.5	20.0	21.0	16.5	16.0	16.5
30	22.0	19.5	21.0	26.5	24.5	25.5	21.5	20.5	21.0	16.5	15.0	15.5
31	---	---	---	26.5	24.0	25.5	21.5	21.0	21.0	---	---	---
MONTH	22.5	13.5	18.5	26.5	18.5	24.0	27.0	17.0	21.0	22.5	14.5	18.0
YEAR	27.0	.0	11.0									

OXYGEN, DISSOLVED (DO), MG/L, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
OCTOBER				NOVEMBER			DECEMBER			JANUARY		
1	7.9	7.6	7.7	9.5	9.2	9.3	---	---	---	---	---	---
2	7.7	7.3	7.5	9.5	9.3	9.4	---	---	---	---	---	---
3	7.9	7.6	7.8	9.5	9.2	9.3	---	---	---	---	---	---
4	8.2	8.0	8.1	10.0	9.3	9.7	---	---	---	---	---	---
5	8.4	8.1	8.3	10.1	9.6	9.8	---	---	---	---	---	---
6	8.1	7.7	7.8	10.2	9.9	10.1	---	---	---	---	---	---
7	7.8	7.5	7.6	10.5	10.2	10.3	---	---	---	---	---	---
8	8.2	7.6	7.9	10.5	10.3	10.4	---	---	---	---	---	---
9	8.6	8.2	8.4	10.6	10.2	10.4	---	---	---	---	---	---
10	8.9	8.6	8.8	10.4	10.2	10.3	---	---	---	---	---	---
11	8.8	8.5	8.6	---	---	---	---	---	---	---	---	---
12	8.6	8.2	8.4	---	---	---	---	---	---	---	---	---
13	8.4	8.0	8.2	---	---	---	---	---	---	---	---	---
14	8.1	7.8	7.9	---	---	---	---	---	---	---	---	---
15	8.1	7.9	8.0	---	---	---	---	---	---	---	---	---
16	8.9	8.2	8.5	---	---	---	---	---	---	---	---	---
17	9.1	8.9	9.0	11.5	11.3	11.4	---	---	---	---	---	---
18	9.2	9.1	9.2	11.3	10.4	10.9	---	---	---	---	---	---
19	9.3	8.6	8.9	10.6	10.1	10.4	---	---	---	---	---	---
20	8.7	8.6	8.6	11.4	10.7	11.1	---	---	---	---	---	---
21	8.7	8.5	8.6	11.9	11.5	11.7	---	---	---	---	---	---
22	8.6	8.4	8.5	12.2	11.8	12.0	---	---	---	---	---	---
23	8.6	8.2	8.4	12.3	11.8	12.1	---	---	---	---	---	---
24	9.3	8.7	9.0	11.8	11.3	11.6	---	---	---	---	---	---
25	9.5	9.3	9.4	11.3	11.0	11.1	---	---	---	---	---	---
26	9.6	8.9	9.3	12.3	11.1	11.5	---	---	---	---	---	---
27	9.0	8.7	8.9	---	---	---	---	---	---	---	---	---
28	8.9	8.6	8.7	---	---	---	---	---	---	---	---	---
29	9.1	8.6	8.8	---	---	---	---	---	---	---	---	---
30	9.5	9.1	9.3	---	---	---	---	---	---	---	---	---
31	9.7	9.4	9.5	---	---	---	---	---	---	---	---	---
MONTH	9.7	7.3	8.5	12.3	9.2	10.6	---	---	---	---	---	---

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OXYGEN, DISSOLVED (DO), MG/L. WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
FEBRUARY				MARCH			APRIL			MAY		
1	---	---	---	11.7	10.9	11.3	12.8	12.8	12.8	11.3	11.1	11.2
2	---	---	---	11.7	11.5	11.6	13.0	12.8	12.9	11.5	11.2	11.2
3	13.4	13.0	13.1	11.8	11.6	11.7	12.9	12.6	12.8	11.6	11.1	11.2
4	13.5	13.1	13.2	11.7	11.6	11.7	12.8	12.7	12.7	11.4	10.8	11.1
5	13.4	12.9	13.1	11.7	11.5	11.6	12.7	12.5	12.6	10.9	10.5	10.7
6	13.4	13.0	13.1	11.7	11.5	11.5	12.7	12.2	12.4	11.2	10.7	11.0
7	13.6	12.8	13.1	11.9	11.6	11.7	12.4	12.3	12.4	11.3	11.0	11.1
8	12.9	12.2	12.6	12.4	11.9	12.1	12.7	12.5	12.6	11.0	10.5	10.9
9	12.4	12.0	12.1	---	---	---	12.9	12.6	12.8	10.5	9.9	10.3
10	12.3	11.9	12.2	---	---	---	12.9	12.6	12.6	9.8	9.4	9.7
11	12.8	12.0	12.2	---	---	---	13.4	12.7	13.0	9.4	8.9	9.3
12	12.2	11.9	12.0	---	---	---	13.4	13.0	13.2	9.0	8.8	8.9
13	12.5	11.9	12.1	---	---	---	13.6	13.0	13.3	8.9	8.7	8.9
14	12.1	11.6	11.8	---	---	---	13.4	12.8	13.1	8.7	8.4	8.5
15	11.6	11.3	11.4	---	---	---	13.0	12.5	12.7	8.6	8.3	8.4
16	11.8	11.5	11.6	---	---	---	12.7	12.0	12.4	8.7	8.4	8.5
17	11.9	11.6	11.7	---	---	---	12.1	11.8	11.9	8.8	8.6	8.7
18	11.8	11.5	11.6	---	---	---	12.0	11.8	11.9	8.8	8.1	8.6
19	11.6	11.5	11.6	---	---	---	11.9	11.7	11.8	8.7	8.4	8.5
20	11.9	11.5	11.7	---	---	---	11.9	11.7	11.8	8.3	8.0	8.1
21	11.7	11.5	11.6	12.9	12.4	12.8	12.0	11.7	11.8	8.0	7.5	7.8
22	11.6	11.4	11.8	12.8	12.4	12.6	11.8	11.5	11.7	7.9	7.4	7.6
23	11.8	11.5	11.7	12.6	12.2	12.3	11.8	11.0	11.4	8.3	7.5	7.8
24	11.7	11.5	11.6	12.3	12.0	12.2	10.9	10.7	10.8	8.0	7.8	7.9
25	11.7	11.5	11.6	12.3	12.0	12.1	10.9	10.7	10.8	8.4	7.7	8.0
26	11.9	11.7	11.8	---	---	---	10.8	10.6	10.7	9.3	8.3	8.8
27	11.8	11.2	11.5	---	---	---	10.6	10.4	10.5	9.6	9.2	9.4
28	11.4	11.2	11.3	---	---	---	10.7	10.4	10.5	9.5	9.1	9.4
29	---	---	---	---	---	---	11.1	10.7	11.0	9.4	9.3	9.3
30	---	---	---	13.1	12.9	13.0	11.2	11.1	11.2	9.5	9.3	9.4
31	---	---	---	13.0	12.8	12.9	---	---	---	9.5	9.4	9.4
MONTH	13.6	11.2	12.0	13.1	10.9	12.1	13.6	10.4	12.1	11.6	7.4	9.3
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
JUNE				JULY			AUGUST			SEPTEMBER		
1	9.4	9.4	9.4	---	---	---	6.2	5.7	5.9	7.2	6.7	6.9
2	9.3	9.0	9.2	---	---	---	6.0	5.6	5.8	7.3	6.9	7.2
3	8.9	8.7	8.8	---	---	---	6.0	5.3	5.7	7.1	6.5	6.8
4	8.6	8.4	8.6	---	---	---	5.7	5.1	5.6	6.6	5.9	6.3
5	8.7	8.1	8.5	---	---	---	6.2	5.0	5.7	6.7	5.8	6.2
6	8.5	8.3	8.4	8.1	7.5	7.8	7.9	5.8	6.2	7.3	6.4	6.7
7	8.6	8.5	8.6	8.0	7.7	7.8	6.5	6.0	6.2	7.3	7.1	7.2
8	8.7	8.2	8.6	7.9	7.6	7.7	6.2	5.4	5.8	7.4	6.8	7.1
9	8.3	8.1	8.2	---	---	---	7.0	5.7	6.2	7.7	7.0	7.3
10	8.3	8.0	8.1	---	---	---	6.9	6.2	6.5	7.9	7.3	7.5
11	8.3	7.9	8.1	7.2	6.7	6.9	7.0	6.8	7.0	8.2	7.4	7.8
12	8.0	7.6	7.8	6.9	6.5	6.8	7.4	6.7	7.0	8.0	7.6	7.7
13	8.2	7.5	7.8	6.7	6.3	6.5	7.8	7.4	7.7	7.7	5.8	6.2
14	8.2	7.9	8.0	6.4	6.0	6.2	8.0	7.6	7.8	7.3	5.8	6.6
15	7.9	7.5	7.7	6.6	6.1	6.4	8.6	8.1	8.4	7.8	7.3	7.5
16	7.7	7.3	7.5	6.4	5.9	6.1	8.8	8.5	8.6	7.9	7.4	7.7
17	7.3	7.0	7.2	5.8	5.3	5.5	8.9	8.6	8.8	7.8	7.5	7.7
18	7.1	6.8	6.9	5.6	5.3	5.4	8.9	8.7	8.8	7.6	7.2	7.5
19	7.0	6.7	6.8	5.4	5.0	5.2	8.7	8.4	8.5	7.6	7.3	7.4
20	6.8	6.4	6.7	5.4	5.1	5.2	8.5	8.3	8.4	7.9	7.5	7.7
21	6.6	6.4	6.5	5.7	5.1	5.3	8.7	8.2	8.5	7.9	7.5	7.7
22	6.4	6.1	6.5	5.8	5.2	5.5	8.8	8.5	8.6	7.9	7.7	7.8
23	6.2	5.9	6.0	5.7	5.0	5.3	8.5	8.2	8.4	8.2	7.7	7.9
24	6.2	5.5	5.9	5.9	5.3	5.5	8.2	7.9	8.1	8.3	8.0	8.1
25	6.6	5.7	6.2	5.9	4.1	4.9	8.1	7.8	7.9	8.2	7.9	8.1
26	6.5	6.1	6.2	4.9	3.2	3.9	7.8	7.4	7.6	8.1	7.8	8.0
27	---	---	---	5.5	4.7	5.2	7.8	7.4	7.5	8.1	7.4	7.6
28	---	---	---	5.2	2.8	3.9	7.3	6.9	7.1	7.6	7.3	7.4
29	7.3	6.7	7.1	4.6	4.0	4.3	7.3	6.9	7.2	7.6	7.1	7.3
30	7.3	7.1	7.2	5.7	4.8	5.3	7.2	6.7	6.8	7.7	7.4	7.5
31	---	---	---	6.4	5.5	5.9	7.0	6.4	6.7	---	---	---
MONTH	9.4	5.5	7.6	8.1	2.8	5.8	8.9	5.0	7.3	8.3	5.8	7.4
PERIOD	13.6	2.8	9.1									

DENNY'S RIVER BASIN

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 and period of no gage-height record Dec. 12 to Jan. 3, 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.--24 years, 195 ft³/s (5.522 m³/s), 28.61 in/yr (727 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 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)
Jan. 3	unknown	*2230 63.2	a*6.86 2.091	Apr. 29	1800	2030 40.2	5.38 1.640
Jan. 30	2400	982 27.8	4.38 1.335	May 16	1700	872 24.7	4.11 1.253
Mar. 8	1700	1580 44.7	5.69 1.734	May 26	2300	1050 29.7	4.55 1.387
Mar. 26	0900	2180 61.7	6.78 2.066	May 31	1100	1230 34.8	4.97 1.515
Apr. 10	1400	1420 40.2	5.38 1.640				

a From peak-stage indicator.

Minimum discharge, 30 ft³/s (0.85 m³/s) Nov. 27, gage height, 0.62 ft (0.189 m).

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	34	71	65	150	744	345	530	1110	1020	120	61	68
2	40	64	65	1200	550	285	485	849	755	189	74	63
3	39	61	60	1850	450	235	450	770	627	200	75	60
4	36	54	61	1150	365	190	425	713	530	185	69	60
5	54	46	94	600	300	200	415	689	414	195	61	57
6	87	44	96	350	255	350	415	638	370	175	66	68
7	169	43	82	275	225	900	440	585	335	155	55	224
8	110	42	73	235	200	1380	415	479	300	135	46	199
9	71	42	75	210	180	1020	385	383	260	120	44	144
10	54	41	70	190	160	617	1120	302	230	105	43	107
11	47	40	55	175	145	540	969	262	210	94	62	92
12	42	40	54	160	130	500	684	197	220	86	71	88
13	40	39	54	150	115	485	510	171	230	79	277	77
14	40	39	54	140	105	470	432	204	210	76	338	69
15	307	40	53	135	98	650	399	289	195	73	222	107
16	306	40	52	130	91	540	376	722	180	70	154	111
17	177	38	70	125	85	445	358	709	170	73	106	91
18	116	65	130	120	79	370	347	538	155	83	77	77
19	87	112	105	120	75	325	287	420	140	79	73	72
20	71	94	90	115	72	295	249	370	130	73	176	74
21	62	71	79	115	73	280	238	346	125	69	189	69
22	55	53	72	115	77	310	229	330	120	65	145	171
23	52	45	65	115	85	345	228	304	115	62	113	213
24	60	45	61	120	96	415	194	328	110	60	91	149
25	58	44	60	130	325	550	178	609	105	59	80	112
26	64	40	62	170	215	1940	143	1010	105	58	74	93
27	121	32	61	225	250	1480	133	979	105	67	68	81
28	153	42	57	310	400	1030	363	727	113	65	68	72
29	128	42	54	650	---	797	1810	536	113	62	65	71
30	108	47	51	897	---	690	1690	754	111	59	73	69
31	95	---	50	935	---	595	---	1190	---	56	75	---
TOTAL	2883	1516	2130	11362	5945	18574	14897	17513	7803	3047	3191	3008
MEAN	93.0	50.5	68.7	367	212	599	497	565	260	98.3	103	100
MAX	307	112	130	1850	744	1940	1810	1190	1020	200	338	224
MIN	34	32	50	115	72	190	133	171	105	56	43	57
CFSM	1.01	.55	.74	3.97	2.29	6.48	5.38	6.12	2.81	1.06	1.12	1.08
IN.	1.16	.61	.86	4.57	2.39	7.48	6.00	7.05	3.14	1.23	1.28	1.21

CAL YR 1978 TOTAL 57245 MEAN 157 MAX 1330 MIN 25 CFSM 1.70 IN 23.05
WTR YR 1979 TOTAL 91869 MEAN 252 MAX 1940 MIN 32 CFSM 2.73 IN 36.99

NARRAGUAGUS RIVER BASIN

79

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, which are fair.

AVERAGE DISCHARGE.--31 years, 501 ft³/s (14.19 m³/s), 29.33 in/yr (745 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)
Jan. 5	1400	3750 106	13.28 4.048	Apr. 29	1700	4310 122	13.76 4.194
Jan. 31	1300	2950 83.5	12.55 3.825	May 27	1000	2940 83.3	12.54 3.822
Mar. 9	0300	3130 88.6	12.72 3.877	May 31	1300	3450 97.7	13.01 3.965
Mar. 26	2200	*6600 187	15.32 4.670				

Minimum discharge, 31 ft³/s (0.878 m³/s) Oct. 1, gage height, 7.04 ft (2.146 m).

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	32	142	169	177	2720	838	1140	3080	2960	324	128	160
2	42	126	160	821	2160	729	1010	2170	2300	1080	138	141
3	49	116	145	3220	1610	612	960	1560	1660	746	165	130
4	43	107	155	2750	1210	582	905	1260	1260	539	164	131
5	69	101	204	1650	950	745	886	1140	1030	408	136	128
6	108	95	199	1050	828	1390	964	977	881	383	126	132
7	161	92	186	750	698	2140	995	825	746	329	113	466
8	137	89	180	630	540	2740	914	707	632	277	103	585
9	113	85	185	560	490	2920	809	628	552	243	102	514
10	97	81	170	500	455	2240	1360	574	503	217	102	388
11	84	78	150	460	417	1580	1580	520	465	196	137	322
12	75	77	140	425	355	1350	1310	476	540	184	143	277
13	69	74	135	395	302	1240	1050	455	715	176	435	231
14	70	71	140	375	275	1210	893	479	621	165	678	201
15	175	73	135	355	250	1520	808	686	519	153	552	271
16	234	72	135	340	226	1210	759	1210	443	149	429	327
17	191	70	186	330	215	978	709	1220	387	167	325	272
18	158	123	314	320	200	755	662	1090	347	174	253	231
19	136	221	253	305	188	637	607	905	314	156	219	218
20	120	205	207	300	180	587	567	743	287	145	278	218
21	108	182	193	295	181	628	529	705	262	133	329	207
22	98	145	188	290	205	756	502	656	251	127	303	389
23	92	123	164	305	210	824	488	568	248	121	260	526
24	102	129	153	340	254	894	481	618	245	114	221	411
25	107	123	151	425	814	1450	471	1260	233	111	198	326
26	111	112	156	550	518	5610	458	2350	216	111	182	275
27	148	88	153	750	648	5970	473	2880	201	124	165	237
28	207	105	143	1050	952	3640	1520	2450	188	135	151	208
29	198	100	138	1550	---	2150	4030	2060	184	150	142	199
30	180	129	131	2440	---	1520	4050	2430	177	157	175	195
31	158	---	126	2940	---	1260	---	3280	---	140	184	---
TOTAL	3672	3334	5244	26648	18051	50705	31890	39962	19367	7674	7036	8316
MEAN	118	111	169	860	645	1636	1063	1289	646	248	227	277
MAX	234	221	314	3220	2720	5970	4050	3280	2960	1080	678	585
MIN	32	70	126	177	180	582	458	455	177	111	102	128
CFSM	.51	.48	.73	3.71	2.78	7.05	4.58	5.56	2.78	1.07	.98	1.19
IN.	.59	.53	.84	4.27	2.89	8.13	5.11	6.41	3.11	1.23	1.13	1.33

CAL YR 1978 TOTAL 146018.1 MEAN 400 MAX 3000 MIN 7.1 CFSM 1.72 IN 23.41
WTR YR 1979 TOTAL 221899.0 MEAN 608 MAX 5970 MIN 32 CFSM 2.62 IN 35.58

NARRAGUAGUS RIVER BASIN

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; minimum, 19 micromhos Jan. 22, May 31, June 1, 1979.

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, 48 micromhos Nov. 5; minimum, 19 micromhos Jan. 22, May 31, June 1.

WATER TEMPERATURES: Maximum, 26.0°C Aug. 5, 6; minimum, 0.0°C on many days during winter periods.

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979

DATE	TIME	STREAM- FLOW, INSTAN- TANEOUS (CFS)	SPE- CIFIC CON- DUCT- ANCE (MICRO- MHOS)	PH (UNITS)	TEMPER- ATURE, AIR (DEG C)	TEMPER- ATURE (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)
OCT											
30...	1715	173	42	6.5	.5	6.5	2.0	11.4	92	12	K3
NOV											
16...	1615	70	48	6.5	1.5	4.5	2.0	11.4	88	K4	--
JAN											
31...	1145	2960	23	5.4	10.0	.0	3.0	13.4	92	K5	63
FEB											
13...	1430	302	32	6.0	-9.0	.0	1.0	12.4	85	K7	K2
MAR											
20...	1330	571	29	6.3	7.0	1.5	2.0	10.8	77	K3	K1
APR											
11...	1300	1570	26	5.8	11.0	2.5	4.0	12.1	88	K6	K1
MAY											
24...	1330	602	29	6.2	14.5	15.0	.00	9.6	94	40	K5
JUN											
28...	1600	190	30	6.6	20.0	21.0	2.0	8.4	93	24	K1
JUL											
23...	1400	117	34	6.8	26.0	24.5	2.0	7.4	88	K68	K18
AUG											
28...	1400	149	36	6.7	26.0	20.0	2.0	7.4	80	K66	26
SEP											
18...	1345	227	37	6.6	18.5	16.5	1.0	9.5	96	44	K14

DATE	HARD- NESS (MG/L AS CAC03)	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- LITY (MG/L AS CAC03)	CARBON DIOXIDE DIS- SOLVED (MG/L AS CO2)
OCT											
30...	12	2	3.4	.9	3.1	34	.4	--	.9	10	--
NOV											
16...	11	0	3.1	.8	3.8	41	.5	--	.8	11	--
JAN											
31...	6	1	1.5	.5	1.8	38	.3	--	.4	5	--
FEB											
13...	7	2	2.0	.5	2.4	40	.4	--	.6	5	--
MAR											
20...	8	3	2.3	.6	1.9	--	.3	--	--	5	--
APR											
11...	5	3	1.4	.4	1.6	37	.3	--	.6	2	--
MAY											
24...	7	2	1.9	.5	2.3	40	.4	--	.5	5	--
JUN											
28...	7	0	2.0	.6	2.6	42	.4	--	.4	12	--
JUL											
23...	9	2	2.3	.7	3.1	41	.5	3.8	.7	7	2.2
AUG											
28...	9	1	2.3	.7	3.1	42	.5	3.6	.5	8	3.1
SEP											
18...	18	7	5.0	1.3	2.6	23	.3	3.1	.5	11	--

01022500 NARRAGUAGUS RIVER AT CHERRYFIELD, ME--Continued

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979

DATE	COBALT, TOTAL RECOV- ERABLE (UG/L AS CO)	COBALT, SUS- PENDE RECOV- ERABLE (UG/L AS CO)	COBALT, DIS- SOLVED (UG/L AS CO)	COPPER, TOTAL RECOV- ERABLE (UG/L AS CU)	COPPER, SUS- PENDE RECOV- ERABLE (UG/L AS CU)	COPPER, DIS- SOLVED (UG/L AS CU)	IRON, TOTAL RECOV- ERABLE (UG/L AS FE)	IRON, SUS- PENDE RECOV- ERABLE (UG/L AS FE)	IRON, DIS- SOLVED (UG/L AS FE)	LEAD, TOTAL RECOV- ERABLE (UG/L AS PB)	LEAD, SUS- PENDE RECOV- ERABLE (UG/L AS PB)
OCT 30...	--	--	--	--	--	--	--	--	--	--	--
NOV 16...	0	0	0	2	0	3	490	270	220	10	0
JAN 31...	--	--	--	--	--	--	--	--	--	--	--
FEB 13...	1	0	1	1	0	2	150	40	110	11	0
MAR 20...	--	--	0	--	--	2	--	--	40	--	--
APR 11...	--	--	--	--	--	--	--	--	--	--	--
MAY 24...	1	0	1	2	0	4	410	210	200	10	5
JUN 28...	--	--	--	--	--	--	--	--	--	--	--
JUL 23...	--	--	--	--	--	--	--	--	--	--	--
AUG 28...	0	0	0	4	6	3	380	190	190	2	2
SEP 18...	--	--	--	--	--	--	--	--	--	--	--
DATE	LEAD, DIS- SOLVED (UG/L AS PB)	MANGA- NESE, TOTAL RECOV- ERABLE (UG/L AS MN)	MANGA- NESE, SUS- PENDE RECOV- ERABLE (UG/L AS MN)	MANGA- NESE, 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)	SELE- NIUM, TOTAL RECOV- ERABLE (UG/L AS SE)	SELE- NIUM, SUS- PENDE RECOV- ERABLE (UG/L AS SE)	SELE- NIUM, DIS- SOLVED (UG/L AS SE)	SILVER, TOTAL RECOV- ERABLE (UG/L AS AG)
OCT 30...	--	--	--	--	--	--	--	--	--	--	--
NOV 16...	--	20	10	10	<.5	.0	<.5	0	0	0	0
JAN 31...	--	--	--	--	--	--	--	--	--	--	--
FEB 13...	12	20	0	20	<.5	.0	<.5	0	0	0	0
MAR 20...	17	--	--	20	--	--	--	--	--	--	--
APR 11...	--	--	--	--	--	--	--	--	--	--	--
MAY 24...	5	30	10	20	<.5	.0	<.5	0	0	0	0
JUN 28...	--	--	--	--	--	--	--	--	--	--	--
JUL 23...	--	--	--	--	--	--	--	--	--	--	--
AUG 28...	0	20	0	20	<.5	<.0	.7	0	0	0	0
SEP 18...	--	--	--	--	--	--	--	--	--	--	--
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 TOTAL (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...	--	--	--	--	--	9.6	--	--	9	4.2	75
NOV 16...	0	0	0	0	--	--	16	.4	11	2.1	100
JAN 31...	--	--	--	--	--	14	--	--	15	120	70
FEB 13...	0	0	20	10	10	--	50	.4	3	2.4	100
MAR 20...	--	0	--	--	0	6.3	--	--	8	12	100
APR 11...	--	--	--	--	--	7.4	--	--	10	42	100
MAY 24...	0	0	30	20	7	--	99	.2	5	8.1	100
JUN 28...	--	--	--	--	--	7.8	--	--	2	1.0	100
JUL 23...	--	--	--	--	--	12	--	--	1	.32	100
AUG 28...	0	0	20	20	0	--	148	.2	12	4.8	80
SEP 18...	--	--	--	--	--	13	--	--	2	1.2	100

01022500 NARRAGUAGUS RIVER AT CHERRYFIELD, ME--Continued

PHYTOPLANKTON ANALYSES, OCTOBER 1978 TO SEPTEMBER 1979

DATE TIME	NOV 16, 78 1615	MAR 20, 79 1330	MAY 24, 79 1330	JUN 28, 79 1600				
TOTAL CELLS/ML	140	56	26	130				
DIVERSITY: DIVISION	1.2	0.8	1.0	0.9				
CLASS	1.2	0.8	1.0	0.9				
ORDER	1.8	1.6	1.0	0.9				
FAMILY	2.4	1.9	1.0	0.9				
GENUS	2.4	2.1	1.0	0.9				
ORGANISM	CELLS /ML	PER- CENT	CELLS /ML	PER- CENT	CELLS /ML	PER- CENT	CELLS /ML	PER- CENT
CHLOROPHYTA (GREEN ALGAE)								
CHLOROPHYCEAE								
CHLOROCOCCALES								
CHLOROCOCCACEAE								
CHLOROCOCCUM	--	-	--	-	--	-	--	-
HYDRODICTYACEAE								
PEDIASTRUM	--	-	--	-	--	-	--	-
DOCYSTACEAE								
ANKISTRORISMUS	--	-	--	-	--	-	--	-
SELENASTRUM	--	-	--	-	--	-	--	-
SCENEDESMACEAE								
SCENEDESMUS	28#	20	--	-	--	-	100#	80
VOLVOCALES								
CHLAMYDOMONADACEAE								
CHLAMYDOMONAS	--	-	--	-	--	-	--	-
ZYGEMATALES								
DESMIDIACEAE								
COSMARIUM	--	-	--	-	--	-	--	-
ZYGEMATACEAE								
MOUSEOTIA	--	-	--	-	--	-	--	-
CHRYSOPHYTA								
BACILLARIOPHYCEAE								
CENTRALES								
COSCINODISCAEAE								
CYCLOTELLA	42#	30	20#	36	13#	50	13	10
PENNALES								
ACHNANTHACEAE								
ACHNANTHES	--	-	--	-	--	-	--	-
CYMBELLACEAE								
CYMBELLA	14	10	5	9	--	-	--	-
FRAGILARIACEAE								
SYNEDRA	28#	20	--	-	--	-	--	-
NAVICULACEAE								
NAVICULA	--	-	--	-	--	-	--	-
NITZSCHIAEAE								
NITZSCHIA	--	-	15#	27	--	-	--	-
SURIARELLACEAE								
SURIARELLA	14	10	--	-	--	-	--	-
TABELLARIACEAE								
TABELLARIA	--	-	--	-	--	-	--	-
CRYPTOPHYTA (CRYPTOMONADS)								
CRYPTOPHYCEAE								
CRYPTOMONADALES								
CRYPTOMONADACEAE								
CRYPTOMONAS	14	10	--	-	--	-	--	-
CYANOPHYTA (BLUE-GREEN ALGAE)								
CYANOPHYCEAE								
CHROCOCCALES								
CHROCOCCACEAE								
ANACYSTIS	--	-	--	-	--	-	--	-
HORMOGONALES								
OSCILLATORIACEAE								
OSCILLATORIA	--	-	--	-	--	-	--	-
EUGLENOPHYTA (EUGLENOIDS)								
EUGLENOPHYCEAE								
EUGLENALES								
EUGLENACEAE								
EUGLENA	--	-	5	9	--	-	--	-
TRACHELONONAS	--	-	10#	18	--	-	--	-
PYRRHOPHYTA (FIRE ALGAE)								
DINOPHYCEAE								
GYMNODINIALES								
GYMNODINIACEAE								
GYMNODINIUM	--	-	--	-	--	-	13	10
PERIDINIALES								
GLENODINIACEAE								
GLENODINIUM	--	-	--	-	13#	50	--	-

NOTE: # - DOMINANT ORGANISMS 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 1978 TO SEPTEMBER 1979

DATE TIME	JUL 23,79 1400	AUG 28,79 1400	SEP 18,79 1345
TOTAL CELLS/ML	350	630	72
DIVERSITY: DIVISION	1.1	0.9	0.0
..CLASS	1.1	0.9	0.0
...ORDER	1.5	1.1	0.0
....FAMILY	2.3	1.4	0.0
.....GENUS	2.7	1.4	0.0

ORGANISM	CELLS /ML	PER- CENT	CELLS /ML	PER- CENT	CELLS /ML	PER- CENT
CHLOROPHYTA (GREEN ALGAE)						
..CHLOROPHYCEAE						
...CHLOROCOCCALES						
....CHLOROCOCCACEAE						
.....CHLOROCOCCUM	39	11	--	-	--	-
...HYDRODICTYACEAE						
....PEDIASTRUM	26	7	--	-	--	-
...OOCYSTACEAE						
....ANKISTRODESMUS	90#	26	15	2	--	-
....SELENASTRUM	64#	19	--	-	--	-
...SCENEDESMACEAE						
....SCENEDESMUS	--	-	20	3	--	-
..VOLVOCALES						
...CHLAMYDOMONADACEAE						
....CHLAMYDOMONAS	13	4	--	-	--	-
..ZYGNEMATALES						
...DESMIDIACEAE						
....COSMARIUM	13	4	--	-	--	-
...ZYGNEMATACEAE						
....MOUGEOTIA	--	-	--	-	72#	100
CHRYSOPHYTA						
..BACILLARIOPHYCEAE						
...CENTRALES						
....COSCINODISCACEAE						
.....CYCLOTELLA	26	7	--	-	--	-
...PENNALES						
....ACHNANTHACEAE						
.....ACHNANTHES	--	-	15	2	--	-
...CYMBELLACEAE						
....CYMBELLA	--	-	5	1	--	-
...FRAGILARIACEAE						
....SYNEDRA	--	-	5	1	--	-
...NAVICULACEAE						
....NAVICULA	--	-	20	3	--	-
...NITZSCHIA						
....NITZSCHIA	--	-	--	-	--	-
...SURIPELLACEAE						
....SURIPELLA	--	-	--	-	--	-
...TABELLARIACEAE						
....TABELLARIA	--	-	25	4	--	-
CRYPTOPHYTA (CRYPTOMONADS)						
..CRYPTOPHYCEAE						
...CRYPTOMONADALES						
....CRYPTOMONADACEAE						
.....CRYPTOMONAS	--	-	10	2	--	-
CYANOPHYTA (BLUE-GREEN ALGAE)						
..CYANOPHYCEAE						
...CHROOCOCCALES						
....CHROOCOCCACEAE						
.....ANACYSTIS	77#	22	500#	79	--	-
...HORMOGONALES						
....OSCILLATORIACEAE						
.....OSCILLATORIA	--	-	15	2	--	-
EUGLENOPHYTA (EUGLENOIDS)						
..EUGLENOPHYCEAE						
...EUGLENALES						
....EUGLENACEAE						
.....EUGLENA	--	-	--	-	--	-
....TRACHELOMONAS	--	-	--	-	--	-
PYRRHOPHYTA (FIRE ALGAE)						
..PYRRHOPHYCEAE						
...GYMNODINIALES						
....GYMNODINIACEAE						
.....GYMNODINIUM	--	-	--	-	--	-
...PERIDINIALES						
....GLENODINIACEAE						
.....GLENODINIUM	--	-	--	-	--	-

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
 BIOLOGICAL DATA, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979

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 21 TO OCT 30	39	5.98	4.72	12.1	3.79	104
MAY 24 TO JUN 28	35	.390	.240	.180	.000	833
JUN 28 TO JUL 23	25	3.07	2.60	.000	.000	---
JUL 23 TO AUG 28	36	4.33	3.54	5.60	2.04	141
AUG 28 TO SEP 18	21	.390	.160	1.24	.980	185

NARRAGUAGUS RIVER BASIN

01022500 NARRAGUAGUS RIVER AT CHERRYFIELD, ME--Continued

SPECIFIC CONDUCTANCE (MICROMHOS/CM AT 25 DEG. C), WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
OCTOBER			NOVEMBER			DECEMBER			JANUARY			
1	46	41	43	46	45	46	46	45	45	45	44	45
2	45	40	43	47	45	46	46	45	45	44	28	39
3	45	41	43	47	45	46	46	45	45	28	23	26
4	45	41	43	47	45	46	46	45	45	34	24	29
5	44	42	43	48	46	46	46	45	46	35	28	33
6	43	41	42	47	45	46	46	45	45	35	29	32
7	42	41	42	47	45	46	45	45	45	35	29	32
8	42	41	41	47	45	46	45	45	45	34	29	32
9	43	41	42	47	44	46	45	45	45	29	29	29
10	44	41	43	47	45	46	45	44	44	30	28	30
11	45	40	43	46	45	46	45	43	44	31	26	29
12	45	41	43	46	44	46	45	44	45	32	28	31
13	44	43	44	45	43	45	46	45	45	33	32	32
14	44	43	44	46	45	45	45	45	45	33	28	31
15	43	42	42	46	45	45	45	45	45	31	28	30
16	44	42	43	46	44	45	45	44	45	32	30	31
17	45	43	44	45	43	44	45	44	45	31	30	31
18	45	43	44	45	43	44	45	44	45	31	31	31
19	45	44	45	45	44	45	45	44	45	32	30	31
20	45	44	45	45	44	45	46	45	46	33	31	32
21	46	44	45	45	44	45	46	46	46	33	22	30
22	46	45	45	45	44	45	46	45	46	22	19	20
23	46	45	45	46	45	45	46	45	45	26	23	24
24	45	45	45	47	46	46	46	45	45	28	25	27
25	46	44	45	46	45	46	45	45	45	28	28	28
26	46	45	45	47	45	46	45	45	45	29	28	28
27	45	45	45	47	45	46	45	44	45	29	27	28
28	46	45	45	47	46	46	45	44	45	27	26	26
29	45	45	45	47	45	46	45	44	45	26	26	26
30	45	44	45	46	45	45	45	44	44	25	23	24
31	46	45	45	---	---	---	45	44	45	25	23	24
MONTH	46	40	44	48	43	46	46	43	45	45	19	30

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
FEBRUARY			MARCH			APRIL			MAY			
1	26	25	26	25	23	24	26	26	26	30	29	29
2	27	26	26	27	25	26	26	26	26	30	29	29
3	27	26	26	28	27	28	27	26	26	30	29	29
4	27	26	26	28	28	28	27	26	27	29	29	29
5	27	22	26	28	25	27	27	27	27	29	29	29
6	28	21	24	25	21	22	28	27	27	30	29	30
7	28	22	26	23	21	22	27	27	27	31	29	30
8	28	27	27	26	23	25	28	27	28	32	30	31
9	28	26	27	27	25	26	28	27	27	33	31	32
10	29	26	27	26	25	26	28	26	27	33	32	32
11	29	27	28	26	25	26	27	26	26	33	31	32
12	29	28	28	25	22	24	28	26	27	33	32	33
13	29	28	28	26	23	24	28	27	28	34	33	34
14	30	28	29	27	26	26	28	27	28	34	34	34
15	30	29	29	28	26	27	29	28	28	34	33	33
16	30	29	30	27	23	27	29	28	28	33	30	31
17	31	29	30	28	27	27	29	28	29	32	30	31
18	31	29	30	28	27	28	29	28	29	33	31	32
19	32	30	31	29	28	28	29	29	29	33	32	32
20	33	31	32	29	28	28	30	29	29	33	32	33
21	32	31	32	29	28	28	30	29	29	33	32	32
22	32	31	32	28	27	28	30	29	30	34	32	33
23	32	31	31	28	27	27	30	30	30	34	32	33
24	32	31	31	28	27	28	31	30	30	34	33	33
25	31	25	27	29	27	28	31	30	30	33	29	31
26	27	25	26	29	26	27	31	30	31	29	25	27
27	28	23	26	26	24	26	31	31	31	28	24	26
28	24	22	23	25	24	25	32	30	31	30	28	29
29	---	---	---	25	24	25	30	29	29	30	29	29
30	---	---	---	26	25	26	29	29	29	29	20	23
31	---	---	---	26	25	26	---	---	---	21	19	20
MONTH	33	21	28	29	21	26	32	26	28	34	19	30

01022500 NARRAGUAGUS RIVER AT CHERRYFIELD, ME--Continued

SPECIFIC CONDUCTANCE (MICROMHOS/CM AT 25 DEG. C). WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979

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

TEMPERATURE, WATER (DEG. C). WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979

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

TEMPERATURE, WATER (DEG. C), WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
FEBRUARY				MARCH			APRIL			MAY		
1	.0	.0	.0	.0	.0	.0	3.0	2.0	2.5	9.0	8.5	9.0
2	.0	.0	.0	.0	.0	.0	3.5	2.5	3.0	9.0	8.5	8.5
3	.0	.0	.0	.0	.0	.0	3.5	3.0	3.5	10.0	8.0	9.0
4	.0	.0	.0	.0	.0	.0	4.5	2.5	3.5	10.0	9.0	9.5
5	.0	.0	.0	.0	.0	.0	4.0	3.0	3.5	9.5	8.5	9.0
6	.5	.0	.0	.0	.0	.0	3.0	2.5	2.5	9.5	8.0	8.5
7	.5	.0	.0	.0	.0	.0	2.5	1.5	2.0	10.5	8.5	9.5
8	.0	.0	.0	.0	.0	.0	2.5	1.0	2.0	11.0	9.0	10.0
9	.0	.0	.0	.0	.0	.0	2.5	2.0	2.0	13.5	10.0	12.0
10	.0	.0	.0	.0	.0	.0	2.0	1.5	2.0	16.0	13.0	14.5
11	.0	.0	.0	.0	.0	.0	3.0	1.0	2.0	15.0	14.0	14.5
12	.0	.0	.0	.0	.0	.0	3.5	3.0	3.5	14.0	13.0	13.5
13	.0	.0	.0	.0	.0	.0	5.5	3.0	4.0	13.0	12.0	12.5
14	.0	.0	.0	.0	.0	.0	5.5	5.0	5.0	12.5	12.0	12.0
15	.0	.0	.0	.0	.0	.0	5.5	5.0	5.0	12.0	12.0	12.0
16	.0	.0	.0	.0	.0	.0	6.0	4.5	5.5	11.5	10.5	11.0
17	.0	.0	.0	.0	.0	.0	6.0	5.0	5.5	13.0	10.5	11.5
18	.0	.0	.0	.0	.0	.0	6.5	5.0	5.5	13.5	13.0	13.0
19	.0	.0	.0	1.0	.0	.5	6.5	5.5	6.0	15.0	13.5	14.0
20	.0	.0	.0	1.0	1.0	1.0	6.5	5.0	5.5	15.0	14.5	15.0
21	.0	.0	.0	2.5	1.0	2.0	8.0	5.0	6.5	14.5	13.5	14.5
22	.0	.0	.0	3.5	2.5	3.0	8.5	6.5	7.5	16.0	13.0	14.5
23	.0	.0	.0	3.5	2.5	3.0	10.0	7.5	9.0	16.0	14.5	15.0
24	.0	.0	.0	4.0	3.0	3.5	10.5	8.5	9.5	15.0	13.5	14.5
25	.0	.0	.0	3.5	1.5	3.0	11.0	8.5	10.0	13.0	10.5	12.0
26	.0	.0	.0	1.5	1.0	1.5	11.0	9.5	10.0	11.0	9.5	10.0
27	.0	.0	.0	1.5	.5	1.0	11.0	10.0	10.5	12.5	9.0	11.0
28	.0	.0	.0	1.5	.0	1.0	10.0	6.5	8.5	13.0	11.5	12.5
29	---	---	---	1.5	1.0	1.5	7.0	5.5	6.5	12.5	11.0	11.5
30	---	---	---	3.0	1.5	2.5	9.0	7.0	8.0	11.5	10.5	11.0
31	---	---	---	3.0	2.5	2.5	---	---	---	11.5	10.5	11.0
MONTH	.5	.0	.0	4.0	.0	1.0	11.0	1.0	5.5	16.0	8.0	12.0
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
JUNE				JULY			AUGUST			SEPTEMBER		
1	12.0	11.5	11.5	20.5	17.5	19.5	24.0	22.5	23.5	20.0	18.5	19.5
2	14.0	11.5	12.5	17.0	15.5	16.5	22.5	21.0	22.0	20.5	18.0	19.5
3	14.0	13.0	13.5	19.5	16.5	18.0	24.0	21.0	22.5	21.5	19.5	20.5
4	15.5	13.0	14.0	20.5	18.0	19.0	24.5	22.5	23.5	22.0	20.0	21.0
5	15.5	14.5	15.0	19.0	17.0	18.0	26.0	23.5	24.5	22.0	20.0	21.0
6	16.5	14.0	15.5	17.0	15.5	16.5	26.0	24.5	25.0	21.0	19.5	20.5
7	17.5	15.5	16.5	18.5	16.0	17.0	25.0	23.0	24.0	20.0	18.5	19.5
8	17.5	16.0	17.0	20.0	17.5	18.5	24.5	22.0	23.5	19.0	17.5	18.0
9	17.5	16.5	17.0	21.5	19.5	20.5	24.0	21.0	22.5	18.0	16.5	17.5
10	18.5	16.5	17.0	22.5	21.0	21.5	21.5	19.5	20.5	17.5	16.0	17.0
11	19.0	17.0	18.0	22.0	21.5	21.5	19.0	17.5	18.0	17.0	16.0	16.5
12	18.5	17.0	18.0	22.5	21.0	21.5	17.5	16.5	17.0	16.5	15.5	16.0
13	17.5	15.5	16.0	23.5	21.0	22.5	16.5	15.0	15.5	16.5	15.5	16.0
14	17.0	14.5	16.0	24.0	22.0	23.0	15.0	14.0	14.5	16.5	16.0	16.5
15	18.5	16.0	17.0	23.5	21.5	22.5	16.0	14.5	15.0	18.0	16.5	17.0
16	21.5	17.5	19.5	21.5	20.0	20.5	17.0	15.0	16.0	17.5	16.5	16.5
17	22.0	20.5	21.0	21.0	19.5	20.5	18.0	16.0	17.0	16.5	15.0	15.5
18	22.5	21.0	21.5	21.5	20.5	21.0	17.5	16.5	17.0	17.0	14.5	16.0
19	21.5	20.0	20.5	23.5	21.0	22.0	17.0	16.0	16.5	17.0	15.5	16.5
20	20.5	19.0	20.0	24.0	21.5	22.5	16.0	15.5	15.5	15.0	13.0	14.0
21	20.5	19.0	20.0	24.0	21.5	23.0	16.0	15.5	16.0	14.0	13.5	14.0
22	21.0	19.0	20.0	24.0	22.0	23.0	18.0	16.0	17.0	14.5	14.0	14.0
23	19.0	18.0	18.5	24.0	22.0	23.0	18.5	17.0	18.0	14.0	12.5	13.5
24	18.5	17.5	18.0	24.0	22.0	23.0	18.5	18.0	18.5	13.0	11.5	12.5
25	18.0	17.0	17.5	24.0	22.5	23.0	19.0	18.0	18.5	13.0	11.5	12.5
26	18.0	16.5	17.0	22.5	21.5	22.0	20.0	18.0	19.0	14.0	12.5	13.5
27	18.5	17.5	18.0	22.5	21.0	22.0	20.0	19.0	19.5	14.5	13.5	14.0
28	20.5	18.0	19.0	22.5	21.0	22.0	20.0	18.5	19.5	14.0	13.5	14.0
29	21.5	19.5	20.5	24.0	21.5	23.0	20.0	19.0	19.5	15.0	14.0	14.5
30	21.5	20.5	21.0	24.5	23.0	24.0	20.0	19.5	19.5	15.0	14.0	14.5
31	---	---	---	25.0	24.0	24.5	20.5	19.0	19.5	---	---	---
MONTH	22.5	11.5	17.5	25.0	15.5	21.0	26.0	14.0	19.5	22.0	11.5	16.5
YEAR	26.0	.0	9.0									

LOCATION.--Lat 44°50'25", long 68°22'22", Hancock County, Hydrologic Unit 01050002, on right bank 200 ft (61 m) upstream from site of old tannery dam, 0.6 mi (1.0 km) upstream from Indian Camp Brook, and 0.7 mi (1.1 km) northwest of Amherst.

PERIOD OF RECORD.--July 1909 to September 1919, July 1929 to September 1979 (discontinued). Published as Union River at Amherst, October 1910 to September 1913.

GAGE.--Water-stage recorder. Altitude of gage is 160 ft (49 m), from topographic map. July 1909 to September 1919, nonrecording gage at highway bridge 1 mi (1.6 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.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 4,220 ft³/s (120 m³/s) Mar. 25, 1979, gage height, 9.44 ft (2.877 m); maximum gage height, 10.41 ft (3.173 m) Mar. 9, 1942 (ice jam); minimum discharge, 2.6 ft³/s (0.074 m³/s) July 28, 1965, gage height, 2.75 ft (0.838 m).

Date	Time	Discharge (ft ³ /s) (m ³ /s)		Gage height (ft) (m)		Date	Time	Discharge (ft ³ /s) (m ³ /s)		Gage height (ft) (m)	
Jan. 3	1500	1390	39.4	6.36	1.939	Mar. 25	2200	*4220	120	9.44	2.877
Jan. 31	0100	1290	36.5	6.21	1.893	Apr. 29	0900	1440	40.8	6.43	1.960
Mar. 8	1800	1430	40.5	6.42	1.957	May 31	0400	1310	37.1	6.25	1.905
Mar. 15	1100	1270	36	6.18	1.884						

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	8.1	91	54	102	1050	449	1320	1170	1220	79	37	107
2	11	79	52	207	900	421	1110	1110	1140	104	40	96
3	11	72	50	944	770	391	956	1030	1070	97	38	89
4	9.7	65	56	1040	650	371	842	946	979	89	35	82
5	16	61	61	900	550	398	773	856	857	100	33	74
6	18	56	59	750	475	500	745	733	739	101	39	92
7	23	53	57	560	400	949	736	624	620	88	37	224
8	18	51	58	475	350	1310	680	528	511	78	37	221
9	19	47	64	435	310	1280	629	460	437	71	39	235
10	21	46	65	385	275	1150	748	410	375	66	41	222
11	22	43	63	360	245	1050	788	354	323	60	49	201
12	22	43	75	335	225	1000	747	311	344	57	48	166
13	22	39	78	315	205	970	711	281	352	54	114	139
14	28	38	76	300	190	930	676	363	333	51	150	124
15	61	41	72	295	175	1240	649	507	307	47	176	132
16	50	39	70	280	165	1120	632	745	270	44	205	122
17	49	37	81	275	155	1000	596	742	235	49	222	118
18	50	68	104	270	150	852	555	678	207	49	222	110
19	50	82	110	270	145	717	514	621	186	47	213	105
20	48	76	134	265	140	643	479	562	160	44	213	101
21	45	70	125	260	135	631	448	522	139	42	216	94
22	42	66	120	260	130	674	424	474	127	39	227	112
23	41	58	110	265	130	730	405	421	120	37	219	114
24	47	55	100	285	130	811	385	399	114	35	203	106
25	43	55	98	320	125	1700	366	586	105	33	180	98
26	44	50	105	380	125	3210	350	888	95	32	160	92
27	87	47	100	475	310	2880	349	1080	86	45	142	83
28	99	49	97	640	399	2620	908	1020	80	43	129	76
29	110	50	92	854	---	2270	1410	1010	75	44	120	74
30	112	53	85	1160	---	1890	1290	1090	70	42	124	69
31	102	---	81	1200	---	1580	---	1290	---	38	119	---
TOTAL	1328.8	1680	2552	14862	9009	35737	21221	21811	11676	1805	3827	3678
MEAN	42.9	56.0	82.3	479	322	1153	707	704	389	58.2	123	123
MAX	112	91	134	1200	1050	3210	1410	1290	1220	104	227	235
MIN	8.1	37	50	102	125	371	349	281	70	32	33	69
CFSM	.29	.38	.56	3.24	2.18	7.79	4.78	4.76	2.63	.39	.83	.83
IN.	.33	.42	.64	3.74	2.26	8.98	5.33	5.48	2.93	.45	.96	.92
CAL YR 1978	TOTAL	74063.5	MEAN	203	MAX	1400	MIN	6.4	CFSM	1.37	IN	18.62

UNION RIVER BASIN

01024200 GARLAND BROOK NEAR MARIAVILLE, ME

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.

DRAINAGE AREA.--9.80 mi² (25.38 km²).

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. Several observations of water temperature and specific conductance were made during the year.

AVERAGE DISCHARGE.--15 years, 22.4 ft³/s (0.634 m³/s), 31.04 in/yr (788 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)
Jan. 3	0945	366 10.4	7.93 2.417	Mar. 25	2245	*1130 32.0	13.22 4.029
Jan. 30	2245	263 7.45	7.02 2.140	Apr. 28	1345	459 13.0	8.67 2.643
Mar. 8	1200	286 8.10	7.23 2.204	May 31	1230	169 4.79	6.07 1.850

Minimum discharge, 0.60 ft³/s (0.017 m³/s) Oct. 1, 2, gage height, 2.54 ft (0.774 m).

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.60	2.8	4.0	7.0	135	49	50	76	94	10	2.1	6.2
2	1.2	2.6	3.5	41	93	34	44	59	60	35	5.0	5.3
3	1.2	2.5	2.6	252	69	33	45	48	46	15	6.0	4.8
4	.98	2.3	2.5	100	50	24	44	40	39	4.1	4.9	4.3
5	3.6	2.4	4.2	52	34	36	45	33	32	9.6	3.1	4.0
6	6.0	2.2	4.1	32	28	58	55	29	24	12	2.3	6.5
7	9.5	2.0	3.6	24	24	110	57	25	23	6.9	1.8	16
8	4.6	2.0	3.7	20	16	243	39	22	19	4.6	1.7	12
9	2.9	1.9	5.0	18	15	146	33	20	17	3.5	1.5	17
10	2.3	1.8	5.3	16	12	87	98	19	17	2.9	1.6	14
11	2.0	1.7	4.1	15	9.1	69	82	17	15	2.5	4.6	10
12	1.8	1.7	3.8	14	7.6	57	53	16	42	2.4	3.8	7.5
13	1.5	1.6	3.7	13	6.5	53	42	15	37	2.4	26	5.1
14	2.2	1.6	3.6	13	5.7	49	39	18	21	2.2	17	3.8
15	14	1.6	3.6	12	5.3	80	36	23	15	1.9	9.0	10
16	8.6	1.7	3.4	12	5.1	59	37	60	12	1.8	13	7.7
17	4.6	1.5	5.2	12	5.1	45	33	48	10	2.7	19	5.3
18	3.2	6.5	11	11	5.0	34	29	36	9.1	3.6	12	4.2
19	2.8	10	9.0	11	5.0	30	27	30	8.3	3.1	10	3.8
20	2.5	6.0	4.3	11	5.0	28	25	26	7.4	2.4	8.9	4.4
21	2.5	3.8	3.4	11	5.2	30	24	23	6.3	1.9	12	3.7
22	2.3	2.8	3.6	11	6.5	35	23	22	5.9	1.6	20	12
23	2.1	2.1	3.2	11	10	39	22	21	6.3	1.5	15	12
24	3.5	2.1	3.1	12	17	82	22	20	6.5	1.4	11	7.0
25	3.2	2.8	3.1	14	45	366	21	26	5.8	1.4	9.0	5.3
26	2.7	2.6	3.4	28	30	555	20	45	5.0	1.4	7.5	4.4
27	8.8	2.4	3.4	46	42	146	31	90	4.3	4.3	6.7	3.9
28	8.8	2.3	3.2	71	64	72	315	74	3.7	4.8	6.0	4.4
29	5.4	2.6	3.0	76	---	51	275	59	3.2	3.8	7.2	5.7
30	3.8	3.0	3.5	195	---	46	137	100	3.0	3.3	10	6.4
31	3.1	---	2.9	214	---	48	---	170	---	2.4	7.6	---
TOTAL	127.28	82.9	126.0	1375.0	761.1	2804	1803	1310	601.8	160.4	265.3	216.7
MEAN	4.11	2.76	4.06	44.4	27.2	90.5	60.1	42.3	20.1	5.17	8.56	7.22
MAX	19	10	11	252	135	555	315	170	94	35	26	17
MIN	.60	1.5	2.5	7.0	5.0	28	20	15	3.0	1.4	1.5	3.7
CFSM	.42	.28	.41	4.53	2.78	9.24	6.13	4.32	2.05	.53	.87	.74
IN.	.48	.31	.48	5.22	2.89	10.64	6.84	4.97	2.28	.61	1.01	.82
CAL YR 1978	TOTAL	5684.50	MEAN	15.6	MAX	200	MIN	.53	CFSM	1.59	IN	21.58
WTR YR 1979	TOTAL	9633.48	MEAN	26.4	MAX	555	MIN	.60	CFSM	2.69	IN	36.56

NOTE.--No gage-height record May 1-31, Aug. 14 to Sept. 13.

PENOBSCOT RIVER BASIN

91

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.--77 years, 1,946 ft³/s (55.11 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 (1914-79), 77 ft³/s (2.18 m³/s) Nov. 19, 1924.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 24,900 ft³/s (705 m³/s) Apr. 29, gage height, 13.52 ft (4.121 m); minimum daily, 395 ft³/s (11.2 m³/s) Dec. 13-16, 20, 31.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	850	587	480	400	2300	640	9170	17600	8200	815	1050	601
2	913	566	470	440	2100	640	8410	15800	8500	1280	1100	566
3	904	552	460	890	1900	630	7530	14000	6860	1230	1060	511
4	868	531	450	2050	1700	630	6890	12500	5410	1060	1020	484
5	877	524	440	1850	1560	640	6450	10500	4610	1070	1080	452
6	904	511	430	1650	1450	680	6050	9000	4200	904	1210	459
7	931	511	425	1500	1350	780	5770	7400	3900	807	1120	2290
8	931	504	415	1400	1250	900	5460	6200	3560	764	1060	2130
9	1150	497	410	1280	1150	1100	5080	5200	3310	732	1020	1400
10	1190	491	410	1170	1050	1400	5080	4200	2830	700	980	1040
11	1160	484	405	1100	1020	1900	5310	3500	2290	684	980	913
12	1150	478	400	1000	970	2800	5100	2900	2130	669	960	841
13	1130	459	395	960	930	3800	4850	2550	2690	661	1040	740
14	1200	478	395	930	890	4870	5080	2300	2460	638	1510	692
15	1700	756	395	890	860	5410	5430	2200	2110	623	1360	1040
16	1740	895	395	870	830	5460	5480	2300	1870	623	1170	1160
17	1450	815	410	840	800	5150	5550	2350	1730	653	1040	922
18	868	970	405	810	780	4850	5480	2300	1610	653	970	1110
19	638	1520	400	800	760	4580	5360	2150	1430	608	950	1220
20	676	1300	395	790	740	4350	5240	1950	1270	587	1040	1270
21	573	970	445	780	720	4200	5430	1800	1170	573	1270	1240
22	552	781	510	780	710	4370	5820	1600	1050	676	1480	1200
23	538	710	495	780	700	4630	6020	1500	1090	573	1320	1170
24	517	650	480	790	690	5220	6630	1400	1090	545	895	1130
25	497	610	465	800	680	6960	6960	1450	1060	676	594	1120
26	504	580	450	800	670	14400	7310	2500	990	740	623	1110
27	559	555	435	850	660	18000	9200	4700	922	859	661	1300
28	756	530	420	920	650	13700	17800	6000	895	850	1070	1350
29	732	510	410	1100	---	12100	23500	6900	868	1350	1010	1330
30	669	500	400	1500	---	11200	22300	7300	824	1260	824	1320
31	616	---	395	2000	---	9660	---	7600	---	1080	716	---
TOTAL	27743	19825	13290	32720	29870	155650	229740	169650	80929	24943	32183	32111
MEAN	895	661	429	1055	1067	5021	7658	5473	2698	805	1038	1070
MAX	1740	1520	510	2050	2300	18000	23500	17600	8500	1350	1510	2290
MIN	497	459	395	400	650	630	4850	1400	824	545	594	452
CAL YR 1978	TOTAL	597489	MEAN	1637	MAX	9770	MIN	356				
WTR YR 1979	TOTAL	848654	MEAN	2325	MAX	23500	MIN	395				

PENOBSCOT RIVER BASIN

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, Feb. 11 to Mar. 26. 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.--39 years, 5,797 ft³/s (164.2 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, 53,000 ft³/s (1500 m³/s) Apr. 29, gage height, 13.01 ft (3.965 m); minimum daily, 2,400 ft³/s (68.0 m³/s) Dec.13.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	4130	4000	2550	3100	5960	5400	14000	39200	18400	4650	3910	4100
2	4680	3750	2800	3480	5810	5450	12800	40100	18000	4520	3940	3720
3	4620	3600	2950	4400	5670	5200	12000	36700	16200	3240	4040	3020
4	3600	3660	3200	5100	5400	5000	11100	32700	13700	3360	3940	2860
5	4370	3600	3400	4870	5100	5300	10300	28600	11900	3850	3880	3940
6	4200	3660	3300	4070	4700	6200	10300	25500	11200	4430	4000	3480
7	4400	3660	3300	4100	4100	8200	9870	23300	10200	4710	4300	5130
8	4070	3420	3150	4000	4900	9000	9790	19600	8850	4100	4270	5810
9	4230	3450	3300	3750	4200	8600	9400	14400	7480	4300	4100	4970
10	4370	3250	3500	3450	4050	8200	9480	12200	5330	4800	3940	4590
11	4430	3400	3550	3150	3700	8200	9480	8970	5670	4150	3880	3810
12	4100	3300	2950	3500	3850	7300	8030	7250	5710	4600	4200	4130
13	4650	3050	2400	3000	4050	6800	7950	5920	6870	4200	4300	4000
14	4000	3450	2850	3200	4350	7800	9400	7290	6570	4300	4710	3850
15	5200	3550	2900	3000	4700	8300	10100	7480	5570	4000	4740	4430
16	5170	3600	2900	2800	4600	8100	10100	7440	5540	3900	4300	4590
17	4400	3450	2950	3100	4450	7900	9960	6130	5400	3900	4200	4330
18	4270	3200	3000	2900	4900	7400	10000	5430	5070	4100	4270	4100
19	3600	4520	2900	3100	4700	7400	9870	5500	4870	3900	4200	4300
20	3660	3900	2800	3500	4500	7200	9060	5500	4650	4050	4680	4330
21	3450	3600	2650	3800	4600	7500	9140	5100	4650	3900	4870	4330
22	3850	3000	2500	2900	4700	8400	9830	5070	4620	4200	5200	4270
23	3510	3100	3100	3150	4200	9000	10400	5500	4740	3600	5200	4230
24	3510	3400	2450	3400	4800	9800	10800	5100	4810	3750	4460	4460
25	3780	3750	2450	3700	4900	14000	11100	5740	4590	3450	3910	4230
26	3660	3400	2600	3970	5100	29400	11300	9140	4710	3780	3780	4230
27	4070	3630	2850	4270	5800	34400	13200	11400	4840	4000	4370	4370
28	3880	4300	2750	4740	5200	22500	23900	10600	4680	3850	4200	4370
29	4100	3000	2600	5070	---	19800	39800	9960	4520	3810	4840	4370
30	4040	3300	2700	5540	---	17800	45600	11400	4200	4460	4370	4230
31	3750	---	2700	5780	---	14800	---	17300	---	3880	4490	---
TOTAL	127750	105950	90000	117890	132990	330350	388060	435520	223540	125740	133490	126580
MEAN	4121	3532	2903	3803	4750	10660	12940	14050	7451	4056	4306	4219
MAX	5200	4520	3550	5780	5960	34400	45600	40100	18400	4800	5200	5810
MIN	3450	3000	2400	2800	3700	5000	7950	5070	4200	3240	3780	2860
CAL YR 1978 TOTAL	1918120			MEAN 5255	MAX 15400	MIN 2100						
WTR YR 1979 TOTAL	2337860			MEAN 6405	MAX 45600	MIN 2400						

PENOBSCOT RIVER BASIN

93

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 4.1 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 and those below 100 ft³/s (3 m³/s), which are fair. Several observations of water temperature and specific conductance were made during the year.

AVERAGE DISCHARGE.--45 years, 2,490 ft³/s (70.5 m³/s), 23.85 in/yr (606 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, 24,600 ft³/s (697 m³/s) Mar. 29, gage height, 13.61 ft (4.148 m), minimum not determined; minimum daily, 71 ft³/s (2.01 m³/s) Oct. 1, 2.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	71	797	500	330	4100	1050	19800	17500	12300	554	671	2160
2	71	705	490	420	4450	1100	17400	18400	12600	575	555	1830
3	74	644	480	1330	4500	1100	15300	18100	12100	677	470	1510
4	72	568	490	3610	4350	1090	13400	16700	10900	765	397	1250
5	105	524	490	3780	4050	1120	12000	14700	9360	741	346	1040
6	115	482	490	2640	3700	1220	10800	12600	7730	656	343	923
7	111	457	480	2250	3300	1600	9770	10500	6250	569	361	1750
8	137	413	480	2000	2950	2100	8880	8510	4880	501	350	3420
9	188	374	470	1850	2650	3300	8040	6870	3910	442	313	4050
10	196	358	460	1730	2400	6200	7540	5500	3270	384	275	3940
11	194	337	450	1640	2200	8800	7690	4440	2840	344	254	3450
12	183	326	445	1550	2050	10000	8140	3730	2640	313	242	2870
13	168	303	440	1500	1900	9600	8150	3210	2880	294	296	2370
14	190	292	430	1440	1750	8500	7940	2860	3030	278	766	1970
15	371	321	420	1400	1600	6700	8020	2710	2840	278	1560	1800
16	845	384	415	1370	1500	5600	8210	2820	2470	274	1790	1800
17	1100	400	405	1340	1400	4500	8340	2920	2120	284	1580	1780
18	997	499	395	1310	1300	3900	8310	2850	1810	406	1270	1630
19	845	853	390	1290	1250	3500	8120	2650	1520	539	1020	1460
20	713	1290	380	1270	1180	3200	7780	2400	1300	514	968	1360
21	634	1370	370	1260	1100	3000	7370	2200	1130	427	1260	1320
22	565	1060	360	1250	1050	3000	7100	2070	988	349	1860	1260
23	511	870	355	1350	1000	3100	7070	1910	892	301	2080	1140
24	494	800	350	1500	899	3400	7230	1750	882	258	1960	1020
25	460	730	345	1600	899	5000	7470	1880	981	228	1710	915
26	441	680	340	1600	900	10500	7610	3360	965	209	1470	826
27	546	630	340	1500	920	22100	7690	6060	870	230	1360	755
28	861	580	335	1650	980	24100	8130	8080	776	311	1490	687
29	1080	550	330	2000	---	24400	10800	8830	676	482	1750	629
30	1020	520	330	2500	---	23700	15200	8840	595	588	2020	582
31	892	---	330	3800	---	22000	---	10100	---	712	2330	---
TOTAL	14250	18117	12785	54060	60328	228480	289300	215050	115505	13483	33117	51497
MEAN	460	604	412	1744	2155	7370	9643	6937	3850	435	1068	1717
MAX	1100	1370	500	3800	4500	24400	19800	18400	12600	765	2330	4050
MIN	71	292	330	330	899	1050	7070	1750	595	209	242	582
CFSM	.32	.43	.29	1.23	1.52	5.20	6.80	4.89	2.72	.31	.75	1.21
IN.	.37	.48	.34	1.42	1.58	5.99	7.59	5.64	3.03	.35	.87	1.35
CAL YR 1978 TOTAL	729897		MEAN	2000	MAX	16500	MIN	40	CFSM	1.41	IN	19.15
WTR YR 1979 TOTAL	1105972		MEAN	3030	MAX	24400	MIN	71	CFSM	2.14	IN	29.01

PENOBSCOT RIVER BASIN

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.--77 years, 605 ft³/s (17.13 m³/s), 27.66 in/yr (702 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)
Mar. 26	0800	10400 295	11.27 3.435	May 31	1000	4650 132	7.28 2.219
Apr. 28	1300	*19300 547	16.15 4.923				

Minimum discharge, 13 ft³/s (0.368 m³/s) Oct. 3, 4, gage height, 1.50 ft (0.457 m).

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	14	55	39	48	480	110	2480	3490	3570	152	41	59
2	16	51	38	60	410	110	2430	2550	2500	188	71	49
3	14	46	37	1500	350	110	2100	2130	1900	226	62	45
4	14	44	37	1920	305	105	1870	1910	1500	192	51	40
5	17	41	36	985	272	105	1850	1750	1200	145	42	34
6	24	38	36	620	252	145	1670	1430	1000	130	42	36
7	28	37	36	440	230	720	1450	1160	820	98	36	621
8	31	37	35	375	210	3500	1210	978	700	80	33	428
9	32	36	35	335	193	2700	1060	862	640	70	28	253
10	31	35	35	295	180	2000	1160	757	580	60	27	168
11	29	35	35	265	170	1550	1210	665	550	52	31	122
12	28	33	35	245	158	1300	1150	621	520	47	35	95
13	28	31	34	230	150	1100	1230	591	520	40	59	78
14	38	31	34	215	140	1000	1660	621	450	37	181	73
15	127	35	34	200	135	940	1780	621	475	32	171	230
16	171	37	36	192	125	840	1750	568	390	30	135	261
17	110	36	38	190	120	760	1810	528	350	29	95	168
18	52	85	41	180	115	720	1770	475	340	28	73	127
19	42	230	56	177	110	700	1850	433	290	28	64	107
20	35	161	72	172	105	680	1820	407	260	28	67	91
21	30	91	95	170	100	680	2130	422	240	25	77	80
22	28	67	89	170	100	1190	2340	501	225	22	80	73
23	26	55	78	175	110	1900	2250	460	226	20	66	66
24	47	55	70	180	120	2710	2800	407	234	19	57	60
25	24	54	63	195	120	4690	2830	954	226	18	54	55
26	23	42	55	210	120	9930	2850	2630	219	19	52	51
27	37	46	52	230	115	7480	4600	2510	192	31	52	46
28	77	44	50	290	110	4470	16700	1990	175	57	57	44
29	87	42	48	440	---	2940	9440	3320	155	49	62	42
30	71	40	47	620	---	2180	5570	3780	146	40	77	40
31	62	---	45	580	---	2330	---	4340	---	35	71	---
TOTAL	1393	1670	1471	11904	5105	59695	84820	43861	20593	2027	2049	3642
MEAN	44.9	55.7	47.5	384	182	1926	2827	1415	686	65.4	66.1	121
MAX	171	230	95	1920	480	9930	16700	4340	3570	226	181	621
MIN	14	31	34	48	100	105	1060	407	146	18	27	34
CFSM	.15	.19	.16	1.29	.61	6.49	9.52	4.76	2.31	.22	.22	.41
IN.	.17	.21	.18	1.49	.64	7.48	10.62	5.49	2.58	.25	.26	.46
CAL YR 1978	TOTAL	184366	MEAN 505	MAX 7500	MIN 13	CFSM 1.70	IN 23.09					
WTR YR 1979	TOTAL	238230	MEAN 653	MAX 16700	MIN 14	CFSM 2.20	IN 29.84					

PENOBSCOT RIVER BASIN

95

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 River basin) and other reservoirs upstream. Several observations of water temperature and specific conductance were made during the year.

AVERAGE DISCHARGE.--55 years, 634 ft³/s (17.95 m³/s), 26.33 in/yr (669 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, 6,760 ft³/s (191 m³/s) Apr. 30, gage height, 10.28 ft (3.133 m); minimum daily, 35 ft³/s (0.99 m³/s) Oct. 12, 13.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	39	86	75	111	389	620	3040	5430	2400	203	82	65
2	43	84	77	124	427	613	2870	5040	2720	210	81	65
3	39	79	72	236	446	604	2710	4180	2580	219	81	65
4	37	75	73	196	451	592	2530	3560	1700	204	81	65
5	39	73	73	101	453	585	2410	3180	994	192	80	65
6	41	71	72	103	439	586	2320	2640	820	185	81	67
7	44	71	71	104	436	604	2210	2550	798	180	79	69
8	44	66	71	106	422	628	2040	2270	849	178	79	68
9	43	64	71	107	412	650	1900	2050	887	177	79	68
10	39	62	77	107	402	708	1820	1880	839	176	79	68
11	36	60	71	108	387	824	1750	1720	788	175	80	68
12	35	58	67	109	369	917	1660	1590	768	177	79	68
13	35	55	67	110	358	1220	1590	1460	625	178	81	67
14	40	57	69	110	346	1370	1580	1350	396	180	81	68
15	55	61	68	111	336	1340	1590	572	397	179	80	67
16	53	57	67	112	324	1310	1610	180	387	181	79	67
17	51	54	71	111	314	1270	1630	179	373	181	79	244
18	51	72	75	112	300	1230	1640	179	359	179	79	388
19	50	78	76	266	286	1180	1650	181	340	180	79	388
20	52	84	77	545	447	1130	1660	181	315	182	81	385
21	54	81	79	546	672	1100	1670	182	296	182	81	383
22	56	80	83	544	656	1090	1700	182	292	179	81	382
23	60	79	85	406	649	1120	1730	180	288	181	76	380
24	62	80	87	310	644	1200	1760	181	290	179	63	526
25	61	91	93	256	639	1510	1800	187	264	179	64	634
26	67	95	101	192	637	3280	1830	200	247	153	65	627
27	80	76	102	196	634	4940	1910	212	234	82	65	620
28	79	79	106	211	627	4900	3560	219	223	80	65	610
29	86	79	105	247	---	4310	6080	485	214	83	65	600
30	84	78	104	287	---	3700	6630	1300	209	83	66	590
31	85	---	104	342	---	3290	---	2130	---	82	67	---
TOTAL	1640	2185	2489	6526	12902	48421	68880	46530	22292	5179	2358	7827
MEAN	52.9	72.8	80.3	211	461	1562	2296	1501	743	167	76.1	261
MAX	86	95	106	546	672	4940	6630	5930	2800	219	82	634
MIN	35	54	67	101	286	585	1580	179	209	80	63	65
MEAN†	52.9	72.8	80.3	706	461	1863	2409	1359	675	58.0	65.1	92.0
CFSM†	.16	.22	.25	2.16	1.41	5.70	7.37	4.16	2.06	.18	.20	.28
IN†	.19	.25	.28	2.49	1.47	6.57	8.22	4.80	2.30	.20	.23	.31

CAL YR 1978 TOTAL 205977 MEAN 564 MAX 3550 MIN 35
WTR YR 1979 TOTAL 227229 MEAN 623 MAX 6630 MIN 35

† Adjusted for change in contents in Sebec Lake.

PENOBSCOT RIVER BASIN

01033500 PLEASANT RIVER NEAR MILO, ME

LOCATION.--Lat 45°16'58", long 69°00'13", Piscataquis County, Hydrologic Unit 01020004, on left bank 2.5 mi (4.0 km) northeast of Milo and 7.9 mi (12.7 km) upstream from mouth.

DRAINAGE AREA.--324 mi² (839 km²).

PERIOD OF RECORD.--June 1920 to September 1979 (discontinued).

REVISED RECORDS.--WSP 1301: 1921-22(M), 1924-27(M), 1929(M). WSP 2101: Drainage area.

GAGE.--Water-stage recorder. Altitude of gage is 302 ft (92.0 m), from river-profile map. Prior to June 17, 1929, nonrecording gage at Snows Bridge 2.2 mi (3.5 km) downstream at datum 32 ft (9.8 m) lower.

REMARKS.--Records good except those for winter period, which are fair. Flow may be slightly regulated by small storage dams above station. Several observations of water temperature and specific conductance were made during the year.

AVERAGE DISCHARGE.--59 years, 712 ft³/s (20.16 m³/s), 29.84 in/yr (758 mm/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 28,600 ft³/s (810 m³/s) Nov. 4, 1966, gage height, 15.46 ft (4.712 m); minimum, 15 ft³/s (0.42 m³/s) Aug. 17, 1944, gage height, 1.21 ft (0.369 m).

EXTREMES FOR CURRENT YEAR.--Peak discharges above base of 3,700 ft³/s (100 m³/s) and maximum (*):

Date	Time	Discharge (ft ³ /s) (m ³ /s)	Gage height (ft) (m)	Date	Time	Discharge (ft ³ /s) (m ³ /s)	Gage height (ft) (m)
Mar. 8	-	4000 113	ice jam	Apr. 28	1600	*22500 637	13.16 4.011
Mar. 26	1400	12000 340	8.99 2.740	May 31	1200	4660 132	5.75 1.753

Minimum discharge, 55 ft³/s (1.56 m³/s) Oct. 1, gage height, 1.45 ft (0.442 m).

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	55	171	190	155	620	210	2280	5050	3430	179	106	196
2	67	159	185	430	545	195	2240	3480	2220	241	100	159
3	75	148	180	975	490	190	1980	2580	1670	260	98	137
4	78	141	180	1750	450	185	1780	2210	1360	237	92	124
5	85	134	180	1100	415	210	1840	2060	1110	205	87	109
6	100	127	175	770	390	460	1650	1680	959	184	90	127
7	137	124	170	560	360	1400	1470	1380	828	163	85	1110
8	137	121	170	480	340	3800	1250	1170	705	148	80	986
9	121	115	170	395	320	3100	1110	1050	630	137	73	660
10	109	115	170	350	310	2350	1110	1110	585	127	71	465
11	100	112	170	310	290	1700	1120	1030	550	121	78	365
12	92	109	165	280	280	1400	1090	881	543	115	78	304
13	90	103	165	260	270	1200	1100	794	543	112	112	255
14	118	115	160	245	260	1100	1390	794	483	109	167	223
15	350	175	160	230	250	1060	1580	828	435	100	209	386
16	435	214	160	220	240	940	1680	837	391	98	192	471
17	340	196	160	210	230	860	1770	794	360	112	159	391
18	270	355	160	210	225	800	1680	705	330	121	134	330
19	223	682	160	200	220	765	1650	623	299	118	127	294
20	200	543	160	195	210	750	1610	564	275	109	159	270
21	179	413	190	195	205	800	1770	543	250	98	192	241
22	163	340	250	200	200	1300	1960	600	237	90	265	218
23	152	285	220	210	190	1890	1980	564	246	85	214	200
24	144	260	200	220	190	2100	2400	496	265	78	171	179
25	131	240	185	225	195	3550	2550	803	250	73	155	167
26	127	225	170	245	190	11300	2680	1890	232	73	148	155
27	161	215	160	270	200	9250	4020	2030	214	159	148	144
28	232	210	150	325	220	5250	17800	1760	200	196	237	137
29	237	200	145	425	---	3140	15500	2550	188	163	250	134
30	214	190	140	600	---	2180	8990	3480	175	134	280	127
31	188	---	140	700	---	2140	---	4450	---	115	250	---
TOTAL	5110	6537	5340	12940	8305	65575	91030	48786	19963	4260	4607	9064
MEAN	165	218	172	417	297	2115	3034	1574	665	137	149	302
MAX	435	682	250	1750	620	11300	17800	5050	3430	260	280	1110
MIN	55	103	140	155	190	185	1090	496	175	73	71	109
CFSM	.51	.67	.53	1.29	.92	6.53	9.36	4.86	2.05	.42	.46	.93
IN.	.59	.75	.61	1.49	.95	7.53	10.45	5.60	2.29	.49	.53	1.04
CAL YR 1978	TOTAL	226408	MEAN 620	MAX 6400	MIN 44	CFSM 1.91	IN 25.99					
WTR YR 1979	TOTAL	281517	MEAN 771	MAX 17800	MIN 55	CFSM 2.38	IN 32.32					

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.--55 years, 2,363 ft³/s (66.92 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)
Mar. 27	0100	35400 1000	11.74 3.578	Apr. 29	0800	*50200 1420	14.17 4.319

Minimum discharge, 116 ft³/s (3.29 m³/s), Oct. 1, gage height, 1.31 ft (0.399 m).

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	115	398	360	430	2400	1090	9690	21400	11900	517	255	435
2	137	369	350	510	2100	1070	9320	14500	8970	605	274	369
3	130	347	340	1400	1900	1050	8450	11200	7090	644	315	320
4	133	331	335	4750	1700	1050	7660	9220	5930	644	315	294
5	148	315	331	3400	1560	1040	7440	8420	4020	583	274	260
6	166	299	336	2500	1450	1300	7030	7030	3160	517	270	304
7	219	284	331	2000	1360	3000	6410	5850	2840	475	260	1900
8	237	274	325	1650	1290	8200	5550	5010	2460	435	250	2300
9	228	260	336	1420	1200	11700	4930	4410	2300	410	223	1530
10	206	250	335	1200	1150	10500	4810	4070	2150	393	210	1070
11	189	246	340	1100	1100	8900	4980	3720	2080	369	223	822
12	177	237	335	1000	1040	7190	4810	3310	2060	358	223	644
13	170	228	325	940	1000	6090	4740	2990	2040	352	381	546
14	228	232	325	880	960	5420	5470	2820	1660	352	670	475
15	503	279	325	820	920	5320	6010	2700	1420	331	922	583
16	804	331	370	780	880	5370	6150	1920	1290	325	804	922
17	741	336	395	740	850	4860	6290	1750	1160	352	613	876
18	568	462	400	710	820	4110	6120	1560	1070	364	475	904
19	462	999	395	760	800	3610	6070	1390	979	358	398	904
20	410	1060	440	860	790	3180	6010	1270	904	347	455	849
21	369	813	613	940	1050	3200	6260	1190	804	336	644	795
22	342	561	653	1000	1200	3980	6730	1240	750	315	951	768
23	320	455	644	1000	1180	5450	6760	1280	741	304	741	732
24	309	428	583	960	1160	7530	7530	1150	830	294	539	696
25	289	416	540	860	1150	11300	7980	1560	777	284	428	858
26	289	428	500	800	1110	26800	7950	5240	705	284	387	876
27	358	364	480	880	1110	33000	9290	6010	653	375	358	849
28	462	381	445	1060	1100	22700	28300	5010	605	398	422	830
29	496	398	420	1500	---	14900	47600	5680	561	364	468	822
30	482	364	405	2000	---	10700	34300	9430	524	342	489	786
31	435	---	405	2500	---	9500	---	11600	---	294	503	---
TOTAL	10122	12145	12717	41350	34330	243110	290640	163930	72433	12321	13740	24319
MEAN	327	405	410	1334	1226	7842	9688	5288	2414	397	443	811
MAX	804	1060	653	4750	2400	33000	47600	21400	11900	644	951	2300
MIN	115	228	325	430	790	1040	4740	1150	524	284	210	260
CAL YR 1978 TOTAL	768708			2106	21800	115						
WTR YR 1979 TOTAL	931157			2551	47600	115						

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.--77 years (water years 1903-79), 11,883 ft³/s (337 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, 104,000 ft³/s (2,940 m³/s) Apr. 30, gage height, 19.23 ft (5.861 m); minimum daily discharge, 3,500 ft³/s (99.1 m³/s) Nov. 27.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	4670	5630	4600	5000	21000	8600	52600	85800	51300	6390	5290	7920
2	4690	5700	4200	6000	20500	8700	49100	76400	48200	6880	5290	7360
3	5590	5270	3800	9000	20000	8700	44600	72100	43400	6390	5430	6100
4	5000	4960	4100	13000	19000	8600	40200	64900	38400	5200	5200	4960
5	4210	4610	4600	17000	17500	8700	37700	59000	33100	5160	5040	5000
6	4980	4910	4800	16500	16000	9400	36000	52400	28500	6180	5020	5270
7	5020	4760	5000	15500	14000	12500	34600	47100	24900	6390	5000	8840
8	5090	4440	5000	14500	13000	18000	32000	45400	21900	6440	5540	14000
9	5000	4270	4800	13500	11500	23000	29600	33500	18800	5820	5180	13500
10	5090	4210	4950	12200	10500	26000	28700	29200	15400	5840	4930	11800
11	5180	4140	3950	11200	10000	30000	29300	24000	12900	6060	4820	10100
12	5220	4000	5500	10500	9800	29500	29700	21000	13200	5870	4800	8860
13	5040	4290	4750	9800	9600	28500	26200	18000	14700	5870	5730	8220
14	5660	4140	4200	9000	9300	27000	28900	16500	14900	5310	6590	7310
15	5940	3940	3800	8900	9200	27500	30800	16000	13400	5470	8250	7420
16	7820	4740	4150	7000	9500	27500	31100	15800	11700	5180	8610	7920
17	7870	4670	4300	6800	9600	26500	31000	14200	11000	5360	7710	8190
18	7030	5240	4200	6400	9300	25000	30800	12700	9870	5160	6930	7420
19	6250	6250	4100	6600	8800	23500	30200	11800	8980	5400	6780	7440
20	5540	7520	4350	7200	8500	22000	29300	11500	8580	5400	6490	7340
21	5240	6880	5000	7600	8400	20500	28100	10600	7980	5560	7950	7210
22	4740	6200	4600	7800	8300	25500	28400	10300	7730	5020	9760	6960
23	5130	5220	4200	7900	8200	31500	29300	10200	7600	5160	10000	6960
24	4560	4580	4100	7800	8200	33100	30200	10000	7790	5130	9440	6780
25	4460	4300	4300	8300	8200	41900	31500	11000	7790	4710	7470	6610
26	4960	3750	4400	9300	8200	78200	32000	18000	7730	4350	6590	6470
27	5200	3500	4400	10000	8300	99000	33500	28800	7520	4890	6590	6390
28	6030	4550	4400	11000	8400	84100	55300	31800	7420	5590	6470	6390
29	6300	5900	4450	13000	---	70600	95100	30200	7230	5240	7420	6340
30	6370	5300	4450	16500	---	61300	101000	34200	6640	5160	8500	6130
31	6100	---	4500	19000	---	56500	---	43000	---	6010	7920	---
TOTAL	169980	147870	137950	323800	322800	1001400	1146800	965400	518560	172590	206740	231210
MEAN	5483	4929	4450	10450	11530	32300	38230	31140	17290	5567	6669	7707
MAX	7870	7520	5500	19000	21000	99000	101000	85800	51300	6880	10000	14000
MIN	4210	3500	3800	5000	8200	8600	26200	10000	6640	4350	4800	4960
CAL YR 1978 TOTAL	4071130			MEAN 11150		MAX 53200		MIN 3040				
WTR YR 1979 TOTAL	5345100			MEAN 14640		MAX 101000		MIN 3500				

01035000 PASSADUMKEAG RIVER AT LOWELL, ME

LOCATION.--Lat 45°11'04", long 68°28'29", Penobscot County, Hydrologic Unit 01020005, on right bank at Lowell, 0.5 mi (0.8 km) downstream from dam and highway bridge, and 11 mi (18 km) upstream from mouth.

DRAINAGE AREA.--299 mi² (774 km²).

PERIOD OF RECORD.--October 1915 to September 1979 (discontinued).

REVISED RECORDS.--WSP 821: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 151.3 ft (46.12 m) National Geodetic Vertical Datum of 1929. Oct. 1, 1915, to Sept. 30, 1917, nonrecording gage at same site and datum. Oct. 1, 1917, to Nov. 30, 1921, nonrecording gage at site on left bank 400 ft (122 m) downstream from highway bridge 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.--64 years, 506 ft³/s (14.33 m³/s), 22.98 in/yr (584 mm/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 5,680 ft³/s (161 m³/s) May 2, 1923, gage height, 9.40 ft (2.865 m); minimum, about 5 ft³/s (0.1 m³/s) several times in July and August 1921 (gates in dam closed).

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 3,320 ft³/s (94.0 m³/s) Mar. 27, gage height, 6.66 ft (2.030 m); minimum, 39 ft³/s (1.10 m³/s) Oct. 1, gage height, 0.62 ft (0.189 m).

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	39	239	130	110	900	240	2580	1540	1820	337	382	358
2	42	209	125	105	1120	235	2410	1610	1400	350	347	337
3	42	184	120	130	1120	230	2250	1630	1760	364	311	311
4	41	166	120	220	1110	225	2110	1610	1700	364	277	287
5	49	151	115	510	970	220	2020	1560	1610	354	245	262
6	60	138	115	640	910	380	1940	1480	1510	337	253	253
7	82	129	110	690	860	1030	1880	1390	1400	321	253	376
8	104	120	110	650	800	1520	1790	1260	1290	301	242	501
9	122	115	110	600	760	1880	1710	1150	1180	286	215	577
10	127	109	110	560	700	1980	1750	940	1080	268	195	590
11	120	104	105	520	650	2040	1770	861	984	253	195	564
12	111	100	105	480	610	2100	1750	810	951	242	198	513
13	100	96	105	455	580	2040	1730	805	934	233	301	452
14	100	96	105	425	540	1810	1700	876	902	224	475	395
15	127	96	100	390	500	1840	1670	945	866	212	685	417
16	158	98	100	370	470	1840	1630	979	820	201	764	428
17	195	98	100	350	440	1660	1570	979	764	245	759	413
18	204	127	100	330	415	1630	1520	951	704	256	704	381
19	193	171	105	310	390	1430	1470	918	642	271	637	348
20	176	215	115	290	365	1330	1400	876	588	268	624	321
21	156	242	120	280	350	1260	1340	830	541	253	619	298
22	141	230	130	270	330	1250	1280	785	503	233	619	291
23	134	201	135	260	310	1290	1230	850	479	218	579	285
24	136	179	135	250	300	1390	1170	1090	467	201	524	277
25	134	161	130	245	285	1740	1120	1310	452	184	463	264
26	134	156	130	240	270	2950	1070	1400	429	176	414	249
27	184	150	125	240	260	3260	1040	1500	400	201	375	235
28	236	140	120	245	250	3290	1120	1560	378	259	361	223
29	280	135	115	250	---	3170	1300	1600	361	334	354	212
30	289	130	110	350	---	2960	1450	1550	340	392	364	203
31	268	---	110	600	---	2750	---	1770	---	407	370	---
TOTAL	4284	4485	3565	11365	16565	50970	48770	37415	27655	8545	13104	10621
MEAN	138	150	115	367	592	1644	1626	1207	922	276	423	354
MAX	289	242	135	690	1120	3290	2580	1770	1820	407	764	590
MIN	39	96	100	105	250	220	1040	785	340	176	195	203
CFSM	.46	.50	.39	1.23	1.98	5.50	5.44	4.04	3.08	.92	1.42	1.18
IN.	.53	.56	.44	1.41	2.06	6.34	6.07	4.65	3.44	1.06	1.63	1.32
CAL YR 1978 TOTAL	160428		MEAN 440	MAX 2080	MIN 39	CFSM 1.47	IN 19.96					
WTR YR 1979 TOTAL	237344		MEAN 650	MAX 3290	MIN 39	CFSM 2.17	IN 29.53					

PENOBSCOT RIVER BASIN

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 to September 1979.

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 CURRENT YEAR.--Maximum discharge during period April to September, 117,000 ft³/s (3,310 m³/s) Apr. 30, gage height, 19.52 ft (5.950 m); minimum daily, 4,960 ft³/s (140 m³/s) July 26.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1							---	112000	57000	7310	7000	8820
2							---	97200	57900	7390	6200	8520
3							---	88600	54800	7670	6200	7890
4							---	81100	50100	6690	6380	6500
5							---	73700	44700	6160	6050	5180
6							49600	66400	38400	6150	6200	6150
7							47200	59700	33800	7400	6250	7560
8							44200	53800	29400	7240	6300	13500
9							41200	46800	25800	6460	6580	16900
10							39800	39200	23100	6240	6100	14800
11							39900	33100	18400	6310	5900	12600
12							39800	26800	17700	6780	6100	10700
13							36300	23400	18600	6590	7500	9660
14							36300	20800	20200	6400	10800	9100
15							38300	21400	18800	6050	12000	9000
16							39000	22300	16500	6240	13200	9200
17							38800	21700	14000	6400	13300	9600
18							38300	19300	13000	6820	11100	9600
19							37500	17500	10900	5990	9900	9150
20							36600	16200	10200	6310	9450	9050
21							34800	15600	9930	6370	10300	8900
22							34300	13500	8920	6150	13000	8700
23							34900	12600	8220	5640	12400	8400
24							35500	12400	8250	6050	11300	8200
25							36700	14600	8720	5770	10400	7900
26							37300	21400	8520	4960	8520	7700
27							38100	34400	7990	5380	7830	7600
28							47900	40900	8020	6380	7820	7450
29							81900	39800	7820	6700	7580	7350
30							110000	41200	8030	6200	8770	7400
31							---	47600	---	6700	9150	---
TOTAL							---	1235000	657720	198900	269580	273080
MEAN							---	39840	21920	6416	8696	9103
MAX							---	112000	57900	7670	13300	16900
MIN							---	12400	7820	4960	5900	5180

01036390 PENOBSCOT RIVER AT EDDINGTON, ME--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--April to September 1979.

PERIOD OF DAILY RECORD.--

SPECIFIC CONDUCTANCE: April to September 1979.

pH: April to September 1979.

WATER TEMPERATURES: April to September 1979.

DISSOLVED OXYGEN: April to September 1979.

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

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

EXTREMES FOR CURRENT YEAR.--

SPECIFIC CONDUCTANCE: Maximum during period April to September, 74 micromhos Aug. 12; minimum, 29 micromhos April 30, 31.

pH: Maximum during period April to September, 9.3 units Sept. 6; minimum, 5.3 units Sept. 6, 7.

WATER TEMPERATURES: Maximum during period April to September, 28.0°C July 30; minimum, 2.0°C April 11.

DISSOLVED OXYGEN: Maximum during period April to September, 11.6 mg/L May 29; minimum, 6.8 mg/L July 22, 23, 25, 26.

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979

DATE	TIME	STREAM- FLOW, INSTAN- TANEOUS (CFS)	SPE- CIFIC CON- DUCT- ANCE (MICRO- MHOS)	PH (UNITS)	TEMPER- ATURE, AIR (DEG C)	TEMPER- ATURE (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)
DEC											
01...	1330	5000	85	6.7	7.0	.5	4.0	13.0	90	>600	230
JAN											
30...	1100	17900	68	6.2	7.0	.0	3.0	12.6	86	220	K100
FEB											
13...	1100	13000	68	6.4	-8.0	.0	1.0	12.2	84	160	K18
MAR											
20...	1100	25200	49	6.4	7.5	1.0	1.0	12.6	89	K300	K10
APR											
10...	1215	39800	39	6.6	6.5	3.0	1.0	13.2	98	27	K12
MAY											
23...	1130	12600	50	6.8	24.0	17.5	.00	9.4	98	48	K24
JUN											
26...	1300	8520	50	7.0	22.0	19.0	1.0	8.7	92	K12	K4
JUL											
23...	1115	5640	69	6.6	27.0	25.5	1.0	7.0	84	490	240
AUG											
28...	1045	7820	55	6.9	22.0	20.0	1.0	8.3	90	290	120
SEP											
18...	1045	9600	50	6.9	18.0	17.0	1.0	9.0	93	46	66

DATE	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)	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)	CARBON DIOXIDE DIS- SOLVED (MG/L AS CO2)
DEC											
01...	23	12	6.2	1.8	5.0	31	.5	--	.8	11	--
JAN											
30...	18	10	5.0	1.4	3.1	26	.3	--	.5	8	--
FEB											
13...	19	7	5.5	1.2	3.5	28	.4	--	.7	12	--
MAR											
20...	--	--	--	--	--	--	--	--	--	8	--
APR											
10...	13	0	3.7	.8	1.6	21	.2	--	.5	15	--
MAY											
23...	14	2	4.3	.9	2.3	25	.3	2.8	.5	12	--
JUN											
26...	17	4	4.9	1.2	2.6	24	.3	--	.5	13	--
JUL											
23...	19	3	5.5	1.2	4.0	31	.4	4.6	.6	16	7.8
AUG											
28...	18	10	5.1	1.2	3.6	30	.4	4.1	.5	8	2.0
SEP											
18...	9	1	2.3	.7	3.1	41	.5	4.0	.9	8	--

01036390 PENOBSCOT RIVER AT EDDINGTON, ME--Continued

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979

DATE	COBALT, TOTAL RECOV- ERABLE (UG/L AS CO)	COBALT, SUS- PENDE RECOV- ERABLE (UG/L AS CO)	COBALT, DIS- SOLVED (UG/L AS CO)	COPPER, TOTAL RECOV- ERABLE (UG/L AS CU)	COPPER, SUS- PENDE RECOV- ERABLE (UG/L AS CU)	COPPER, DIS- SOLVED (UG/L AS CU)	IRON, TOTAL RECOV- ERABLE (UG/L AS FE)	IRON, SUS- PENDE RECOV- ERABLE (UG/L AS FE)	IRON, DIS- SOLVED (UG/L AS FE)	LEAD, TOTAL RECOV- ERABLE (UG/L AS PB)	LEAD, SUS- PENDE RECOV- ERABLE (UG/L AS PB)
DEC 01...	0	0	0	2	0	2	260	130	130	10	0
JAN 30...	--	--	--	--	--	--	--	--	--	--	--
FEB 13...	1	1	0	0	0	1	120	20	100	10	6
MAR 20...	--	--	0	--	--	4	--	--	--	--	--
APR 10...	--	--	--	--	--	--	--	--	--	--	--
MAY 23...	0	0	0	1	0	1	200	100	100	3	2
JUN 26...	--	--	--	--	--	--	--	--	--	--	--
JUL 23...	--	--	--	--	--	--	--	--	--	--	--
AUG 28...	0	0	0	12	8	4	220	60	160	0	0
SEP 18...	--	--	--	--	--	--	--	--	--	--	--
DATE	LEAD, DIS- SOLVED (UG/L AS PB)	MANGA- NESE, TOTAL RECOV- ERABLE (UG/L AS MN)	MANGA- NESE, SUS- PENDE RECOV- ERABLE (UG/L AS MN)	MANGA- NESE, 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)	SELE- NIUM, TOTAL (UG/L AS SE)	SELE- NIUM, SUS- PENDE RECOV- ERABLE (UG/L AS SE)	SELE- NIUM, DIS- SOLVED (UG/L AS SE)	SILVER, TOTAL RECOV- ERABLE (UG/L AS AG)
DEC 01...	10	40	10	30	<.5	.0	<.5	0	0	0	0
JAN 30...	--	--	--	--	--	--	--	--	--	--	--
FEB 13...	4	30	0	30	<.5	.0	<.5	0	0	0	0
MAR 20...	30	--	--	--	--	--	--	--	--	--	--
APR 10...	--	--	--	--	--	--	--	--	--	--	--
MAY 23...	1	30	20	10	<.5	.0	<.5	0	0	0	0
JUN 26...	--	--	--	--	--	--	--	--	--	--	--
JUL 23...	--	--	--	--	--	--	--	--	--	--	--
AUG 28...	0	30	10	20	<.5	<.0	<.5	0	0	0	0
SEP 18...	--	--	--	--	--	--	--	--	--	--	--
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 TOTAL (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
DEC 01...	0	0	20	10	10	--	13	.5	--	--	--
JAN 30...	--	--	--	--	--	10	--	--	20	967	77
FEB 13...	0	0	70	60	10	--	9.9	.3	5	175	100
MAR 20...	--	0	--	--	10	9.3	--	--	20	1360	100
APR 10...	--	--	--	--	--	9.3	--	--	6	645	100
MAY 23...	0	0	20	20	3	--	244	.3	5	170	100
JUN 26...	--	--	--	--	--	10	--	--	2	46	100
JUL 23...	--	--	--	--	--	8.9	--	--	2	30	100
AUG 28...	0	0	10	0	10	--	174	.2	36	760	56
SEP 18...	--	--	--	--	--	19	--	--	2	52	100

01036390 PENOBSCOT RIVER AT EDDINGTON, ME--Continued

RADIOCHEMICAL ANALYSES, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979

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)
MAY 23...	.5	.8	<.3	<.4	1.4	1.3	<.4	<.4	.03	.12

BIOLOGICAL DATA, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979

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 23 TO JUN 26	34	.240	.160	.160	.000	500
JUN 26 TO JUL 23	27	1.18	.630	5.21	1.04	106
JUL 23 TO AUG 28	36	.240	.160	1.31	.860	61.1
AUG 28 TO SEP 18	21	.240	.080	.390	.000	410

01036390 PENOBSCOT RIVER AT EDDINGTON, ME--Continued

PHYTOPLANKTON ANALYSES, OCTOBER 1978 TO SEPTEMBER 1979

DATE TIME	MAY 23,79 1130	JUN 26,79 1300	JUL 23,79 1115	AUG 28,79 1045	SEP 18,79 1045
TOTAL CELLS/ML	640	5500	1600	1600	2400
DIVERSITY: DIVISION	0.6	1.1	1.0	1.7	0.5
..CLASS	0.6	1.1	1.0	1.7	0.5
...ORDER	1.2	1.3	1.3	1.9	0.7
...FAMILY	1.5	1.6	1.5	2.1	0.7
....GENUS	1.6	1.7	1.7	2.7	0.7

ORGANISM	CELLS /ML	PER- CENT	CELLS /ML	PER- CENT	CELLS /ML	PER- CENT	CELLS /ML	PER- CENT	CELLS /ML	PER- CENT
CHLOROPHYTA (GREEN ALGAE)										
..CHLOROPHYCEAE										
...CHLOROCOCCALES										
...CHARACIACEAE										
....SCHROEDERIA	--	-	* 0		13	1	--	-	29	1
....MICRACTINIACEAE	--	-	460	8	--	-	--	-	--	-
....MICRACTINIUM										
....OOCYSTACEAE										
....ANKISTRODESMUS	26	4	340	6	170	10	45	3	100	4
....DICTYOSPHAERIUM	--	-	--	-	52	3	60	4	--	-
....SELENASTRUM	--	-	--	-	64	4	--	-	--	-
....SCENEDESMACEAE										
....CRUCIGENIA	--	-	52	1	--	-	35	2	--	-
....SCENEDESMUS	51	8	100	2	52	3	50	3	--	-
....TETRASTRUM	--	-	--	-	--	-	20	1	--	-
..TETRASPORALES										
...PALMELLACEAE										
...SPHAEROCYSTIS	--	-	100	2	--	-	--	-	--	-
..VOLVOCALES										
...CHLAMYDOMONADACEAE										
...CHLAMYDOMONAS	13	2	39	1	--	-	--	-	--	-
...VOLVOCAEAE										
...GONIUM	--	-	--	-	--	-	--	-	100	4
..ZYGNEMALES										
...DESMIDIACEAE										
...COSMARIUM	--	-	* 0		--	-	--	-	--	-
CHRYSTOPHYTA										
..BACILLARIOPHYCEAE										
...CENTRALES										
...COSCINODISCEAE										
...CYCLOTELLA	13	2	39	1	--	-	* 0		--	-
...MELOSIRA	460#	72	3900#	70	52	3	420#	27	2100#	89
...PENNALES										
...ACHNANTHACEAE										
...ACHNANTHES	--	-	--	-	--	-	--	-	14	1
...COCCONEIS	--	-	--	-	--	-	10	1	--	-
...RHOICOSPHEA	--	-	--	-	--	-	* 0		--	-
...CYMBELLACEAE										
...CYMBELLA	--	-	--	-	13	1	--	-	--	-
...FRAGILARIACEAE										
...ASTERIONELLA	--	-	52	1	--	-	--	-	--	-
...FRAGILARIA	--	-	* 0		--	-	--	-	14	1
...SYNEDRA	26	4	--	-	--	-	20	1	--	-
...NAVICULACEAE										
...NAVICULA	26	4	--	-	--	-	35	2	--	-
...NITZSCHACEAE										
...NITZSCHIA	26	4	* 0		13	1	--	-	14	1
...SURIPELLACEAE										
...SURIPELLA	--	-	--	-	--	-	* 0		--	-
...TABELLARIACEAE										
...TABELLARIA	--	-	--	-	--	-	* 0		--	-
CRYPTOPHYTA (CRYPTOMONADS)										
..CRYPTOPHYCEAE										
...CRYPTOMONADALES										
...CRYPTOCHRYSIDACEAE										
...CHROOMONAS	--	-	--	-	--	-	10	1	--	-
...CRYPTOMONADACEAE										
...CRYPTOMONAS	--	-	--	-	--	-	91	6	--	-
CYANOPHYTA (BLUE-GREEN ALGAE)										
..CYANOPHYCEAE										
...CHROOCOCCALES										
...CHROOCOCCACEAE										
....AGMENELLUM	--	-	--	-	52	3	160	10	--	-
....ANACYSTIS	--	-	400	7	13	1	600#	38	--	-
...HORMOGONALES										
...OSCILLATORIACEAE										
...OSCILLATORIA	--	-	--	-	1200#	70	--	-	--	-

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

SPECIFIC CONDUCTANCE (MICROMHOS/CM AT 25 DEG. C), WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
FEBRUARY			MARCH			APRIL			MAY			
1	---	---	---	---	---	---	---	---	---	31	31	31
2	---	---	---	---	---	---	---	---	---	33	32	33
3	---	---	---	---	---	---	---	---	---	33	33	33
4	---	---	---	---	---	---	---	---	---	34	33	33
5	---	---	---	---	---	---	---	---	---	34	34	34
6	---	---	---	---	---	---	---	---	---	35	34	35
7	---	---	---	---	---	---	35	32	34	35	35	35
8	---	---	---	---	---	---	36	35	36	36	30	34
9	---	---	---	---	---	---	39	38	38	32	30	31
10	---	---	---	---	---	---	40	39	40	34	32	33
11	---	---	---	---	---	---	40	39	40	35	34	34
12	---	---	---	---	---	---	42	39	40	38	35	36
13	---	---	---	---	---	---	42	39	40	40	37	38
14	---	---	---	---	---	---	42	39	41	41	38	39
15	---	---	---	---	---	---	42	39	41	41	40	40
16	---	---	---	---	---	---	42	40	41	41	40	41
17	---	---	---	---	---	---	42	39	40	41	40	41
18	---	---	---	---	---	---	43	39	40	42	41	41
19	---	---	---	---	---	---	39	39	39	45	42	43
20	---	---	---	---	---	---	39	39	39	46	43	44
21	---	---	---	---	---	---	39	39	39	45	44	44
22	---	---	---	---	---	---	41	39	40	48	46	46
23	---	---	---	---	---	---	41	40	40	49	48	48
24	---	---	---	---	---	---	40	40	40	49	47	48
25	---	---	---	---	---	---	40	39	39	50	46	49
26	---	---	---	---	---	---	39	38	39	48	46	48
27	---	---	---	---	---	---	39	38	38	46	44	45
28	---	---	---	---	---	---	38	36	37	43	39	41
29	---	---	---	---	---	---	35	29	31	39	38	39
30	---	---	---	---	---	---	31	29	30	39	38	38
31	---	---	---	---	---	---	---	---	---	38	38	38
MONTH							43	29	38	50	30	39
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
JUNE			JULY			AUGUST			SEPTEMBER			
1	38	36	37	---	---	---	66	64	65	59	55	57
2	36	35	36	---	---	---	68	66	67	61	56	58
3	37	36	36	---	---	---	69	66	68	61	53	57
4	38	37	38	---	---	---	67	63	65	58	53	55
5	39	38	39	---	---	---	70	63	67	67	53	61
6	39	39	39	---	---	---	71	66	69	64	53	56
7	43	40	41	---	---	---	70	66	68	62	54	58
8	43	41	42	---	---	---	71	69	70	60	54	56
9	43	42	42	---	---	---	70	68	69	53	51	52
10	44	42	43	67	61	64	71	69	70	51	50	51
11	---	---	---	66	61	65	73	71	72	51	49	50
12	---	---	---	67	64	65	74	72	73	51	50	50
13	---	---	---	70	65	68	71	69	67	52	50	51
14	---	---	---	67	64	66	68	58	62	51	51	51
15	---	---	---	69	64	67	59	54	55	52	51	52
16	---	---	---	68	65	67	53	52	53	53	51	52
17	---	---	---	68	66	67	54	51	52	53	52	53
18	---	---	---	66	65	65	54	52	53	54	52	53
19	---	---	---	68	65	67	55	53	54	54	53	53
20	49	45	46	68	65	67	60	54	56	58	53	55
21	49	45	47	68	64	67	57	55	56	55	53	54
22	49	46	47	68	64	67	55	52	53	55	54	55
23	50	47	48	70	65	68	53	51	52	56	55	55
24	50	48	49	70	65	67	51	49	50	55	54	54
25	---	---	---	67	64	65	51	49	50	56	54	55
26	---	---	---	68	65	66	56	50	52	58	56	57
27	---	---	---	72	68	70	59	53	56	58	56	57
28	---	---	---	70	66	67	60	55	58	60	57	58
29	---	---	---	66	62	65	64	60	62	60	58	59
30	---	---	---	69	62	66	62	54	57	60	58	59
31	---	---	---	67	63	66	60	55	57	---	---	---
MONTH	50	35	42	72	61	66	74	49	61	67	49	55
PERIOD	74	29	51									

PENOBSCOT RIVER BASIN

01036500 KENDUSKEAG STREAM NEAR KENDUSKEAG, ME

LOCATION.--Lat 44°53'48", long 68°53'04", Penobscot County, Hydrologic Unit 01020005, on right bank 300 ft (91 m) upstream from highway bridge, 1.8 mi (2.9 km) downstream from Black Stream, and 2.9 mi (4.7 km) south of Kenduskeag.

DRAINAGE AREA.--178 mi² (461 km²).

PERIOD OF RECORD.--October 1941 to September 1979 (discontinued).

GAGE.--Water-stage recorder. Datum of gage is 91.94 ft (28.023 m) National Geodetic Vertical Datum of 1929.

REMARKS.--Records fair. An artificial cut has been made through a low divide between Souadabscook Stream and Black Stream which enters Kenduskeag Stream 1.8 mi (2.9 km) above station. During high stages of Souadabscook Stream, part of its flow passes through the cut into Kenduskeag Stream; at low stages of Souadabscook Stream, all flow continues down its own channel. Several observations of water temperature and specific conductance were made during the year.

AVERAGE DISCHARGE.--38 years, 326 ft³/s (9.232 m³/s), 24.87 in/yr (632 mm/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 6,400 ft³/s (181 m³/s) Sept. 12, 1954, gage height, 14.83 ft (4.520 m); minimum daily, 1.0 ft³/s (0.028 m³/s) Sept. 30, 1948, Aug. 8, 1965.

EXTREMES FOR CURRENT YEAR.--Peak discharges above base of 1,600 ft³/s (45 m³/s) and maximum (*):

Date	Time	Discharge (ft ³ /s) (m ³ /s)	Gage height (ft) (m)	Date	Time	Discharge (ft ³ /s) (m ³ /s)	Gage height (ft) (m)
Jan. 4	0400	2180 61.7	7.16 2.182	Mar. 26	2100	*5180 147	12.37 3.770
Mar. 9	-	3600 102	ice jam	Apr. 30	0100	2560 72.5	7.91 2.411

Minimum daily discharge, 3.8 ft³/s (0.108 m³/s) Oct. 1.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	3.8	36	25	78	600	460	1190	1690	1490	35	16	53
2	4.6	33	26	211	460	475	1110	1180	1170	32	18	40
3	5.2	29	28	1400	375	445	976	871	854	28	17	32
4	5.2	26	28	2100	315	415	971	724	699	25	16	26
5	6.8	23	27	1750	270	515	999	630	558	23	15	22
6	9.4	22	26	1300	230	860	1100	530	453	21	21	25
7	12	21	26	900	205	1500	1130	450	362	19	74	475
8	12	19	26	600	175	2600	907	400	275	18	32	517
9	12	18	26	425	160	3500	792	370	221	17	21	302
10	11	17	33	300	145	3150	871	340	194	16	16	160
11	9.9	17	39	195	130	2550	1050	325	170	15	22	95
12	9.4	16	42	135	125	2200	995	310	240	15	32	70
13	9.0	16	42	98	120	1900	894	300	349	14	180	50
14	12	16	41	87	115	1800	867	330	272	14	493	40
15	31	16	44	82	110	2300	845	700	206	21	400	61
16	67	16	41	79	110	2100	849	1200	135	35	305	75
17	45	17	45	78	110	1700	801	1280	101	60	160	60
18	34	31	56	76	110	1450	711	960	79	105	85	45
19	28	103	74	75	105	1300	634	830	67	88	65	36
20	26	112	87	74	105	1280	591	740	58	51	115	33
21	25	74	84	75	105	1080	531	640	49	36	165	32
22	22	46	73	78	110	1000	482	580	46	23	160	32
23	21	38	67	82	130	1060	450	530	63	16	135	31
24	20	30	61	90	150	1350	418	480	81	13	95	30
25	19	26	61	110	175	2420	383	700	87	11	65	26
26	20	25	73	250	225	4570	324	950	71	10	56	23
27	34	23	74	500	300	4470	346	1320	58	18	49	20
28	82	23	76	1000	450	2740	1280	1250	51	33	53	18
29	71	22	73	1550	---	1770	2270	1180	42	41	55	17
30	53	24	66	1100	---	1270	2370	1270	38	32	67	16
31	44	---	58	800	---	1140	---	1350	---	24	67	---
TOTAL	764.3	935	1548	15678	5720	55370	27137	24410	8539	909	3072	2462
MEAN	24.7	31.2	49.9	506	204	1786	905	787	285	29.3	99.1	82.1
MAX	82	112	87	2100	600	4570	2370	1690	1490	105	493	517
MIN	3.8	16	25	74	105	415	324	300	38	10	15	16
CFSM	.14	.18	.28	2.84	1.15	10.0	5.08	4.42	1.60	.17	.56	.46
IN.	.16	.20	.32	3.28	1.20	11.57	5.67	5.10	1.78	.19	.64	.51
CAL YR 1978 TOTAL	77960.5		MEAN 214	MAX 3900	MIN 2.4	CFSM 1.20	IN 16.29					
WTR YR 1979 TOTAL	146544.3		MEAN 401	MAX 4570	MIN 3.8	CFSM 2.25	IN 30.63					

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 Hydro-Electric 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 Hydro-Electric 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 Hydro-Electric Co.

MONTHEND CONTENTS, IN MILLIONS OF CUBIC FEET, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979

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, 1978		42786	3890	179
OCT. 31		36845	2829	179
NOV. 30		32216	2585	179
DEC. 31		27353	2094	179
JAN. 31, 1979		27635	3402	1529
FEB. 28		23312	3014	1529
MAR. 31		33007	3899	2335
APR. 30		56078	5004	2628
MAY 31		58339	5924	2247
JUNE 30		53868	6065	2072
JULY 31		45147	4953	1779
AUG. 31		38979	3814	1749
SEPT. 30		35400	3311	1311

* 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, Sourdnahunk, Rainbow, Ragged, and Millinocket Lakes, Canada Falls Reservoir, Dole, and Poland Ponds.

SHEEPSCOT RIVER BASIN

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 101.1 ft (30.82 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.--41 years, 249 ft³/s (7.052 m³/s), 22.85 in/yr (580 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)
Mar. 8	2200	2250 63.7	7.07 2.155	Apr. 28	1400	*2450 69.4	7.37 2.246
Mar. 26	0700	2260 64.0	7.09 2.161				

Minimum discharge, 9.4 ft³/s (0.27 m³/s) Oct. 1, gage height, 1.71 ft (0.521 m).

DISCHARGE, STREAM (CUBIC FEET PER SECOND), WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	9.8	25	29	45	853	228	943	1860	881	53	31	31
2	12	24	29	215	789	223	816	1550	751	58	32	28
3	12	22	29	645	709	213	835	1240	666	52	32	27
4	12	21	29	375	613	211	783	1090	585	47	28	27
5	15	21	26	245	535	294	751	923	501	43	27	26
6	21	20	25	200	506	704	765	754	453	40	24	28
7	31	20	24	180	440	1570	722	619	393	38	22	74
8	25	19	25	232	345	2050	620	516	338	36	21	64
9	21	19	27	276	295	2080	570	439	295	35	20	45
10	19	18	28	232	255	1860	668	383	262	34	21	37
11	18	17	29	200	230	2150	664	334	230	32	26	33
12	17	18	29	175	195	1830	583	289	205	31	29	29
13	16	16	29	166	175	1490	528	261	184	31	57	28
14	18	16	29	174	155	1290	491	256	163	31	80	26
15	30	16	29	170	140	1220	473	294	145	29	55	50
16	32	16	28	160	130	991	491	323	132	29	45	62
17	27	16	32	145	120	837	450	285	120	59	38	46
18	24	21	34	140	110	693	410	255	110	84	33	40
19	21	27	33	140	100	585	381	239	103	51	38	35
20	26	30	32	135	95	529	359	224	93	42	56	33
21	28	26	34	135	87	566	335	215	84	36	49	31
22	25	23	35	135	84	651	313	214	77	32	41	40
23	24	21	34	135	83	675	294	196	74	37	36	48
24	27	21	33	135	86	755	275	221	70	33	33	42
25	25	24	37	140	100	1330	258	601	64	29	29	36
26	26	24	46	155	135	2150	243	747	59	28	28	33
27	41	30	42	225	175	1860	515	759	55	41	27	32
28	43	24	39	365	210	1630	2280	698	52	50	26	31
29	38	23	36	605	---	1350	2300	865	50	52	27	31
30	32	26	36	869	---	1120	2200	854	47	41	36	31
31	26	---	35	936	---	1050	---	1040	---	34	38	---
TOTAL	741.8	644	982	8085	7750	34185	21316	18544	7242	1268	1085	1124
MEAN	23.9	21.5	31.7	261	277	1103	711	598	241	40.9	35.0	37.5
MAX	43	30	46	936	853	2150	2300	1860	881	84	80	74
MIN	9.8	16	24	45	83	211	243	196	47	28	20	26
CFSM	.16	.15	.21	1.76	1.87	7.45	4.80	4.04	1.63	.28	.24	.25
IN.	.19	.16	.25	2.03	1.95	8.59	5.36	4.66	1.82	.32	.27	.28
CAL YR 1978	TOTAL	79190.3	MEAN 217	MAX 1710	MIN 9.5	CFSM 1.47	IN 19.90					
WTR YR 1979	TOTAL	102966.8	MEAN 282	MAX 2300	MIN 9.8	CFSM 1.91	IN 25.88					

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 lake at Moosehead.

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 1979, is given below:

October	50	February	30	June	70
November	30	March	25	July	70
December	25	April	40	August	45
January	25	May	40	September	40

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, 17.78 ft (5.419 m) June 1; minimum observed, 12.80 ft (3.901 m) Mar. 6.

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

12.0	6,237
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 1978 TO SEPTEMBER 1979

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	14.42	14.32	14.04	13.42	14.01	13.00	15.10	17.73	17.78	17.32	16.44	15.60
2	14.42	14.32	14.01	13.42	14.02	12.95	15.20	17.76	17.76	17.33	16.40	15.58
3	14.39	14.32	13.98	13.45	14.02	12.88	15.35	17.75	17.72	17.32	16.35	15.55
4	14.35	14.32	13.95	13.50	14.02	12.84	15.48	17.77	17.68	17.30	16.32	15.53
5	14.32	14.32	13.95	13.56	14.04	12.82	15.58	17.75	17.62	17.30	16.30	15.50
6	14.30	14.32	13.95	13.59	14.04	12.80	15.67	17.70	17.58	17.28	16.30	15.48
7	14.28	14.32	13.95	13.62	14.04	12.85	15.80	17.63	17.51	17.20	16.26	15.57
8	14.26	14.32	13.95	13.64	14.03	12.92	15.90	17.59	17.47	17.19	16.22	15.55
9	14.24	14.31	13.94	13.70	14.01	13.05	16.00	17.52	17.48	17.18	16.17	15.52
10	14.21	14.29	13.92	13.75	13.96	13.17	16.10	17.50	17.58	17.15	16.12	15.47
11	14.18	14.26	13.87	13.80	13.90	13.26	16.21	17.51	17.60	17.12	16.09	15.40
12	14.18	14.25	13.83	13.83	13.86	13.33	16.32	17.52	17.62	17.08	16.06	15.35
13	14.19	14.24	13.80	13.83	13.82	13.44	16.40	17.56	17.66	17.04	16.06	15.31
14	14.20	14.20	13.77	13.82	13.79	13.46	16.47	17.70	17.72	17.00	16.06	15.22
15	14.30	14.21	13.75	13.82	13.75	13.54	16.60	17.74	17.74	16.96	16.02	15.26
16	14.34	14.21	13.71	13.82	13.70	13.60	16.71	17.72	17.70	16.92	15.94	15.26
17	14.36	14.20	13.67	13.82	13.65	13.65	16.83	17.68	17.70	16.88	15.90	15.26
18	14.36	14.18	13.67	13.82	13.60	13.69	16.91	17.65	17.73	16.85	15.85	15.18
19	14.36	14.16	13.65	13.81	13.55	13.74	16.95	17.62	17.71	16.82	15.82	15.13
20	14.38	14.14	13.64	13.81	13.50	13.77	17.01	17.60	17.69	16.80	15.80	15.10
21	14.40	14.11	13.63	13.81	13.42	13.79	17.06	17.60	17.66	16.74	15.80	15.06
22	14.40	14.09	13.61	13.83	13.35	13.80	17.12	17.62	17.61	16.72	15.77	15.02
23	14.39	14.08	13.59	13.86	13.27	13.81	17.20	17.63	17.54	16.70	15.72	14.97
24	14.39	14.09	13.59	13.87	13.20	13.90	17.30	17.63	17.55	16.69	15.66	14.92
25	14.39	14.10	13.58	13.89	13.15	14.02	17.34	17.67	17.56	16.66	15.64	14.87
26	14.37	14.12	13.58	13.90	13.10	14.25	17.34	17.66	17.48	16.61	15.64	14.82
27	14.43	14.10	13.56	13.92	13.10	14.45	17.35	17.65	17.44	16.61	15.64	14.75
28	14.35	14.10	13.54	13.92	13.06	14.65	17.55	17.64	17.38	16.61	15.64	14.70
29	14.35	14.09	13.50	13.94	--	14.80	17.70	17.65	17.36	16.59	15.63	14.68
30	14.36	14.07	13.47	13.95	-----	14.90	17.71	17.67	17.32	16.57	15.62	14.65
31	14.34	-----	13.44	13.98	-----	15.00	-----	17.75	-----	16.52	15.60	-----
MAX	14.43	14.32	14.04	13.98	14.05	15.00	17.71	17.77	17.78	17.33	16.44	15.60
MIN	14.18	14.07	13.44	13.42	13.06	12.80	15.10	17.50	17.32	16.52	15.60	14.65
†	13,615	12,759	10,767	12,474	9,586	15,713	24,415	24,545	23,154	20,577	17,628	14,600
‡	-349	-856	-1,992	+1,707	-3,906	+6,145	+8,702	+130	-1,391	-2,577	-2,949	-3,028

CAL YR 1978: † -13,033

WTR YR 1979: † +636

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

‡ Change in contents, in millions of cubic feet.

KENNEBEC RIVER BASIN

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.--60 years, 1,962 ft³/s (55.56 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, 12,600 ft³/s (357 m³/s) May 2, gage height, 8.68 ft (2.646 m); minimum, 186 ft³/s (5.27 m³/s) Apr. 20, gage height, 2.30 ft (0.701 m).

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	683	1860	2220	1520	1240	2700	297	8400	7810	1240	2750	820
2	1030	1260	2200	1270	1250	2290	297	11000	7760	2120	2730	820
3	1250	1260	2190	534	963	1660	299	12500	7700	2300	2500	820
4	1230	1260	2180	290	274	1950	302	12500	7620	1260	1630	1240
5	1230	1260	2180	279	805	2330	302	12300	7530	912	856	1520
6	1220	1260	2180	279	1250	2190	305	12200	6860	1560	999	1300
7	1220	1270	2170	279	1730	643	308	9800	4930	1340	1220	1250
8	1210	1520	2390	266	2180	260	308	8340	2520	912	1400	2060
9	1200	1700	2740	246	2160	263	310	7630	1110	1540	1710	2040
10	1200	1690	2710	241	2140	266	308	5080	938	2000	1690	2020
11	1200	1690	2690	587	2120	268	314	4560	1670	1990	1440	2010
12	1200	1690	2660	1190	2100	274	314	3560	2190	1970	954	1990
13	1200	2040	2640	1190	2080	281	318	2520	1490	1970	957	1980
14	1220	2300	2620	1200	2050	274	326	2830	1750	1530	1380	1960
15	1230	2310	2610	1190	2030	278	326	3220	3160	1200	3150	1390
16	1230	2300	2580	1190	2000	279	326	3720	2980	1600	2790	1080
17	1230	2470	1830	1190	1980	279	326	4040	2430	1760	1940	1600
18	1230	2600	1280	1190	1960	279	326	4020	2200	1480	1670	1960
19	1240	2610	1670	1190	2100	848	288	3480	2180	1470	1090	1940
20	1250	2600	1660	1180	2520	1150	309	2190	2510	1470	1300	1920
21	1250	2580	2170	1190	2950	1700	483	1630	2720	1410	1910	1890
22	1250	1780	2570	1200	2920	1530	483	1630	2460	1090	1950	1870
23	1260	1210	2050	842	2880	669	483	1800	1340	1270	2130	1860
24	1250	1210	1630	284	2810	271	1440	2200	1350	1460	2100	1840
25	1240	1220	1630	283	2800	283	2810	4180	2380	1640	1370	1840
26	1670	1210	2120	1200	2780	294	4320	5890	2850	1830	879	1830
27	2130	1210	2480	2150	2780	291	4730	5860	2320	1840	884	1810
28	2420	1830	2440	1250	2740	287	5530	5620	2080	1830	1560	1800
29	2420	2240	1930	252	---	285	7350	5500	1960	1830	1550	1780
30	2840	2220	1550	807	---	288	8410	6300	1230	1820	1550	1770
31	3050	---	1530	1250	---	296	---	7430	---	2180	1270	---
TOTAL	44483	53660	67500	27209	57592	24956	42248	181930	98028	49824	51309	50010
MEAN	1435	1789	2177	878	2057	805	1408	5869	3268	1607	1655	1667
MAX	3050	2610	2740	2150	2950	2700	8410	12500	7810	2300	3150	2060
MIN	683	1210	1280	241	274	260	288	1630	938	912	856	820

CAL YR 1978 TOTAL 950600 MEAN 2604 MAX 9210 MIN 309
WTR YR 1979 TOTAL 748749 MEAN 2051 MAX 12500 MIN 241

KENNEBEC RIVER BASIN

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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: 1902-4, 1906-8, 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. 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.--78 years, 2,613 ft³/s (74.00 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, 17,200 ft³/s (487 m³/s) Apr. 28, gage height, 9.15 ft (2.789 m); minimum daily, 181 ft³/s (5.13 m³/s) Sept. 3.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	820	2350	2710	1120	445	2530	1720	12500	12300	607	2600	529
2	2450	1620	800	2940	1990	2820	3530	14400	11300	3390	2830	331
3	2550	2230	445	410	1960	1650	3460	15200	10200	2500	2180	181
4	2410	1690	3200	660	440	1130	3390	14400	10400	328	364	2650
5	2350	1110	3340	720	2400	3410	3360	14500	9830	2710	465	3820
6	1800	2290	3230	550	3000	2580	1830	14300	8100	2200	2100	3170
7	736	2350	3270	250	2960	1020	1390	12700	7690	695	2120	3020
8	679	2060	3280	1230	2110	1680	1310	10100	6350	206	2140	718
9	1160	2270	1830	1210	2460	1570	1530	9600	1740	2200	2590	552
10	1660	2250	1130	1200	1880	679	1120	6890	761	2160	2650	1400
11	1820	1210	3180	1350	731	593	1090	6220	865	2140	1090	1960
12	1670	373	3350	800	3690	1910	1080	4100	2310	2200	317	3010
13	1670	2460	3300	330	3960	1190	1030	3430	1880	3260	2070	2900
14	1120	2940	2120	300	3890	828	838	3740	2590	622	2230	2810
15	440	2730	1780	1590	3470	1420	876	2430	4580	205	2180	1950
16	1150	2950	609	1520	2640	1410	1130	4560	3420	2100	1420	652
17	1130	4400	1760	2200	2080	503	1610	4760	3110	2160	2090	2850
18	1770	1390	2830	2140	606	445	1590	4620	3600	1070	1370	1610
19	1620	389	2180	3560	1320	2320	1730	4150	2530	2150	376	2430
20	1780	2170	2950	1400	2530	2400	1840	2480	2260	2240	1960	2480
21	1150	2890	3060	1490	4740	2380	1950	3540	4290	576	2170	3540
22	1120	2940	1750	411	4150	2440	2120	2410	2430	184	2180	1740
23	1780	663	2140	1440	4120	2710	2220	2490	1330	2580	2200	837
24	2180	1700	1220	1300	2300	879	2590	2310	351	1670	1590	2390
25	2210	1620	653	2630	1130	1540	5190	4940	3220	2130	723	2880
26	2120	880	2850	2530	4010	4090	6230	7960	2760	2140	198	2260
27	2320	3050	2210	1280	3900	5800	8130	7720	2880	2700	2150	1790
28	1290	3470	2340	729	2320	5310	13200	8390	2320	2160	2170	2770
29	495	3110	2240	1920	---	4070	15300	10100	2670	1080	2190	1790
30	2280	2860	1710	1780	---	3680	13300	10400	1780	2700	1640	705
31	1690	---	1100	552	---	1760	---	10700	---	2540	1670	---
TOTAL	49420	64415	68567	41542	71232	66747	105684	236040	129847	55603	54023	59725
MEAN	1594	2147	2212	1340	2544	2153	3523	7614	4328	1794	1743	1991
MAX	2550	4400	3350	3560	4740	5800	15300	15200	12300	3390	2830	3820
MIN	440	373	445	250	440	445	838	2310	351	184	198	181
CAL YR 1978	TOTAL	1196994	MEAN	3279	MAX	10400	MIN	373				
WTR YR 1979	TOTAL	1002845	MEAN	2748	MAX	15300	MIN	181				

KENNEBEC RIVER BASIN

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.--40 years, 871 ft³/s (24.67 m³/s), 22.75 in/yr (578 mm/yr), unadjusted.

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, 10,600 ft³/s (300 m³/s) Apr. 29, gage height, 9.71 ft (2.960 m); minimum daily, 5.2 ft³/s (0.15 m³/s) Jan. 8.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP		
1	1560	1630	445	150	220	135	18	5600	3850	1000	1260	1190		
2	1350	1590	396	150	210	135	17	5620	3640	822	1110	1080		
3	367	1570	351	40	205	135	16	4740	3590	806	1580	1110		
4	351	1540	302	11	200	130	15	3240	2370	799	2060	1580		
5	1330	1520	263	8.0	190	130	16	3220	910	960	1920	1950		
6	2740	1490	237	7.6	185	130	17	2120	1150	1150	1830	822		
7	2540	1470	223	7.2	180	130	19	1710	1350	1390	1630	223		
8	2350	1440	214	5.2	175	18	20	1700	1340	1370	1590	969		
9	2220	1390	206	245	170	11	18	1670	869	1360	1510	969		
10	2140	1340	200	835	170	9.3	18	1350	768	1340	1340	960		
11	2110	1290	195	1060	170	8.2	17	1190	791	1450	1150	960		
12	2090	1230	184	1000	165	7.3	16	1250	1050	1030	1080	952		
13	2070	1190	179	935	165	6.8	20	1230	1120	1700	1050	952		
14	2050	1140	175	880	160	6.6	24	1220	768	1830	1190	943		
15	2000	791	171	780	160	6.3	25	1220	576	1840	1400	943		
16	1430	8.1	166	660	155	6.2	25	1200	564	1800	1370	943		
17	15	360	164	580	155	6.0	25	1180	552	1760	1280	935		
18	776	1060	160	500	150	5.9	24	1060	564	1710	1140	935		
19	1980	1010	160	430	150	5.7	25	738	558	1660	1080	926		
20	1960	965	157	390	150	5.6	27	601	546	1730	1540	926		
21	1930	921	154	345	145	5.6	30	456	534	1940	1940	918		
22	1910	868	152	310	145	6.0	35	298	681	1860	1920	910		
23	1880	814	149	300	145	7.2	45	319	814	1780	1820	910		
24	1860	768	149	260	140	8.5	60	150	791	853	1700	1330		
25	1830	722	152	256	140	11	70	1210	791	144	1550	1760		
26	1800	675	151	246	140	18	130	5080	791	647	1410	1730		
27	1780	630	150	245	140	16	700	5730	783	902	1540	1700		
28	1750	586	150	230	140	14	3780	3350	776	885	1830	1670		
29	1720	540	150	225	---	13	9450	2770	776	935	1820	1630		
30	1690	492	151	225	---	11	8950	2810	791	952	1900	1600		
31	1660	---	149	220	---	13	---	3130	---	1140	1760	---		
TOTAL	53239	31040.1	6205	11536.0	4620	1151.2	23652	67162	34454	39545	47300	34426		
MEAN	1717	1035	200	372	165	37.1	788	2167	1148	1276	1526	1148		
MAX	2740	1630	445	1060	220	135	9450	5730	3850	1940	2060	1950		
MIN	15	8.1	149	5.2	140	5.6	15	150	534	144	1050	223		
MEAN†	337	382	135	392	143	1878	3464	2289	837	103	202	199		
CFSM†	.65	.74	.26	.75	.28	3.61	6.66	4.40	1.61	.20	.39	.38		
IN†	.75	.82	.30	.87	.29	4.16	7.43	5.07	1.80	.23	.45	.43		
CAL YR 1978 TOTAL	483651.1		MEAN	1325	MAX	6260	MIN	8.1	MEAN‡	866	CFSM‡	1.67	IN‡	22.60
WTR YR 1979 TOTAL	354330.3		MEAN	971	MAX	9450	MIN	5.2	MEAN‡	958	CFSM‡	1.84	IN‡	25.04

† Adjusted for change in contents in Flagstaff Lake.

KENNEBEC RIVER BASIN

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01045000 DEAD RIVER AT THE FORKS, ME

LOCATION.--Lat 45°20'59", long 69°59'26", Somerset County, Hydrologic Unit 01030002, on left bank 1.5 mi (2.4 km) northwest of The Forks and 1.8 mi (2.9 km) upstream from mouth.

DRAINAGE AREA.--872 mi² (2,258 km²).

PERIOD OF RECORD.--September 1901 to August 1907, March 1910 to September 1979 (discontinued). Monthly discharge only for some periods, published in WSP 1301.

REVISED RECORDS.--WSP 801: Drainage area. WSP 1231: 1913-15, 1916-17(M), 1919-20(M), 1922(M), WSP 1301: 1904(M), 1907, 1911-12.

GAGE.--Water-stage recorder. Datum of gage is 600.5 ft (183.03 m) National Geodetic Vertical Datum of 1929. Prior to September 29, 1923, nonrecording gage at site 100 ft (30 m) downstream at same datum.

REMARKS.--Records good except those for winter period, 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.--74 years (water years 1902-6, 1911-79), 1,460 ft³/s (41.35 m³/s).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 28,700 ft³/s (813 m³/s) Mar. 20, 1936, gage height, 10.54 ft (3.213 m) from rating curve extended above 15,000 ft³/s (420 m³/s); minimum daily since September 1923, 61 ft³/s (1.73 m³/s) Dec. 23, 1968.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 16,900 ft³/s (479 m³/s) Apr. 29, gage height, 8.21 ft (2.502 m); minimum daily, 155 ft³/s (4.39 m³/s) Nov. 17.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1590	1660	600	235	620	315	1980	11300	7250	1280	1390	1480
2	1650	1620	545	525	580	305	2010	9650	6170	1170	1310	1250
3	575	1590	490	1250	535	300	1680	9020	5690	1170	1490	1280
4	443	1560	450	930	500	300	1440	6540	4510	1120	2270	1570
5	737	1530	420	700	465	415	1320	6550	2400	1150	2110	2170
6	2880	1510	380	550	445	630	1190	5010	2660	1330	2000	1630
7	2690	1480	350	425	420	1750	1040	3750	2750	1650	1790	677
8	2500	1450	320	350	400	3900	942	3470	2470	1640	1720	1410
9	2320	1410	300	410	385	2900	866	3410	2010	1620	1630	1330
10	2190	1360	280	970	370	2200	826	3620	1690	1590	1510	1250
11	2140	1320	260	1100	360	1750	760	3230	1630	1620	1290	1200
12	2110	1260	240	940	350	1450	724	2780	1800	1360	1220	1170
13	2090	1200	230	870	335	1200	752	2630	2090	1770	1200	1160
14	2120	1190	225	800	325	1100	945	2470	1680	2040	1260	1150
15	2260	1140	215	750	320	850	1130	2330	1180	2040	1590	1360
16	2130	338	210	700	310	730	1250	2190	1090	2000	1540	1370
17	445	155	205	660	300	660	1220	2070	1020	1970	1490	1250
18	299	1060	205	625	290	590	1180	1880	995	1910	1290	1200
19	2010	1220	200	590	280	530	1250	1510	956	1850	1230	1170
20	2020	1140	215	555	270	545	1280	1200	907	1810	1530	1170
21	1990	1050	240	530	265	600	1540	1080	861	2130	2080	1160
22	1950	985	235	510	260	1100	1930	852	868	2050	2150	1150
23	1910	973	230	485	255	1600	1930	789	1190	1970	2000	1150
24	1880	955	220	470	250	2750	2730	713	1100	1530	1900	1370
25	1840	855	215	455	255	3950	3130	1370	1100	206	1740	2060
26	1820	820	210	470	300	4100	3620	7290	1080	440	1610	2040
27	1840	750	205	495	340	4070	5400	8580	1060	1060	1660	2010
28	1890	670	205	530	325	2880	11300	6300	1040	1040	2070	1990
29	1820	680	200	545	---	2160	16200	5510	1030	1050	2110	1960
30	1760	650	200	580	---	1660	14100	5950	998	1080	2090	1930
31	1710	---	200	660	---	1650	---	6460	---	1170	2110	---
TOTAL	55609	33581	8700	19665	10110	48940	85665	129504	61275	45816	52380	43067
MEAN	1794	1119	281	634	361	1579	2856	4178	2043	1478	1690	1436
MAX	2880	1660	600	1250	620	4100	16200	11300	7250	2130	2270	2170
MIN	299	155	200	235	250	300	724	713	861	206	1200	677
CAL YR 1978	TOTAL	703074	MEAN	1926	MAX	9900	MIN	155				
WTR YR 1979	TOTAL	594312	MEAN	1628	MAX	16200	MIN	155				

KENNEBEC RIVER BASIN

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).

WATER-DISCHARGE RECORDS

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.--51 years (water years 1908-9, 1931-79), 4,468 ft³/s (126.5 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, 41,000 ft³/s (1,160 m³/s) Apr. 29, gage height, 13.31 ft (4.057 m); minimum daily, 1,110 ft³/s (31.4 m³/s) Jan. 8.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	3430	3460	2850	1720	1690	2680	7780	26400	21900	3380	3470	3890
2	3530	3310	2700	1600	2100	2850	7890	25300	18600	3600	3660	3470
3	3630	3420	2900	2570	2200	2810	7860	27000	17100	3340	3720	3780
4	3560	3300	3100	2060	2300	2850	7860	21300	15200	3290	3740	3560
5	3350	3450	3100	1540	2450	2640	7900	22600	11900	3160	3550	3530
6	3350	3470	3070	1290	2300	2650	7720	19400	10400	3220	3540	3710
7	3130	3360	3030	1190	2700	3670	4950	17400	10700	3170	3710	3280
8	3600	3440	2960	1110	2400	4810	4760	13300	9120	3260	3750	2450
9	3290	3410	2650	1120	2700	4550	4800	13000	5400	3360	3530	3100
10	3510	3420	2490	1260	2750	3580	4370	10500	3350	3560	3670	3470
11	3220	3410	2660	1310	2650	3090	3580	9060	3260	3730	3610	3650
12	3640	3400	2370	1220	2600	3250	3080	8940	4250	3520	3430	3560
13	3240	3290	2490	1700	2700	3220	3030	8370	5180	3450	3380	3610
14	3480	3340	2350	1860	2800	2500	2990	6710	5110	3560	3140	3610
15	3220	3160	2230	2230	2700	2620	2840	4590	5050	3620	3500	3570
16	3330	3120	2240	2180	2800	2880	2320	4930	5100	3720	3570	3510
17	3340	2960	2090	2240	2800	2660	2220	6690	4950	3350	3750	3270
18	3260	3020	2020	2510	2750	2770	1490	7110	4900	3640	3500	3220
19	3220	2880	2220	2270	2650	2570	2570	5530	5030	3730	2810	4020
20	3330	2910	2220	2340	2550	2680	3340	4990	4740	3570	3650	4330
21	3370	2920	2160	2170	2700	2560	4180	4610	3790	3510	3610	3840
22	3290	2950	2180	2000	2740	2530	4480	4700	3570	3500	3450	3300
23	3340	2860	1810	2340	2820	2320	4460	4760	3120	3340	3470	3330
24	3420	2950	1650	2240	2620	3670	4460	3580	3190	3370	3510	3520
25	3480	3100	1720	2330	2560	9370	4730	6010	3330	3580	3840	3940
26	3620	2950	1930	2110	2690	13700	6090	13600	3400	3450	3310	3650
27	3490	3000	1750	2180	2740	13700	15900	18600	3380	3110	3580	3880
28	3340	3050	2000	1870	2660	9550	38200	16000	3800	3460	3570	4020
29	3220	2900	1960	1970	---	8950	38400	19300	3600	3820	3600	4210
30	3460	3100	1860	1630	---	8560	31000	19200	3450	3580	3450	4100
31	3350	---	1690	1610	---	7680	---	20600	---	3690	3380	---
TOTAL	105040	95310	72450	57770	72120	143920	245250	394080	205870	107640	109450	108380
MEAN	3388	3177	2337	1864	2576	4643	8175	12710	6862	3472	3531	3613
MAX	3640	3470	3100	2570	2820	13700	38400	27000	21900	3820	3840	4330
MIN	3130	2860	1650	1110	1690	2320	1490	3580	3120	3110	2810	2450
CAL YR 1978 TOTAL	1939300		MEAN 5313		MAX 21200	MIN 1650						
WTR YR 1979 TOTAL	1717280		MEAN 4705		MAX 38400	MIN 1110						

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: 1904-7, 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. November 1, 1901, to May 5, 1907, nonrecording gage 1 mi (2 km) upstream at different datum.

REMARKS.--Records good except those for winter period, 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.--58 years (water years 1902-06, 1926-79), 723 ft³/s (20.48 m³/s), 27.74 in/yr (705 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 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)
Mar. 26	0200	10400 295	11.59 3.533	May 29	1400	7640 216	10.11 3.082
Apr. 28	1200	*22400 634	17.46 5.322	May 31	0300	7290 206	9.90 3.018
May 25	2300	6320 179	9.28 2.829				

Minimum discharge not determined; minimum daily, 48 ft³/s (1.36 m³/s) Dec. 28, 29.

DISCHARGE, STREAM (CUBIC FEET PER SECOND), WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	51	84	73	85	410	180	2280	3580	3880	214	119	117
2	62	81	68	120	370	170	2240	3640	2450	492	134	106
3	83	80	58	1300	330	160	1780	2320	1710	749	160	101
4	71	80	58	920	300	170	1500	2310	1340	518	170	98
5	74	78	59	620	275	300	1490	2100	908	379	146	94
6	105	77	60	490	255	600	1350	1640	1050	310	126	168
7	140	77	62	400	240	1300	1160	1160	895	263	112	929
8	125	77	66	330	225	3900	969	864	735	228	104	436
9	94	75	71	310	210	2900	907	900	652	203	97	264
10	76	75	74	290	200	2200	955	1220	626	182	96	208
11	69	74	70	275	190	1700	983	1000	586	166	127	181
12	63	73	65	265	180	1400	969	800	573	167	156	165
13	60	73	61	255	170	1100	1120	749	604	172	192	147
14	78	80	59	245	165	1000	1520	801	495	154	302	141
15	110	84	56	235	160	1000	1620	752	421	134	255	452
16	210	78	55	230	155	1050	1600	670	364	128	211	441
17	160	121	54	225	150	800	1520	593	314	138	173	308
18	125	284	54	220	145	600	1500	519	1270	159	148	247
19	100	200	55	215	140	550	1660	471	797	159	139	214
20	87	140	58	210	140	545	1630	452	578	171	148	190
21	92	108	60	205	135	590	1880	430	457	135	147	173
22	95	92	61	215	130	1050	2150	450	387	118	138	162
23	87	85	58	235	130	1600	1960	407	368	109	127	151
24	77	79	56	255	130	2500	2760	373	375	103	114	140
25	78	75	53	260	135	7150	2740	2100	336	99	120	133
26	91	70	51	245	155	9500	3110	4280	296	98	164	122
27	117	66	50	240	195	6120	7290	3650	265	347	152	115
28	117	66	48	260	190	3250	18600	2490	242	282	179	109
29	101	69	48	285	---	2090	8710	6160	223	187	178	112
30	94	72	49	350	---	1560	5120	5100	207	152	147	107
31	87	---	56	450	---	1990	---	6240	---	129	135	---
TOTAL	2979	2773	1826	10240	5610	59025	83073	58221	23404	6845	4716	6331
MEAN	96.1	92.4	58.9	330	200	1904	2769	1878	780	221	152	211
MAX	210	284	74	1300	410	9500	18600	6240	3880	749	302	929
MIN	51	66	48	85	130	160	907	373	207	98	96	94
CFSM	.27	.26	.17	.93	.57	5.38	7.82	5.31	2.20	.62	.43	.60
IN.	.31	.29	.19	1.08	.59	6.20	8.73	6.12	2.46	.72	.50	.67

CAL YR 1978	TOTAL	254109	MEAN 696	MAX 11000	MIN 48	CFSM 1.97	IN 26.70
WTR YR 1979	TOTAL	265043	MEAN 726	MAX 18600	MIN 48	CFSM 2.05	IN 27.85

KENNEBEC RIVER BASIN

01047730 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.

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 and period of no gage-height record Oct. 1-6, 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, 3,080 ft³/s (87.2 m³/s) Apr. 28, gage height, 14.66 ft (4.468 m); minimum daily, 3.6 ft³/s (0.10 m³/s) Oct. 12.

REVISIONS.--The maximum discharge for water year 1978 has been revised to 1,970 ft³/s (55.8 m³/s) Jan. 9, 1978, gage height, 13.31 ft (4.057 m), superseding figure published in the report for 1978.

DISCHARGE, STREAM (CUBIC FEET PER SECOND), WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	11	5.8	4.5	14	61	65	363	353	403	24	11	7.2
2	4.8	5.8	4.3	50	57	62	345	280	256	48	12	6.4
3	5.2	5.4	4.1	185	54	55	301	211	186	37	12	6.4
4	6.0	5.4	4.0	85	50	48	279	262	141	26	9.9	6.4
5	7.0	5.4	4.0	48	48	69	286	213	119	18	8.7	6.7
6	9.0	5.4	3.9	36	46	86	250	166	173	13	8.1	17
7	8.7	5.4	3.9	32	44	130	208	133	127	10	7.8	28
8	6.1	5.8	3.8	31	42	295	176	112	96	9.0	7.8	11
9	9.6	5.6	3.8	28	41	305	165	96	81	8.1	7.5	7.8
10	5.7	5.5	3.8	24	39	235	200	85	72	7.5	9.9	7.2
11	3.8	5.4	3.8	23	38	185	191	70	62	7.0	11	7.2
12	3.6	5.3	3.7	22	37	165	193	61	64	8.4	12	6.7
13	4.7	5.2	3.7	21	36	145	235	59	55	13	36	6.7
14	12	5.3	3.7	20	35	133	274	88	43	9.6	17	7.2
15	20	5.2	3.7	19	34	146	270	96	36	8.1	15	15
16	11	4.8	4.0	19	33	130	256	89	31	7.5	20	9.0
17	8.8	5.0	4.2	19	32	115	242	73	26	11	16	7.5
18	6.9	17	4.3	18	32	107	242	60	23	9.9	18	7.0
19	18	12	4.2	18	31	102	260	53	20	13	45	7.2
20	49	7.3	4.3	17	31	116	264	48	16	12	30	6.7
21	48	6.5	4.5	17	30	196	278	48	13	11	17	6.7
22	46	5.4	4.7	38	30	303	286	51	13	9.9	16	7.2
23	47	4.5	4.5	34	30	466	278	40	13	9.3	11	7.0
24	46	4.5	4.5	29	29	658	289	50	12	9.6	8.1	6.7
25	45	4.6	4.6	25	36	1200	264	435	10	9.9	7.8	6.4
26	33	4.7	5.4	28	44	1320	259	634	9.0	11	7.5	6.4
27	9.2	4.8	5.3	32	52	842	868	455	8.1	13	8.4	6.2
28	10	4.9	5.0	39	62	447	2300	398	8.1	11	11	6.2
29	6.9	4.9	4.8	56	---	301	1040	916	8.7	11	14	7.0
30	6.3	4.8	4.6	70	---	254	570	672	7.8	10	12	7.0
31	5.9	---	4.5	65	---	360	---	694	---	9.6	9.0	---
TOTAL	514.2	177.6	132.1	1162	1134	9041	11432	7001	2132.7	415.4	436.5	251.1
MEAN	16.6	5.92	4.26	37.5	40.5	292	381	226	71.1	13.4	14.1	8.37
MAX	49	17	5.4	185	62	1320	2300	916	403	48	45	28
MIN	3.6	4.5	3.7	14	29	48	165	40	7.8	7.0	7.5	6.2
CFSM	.36	.13	.09	.82	.88	6.36	8.30	4.92	1.55	.29	.31	.18
IN.	.42	.14	.11	.94	.92	7.33	9.26	5.67	1.73	.34	.35	.20
CAL YR 1978	TOTAL	32541.5	MEAN	89.2	MAX	1300	MIN	3.6	CFSM	1.94	IN	26.37
WTR YR 1979	TOTAL	33829.6	MEAN	92.7	MAX	2300	MIN	3.6	CFSM	2.02	IN	27.42

01048000 SANDY RIVER NEAR MERCER, ME

LOCATION.--Lat 44°42'26", long 69°56'21", Somerset County, Hydrologic Unit 01030003, on right bank 0.9 mi (1.4 km) upstream from Bog Stream, 2.1 mi (3.4 km) north of Mercer, and 8.6 mi (13.8 km) upstream from mouth.

DRAINAGE AREA.--514 mi² (1,331 km²).

PERIOD OF RECORD.--October 1928 to September 1979 (discontinued).

REVISED RECORDS.--WSP 756: 1933. WSP 801: Drainage area. WSP 1231: 1936(M).

GAGE.--Water-stage recorder. Datum of gage is 197.1 ft (60.08 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, 976 ft³/s (27.64 m³/s), 25.79 in/yr (655 mm/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 38,600 ft³/s (1,090 m³/s) Mar. 19, 1936, gage height, 16.75 ft (5.105 m), from rating curve extended above 15,000 ft³/s (420 m³/s) on basis of records for stations on Kennebec River at Bingham and Waterville, Carrabassett River near North Anson, and Sebasticook River near Pittsfield; maximum gage height, 18.89 ft (5.758 m) Feb. 12, 1970, from floodmark (backwater from ice); minimum discharge, 32 ft³/s (0.91 m³/s) Sept. 22-26, 1939, gage height, 2.15 ft (0.655 m).

EXTREMES FOR CURRENT YEAR.--Peak discharges above base of 6,000 ft³/s (170 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. 26	0400	16700 473	11.26 3.432	May 29	2000	9010 255	8.57 2.612
Apr. 28	2000	*24900 705	13.48 4.109	May 31	1000	9280 263	8.67 2.643
May 26	0600	8620 244	8.42 2.566				

Minimum discharge, 43 ft³/s (1.22 m³/s) Nov. 27, gage height, 2.24 ft (0.683 m), result of freezeup.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	46	106	105	100	585	270	4180	4760	5130	216	101	125
2	51	101	95	190	520	250	4180	4620	3080	452	96	108
3	53	97	87	1220	470	245	3320	3150	2270	552	101	97
4	63	93	88	2340	430	245	2970	3090	1830	441	104	88
5	82	89	90	1100	390	260	3040	3200	1500	311	102	81
6	89	86	92	780	360	565	2770	2310	1830	243	95	88
7	118	84	95	600	340	1650	2390	1840	1620	207	85	448
8	149	95	98	540	320	4950	2000	1570	1220	184	79	631
9	131	96	105	480	300	4250	1880	1430	1040	168	75	304
10	105	94	110	445	285	2750	2040	1480	1100	156	77	199
11	92	92	110	420	265	2200	2250	1380	1110	146	87	152
12	83	88	100	400	255	1900	2110	1120	914	141	106	128
13	77	86	95	375	245	1650	2350	1000	960	136	177	113
14	96	84	89	360	235	1450	3090	1070	775	138	268	105
15	127	81	83	345	220	1500	3050	1210	636	132	244	122
16	322	80	79	330	215	1500	2930	1060	548	124	184	366
17	238	82	78	320	205	1400	2720	981	478	128	157	253
18	171	100	79	315	200	1250	2620	851	427	132	137	176
19	140	189	80	305	195	1150	2830	748	436	142	128	144
20	129	295	83	295	190	1100	2740	694	379	144	154	125
21	146	205	85	290	190	1200	2980	672	324	146	159	113
22	150	143	86	300	185	1500	3300	691	291	126	144	112
23	146	110	83	340	180	2400	2950	693	282	114	130	104
24	140	98	78	370	180	4500	4020	609	275	106	118	98
25	133	90	75	360	190	9050	3780	2300	253	100	107	94
26	132	84	72	340	215	15300	3810	7380	231	97	101	90
27	139	80	70	350	260	9370	6210	5430	211	103	127	86
28	120	86	69	370	280	4970	21300	3410	204	164	137	83
29	126	95	68	425	---	3540	13100	6910	274	171	147	84
30	129	100	67	500	---	2780	6570	6090	208	130	162	84
31	116	---	66	620	---	3670	---	8190	---	110	148	---
TOTAL	3839	3209	2660	15525	7905	88815	123480	79939	29836	5660	4037	4801
MEAN	124	107	85.8	501	282	2865	4116	2579	995	183	130	160
MAX	322	295	110	2340	585	15300	21300	8190	5130	552	268	631
MIN	46	80	66	100	180	245	1880	609	204	97	75	81
CFSM	.24	.21	.17	.98	.55	5.57	8.01	5.02	1.94	.36	.25	.31
IN.	.28	.23	.19	1.12	.57	6.43	8.94	5.79	2.16	.41	.29	.35
CAL YR 1978	TOTAL	355958	MEAN	975	MAX	17200	MIN 45	CFSM 1.90	IN 25.76			
WTR YR 1979	TOTAL	369706	MEAN	1013	MAX	21300	MIN 46	CFSM 1.97	IN 26.76			

KENNEBEC RIVER BASIN

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, and period of no gage-height record, Mar. 27 to Apr. 23, 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.--50 years (water years 1930-79), 962 ft³/s (27.24 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, 6,760 ft³/s (191 m³/s) Mar. 27, gage height, 8.63 ft (2.630 m); from peak-stage indicator. Minimum daily, 6.2 ft³/s (0.18 m³/s) Aug. 5, 6.

DISCHARGE, STREAM (CUBIC FEET PER SECOND), WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	102	68	94	105	3100	480	5000	5870	3710	161	101	130
2	107	61	91	165	2960	475	4500	5780	4160	159	96	120
3	99	58	88	830	2740	467	4200	5280	4170	122	74	112
4	89	58	94	1510	2460	462	4000	4660	3870	91	8.1	105
5	92	85	104	1500	2230	537	3850	4070	3450	80	6.2	101
6	100	89	102	1380	2010	1380	3600	3550	3010	76	6.2	293
7	106	74	91	1230	1800	3090	3400	2950	2530	74	6.8	614
8	94	60	98	1170	1630	4400	3200	2360	1920	72	7.4	628
9	80	53	134	1130	1480	5370	3100	1940	1380	72	24	477
10	70	50	148	1050	1380	5560	3350	1640	1110	67	90	382
11	62	52	140	1020	1300	5390	3700	1370	935	59	72	412
12	55	58	125	1000	1200	5010	3750	1210	842	58	73	489
13	53	57	120	975	1100	4460	3600	1140	764	58	112	518
14	61	54	110	960	1000	3970	3400	1120	683	57	143	518
15	86	52	110	950	940	3770	3250	771	549	55	154	549
16	84	50	105	930	870	3590	3350	608	494	57	152	518
17	70	47	110	920	810	3340	3400	575	455	80	140	489
18	61	70	115	900	750	3020	3300	562	422	84	128	460
19	57	115	115	890	700	2710	3150	500	392	116	128	449
20	59	123	115	880	660	2460	2950	438	358	122	110	428
21	58	113	120	870	620	2390	2700	422	331	112	46	412
22	55	101	120	860	580	2490	2450	433	313	99	22	438
23	55	94	115	850	550	2680	2200	417	301	90	32	433
24	58	93	110	845	530	3020	1850	428	288	81	57	417
25	54	93	115	840	496	3790	1630	818	277	76	145	392
26	54	90	115	900	490	5560	1520	1530	265	74	149	358
27	75	87	110	1100	485	6700	1520	1830	231	93	154	313
28	89	94	105	1750	480	6750	2350	2020	216	112	156	277
29	102	91	100	2050	---	6600	3730	2220	202	130	154	255
30	103	94	97	2500	---	6100	5160	2430	171	116	152	231
31	85	---	95	2930	---	5500	---	2980	---	105	145	---
TOTAL	2375	2284	3411	34990	35351	111521	97160	61922	37799	2808	2843.7	11318
MEAN	76.6	76.1	110	1129	1263	3597	3239	1997	1260	90.6	91.7	377
MAX	107	123	148	2930	3100	6750	5160	5870	4170	161	156	628
MIN	53	47	88	105	480	462	1520	417	171	55	6.2	101
CAL YR 1978	TOTAL	333703.0	MEAN	914	MAX	6410	MIN	47				
WTR YR 1979	TOTAL	403782.7	MEAN	1106	MAX	6750	MIN	6.2				

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LOCATION.--Lat 44°37'37", long 69°47'06", Kennebec County, Hydrologic Unit 01030003, on left bank 0.6 mi (1.0 km) east of State Highway 8, and 0.2 mi (0.3 km) upstream from mouth near North Belgrade.

PERIOD OF RECORD.--November to December 1977, March 1978 to September 1979 (discontinued).

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

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 60 ft³/s (1.70 m³/s) Mar. 7, 1979, gage height, 12.34 ft (3.761 m); minimum discharge, .01 ft³/s (0.001 m³/s) Aug. 6, 1978 and Jan. 15-19, 1979, gage height, 10.51 ft (3.203 m).

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 60 ft³/s (1.70 m³/s) Mar. 7, gage height, 12.34 ft (3.761 m); minimum, 0.01 ft³/s (0.001 m³/s) Jan. 15-19, 1979, gage height 10.51 ft (3.203 m).

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.06	.04	1.0	.83	.83	.91	5.4	3.8	4.7	1.0	.10	.10
2	.10	.08	.91	3.0	.44	.58	4.5	3.3	3.0	1.1	.13	.10
3	.06	.04	.76	9.1	.17	.53	5.2	2.8	3.5	.53	.13	.10
4	.06	.04	.76	1.4	.23	.58	4.7	4.0	2.4	.40	.08	.08
5	.53	.04	.76	.48	.17	1.6	5.6	2.8	2.0	.30	.06	.08
6	.69	.04	.76	.30	.44	17	5.0	2.1	2.0	.30	.06	1.1
7	.49	.06	.76	.10	.63	54	4.0	1.9	1.5	.30	.06	1.1
8	.31	.06	.91	.40	.40	45	3.3	1.7	1.3	.23	.08	.17
9	.23	.06	1.1	.23	.06	20	3.5	1.6	1.3	.13	.06	.10
10	.08	.10	1.0	.10	.30	15	6.2	1.5	1.3	.17	.40	.08
11	.10	.06	1.1	.06	.69	19	5.8	1.3	1.1	.17	.23	.10
12	.13	.06	.91	.04	.76	11	5.6	1.1	1.1	.17	.63	.10
13	.23	.06	.91	.02	.83	8.5	4.1	1.2	1.0	.17	2.1	.10
14	1.4	.10	.83	.02	.76	9.6	4.0	1.8	.83	.17	.44	.08
15	.63	.10	.83	.01	.76	11	4.0	2.2	.83	.17	.30	.44
16	.10	.06	.91	.01	.76	18	4.0	1.8	.69	.17	.10	.10
17	.06	.10	1.4	.01	.69	13	3.3	1.5	.63	.83	.10	.08
18	.06	2.1	1.7	.01	.69	8.5	3.0	1.3	.69	.40	.08	.08
19	.10	1.1	1.6	.01	.69	6.9	2.6	1.2	.69	.40	.76	.10
20	.30	.91	1.1	.06	.63	4.6	2.6	1.1	.63	.17	.53	.10
21	.30	.69	.91	.13	.63	3.3	2.5	2.5	.58	.17	.23	.10
22	.30	.63	.83	5.6	.76	5.6	2.2	1.9	.53	.17	.10	.30
23	.40	.58	.69	4.5	.76	8.7	1.9	1.2	.53	.13	.10	.13
24	.58	.63	.63	1.1	1.4	10	1.8	3.0	.48	.13	.10	.13
25	.48	.69	.58	.10	3.6	26	1.6	11	.44	.13	.10	.13
26	.58	.69	.58	.44	2.4	15	1.6	9.4	.44	.30	.10	.13
27	1.1	.63	.53	2.6	1.4	7.1	9.9	5.6	.40	.44	.10	.13
28	.53	.69	.53	5.2	1.1	5.4	15	4.1	.40	.17	.10	.13
29	.48	.69	.48	2.8	---	3.6	8.2	7.1	.40	.17	.17	.40
30	.23	.91	.44	6.0	---	3.8	4.7	7.4	.40	.10	.23	.48
31	.08	---	.44	3.3	---	6.2	---	8.2	---	.10	.10	---
TOTAL	10.78	12.04	26.65	47.96	22.98	360.00	135.8	101.4	35.79	9.29	7.86	6.35
MEAN	.35	.40	.86	1.55	.82	11.6	4.53	3.27	1.19	.30	.25	.21
MAX	1.4	2.1	1.7	9.1	3.6	54	15	11	4.7	1.1	2.1	1.1
MIN	.06	.04	.44	.01	.06	.53	1.6	1.1	.40	.10	.06	.08
CFSM	.41	.47	1.01	1.82	.97	13.6	5.33	3.85	1.40	.35	.29	.25
IN.	.47	.53	1.16	2.10	1.00	15.74	5.94	4.43	1.56	.41	.34	.28
WTR YR 1979	TOTAL	776.90	MEAN	2.13	MAX	54	MIN	.01	CFSM	2.51	IN	33.96

KENNEBEC RIVER BASIN

01049221 HATCHERY BROOK AT NORTH BELGRADE, ME

LOCATION.--Lat 44°31'21", long 69°47'54", Kennebec County, Hydrologic Unit 01030003, on left bank on State Highway 8, 100 ft (30 m) downstream from dam at outlet of Ellis Pond, at North Belgrade.

DRAINAGE AREA.--8.83 mi² (22.87 km²).

PERIOD OF RECORD.--November 1977 to September 1979 (discontinued).

GAGE.--Water-stage recorder. Altitude of gage is 280 ft (85 m), from topographic map.

REMARKS.--Records fair.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 116 ft³/s (3.29 m³/s) Mar. 9, 1979, gage height, 7.96 ft (2.426 m); maximum gage height, 8.03 ft (2.448 m) Apr. 21, 1978; minimum daily discharge, 0.02 ft³/s (0.001 m³/s), Sept. 20-30, 1978.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 116 ft³/s (3.29 m³/s) Mar. 9, gage height, 7.96 ft (2.426 m); minimum not determined; minimum daily, 0.04 ft³/s (0.001 m³/s), Nov. 19, Dec. 1.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.06	.12	.04	3.0	12	18	54	92	55	.19	.19	.23
2	.06	.12	.06	3.2	12	18	54	59	53	.17	.19	.22
3	.08	.12	.06	3.2	12	18	54	49	51	.18	.19	.22
4	.08	.12	.06	3.0	12	18	52	49	53	.17	.18	.23
5	.08	.12	.08	3.0	12	19	50	48	59	.17	.18	.22
6	.16	.16	.06	2.7	13	19	50	47	59	.16	.18	.23
7	.12	.16	.08	2.7	13	31	49	36	57	.16	.18	.17
8	.12	.08	2.5	2.7	13	54	47	29	47	.16	.18	.18
9	.16	.08	5.0	2.5	14	80	47	29	39	.18	.18	.19
10	.16	.08	4.3	2.7	14	106	50	28	38	.19	.19	.22
11	.16	.06	4.3	2.5	14	106	50	12	29	.18	.20	.19
12	.16	.06	4.3	2.5	14	82	50	1.5	20	.18	.20	.22
13	.16	.08	4.0	2.5	14	51	48	1.5	20	.18	.21	.21
14	.16	.06	4.0	2.0	14	51	45	1.3	12	.18	.21	.21
15	.16	.06	4.0	1.8	15	51	44	1.1	2.0	.17	.20	.20
16	.12	.06	4.0	1.8	15	50	44	1.0	1.8	.16	.19	.20
17	.12	.06	4.0	1.8	15	50	47	.94	1.5	.16	.21	.21
18	.16	.12	4.0	2.0	15	49	50	.80	1.3	.16	.21	.20
19	.16	.04	4.0	2.0	15	48	49	.74	1.1	.17	.19	.19
20	.16	.08	3.7	2.2	15	49	22	.63	1.0	.16	.18	.19
21	.16	.08	3.7	1.8	16	49	.59	3.7	.74	.16	.18	.20
22	.16	.08	3.7	5.4	17	49	.47	4.6	.50	.17	.18	.19
23	.16	.08	3.7	11	17	49	.44	4.0	.38	.17	.18	.20
24	.16	.08	3.5	10	17	49	.35	3.5	.35	.17	.21	.20
25	.16	.06	3.5	10	17	46	.27	25	.35	.18	.23	.21
26	.16	.12	3.5	11	18	106	.22	42	.29	.20	.21	.22
27	.16	.16	3.2	11	18	104	.25	42	.25	.18	.19	.22
28	.16	.12	2.7	12	18	82	43	42	.23	.18	.20	.22
29	.16	.06	2.7	12	---	55	89	42	.24	.19	.23	.21
30	.16	.06	2.7	12	---	54	104	42	.22	.18	.19	.20
31	.16	---	2.7	12	---	54	---	50	---	.19	.21	---
TOTAL	4.36	2.74	88.14	158.0	411	1665	1194.59	788.31	604.25	5.40	6.05	6.20
MEAN	.14	.091	2.84	5.10	14.7	53.7	39.8	25.4	20.1	.17	.20	.21
MAX	.16	.16	5.0	12	18	106	104	92	59	.20	.23	.23
MIN	.06	.04	.04	1.8	12	18	.22	.63	.22	.16	.18	.17
CFSM	.02	.01	.32	.58	1.67	6.08	4.51	2.88	2.28	.02	.02	.02
IN.	.02	.01	.37	.67	1.73	7.01	5.03	3.32	2.55	.02	.03	.03

CAL YR 1978 TOTAL 4348.94 MEAN 11.9 MAX 89 MIN .02 CFSM 1.35 IN 18.32
WTR YR 1979 TOTAL 4934.04 MEAN 13.5 MAX 106 MIN .04 CFSM 1.53 IN 20.78

KENNEBEC RIVER BASIN

125

01049265 KENNEBEC RIVER AT NORTH SIDNEY, ME

(National stream-quality accounting network station)

LOCATION.--lat 43°28'25", long 69°41'08", 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, Augusta, ME.

DRAINAGE AREA.--5,478 mi² (14,188 km²).

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--October 1978 to September 1979.

GAGE.--Water-Stage recorder. Datum of gage is 37.02 ft. (11.284 m) National Geodetic Vertical Datum of 1929.

REMARKS.--Records fair. Flow regulated by Moosehead Lake (station 01040500), Brassua and Flasstaff Lakes, First Roach, Indian, Moxie, and Wyman Ponds (Reservoirs in Kennebec River basin).

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 148,000 ft³/s (4,190 m³/s) Apr. 28, gage height, 26.40 ft (8.047 m) from rating curve extended above 50,000 ft³/s (1400 m³/s) on basis of slope-area measurement of peak flow; minimum daily, 2600 ft³/s (73.6 m³/s) Dec. 25.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	4050	4050	4800	2900	4900	4500	28600	55500	51200	5200	4900	5150
2	4200	4000	4700	3300	4550	4450	27700	48600	41600	5900	4950	5100
3	4000	3900	3900	8000	4500	4300	25900	45100	33900	6400	5100	4900
4	4050	4050	4100	10500	4400	4200	24600	40800	29200	5600	5200	5300
5	4100	4000	4350	8000	4400	4550	24100	37600	26100	5300	5150	5550
6	4100	3900	4600	5200	4400	6000	24200	34700	21200	5000	5100	5900
7	4020	4500	4800	4600	4300	12500	22400	28400	20100	4850	5050	6300
8	3950	4300	4900	4300	4400	27000	18200	24300	17900	4800	5150	6800
9	4000	4150	4500	3150	4400	28000	15900	20100	14800	4750	5250	5800
10	4050	4100	4300	3200	4300	25000	15300	17600	8300	4950	5300	5400
11	4080	4100	4100	3000	4150	21000	16700	16100	6300	5000	5150	5450
12	4060	4200	4000	2800	4100	18500	15400	14600	6700	5000	5050	5600
13	4050	4300	4250	2700	4000	16500	14500	12900	8000	4750	5500	5400
14	4120	4350	4200	2950	3950	15000	15400	12900	7900	4350	5100	5350
15	4150	4450	4000	3350	3850	13500	16100	11500	7500	4550	5300	5800
16	4000	4700	3650	3600	4000	12500	16200	10100	7500	4600	5450	6000
17	3880	4450	3300	3700	3850	11500	15400	9960	7500	4600	5300	5700
18	3870	4300	3900	3400	3800	10500	14000	11500	7800	4600	5200	5400
19	3900	4100	2950	3600	3950	10000	13200	10700	8600	4650	5000	5500
20	4100	4250	3100	3300	4000	9800	14300	9070	7900	4600	5250	5950
21	4050	4650	3150	3600	4050	11300	15000	8700	6750	4600	5400	6000
22	3950	4900	3200	3800	4100	14500	16200	8860	5950	4600	5300	5550
23	3900	5000	3000	3700	4100	24000	15900	8700	4550	4550	5200	5400
24	4050	4550	2700	3600	4050	38000	16200	8370	4850	4500	5150	6000
25	4150	4200	2600	3400	4050	60000	16600	10900	5400	4650	5050	6300
26	4250	3950	3050	3550	4200	88000	16600	30400	5450	4800	5200	5950
27	4300	3900	2950	3500	4200	67600	22700	40500	5300	5050	5400	5450
28	4200	3900	2800	3600	4400	43300	106000	35100	5400	5100	5450	5500
29	4150	4100	2800	4400	---	33600	118000	36500	5350	5050	5400	5750
30	4100	4450	2900	4900	---	29100	73600	49400	5250	5000	5400	6200
31	4050	---	2950	5100	---	28000	---	51200	---	4900	5200	---
TOTAL	125880	127750	114500	128700	117350	696700	794900	760660	394250	152250	161600	170450
MEAN	4061	4258	3694	4152	4191	22470	26500	24540	13140	4911	5213	5682
MAX	4300	5000	4900	10500	4900	88000	118000	55500	51200	6400	5500	6800
MIN	3870	3900	2600	2700	3800	4200	13200	8370	4550	4350	4900	4900

WTR YR 1979 TOTAL 3744990 MEAN 10260 MAX 118000 MIN 2600

01049265 KENNEBEC RIVER AT NO. SIDNEY, ME--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--October 1978 to September 1979.

PERIOD OF DAILY RECORD.--

SPECIFIC CONDUCTANCE: October 1978 to September 1979.

pH: October 1978 to September 1979.

WATER TEMPERATURES: October 1978 to September 1979.

DISSOLVED OXYGEN: October 1978 to September 1979.

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

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

EXTREMES FOR CURRENT YEAR.--

SPECIFIC CONDUCTANCE: Maximum, 174 micromhos July 13; minimum, 31 micromhos April 28, 29.

pH: Maximum, 7.4 units Jan. 23, June 26, 29, July 13; minimum, 6.1 units Mar. 26, July 27.

WATER TEMPERATURE: Maximum, 27.0°C Aug. 4, 5; minimum, 0.0° on many days during winter periods.

DISSOLVED OXYGEN: Maximum, 14.6 mg/L Jan. 11, 12; minimum, 6.0 mg/L Sept. 6.

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979

DATE	TIME	STREAM- FLOW (CFS)	SPE- CIFIC CON- DUCT- ANCE (MICRO- MHOS)	PH (UNITS)	TEMPER- ATURE, AIR (DEG C)	TEMPER- ATURE (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)
OCT											
16...	1630	4000	47	6.7	6.0	10.0	1.0	11.0	97	>1200	K16
JAN											
22...	1445	3800	130	7.0	5.0	.5	3.0	12.2	85	420	300
FEB											
21...	1545	4050	92	6.5	4.0	.0	2.0	12.4	85	410	K40
MAR											
26...	1500	88000	44	6.2	7.0	.5	45	13.9	97	290	2800
APR											
18...	1515	14000	54	6.7	8.5	5.5	2.0	12.5	99	70	K18
MAY											
29...	1545	35700	44	6.8	18.5	13.0	2.0	10.2	96	--	K36
JUN											
25...	1500	5400	65	7.2	16.5	19.0	1.0	9.3	99	K80	K27
JUL											
18...	1030	4600	63	7.1	20.0	22.0	2.0	8.2	93	250	K27
AUG											
27...	1430	5400	69	6.8	20.0	21.5	1.0	8.0	90	210	180
SEP											
24...	1600	6000	80	7.0	19.0	16.5	2.0	9.2	93	K47	K27

DATE	HARD- NESS (MG/L AS CAC03)	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- LITY (MG/L AS CAC03)	CARBON DIOXIDE DIS- SOLVED (MG/L AS C02)
OCT											
16...	16	5	4.6	1.1	1.9	20	.2	--	.5	11	--
JAN											
22...	20	8	6.1	1.2	9.5	49	.9	--	.9	12	--
FEB											
21...	20	7	6.1	1.1	6.1	39	.6	--	.8	13	--
MAR											
26...	13	7	3.7	.8	2.0	24	.2	--	.7	6	--
APR											
18...	16	4	4.9	.9	2.6	25	.3	--	.5	12	--
MAY											
29...	15	0	4.4	.9	2.4	26	.3	2.8	.4	15	--
JUN											
25...	19	1	5.6	1.1	4.2	32	.4	--	.6	18	--
JUL											
18...	16	4	4.6	1.0	4.5	37	.5	5.1	.6	12	1.9
AUG											
27...	16	4	4.4	1.1	6.5	46	.7	7.3	.8	12	3.7
SEP											
24...	21	7	6.4	1.3	6.0	37	.6	6.6	.6	14	2.7

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979

[illegible]

01049265 KENNEBEC RIVER AT NO. SIDNEY, ME--Continued

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979

DATE	COBALT, TOTAL RECOV- ERABLE (UG/L AS CO)	COBALT, SUS- PENDE RECov- ERABLE (UG/L AS CO)	COBALT, DIS- SOLVED (UG/L AS CO)	COPPER, TOTAL RECOV- ERABLE (UG/L AS CU)	COPPER, SUS- PENDE RECov- ERABLE (UG/L AS CU)	COPPER, DIS- SOLVED (UG/L AS CU)	IRON, TOTAL RECOV- ERABLE (UG/L AS FE)	IRON, SUS- PENDE RECov- ERABLE (UG/L AS FE)	IRON, DIS- SOLVED (UG/L AS FE)	LEAD, TOTAL RECOV- ERABLE (UG/L AS PB)	LEAD, SUS- PENDE RECov- ERABLE (UG/L AS PB)
OCT 16...	--	--	--	--	--	--	--	--	--	--	--
JAN 22...	--	--	--	--	--	--	--	--	--	--	--
FEB 21...	0	0	0	2	0	3	170	100	70	7	0
MAR 26...	--	--	--	--	--	--	--	--	--	--	--
APR 18...	--	--	--	--	--	--	--	--	--	--	--
MAY 29...	0	0	0	2	1	1	580	540	40	8	5
JUN 25...	--	--	--	--	--	--	--	--	--	--	--
JUL 18...	--	--	--	--	--	--	--	--	--	--	--
AUG 27...	0	0	0	5	2	3	110	40	70	1	1
SEP 24...	--	--	--	--	--	--	--	--	--	--	--

DATE	LEAD, DIS- SOLVED (UG/L AS PB)	MANGA- NESE, TOTAL RECOV- ERABLE (UG/L AS MN)	MANGA- NESE, SUS- PENDE RECov- (UG/L AS MN)	MANGA- NESE, 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)	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 16...	--	--	--	--	--	--	--	--	--	--	--
JAN 22...	--	--	--	--	--	--	--	--	--	--	--
FEB 21...	8	20	0	30	<.5	.0	<.5	0	0	0	0
MAR 26...	--	--	--	--	--	--	--	--	--	--	--
APR 18...	--	--	--	--	--	--	--	--	--	--	--
MAY 29...	3	30	20	8	<.5	.0	<.5	0	0	0	0
JUN 25...	--	--	--	--	--	--	--	--	--	--	--
JUL 18...	--	--	--	--	--	--	--	--	--	--	--
AUG 27...	0	20	0	20	<.5	<.0	<.5	0	0	0	0
SEP 24...	--	--	--	--	--	--	--	--	--	--	--

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 TOTAL (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 16...	--	--	--	--	--	5.7	--	--	4	43	100
JAN 22...	--	--	--	--	--	8.8	--	--	28	287	100
FEB 21...	0	0	20	20	0	--	100	--	4	44	100
MAR 26...	--	--	--	--	--	9.6	--	--	260	61800	81
APR 18...	--	--	--	--	--	5.1	--	--	3	113	100
MAY 29...	0	0	10	6	4	--	8.7	.8	102	9830	100
JUN 25...	--	--	--	--	--	5.6	--	--	3	44	100
JUL 18...	--	--	--	--	--	7.3	--	--	4	50	100
AUG 27...	0	0	0	0	0	--	11	.1	3	44	100
SEP 24...	--	--	--	--	--	5.3	--	--	1	16	100

01049265 KENNEBEC RIVER AT NO. SIDNEY, ME--Continued

PHYTOPLANKTON ANALYSES, OCTOBER 1978 TO SEPTEMBER 1979

DATE TIME	MAR 26,79 1500	MAY 29,79 1545	JUN 25,79 1500	JUL 18,79 1030	AUG 27,79 1430	SEP 24,79 1600				
TOTAL CELLS/ML	2800	77	1700	1700	3600	3400				
DIVERSITY: DIVISION	1.0	0.9	1.1	1.1	1.6	1.0				
..CLASS	1.0	0.9	1.1	1.1	1.6	1.0				
...ORDER	1.2	0.9	1.7	1.4	1.6	1.8				
...FAMILY	2.4	1.5	2.5	2.7	2.1	1.8				
....GENUS	2.5	1.5	2.6	3.2	2.6	1.9				
ORGANISM	CELLS /ML	PER- CENT	CELLS /ML	PER- CENT	CELLS /ML	PER- CENT	CELLS /ML	PER- CENT	CELLS /ML	PER- CENT
CHLOROPHYTA (GREEN ALGAE)										
..CHLOROPHYCEAE										
...CHLOROCOCCALES										
....COELASTRACEAE										
.....COELASTRUM	--	-	--	-	220	13	--	-	--	-
.....HYDRODICTYACEAE										
.....PEDIASTRUM	--	-	--	-	--	-	100	6	--	-
.....MICRACTINIACEAE										
.....GOLENKINIA	--	-	--	-	26	1	--	-	--	-
.....MICRACTINIUM	--	-	--	-	570#	33	430#	25	--	-
.....OOCYSTACEAE										
.....ANKISTRODESMUS	--	-	--	-	52	3	100	6	110	3
.....CHLORELLA	--	-	--	-	--	-	--	-	200	5
.....DICTYOSPHAERIUM	--	-	--	-	--	-	--	-	1500#	41
.....OOCYSTIS	--	-	--	-	--	-	52	3	--	-
.....SELENASTRUM	--	-	--	-	13	1	65	4	--	-
...SCENEDESMACEAE										
....CRUCIGENIA	--	-	--	-	--	-	100	6	220	6
....SCENEDESMUS	--	-	26#	33	100	6	280#	17	84	2
..TETRASPORALES										
...PALMELLACEAE										
....SPHAEROCYSTIS	--	-	--	-	210	12	100	6	--	-
..VOLVOCALES										
...CHLAMYDOMONADACEAE										
....CHLAMYDOMONAS	--	-	--	-	--	-	--	-	--	-
...ZYGNEMATALES										
...DESMIDIACEAE										
....COSMARIUM	--	-	--	-	13	1	--	-	--	-
CHRYSTOPHYTA										
..BACILLARIOPHYCEAE										
...CENTRALES										
....COSCINODISCACEAE										
.....CYCLOTELLA	76	3	--	-	39	2	--	-	*	0
.....MELOSIRA	50	2	--	-	--	-	26	2	*	0
...PENNALES										
....ACHNANTHACEAE										
.....ACHNANTHES	25	1	13#	17	--	-	26	2	--	-
.....COCCONEIS	25	1	--	-	--	-	--	-	*	0
....CYMBELLACEAE										
.....CYMBELLA	130	5	--	-	--	-	--	-	--	-
....FRAGILARIACEAE										
.....ASTERIONELLA	100	4	--	-	--	-	--	-	--	-
.....FRAGILARIA	300	11	--	-	--	-	--	-	--	-
.....SYNEDRA	--	-	--	-	--	-	--	-	56	2
....NAVICULACEAE										
.....NAVICULA	430#	16	--	-	--	-	13	1	*	0
....NITZSCHIAEAE										
.....NITZSCHIA	130	5	39#	50	--	-	13	1	--	-
....TABELLARIACEAE										
.....TABELLARIA	230	8	--	-	--	-	--	-	--	-
CHRYSTOPHYCEAE										
..CHRYSOMONADALES										
...MALLOMONADACEAE										
....MALLOMONAS	--	-	--	-	--	-	--	-	*	0
...OCHROMONADACEAE										
....OCHROMONAS	--	-	--	-	--	-	--	-	*	0
CRYPTOPHYTA (CRYPTOMONADS)										
..CRYPTOPHYCEAE										
...CRYPTOMONADALES										
....CRYPTOCHRYSIDACEAE										
.....CHROOMONAS	--	-	--	-	--	-	--	-	*	0
....CRYPTOMONADACEAE										
.....CRYPTOMONAS	--	-	--	-	--	-	--	-	770#	21

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

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

01049265 KENNEBEC RIVER AT NO. SIDNEY, ME--Continued

PHYTOPLANKTON ANALYSES, OCTOBER 1978 TO SEPTEMBER 1979

DATE TIME	MAR 26,79 1500		MAY 29,79 1545		JUN 25,79 1500		JUL 18,79 1030		AUG 27,79 1430		SEP 24,79 1600	
ORGANISM	CELLS /ML	PER- CENT	CELLS /ML	PER- CENT	CELLS /ML	PER- CENT	CELLS /ML	PER- CENT	CELLS /ML	PER- CENT	CELLS /ML	PER- CENT
CYANOPHYTA (BLUE-GREEN ALGAE)												
..CYANOPHYCEAE												
...CHROOCOCCALES												
...CHROOCOCCACEAE												
....AGMENELLUM	--	-	--	-	--	-	100	6	--	-	--	-
....ANACYSTIS	--	-	--	-	26	1	280#	17	--	-	1800#	54
...HORMOGONALES												
...NOSTOCACEAE												
....ANABAENA	--	-	--	-	450#	26	--	-	560#	16	--	-
...OSCILLATORIA												
....OSCILLATORIA	1300#	46	--	-	--	-	--	-	--	-	770#	23
EUGLENOPHYTA (EUGLENOIDS)												
..EUGLENOPHYCEAE												
...EUGLENALES												
...EUGLENACEAE												
....EUGLENA	--	-	--	-	--	-	--	-	*	0	--	-
....TRACHELOMONAS	--	-	--	-	--	-	--	-	*	0	--	-
PYRRHOPHYTA (FIRE ALGAE)												
..DINOPHYCEAE												
...GYMNODINIALES												
...GYMNODINIACEAE												
....GYMNODINIUM	--	-	--	-	13	1	--	-	--	-	--	-
...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%

BIOLOGICAL DATA, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979

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 18 TO AUG 27	40	4.57	3.46	15.8	1.52	70.3
AUG 27 TO SEP 24	28	1.26	1.02	1.18	.000	203

01049265 KENNEBEC RIVER AT NO. SIDNEY, ME--Continued

SPECIFIC CONDUCTANCE (MICROMHOS/CM AT 25 DEG. C), WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
OCTOBER			NOVEMBER			DECEMBER			JANUARY			
1	---	---	---	69	64	67	91	75	79	103	85	91
2	---	---	---	69	67	68	94	62	74	127	110	118
3	---	---	---	70	68	69	68	61	64	129	105	116
4	---	---	---	74	70	72	84	69	76	112	79	93
5	---	---	---	72	66	68	84	76	80	88	74	78
6	---	---	---	67	65	67	82	74	78	82	78	80
7	---	---	---	73	65	69	84	71	77	91	82	87
8	---	---	---	68	59	62	82	71	77	135	92	106
9	---	---	---	67	59	61	86	72	81	123	102	108
10	---	---	---	69	64	67	88	84	85	102	90	94
11	---	---	---	74	69	71	92	78	86	92	89	90
12	---	---	---	72	70	71	86	76	82	93	91	92
13	---	---	---	76	70	73	84	71	78	106	92	101
14	---	---	---	74	69	71	76	66	72	108	106	107
15	---	---	---	71	69	70	70	62	68	115	103	110
16	---	---	---	71	69	70	69	61	66	109	102	106
17	---	---	---	74	70	71	79	67	70	107	101	103
18	---	---	---	74	71	73	94	78	84	103	97	101
19	---	---	---	73	68	70	83	69	79	97	91	93
20	---	---	---	72	67	69	78	67	72	95	93	94
21	---	---	---	72	69	70	76	66	70	96	93	94
22	---	---	---	71	68	69	93	67	79	134	99	112
23	---	---	---	71	69	70	95	77	89	103	89	97
24	---	---	---	76	69	71	103	86	91	100	85	92
25	---	---	---	82	75	78	98	77	83	88	82	84
26	73	67	69	80	76	78	93	65	76	98	84	88
27	72	66	68	82	78	80	72	62	69	125	98	112
28	70	62	67	79	74	76	67	60	65	116	102	105
29	65	62	64	82	79	81	67	60	64	105	101	103
30	67	65	66	87	81	83	82	63	74	105	100	102
31	67	64	66	---	---	---	95	84	89	102	95	98
MONTH	73	62	67	87	59	71	103	60	77	135	74	99

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
FEBRUARY			MARCH			APRIL			MAY			
1	99	95	96	93	90	91	55	53	54	40	34	36
2	97	95	95	91	87	89	54	51	53	40	34	37
3	96	94	95	87	85	86	54	51	52	38	34	36
4	98	93	96	88	83	85	53	51	53	38	34	37
5	96	92	94	95	88	91	60	52	55	37	36	37
6	97	94	96	96	89	94	59	56	57	142	36	55
7	102	96	99	99	79	85	58	57	57	146	39	73
8	101	95	98	79	67	72	58	57	57	43	40	41
9	97	90	94	67	61	64	63	58	60	44	42	43
10	91	87	90	64	60	61	70	64	68	51	44	47
11	90	86	88	69	64	66	67	63	65	50	47	49
12	88	84	86	67	65	66	66	64	65	49	48	48
13	85	82	83	70	65	68	65	62	63	50	48	49
14	87	85	86	73	67	70	64	62	63	53	49	50
15	88	85	87	71	70	71	63	60	61	55	51	53
16	89	83	85	70	69	70	63	59	61	58	55	57
17	98	90	94	70	69	70	59	56	58	62	59	61
18	99	92	97	71	69	70	55	53	54	63	59	60
19	96	92	95	76	72	74	56	52	54	59	55	58
20	101	95	98	76	74	75	57	55	56	58	55	56
21	99	89	93	79	76	78	56	52	54	66	58	60
22	94	87	90	75	69	73	52	47	49	66	58	60
23	99	88	90	70	66	67	51	47	49	60	59	59
24	103	93	98	65	58	62	50	46	48	65	59	60
25	96	93	94	59	50	55	47	46	46	76	66	72
26	99	93	95	49	40	44	47	43	45	114	55	67
27	97	77	82	41	39	40	51	43	46	55	45	49
28	95	82	88	45	41	43	48	31	38	49	44	46
29	---	---	---	61	45	49	35	31	33	50	40	47
30	---	---	---	55	51	52	35	34	34	42	37	39
31	---	---	---	54	48	51	---	---	---	41	38	40
MONTH	103	77	92	99	39	69	70	31	54	146	34	51

01049265 KENNEBEC RIVER AT NO. SIDNEY, ME--Continued

SPECIFIC CONDUCTANCE (MICROMHOS/CM AT 25 DEG. C), WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
	JUNE			JULY			AUGUST			SEPTEMBER		
1	39	34	35	64	58	61	62	59	60	67	63	65
2	35	34	34	66	63	64	63	62	62	65	62	64
3	64	34	46	64	60	61	63	59	62	67	62	64
4	52	39	43	59	56	57	62	59	61	67	61	64
5	40	38	39	60	55	57	62	57	60	74	67	70
6	42	40	41	64	61	62	59	57	58	77	63	69
7	43	41	42	66	63	65	60	58	59	67	62	65
8	45	43	44	69	66	68	61	58	60	62	59	61
9	44	42	43	69	66	68	62	59	61	59	56	57
10	46	44	45	72	67	70	65	61	63	60	56	59
11	51	46	49	70	67	69	67	63	65	63	61	62
12	57	51	52	69	64	66	65	62	63	64	60	62
13	58	56	57	174	63	70	70	64	67	65	63	64
14	58	55	57	67	64	65	69	66	68	65	56	62
15	57	56	56	69	65	67	67	64	65	69	57	65
16	56	54	55	69	68	69	65	63	64	66	63	65
17	56	52	55	68	65	67	65	62	64	64	61	62
18	54	52	53	66	61	64	67	61	65	65	60	62
19	55	53	54	64	62	63	69	66	68	63	60	62
20	67	52	55	67	59	63	69	67	68	62	60	61
21	58	53	57	61	59	60	70	66	68	63	61	62
22	58	56	56	61	57	59	67	62	65	66	63	65
23	61	58	59	59	57	58	65	59	63	65	59	61
24	63	61	62	61	59	60	61	58	59	---	---	---
25	67	60	64	61	59	60	63	59	60	---	---	---
26	70	60	66	61	59	60	69	64	66	---	---	---
27	71	66	69	63	56	60	71	67	69	---	---	---
28	66	60	62	66	57	60	71	64	67	---	---	---
29	61	58	59	60	55	58	66	63	64	---	---	---
30	59	57	58	60	55	58	66	63	65	---	---	---
31	---	---	---	62	57	59	65	62	63	---	---	---
MONTH	71	34	52	174	55	63	71	57	64	77	56	63
YEAR	174	31	69									

PH (STANDARD UNITS), WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
	OCTOBER			NOVEMBER			DECEMBER			JANUARY		
1	---	---	---	6.8	6.7	6.7	6.9	6.7	6.8	6.9	6.9	6.9
2	---	---	---	6.9	6.7	6.8	6.8	6.8	6.8	7.0	6.9	6.9
3	---	---	---	6.9	6.8	6.8	6.8	6.8	6.8	7.0	6.9	7.0
4	---	---	---	6.9	6.8	6.8	6.8	6.8	6.8	7.1	6.8	6.9
5	---	---	---	6.9	6.8	6.8	6.8	6.7	6.8	6.9	6.8	6.9
6	---	---	---	6.9	6.7	6.8	6.8	6.7	6.8	6.9	6.8	6.8
7	---	---	---	6.8	6.7	6.8	6.8	6.7	6.7	6.8	6.8	6.8
8	---	---	---	6.9	6.7	6.8	6.7	6.7	6.7	7.0	6.8	6.8
9	---	---	---	6.9	6.8	6.8	6.8	6.7	6.7	6.9	6.8	6.8
10	---	---	---	6.9	6.8	6.8	6.8	6.7	6.7	6.9	6.9	6.9
11	---	---	---	6.8	6.7	6.8	6.8	6.7	6.7	6.9	6.8	6.9
12	---	---	---	6.9	6.7	6.8	6.8	6.7	6.7	6.9	6.7	6.9
13	---	---	---	6.9	6.8	6.9	6.8	6.7	6.7	6.9	6.9	6.9
14	---	---	---	6.8	6.8	6.8	6.8	6.7	6.7	6.9	6.9	6.9
15	---	---	---	6.9	6.8	6.8	6.8	6.7	6.8	7.0	6.9	6.9
16	---	---	---	7.0	6.8	6.9	6.8	6.7	6.8	6.9	6.9	6.9
17	---	---	---	6.9	6.8	6.9	6.8	6.7	6.7	7.0	6.9	6.9
18	---	---	---	6.9	6.8	6.8	6.9	6.7	6.8	7.0	6.9	6.9
19	---	---	---	7.0	6.8	6.9	6.9	6.8	6.8	7.0	6.9	6.9
20	---	---	---	7.0	6.9	6.9	6.8	6.8	6.8	7.0	6.9	6.9
21	---	---	---	7.0	6.9	6.9	6.8	6.8	6.8	6.9	6.9	6.9
22	---	---	---	7.0	6.9	6.9	6.9	6.8	6.8	7.4	6.9	7.0
23	---	---	---	7.0	6.9	6.9	6.8	6.8	6.8	6.8	6.6	6.6
24	---	---	---	6.9	6.8	6.9	6.9	6.8	6.8	6.6	6.5	6.6
25	---	---	---	6.9	6.8	6.8	6.9	6.8	6.8	6.5	6.5	6.5
26	6.9	6.7	6.8	7.0	6.8	6.9	6.9	6.8	6.8	6.5	6.5	6.5
27	6.8	6.7	6.7	6.9	6.9	6.9	6.9	6.8	6.8	6.7	6.5	6.6
28	6.9	6.7	6.8	6.8	6.8	6.8	6.9	6.8	6.8	6.7	6.5	6.5
29	6.8	6.7	6.7	6.8	6.7	6.8	6.9	6.8	6.8	6.6	6.5	6.5
30	6.8	6.7	6.7	6.8	6.7	6.8	6.9	6.8	6.9	6.6	6.5	6.5
31	6.8	6.7	6.7	---	---	---	6.9	6.9	6.9	6.5	6.5	6.5
MONTH	6.9	6.7	6.7	7.0	6.7	6.8	6.9	6.7	6.8	7.4	6.5	6.8

PH (STANDARD UNITS), WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
	FEBRUARY			MARCH			APRIL			MAY		
1	6.5	6.5	6.5	6.5	6.5	6.5	6.5	6.5	6.5	6.6	6.6	6.6
2	6.5	6.5	6.5	6.5	6.5	6.5	6.5	6.5	6.5	6.6	6.6	6.6
3	6.5	6.5	6.5	6.5	6.5	6.5	6.5	6.5	6.5	6.6	6.6	6.6
4	6.5	6.5	6.5	6.5	6.5	6.5	6.6	6.5	6.5	6.7	6.6	6.7
5	6.5	6.5	6.5	6.6	6.5	6.5	6.6	6.6	6.6	6.7	6.7	6.7
6	6.5	6.5	6.5	6.6	6.5	6.6	6.6	6.6	6.6	6.7	6.5	6.7
7	6.5	6.5	6.5	6.6	6.5	6.5	6.6	6.6	6.6	6.7	6.5	6.6
8	6.5	6.5	6.5	6.5	6.4	6.5	6.7	6.6	6.6	6.7	6.6	6.7
9	6.5	6.5	6.5	6.4	6.3	6.4	6.7	6.6	6.7	6.7	6.6	6.7
10	6.5	6.5	6.5	6.4	6.3	6.3	6.8	6.7	6.7	6.7	6.7	6.7
11	6.5	6.5	6.5	6.4	6.4	6.4	6.8	6.7	6.8	6.7	6.7	6.7
12	6.5	6.5	6.5	6.5	6.4	6.4	6.8	6.8	6.8	6.7	6.7	6.7
13	6.5	6.5	6.5	6.5	6.5	6.5	6.8	6.8	6.8	6.7	6.7	6.7
14	6.5	6.5	6.5	6.5	6.5	6.5	6.8	6.8	6.8	6.7	6.7	6.7
15	6.5	6.5	6.5	6.5	6.5	6.5	6.8	6.8	6.8	6.7	6.6	6.7
16	6.5	6.5	6.5	6.5	6.5	6.5	6.8	6.8	6.8	6.7	6.7	6.7
17	6.5	6.5	6.5	6.5	6.5	6.5	6.9	6.8	6.8	6.7	6.7	6.7
18	6.5	6.5	6.5	6.5	6.5	6.5	6.9	6.8	6.8	6.7	6.7	6.7
19	6.5	6.5	6.5	6.6	6.5	6.5	6.8	6.8	6.8	6.8	6.7	6.7
20	6.5	6.5	6.5	6.6	6.5	6.5	6.9	6.8	6.8	6.9	6.8	6.8
21	6.5	6.5	6.5	6.5	6.5	6.5	6.9	6.8	6.8	6.8	6.8	6.8
22	6.5	6.5	6.5	6.5	6.5	6.5	6.8	6.8	6.8	6.8	6.8	6.8
23	6.5	6.5	6.5	6.5	6.5	6.5	6.9	6.8	6.8	6.8	6.8	6.8
24	6.5	6.5	6.5	6.5	6.4	6.4	6.8	6.8	6.8	6.8	6.8	6.8
25	6.6	6.5	6.6	6.5	6.3	6.4	6.8	6.8	6.8	6.9	6.8	6.9
26	6.6	6.6	6.6	6.4	6.1	6.2	6.8	6.7	6.8	7.0	6.9	6.9
27	6.6	6.5	6.5	6.3	6.2	6.3	6.8	6.7	6.8	6.9	6.7	6.8
28	6.6	6.5	6.5	6.4	6.3	6.3	6.8	6.4	6.6	6.8	6.7	6.7
29	---	---	---	6.4	6.4	6.4	6.5	6.4	6.5	6.9	6.8	6.8
30	---	---	---	6.4	6.4	6.4	6.6	6.5	6.5	6.8	6.7	6.8
31	---	---	---	6.5	6.4	6.4	---	---	---	6.8	6.8	6.8
MONTH	6.6	6.5	6.5	6.6	6.1	6.5	6.9	6.4	6.7	7.0	6.5	6.7
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
	JUNE			JULY			AUGUST			SEPTEMBER		
1	6.8	6.7	6.8	7.0	6.8	6.9	6.7	6.6	6.7	7.0	6.7	6.8
2	6.8	6.8	6.8	7.0	6.8	6.9	6.7	6.6	6.7	6.9	6.6	6.8
3	6.8	6.7	6.8	7.1	6.8	6.9	6.7	6.6	6.7	7.0	6.7	6.8
4	6.8	6.8	6.8	7.2	6.8	7.0	6.8	6.6	6.7	7.0	6.7	6.8
5	6.9	6.8	6.8	7.1	6.8	7.0	6.8	6.6	6.7	7.0	6.7	6.8
6	6.9	6.8	6.9	7.2	6.9	7.0	6.8	6.6	6.7	6.8	6.5	6.6
7	6.9	6.8	6.9	7.3	6.9	7.0	6.9	6.7	6.8	6.8	6.7	6.7
8	6.9	6.9	6.9	7.3	6.8	7.0	6.9	6.6	6.8	6.8	6.7	6.7
9	6.9	6.9	6.9	7.1	6.8	7.0	6.9	6.7	6.8	6.8	6.6	6.7
10	6.9	6.9	6.9	7.1	6.8	6.9	6.8	6.7	6.7	6.8	6.6	6.7
11	6.9	6.9	6.9	6.9	6.7	6.8	6.8	6.6	6.7	6.8	6.6	6.7
12	7.0	6.9	6.9	6.8	6.7	6.7	6.8	6.6	6.7	6.8	6.6	6.7
13	7.0	7.0	7.0	7.4	6.6	6.8	6.9	6.7	6.7	6.8	6.6	6.7
14	7.0	7.0	7.0	6.9	6.7	6.8	6.8	6.7	6.7	6.7	6.6	6.7
15	7.0	7.0	7.0	6.8	6.7	6.7	6.8	6.7	6.7	6.8	6.6	6.7
16	7.0	7.0	7.0	6.7	6.7	6.7	6.9	6.7	6.8	6.7	6.7	6.7
17	7.0	7.0	7.0	6.7	6.6	6.6	6.9	6.8	6.8	6.8	6.6	6.7
18	7.0	6.9	7.0	6.7	6.6	6.6	6.9	6.7	6.8	6.7	6.6	6.6
19	7.0	6.9	7.0	6.7	6.6	6.6	6.9	6.7	6.8	6.7	6.6	6.6
20	7.0	6.9	7.0	6.9	6.6	6.7	6.9	6.7	6.8	6.7	6.6	6.7
21	7.0	7.0	7.0	6.9	6.7	6.8	6.8	6.7	6.8	6.7	6.6	6.6
22	7.0	6.9	7.0	6.9	6.7	6.8	6.8	6.7	6.7	6.7	6.6	6.6
23	7.0	6.9	7.0	6.9	6.7	6.8	6.8	6.6	6.7	6.7	6.6	6.6
24	7.1	6.9	7.0	6.9	6.7	6.8	6.8	6.6	6.7	---	---	---
25	7.3	7.0	7.1	6.8	6.7	6.7	6.7	6.6	6.6	---	---	---
26	7.4	6.9	7.1	6.7	6.6	6.7	6.8	6.6	6.7	---	---	---
27	7.3	6.9	7.1	6.8	6.1	6.7	6.8	6.6	6.7	---	---	---
28	7.4	6.9	7.1	6.8	6.7	6.8	6.9	6.7	6.8	---	---	---
29	7.4	6.9	7.1	6.8	6.7	6.7	6.8	6.7	6.7	---	---	---
30	7.2	6.9	7.0	6.9	6.6	6.7	6.8	6.6	6.7	---	---	---
31	---	---	---	6.8	6.6	6.7	6.9	6.6	6.7	---	---	---
MONTH	7.4	6.7	7.0	7.4	6.1	6.8	6.9	6.6	6.7	7.0	6.5	6.7
YEAR	7.4	6.1	6.7									

KENNEBEC RIVER BASIN

01049265 KENNEBEC RIVER AT NO. SIDNEY, ME--Continued

TEMPERATURE, WATER (DEG. C), WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979

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

01049265 KENNEBEC RIVER AT NO. SIDNEY, ME--Continued

TEMPERATURE, WATER (DEG. C), WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
JUNE			JULY			AUGUST			SEPTEMBER			
1	13.5	12.5	13.0	19.5	19.5	19.5	24.5	24.0	24.5	21.5	20.0	20.5
2	15.0	13.5	14.0	21.0	19.5	20.0	24.5	24.0	24.5	22.0	20.5	21.0
3	15.5	14.5	14.5	21.5	20.0	20.5	26.5	24.0	25.0	22.5	21.0	21.5
4	15.5	14.5	15.0	21.0	20.0	20.5	27.0	25.5	26.0	23.0	21.5	22.0
5	16.0	15.5	15.5	20.0	19.0	20.0	27.0	25.5	26.0	22.5	21.0	21.5
6	17.0	16.0	16.5	20.0	18.5	19.0	25.5	25.0	25.5	22.0	21.5	21.5
7	17.5	16.0	16.5	21.0	18.5	19.5	25.0	24.0	24.5	22.5	21.0	21.5
8	17.5	16.5	17.0	22.0	19.5	20.5	25.0	23.0	24.0	21.5	20.5	21.0
9	18.0	17.0	17.5	22.0	20.5	21.0	24.5	23.5	24.0	21.0	20.0	20.5
10	18.5	17.5	18.0	23.0	21.0	22.0	24.0	21.5	23.0	20.5	19.5	20.0
11	19.5	18.0	18.5	21.5	20.5	21.5	22.5	21.0	21.5	20.0	18.5	19.5
12	19.5	18.5	19.0	22.5	20.5	21.0	22.0	20.0	21.5	20.0	18.5	19.0
13	18.5	17.5	18.0	24.0	21.0	22.5	20.0	19.5	19.5	20.0	19.0	19.5
14	19.0	17.5	18.5	25.0	22.5	24.0	20.5	19.0	19.5	19.0	18.5	19.0
15	19.5	18.5	19.0	24.0	22.0	23.0	20.5	19.5	20.0	20.0	18.5	19.0
16	20.5	19.0	19.5	23.0	22.0	22.5	20.0	19.0	19.5	19.0	18.0	18.5
17	20.5	19.5	20.0	23.5	22.5	23.0	20.5	19.0	19.5	19.0	18.0	18.5
18	21.0	20.0	20.5	23.0	22.5	23.0	20.0	19.0	19.5	19.5	18.5	19.0
19	21.5	20.0	20.5	24.5	22.0	23.0	19.0	18.5	18.5	19.0	17.5	18.5
20	21.5	20.5	21.0	24.5	23.0	23.5	20.0	18.5	19.0	17.5	17.0	17.0
21	21.5	20.0	21.0	24.5	23.0	23.5	21.0	19.5	20.0	17.5	17.0	17.0
22	21.0	19.5	20.5	24.5	23.0	23.5	21.5	20.0	20.5	17.0	16.5	17.0
23	20.5	20.0	20.0	25.0	23.0	24.0	21.5	20.0	20.5	17.5	16.0	16.5
24	21.5	20.0	20.5	25.0	23.5	24.5	20.5	20.0	20.5	---	---	---
25	20.0	18.0	19.5	24.0	23.5	24.0	21.0	20.5	20.5	---	---	---
26	20.5	18.0	19.0	24.0	23.5	24.0	22.0	20.5	21.0	---	---	---
27	19.5	18.5	19.0	25.0	23.5	24.5	21.5	21.0	21.5	---	---	---
28	20.5	18.5	19.5	25.5	24.0	24.5	22.5	20.5	21.5	---	---	---
29	20.5	19.5	20.0	26.0	24.5	25.0	22.0	21.0	21.5	---	---	---
30	20.0	19.5	19.5	26.5	25.0	25.5	22.0	21.0	21.5	---	---	---
31	---	---	---	25.5	24.5	25.0	22.0	21.0	21.5	---	---	---
MONTH	21.5	12.5	18.5	26.5	18.5	22.5	27.0	18.5	22.0	23.0	16.0	19.5
YEAR	27.0	.0	10.0									

OXYGEN, DISSOLVED (DO), MG/L, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
OCTOBER				NOVEMBER			DECEMBER			JANUARY		
1	---	---	---	12.7	12.2	12.4	13.5	12.9	13.2	12.6	12.0	12.2
2	---	---	---	13.0	12.5	12.7	13.7	12.8	13.3	12.2	11.5	11.8
3	---	---	---	13.2	12.7	12.9	13.9	13.5	13.7	---	---	---
4	---	---	---	13.4	12.9	13.1	13.4	12.9	13.3	---	---	---
5	---	---	---	13.7	13.1	13.3	13.3	12.8	13.0	---	---	---
6	---	---	---	13.7	13.2	13.3	13.4	12.9	13.2	---	---	---
7	---	---	---	13.8	13.5	13.6	13.5	13.0	13.3	---	---	---
8	---	---	---	---	---	---	13.3	13.0	13.2	---	---	---
9	---	---	---	---	---	---	13.4	13.0	13.2	---	---	---
10	---	---	---	---	---	---	13.8	13.2	13.5	---	---	---
11	---	---	---	---	---	---	13.7	13.4	13.6	14.6	14.1	14.3
12	---	---	---	---	---	---	13.6	13.2	13.4	14.6	14.0	14.5
13	---	---	---	---	---	---	13.5	13.1	13.3	14.3	13.8	14.1
14	---	---	---	---	---	---	13.5	13.1	13.3	13.9	13.6	13.7
15	---	---	---	---	---	---	13.7	13.2	13.4	13.7	13.3	13.5
16	---	---	---	---	---	---	14.0	13.5	13.7	13.8	13.6	13.7
17	---	---	---	---	---	---	14.0	13.6	13.8	13.9	13.6	13.8
18	---	---	---	---	---	---	14.0	13.5	13.7	13.7	13.4	13.5
19	---	---	---	---	---	---	14.3	13.6	13.9	13.7	13.4	13.5
20	---	---	---	---	---	---	14.3	14.0	14.2	13.5	13.3	13.4
21	---	---	---	---	---	---	14.1	12.8	13.6	13.3	13.1	13.2
22	---	---	---	---	---	---	13.0	12.6	12.8	13.1	12.6	12.8
23	---	---	---	---	---	---	13.1	12.8	12.9	13.4	12.8	13.1
24	---	---	---	---	---	---	13.1	12.4	12.7	13.4	13.3	13.4
25	---	---	---	---	---	---	13.2	12.5	12.8	13.3	13.1	13.2
26	11.2	10.9	11.0	---	---	---	13.2	12.7	12.9	13.2	13.1	13.1
27	11.5	11.0	11.2	---	---	---	12.9	12.5	12.7	13.1	12.9	13.0
28	12.0	11.4	11.6	13.2	13.0	13.1	13.1	12.5	12.8	13.1	12.9	13.0
29	12.1	11.6	11.8	13.4	12.9	13.1	13.0	12.7	12.9	13.0	12.9	13.0
30	12.6	12.0	12.3	13.3	12.9	13.1	12.9	12.6	12.8	13.2	13.1	13.1
31	12.8	12.1	12.4	---	---	---	12.9	12.4	12.5	13.3	13.1	13.2
MONTH	12.8	10.9	11.7	13.8	12.2	13.1	14.3	12.4	13.3	14.6	11.5	13.3

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. Several observations of water temperature and specific conductance were made during the year.

AVERAGE DISCHARGE.--15 years (water years 1965-79), 2.11 ft³/s (0.060 m³/s), 30.81 in/yr (783 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 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)
Jan. 22	0800	ice jam	*5.52 1.682	Mar. 25	1615	70 1.98	5.12 1.561
Mar. 6	--	49 1.39	ice jam	Apr. 27	2000	*87 2.46	5.29 1.612

Minimum discharge, 0.09 ft³/s (0.003 m³/s) July 24-26, Aug. 10.

DISCHARGE, STREAM (CUBIC FEET PER SECOND), WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.20	.33	.45	5.9	4.2	2.6	13	3.5	5.4	1.5	.39	.23
2	.28	.32	.35	8.2	2.9	1.7	11	2.7	3.2	1.7	.79	.19
3	.17	.30	.37	9.1	2.3	1.3	15	2.1	2.8	.66	.70	.18
4	.13	.31	.29	4.1	1.9	1.2	12	3.9	2.6	.40	.62	.18
5	.28	.30	.28	2.3	1.6	1.6	12	2.7	2.3	.33	.62	.18
6	.61	.27	.24	2.0	1.4	31	12	1.8	3.0	.23	.62	1.9
7	.56	.27	.25	1.7	1.2	23	9.2	1.3	1.5	.21	.44	2.4
8	.30	.27	.31	2.7	1.1	12	6.8	1.0	1.1	.20	.38	.51
9	.23	.28	.53	5.0	1.0	8.0	5.9	.97	1.1	.20	.38	.32
10	.21	.30	.49	1.6	.94	6.4	9.5	.86	1.1	.20	.23	.26
11	.18	.30	.34	1.1	.86	10	8.5	.69	.88	.18	.29	.23
12	.18	.30	.27	.78	.80	4.4	7.4	.66	.79	.18	.27	.20
13	.16	.30	.23	.62	.75	2.7	6.2	.66	.75	.18	2.6	.19
14	.40	.30	.24	.48	.70	5.5	5.7	.88	.61	.17	.98	.55
15	1.1	.30	.25	.40	.66	5.0	6.2	1.4	.47	.16	.47	1.1
16	.51	.27	.27	.34	.63	3.4	6.4	1.4	.37	.14	.33	.41
17	.30	.22	.31	.30	.60	2.6	4.7	1.2	.35	.88	.17	.29
18	.24	1.1	.35	.28	.57	2.5	3.8	.93	.37	.60	.16	.24
19	.22	.88	.32	.26	.55	2.5	3.4	.76	.46	.36	.68	.24
20	.30	.49	.29	.24	.53	3.6	3.0	.76	.39	.23	1.1	.21
21	.32	.32	.33	1.0	.52	10	2.7	2.8	.31	.18	.65	.20
22	.27	.24	.28	9.0	.50	13	2.2	2.0	.28	.14	.47	.34
23	.29	.27	.27	6.3	.49	14	2.1	1.0	.35	.14	.36	.35
24	.35	.19	.25	4.3	.50	13	1.9	4.2	.34	.11	.33	.30
25	.31	.32	.28	2.0	9.0	39	1.6	18	.31	.09	.33	.27
26	.37	.35	.32	1.6	6.5	30	1.4	13	.27	.13	.32	.25
27	.78	.46	.29	1.5	4.3	15	30	7.6	.26	.40	.30	.24
28	.63	.20	.27	2.0	3.3	8.0	20	6.4	.24	.34	.27	.23
29	.49	.20	.25	3.9	---	7.0	10	11	.23	.24	.28	.25
30	.38	.38	.24	15	---	8.0	5.0	12	.22	.22	.36	.26
31	.33	---	.24	6.4	---	17	---	12	---	.20	.33	---
TOTAL	11.08	10.34	9.45	100.40	50.30	305.0	238.6	120.17	32.35	10.90	16.22	12.70
MEAN	.36	.34	.30	3.24	1.80	9.84	7.95	3.88	1.08	.35	.52	.42
MAX	1.1	1.1	.53	15	9.0	39	30	18	5.4	1.7	2.6	2.4
MIN	.13	.19	.23	.24	.49	1.2	1.4	.66	.22	.09	.16	.18
CFSM	.39	.37	.32	3.48	1.94	10.6	8.55	4.17	1.16	.38	.56	.45
IN.	.44	.41	.38	4.01	2.01	12.19	9.53	4.80	1.29	.44	.65	.51
CAL YR 1978	TOTAL 731.02	MEAN 2.00	MAX 54	MIN .09	CFSM 2.15	IN 29.21						
WTR YR 1979	TOTAL 917.51	MEAN 2.51	MAX 39	MIN .09	CFSM 2.70	IN 36.66						

KENNEBEC RIVER BASIN

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. Several observations of water temperature and specific conductance were made during the year.

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 (0.302 m).

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 381 ft³/s (10.8 m³/s) Mar. 26, 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 (0.302 m).

DISCHARGE, STREAM (CUBIC FEET PER SECOND), WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	3.6	2.1	2.5	3.0	24	55	394	330	155	18	12	9.6
2	2.8	3.2	3.0	3.4	26	57	365	353	130	21	12	9.6
3	2.3	2.6	2.9	4.3	27	59	351	317	115	18	13	9.6
4	2.1	2.9	2.4	4.8	28	59	335	293	100	17	13	9.0
5	2.3	2.7	2.2	5.4	28	60	332	274	85	16	14	7.6
6	2.9	4.1	2.0	5.9	26	79	321	244	76	17	13	8.4
7	3.1	6.0	2.1	6.0	26	158	281	232	69	16	12	7.3
8	3.6	3.7	2.2	7.5	26	241	253	215	62	15	12	8.4
9	2.4	3.1	2.8	7.1	25	240	285	198	55	13	11	8.7
10	1.8	3.1	2.8	6.8	25	231	264	181	51	15	12	8.1
11	1.9	2.7	1.9	7.0	24	251	244	168	47	16	12	7.6
12	1.8	2.3	1.7	7.4	23	260	228	155	42	12	12	7.6
13	1.8	2.6	1.7	8.3	28	253	215	145	39	12	11	7.6
14	2.7	3.8	1.7	11	37	234	200	136	36	13	9.6	8.7
15	2.5	3.0	1.6	9.6	36	225	194	131	34	14	9.6	8.7
16	1.6	2.5	2.2	8.8	35	211	190	125	32	14	8.4	8.7
17	1.6	2.2	2.7	8.9	35	197	183	120	30	17	8.7	7.8
18	2.8	2.8	1.8	9.6	34	181	157	115	29	15	9.6	7.8
19	4.6	2.4	1.4	9.2	32	168	143	110	27	14	11	7.8
20	4.2	1.7	1.4	9.7	31	159	150	105	26	13	9.6	7.6
21	3.5	1.4	1.7	12	30	160	153	100	25	13	9.3	7.6
22	3.3	1.3	1.8	13	28	181	159	99	24	13	9.3	9.0
23	2.3	1.9	2.3	12	26	203	146	97	25	12	9.0	9.0
24	1.5	2.0	2.3	11	31	229	130	95	25	11	9.3	7.8
25	1.6	2.0	2.5	12	36	291	121	105	22	11	10	7.6
26	4.8	1.8	2.5	14	40	361	115	157	20	11	11	7.6
27	4.9	1.4	1.9	16	53	418	150	170	19	11	9.9	7.6
28	3.6	2.5	1.7	17	55	399	373	185	18	12	9.3	7.3
29	3.2	3.3	1.7	18	---	368	401	200	18	12	9.6	7.8
30	1.7	2.9	2.3	18	---	413	365	190	16	11	9.9	8.1
31	2.0	---	2.4	21	---	423	---	175	---	11	10	---
TOTAL	84.8	80.0	66.1	307.7	875	6824	7198	5520	1452	434	332.1	245.6
MEAN	2.74	2.67	2.13	9.93	31.3	220	240	178	48.4	14.0	10.7	8.19
MAX	4.9	6.0	3.0	21	55	423	401	353	155	21	14	9.6
MIN	1.5	1.3	1.4	3.0	23	55	115	95	16	11	8.4	7.3
CFSM	.08	.08	.07	.30	.95	6.69	7.30	5.41	1.47	.43	.33	.25
IN.	.10	.09	.07	.35	.99	7.72	8.14	6.24	1.64	.49	.38	.28
CAL YR 1978	TOTAL	19566.4	MEAN 53.6	MAX 273	MIN 1.3	CFSM 1.63	IN 22.12					
WTR YR 1979	TOTAL	23419.3	MEAN 64.2	MAX 423	MIN 1.3	CFSM 1.95	IN 26.48					

KENNEBEC RIVER BASIN

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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 Town 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, 0.84 ft³/s (0.024 m³/s) July 24-27, 1978.

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)
Jan. 3	--	240 6.8	ice jam	Apr. 28	0130	*847 24.0	8.94 2.725
Mar. 6	2400	768 21.7	8.55 2.606	May 25	2400	241 6.63	5.10 1.554
Mar. 25	1500	386 10.9	6.26 1.908				

Minimum discharge, 1.2 ft³/s (0.034 m³/s) June 29, 30, gage height, 1.65 ft (0.503 m).

DISCHARGE, STREAM (CUBIC FEET PER SECOND), WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	3.0	3.9	5.4	13	110	35	61	93	82	13	3.1	6.2
2	4.1	3.6	4.4	40	60	28	57	69	53	23	3.1	5.5
3	3.7	3.3	3.7	210	40	24	89	54	44	12	3.7	5.0
4	2.8	3.1	3.5	95	27	22	64	65	38	5.3	3.1	4.6
5	4.5	3.0	3.3	45	20	45	66	53	33	3.1	3.1	4.3
6	7.5	3.0	3.2	32	15	280	67	42	37	4.5	3.1	4.0
7	7.0	2.9	3.1	25	13	682	53	36	28	14	3.1	15
8	5.0	2.7	3.7	35	11	542	42	30	18	11	3.1	10
9	3.0	2.6	6.2	60	9.5	374	41	25	15	8.8	3.3	7.5
10	2.5	2.6	7.5	30	8.3	302	72	23	13	6.7	5.0	6.0
11	2.2	2.5	5.6	14	7.4	386	67	17	11	5.6	6.5	5.1
12	2.0	2.5	4.6	9.5	6.8	364	53	14	10	4.8	7.0	4.5
13	1.9	2.4	4.1	8.0	6.2	208	44	17	10	4.3	18	4.1
14	4.5	2.4	3.8	7.2	5.6	190	40	20	8.1	3.7	35	11
15	10	2.3	3.7	6.5	5.2	218	39	25	6.4	3.3	15	20
16	5.5	2.3	3.6	6.0	4.8	151	40	26	5.6	3.3	9.5	16
17	3.5	2.3	4.3	5.6	4.4	95	36	31	3.5	101	6.5	10
18	2.8	10	5.0	5.4	4.0	70	32	24	3.1	84	5.0	7.5
19	2.5	11	4.2	5.2	3.7	68	29	19	3.1	27	7.5	6.0
20	3.0	6.7	3.6	5.0	3.0	81	25	16	3.1	14	17	4.5
21	3.3	4.6	3.9	15	2.8	147	22	24	3.1	8.8	28	4.8
22	3.1	3.3	3.5	90	2.6	163	20	26	3.5	6.4	18	5.6
23	2.8	2.4	3.4	105	2.5	152	19	18	2.9	5.3	13	6.0
24	3.4	2.8	3.3	77	7.0	155	17	35	2.8	4.3	10	3.8
25	3.0	3.9	3.6	60	20	306	17	166	2.6	4.1	8.5	3.5
26	3.7	3.5	4.5	50	100	197	16	217	1.7	4.1	7.5	3.3
27	8.0	2.6	4.0	90	65	109	363	153	1.4	4.8	6.8	3.1
28	7.5	2.4	3.8	136	45	68	490	100	1.3	4.3	6.5	3.0
29	6.0	2.2	3.6	156	---	55	200	138	1.3	3.9	6.3	3.2
30	4.8	3.7	3.5	188	---	51	131	116	1.3	3.3	7.3	3.5
31	4.2	---	3.4	183	---	74	---	155	---	3.3	6.9	---
TOTAL	130.8	106.5	127.0	1807.4	609.8	5642	2312	1847	446.8	405.0	279.5	196.6
MEAN	4.22	3.55	4.10	58.3	21.8	182	77.1	59.6	14.9	13.1	9.02	6.55
MAX	10	11	7.5	210	110	682	490	217	82	101	35	20
MIN	1.9	2.2	3.1	5.0	2.5	22	16	14	1.3	3.1	3.1	3.0
CFSM	.31	.26	.30	4.29	1.60	13.4	5.67	4.38	1.10	.96	.66	.48
IN.	.36	.29	.35	4.94	1.67	15.43	6.32	5.05	1.22	1.11	.76	.54
CAL YR 1978 TOTAL	7412.78			MEAN 20.3	MAX 425	MIN .89	CFSM 1.49	IN 20.27				
WTR YR 1979 TOTAL	13910.40			MEAN 38.1	MAX 682	MIN 1.3	CFSM 2.80	IN 38.05				

KENNEBEC RIVER BASIN

01049400 COBBOSSEECREEK 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.

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, 168.41 ft (51.331 m) Apr. 30, May 1; minimum daily, 163.98 ft (49.981 m) Nov. 17.

ELEVATION (FEET NGVD). WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	166.80	164.23	164.09	164.31	166.14	166.73	168.00	168.41	167.68	167.03	167.20	167.35
2	166.80	164.23	164.09	164.40	166.19	166.69	167.91	168.35	167.64	167.10	167.19	167.35
3	166.79	164.20	164.08	164.61	166.25	166.63	167.85	167.60	167.56	167.10	167.21	167.35
4	166.74	164.19	164.10	164.69	166.29	166.56	167.75	167.68	167.54	167.09	167.20	167.35
5	166.71	164.17	164.11	164.73	166.29	166.50	167.67	167.90	167.49	167.07	167.20	167.33
6	166.69	164.16	164.10	164.75	166.34	166.56	167.58	167.69	167.49	167.05	167.18	167.28
7	166.65	164.14	164.10	164.76	166.37	166.88	167.48	167.48	167.46	167.05	167.16	167.15
8	166.51	164.13	164.11	164.89	166.40	167.14	167.33	167.34	167.41	167.05	167.14	167.02
9	166.36	164.12	164.13	164.94	166.44	167.30	167.18	167.24	167.35	167.04	167.10	166.94
10	166.21	164.10	164.16	164.95	166.48	167.41	167.13	167.15	167.34	167.04	167.10	166.85
11	166.06	164.09	164.15	164.96	166.29	167.57	167.09	167.15	167.35	167.04	167.12	166.79
12	165.92	164.06	164.15	165.00	166.29	167.66	167.05	167.16	167.33	167.04	167.11	166.75
13	165.78	164.05	164.15	165.11	166.55	167.64	166.99	167.16	167.32	167.03	167.20	166.72
14	165.68	164.04	164.15	165.11	166.58	167.58	166.94	167.20	167.28	167.03	167.24	166.72
15	165.61	164.01	164.14	165.11	166.59	167.55	166.95	167.26	167.26	167.02	167.24	166.78
16	165.47	164.00	164.14	165.12	166.60	167.45	166.98	167.32	167.26	167.01	167.24	166.78
17	165.33	163.98	164.17	165.17	166.62	167.31	167.04	167.36	167.25	167.08	167.23	166.79
18	165.19	164.05	164.19	165.18	166.62	167.17	167.15	167.39	167.24	167.15	167.23	166.79
19	165.05	164.05	164.18	165.18	166.63	167.06	167.19	167.40	167.23	167.18	167.26	166.78
20	164.94	164.04	164.17	165.32	166.64	166.98	167.21	167.38	167.22	167.19	167.29	166.77
21	164.81	164.04	164.19	165.40	166.65	166.92	167.21	167.38	167.19	167.19	167.30	166.76
22	164.69	164.03	164.21	165.42	166.63	166.92	167.20	167.36	167.18	167.19	167.30	166.78
23	164.64	164.03	164.20	165.44	166.61	166.95	167.19	167.31	167.17	167.19	167.31	166.80
24	164.60	164.05	164.20	165.53	166.60	167.01	167.18	167.20	167.15	167.18	167.31	166.81
25	164.55	164.09	164.24	165.61	166.62	167.20	167.17	167.20	167.11	167.17	167.31	166.83
26	164.51	164.08	164.29	165.69	166.67	167.57	167.18	167.31	167.11	167.17	167.31	166.85
27	164.48	164.06	164.29	165.74	166.79	167.81	167.34	167.40	167.10	167.21	167.31	166.85
28	164.44	164.07	164.29	165.80	166.79	167.98	167.98	167.43	167.06	167.22	167.31	166.86
29	164.38	164.07	164.28	165.89	---	168.07	168.30	167.52	167.03	167.22	167.32	166.89
30	164.33	164.09	164.28	166.00	---	168.10	168.41	167.60	167.00	167.21	167.36	166.91
31	164.25	---	164.27	166.08	---	168.07	---	167.68	---	167.21	167.35	---
MEAN	165.52	164.09	164.17	165.19	166.50	167.26	167.39	167.45	167.29	167.11	167.24	166.93
MAX	166.80	164.23	164.29	166.08	166.79	168.10	168.41	168.41	167.68	167.22	167.36	167.35
MIN	164.25	163.98	164.08	164.31	166.14	166.50	166.94	167.15	167.00	167.01	167.10	166.72

CAL YR 1978 MEAN 165.80 MAX 167.72 MIN 163.20
WTR YR 1979 MEAN 166.34 MAX 168.41 MIN 163.98

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.

EXTREMES FOR CURRENT YEAR.--Maximum discharge not determined; maximum daily discharge, 2,000 ft³/s (56.6 m³/s) Mar. 25, 26; minimum daily, 15 ft³/s (0.42 m³/s) Feb. 14, 16, 17.

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	22	75	51	50	600	579	1250	1770	1520	170	42	43
2	25	82	50	65	585	667	1350	1740	1470	170	41	41
3	28	79	49	82	570	621	1400	1680	1440	165	41	41
4	24	63	48	95	530	583	1400	1720	1340	169	37	40
5	26	62	48	110	485	580	1380	1680	1090	136	39	41
6	33	60	48	111	450	704	1360	1600	935	55	36	45
7	29	55	48	111	395	1050	1320	1530	935	45	34	65
8	30	55	48	125	330	1410	1280	1440	866	45	36	140
9	49	56	48	138	270	1560	1200	1140	698	48	40	130
10	103	59	48	141	245	1490	1120	1010	343	58	41	120
11	159	59	45	141	232	1570	1050	915	336	60	42	115
12	193	59	45	134	225	1350	980	767	315	60	37	110
13	386	56	45	124	95	1370	910	555	305	60	40	125
14	478	57	45	125	15	1300	830	329	291	57	37	131
15	509	59	47	127	17	1220	750	268	247	57	39	145
16	542	54	48	113	15	1070	700	247	209	57	31	133
17	543	53	48	104	15	920	650	247	195	55	39	149
18	541	57	48	102	20	800	580	250	195	61	41	315
19	514	58	48	98	25	740	540	250	190	63	42	340
20	513	57	47	95	18	860	500	250	190	63	39	308
21	492	55	47	101	18	1100	460	256	190	61	40	198
22	468	55	48	130	20	1500	420	262	185	63	42	80
23	450	53	48	151	25	1900	385	262	185	63	42	74
24	399	52	48	164	46	1980	355	333	180	60	42	69
25	360	52	48	179	84	2000	326	351	180	58	43	67
26	344	52	48	193	148	2000	322	351	180	60	42	67
27	344	50	48	213	214	1930	340	381	180	51	42	66
28	329	49	48	238	242	1800	1690	1120	175	43	40	64
29	322	49	47	262	---	1450	1880	1600	175	43	41	64
30	200	51	46	575	---	1150	1890	1550	170	42	45	60
31	72	---	47	600	---	1180	---	1570	---	42	42	---
TOTAL	8527	1733	1475	4997	5934	38434	28618	27424	14910	2240	1235	3386
MEAN	275	57.8	47.6	161	212	1240	954	885	497	72.3	39.8	113
MAX	543	82	51	600	600	2000	1890	1770	1520	170	45	340
MIN	22	49	45	50	15	579	322	247	170	42	31	40
CAL YR 1978	TOTAL	126590	MEAN	347	MAX	1890	MIN	19				
WTR YR 1979	TOTAL	138913	MEAN	381	MAX	2000	MIN	15				

KENNEBEC RIVER BASIN

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 ft³ (242,400,000 m³) 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.113).
- 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 (349.30 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 1978 TO SEPTEMBER 1979

DATE	BRASSUA LAKE	FIRST ROACH POND	INDIAN POND	MOXIE POND	FLAGSTAFF LAKE	WYMAN POND
SEPT. 30, 1978	8075	0	3204	60	5745	9000
OCT. 31	5215	0	3294	0	2049	8940
NOV. 30	2423	0	2834	0	357	8930
DEC. 31	61	0	3096	0	184	8930
JAN. 31, 1979	138	0	3150	0	238	9100
FEB. 28	61	0	2919	0	184	8920
MAR. 31	2340	732	2936	622	5115	8920
APR. 30	8812	1035	3042	703	12050	8020
MAY 31	9367	911	3168	730	12377	8980
JUNE 30	8938	883	3330	703	11570	9050
JULY 31	8237	746	2970	595	8430	8830
AUG. 31	7270	705	3078	631	4885	9050
SEPT. 30	7113	691	2936	332	2426	8860

NOTE.--Indian and Wyman Pond contents at 2400 on day shown. All others at 0700 on first day of following month.

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.--38 years, 350 ft³/s (9.912 m³/s), 31.07 in/yr (789 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)
Mar. 7	0600	ice jam	*10.66 3.249	Apr. 27	1700	*5130 145	8.50 2.591
Mar. 26	0500	3660 104	7.44 2.268				

Minimum discharge, 17 ft³/s (0.48 m³/s) Aug. 1, gage height, 1.08 ft (0.329 m).

DISCHARGE, STREAM (CUBIC FEET PER SECOND), WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	20	95	52	50	100	63	1610	1750	891	65	22	63
2	131	84	51	75	105	64	1190	1380	550	97	23	43
3	89	77	50	1130	100	65	804	1010	503	110	71	39
4	52	71	48	748	96	71	621	1420	462	75	69	81
5	62	67	47	473	93	95	608	1350	362	52	35	50
6	91	64	47	315	88	540	522	903	631	45	35	100
7	105	62	50	270	83	2040	433	693	414	40	27	725
8	79	60	58	230	80	1720	390	637	295	36	25	270
9	62	59	64	205	76	992	366	782	244	33	24	139
10	51	56	60	185	73	575	338	1040	223	30	31	96
11	44	54	73	170	71	432	295	740	196	29	105	78
12	41	51	71	155	68	325	280	547	386	29	69	72
13	40	44	67	145	66	252	322	~33	444	29	51	60
14	90	69	63	135	65	277	499	456	297	26	54	57
15	282	162	60	125	63	428	527	386	207	24	88	475
16	175	122	57	120	62	369	533	334	164	24	93	243
17	105	72	54	115	61	320	521	291	149	36	52	142
18	78	220	53	105	60	267	529	252	142	39	37	106
19	70	270	52	105	59	265	577	230	121	153	36	102
20	76	146	53	100	58	245	544	205	104	85	58	108
21	76	75	53	99	57	230	767	188	90	45	50	89
22	65	72	52	97	56	334	1040	193	79	33	37	77
23	60	63	50	93	56	729	1240	172	72	27	30	67
24	62	58	48	99	56	1340	1960	177	74	24	27	59
25	59	56	47	95	57	2630	1970	1000	75	21	61	54
26	58	55	47	90	58	3130	2650	1350	67	21	86	50
27	315	54	47	88	59	1750	4210	724	56	24	78	45
28	316	53	46	87	61	883	4590	537	51	24	180	42
29	181	53	46	86	---	651	3460	1000	50	22	99	44
30	129	52	45	91	---	563	2330	844	46	19	68	44
31	105	---	45	97	---	1050	---	834	---	18	109	---
TOTAL	3169	2496	1656	5978	1987	22695	35726	21908	7445	1335	1830	3620
MEAN	102	83.2	53.4	193	71.0	732	1191	707	248	43.1	59.0	121
MAX	316	270	73	1130	105	3130	4590	1750	891	153	180	725
MIN	20	44	45	50	56	63	280	172	46	18	22	39
CFSM	.67	.54	.35	1.26	.46	4.78	7.78	4.62	1.62	.28	.39	.79
IN.	.77	.61	.40	1.45	.48	5.52	8.69	5.33	1.81	.32	.44	.88
CAL YR 1978	TOTAL	121827	MEAN 334	MAX 4600	MIN 17	CFSM 2.18	IN 29.62					
WTR YR 1979	TOTAL	109845	MEAN 301	MAX 4590	MIN 18	CFSM 1.97	IN 26.71					

ANDROSCOGGIN RIVER BASIN

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.--74 years, 1,910 ft³/s (54.09 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, 6,090 ft³/s (172 m³/s) Apr. 29; minimum daily, 806 ft³/s (22.8 m³/s) Mar. 24.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1740	1340	1390	1060	1280	1350	2770	4730	4750	1620	1710	1540
2	1720	1350	1370	944	1300	1350	2850	3380	4750	1550	1710	1550
3	1730	1380	1420	880	1290	1320	2750	2890	4730	1440	1680	1550
4	1730	1370	1450	1230	1300	1310	2470	4010	4240	1400	1660	1560
5	1720	1360	1410	1170	1320	1300	1860	4980	3860	1520	1670	1560
6	1640	1380	1370	1050	1360	1170	1460	5080	3860	1580	1670	1490
7	1620	1400	1370	1230	1370	1760	1170	4870	3860	1580	1670	1170
8	1650	1380	1360	1080	1380	1880	1190	4320	3720	1620	1680	1230
9	1690	1380	1330	1120	1360	1900	1270	2890	3500	1680	1680	1490
10	1710	1370	1330	1210	1370	1640	1250	1930	2270	1680	1670	1530
11	1710	1330	1360	1230	1440	1450	1260	2740	1770	1650	1630	1500
12	1720	1320	1250	1210	1500	1210	1340	2940	1700	1660	1640	1520
13	1720	1350	1160	1190	1500	1070	1330	2530	1480	1660	1650	1520
14	1610	1340	1160	1160	1510	1060	1320	2330	1610	1660	1630	1600
15	1490	1330	1180	1120	1510	1090	1230	1770	1710	1660	1610	1520
16	1450	1370	1160	1150	1480	1130	1120	1480	1710	1670	1600	1430
17	1460	1380	1130	1170	1440	1160	1040	1540	1730	1670	1610	1470
18	1520	1230	1130	1220	1420	1270	1060	1250	1760	1650	1610	1580
19	1570	1180	1200	1220	1420	1350	1080	1690	1770	1590	1620	1650
20	1550	1290	1210	1220	1390	1350	1100	1530	1790	1530	1630	1630
21	1480	1330	1170	1220	1370	1440	1120	1650	1820	1620	1630	1590
22	1530	1300	1150	1210	1360	1200	1200	1720	1840	1690	1640	1590
23	1570	1320	1150	1190	1360	898	1650	1700	1850	1690	1630	1590
24	1550	1330	1160	1190	1350	806	2170	1840	1860	1680	1650	1590
25	1540	1320	1170	1190	1350	1600	2860	4150	1870	1670	1660	1580
26	1490	1410	1150	1200	1340	3260	3590	4950	1880	1670	1660	1590
27	1410	1510	1140	1180	1350	3740	4510	4730	1890	1670	1590	1610
28	1340	1480	1140	1170	1350	3590	5470	3910	1890	1670	1580	1630
29	1420	1450	1140	1140	---	3170	6090	3700	1730	1680	1740	1570
30	1460	1400	1140	1160	---	2950	5960	4300	1650	1680	1820	1500
31	1370	---	1130	1220	---	2750	---	4720	---	1680	1650	---
TOTAL	48910	40680	38380	35934	38770	52524	65540	96250	74850	50470	51280	45930
MEAN	1578	1356	1238	1159	1385	1694	2185	3105	2495	1628	1654	1531
MAX	1740	1510	1450	1230	1510	3740	6090	5080	4750	1690	1820	1650
MIN	1340	1180	1130	880	1280	806	1040	1250	1480	1400	1580	1170
CAL YR 1978	TOTAL	867106	MEAN	2376	MAX	7200	MIN	996				
WTR YR 1979	TOTAL	639518	MEAN	1752	MAX	6090	MIN	806				

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 periods of no gage-height record, Nov. 9 to Dec. 11, July 26 to Aug. 24, 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.--66 years, 2,472 ft³/s (70.01 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, 10,300 ft³/s (292 m³/s) Apr. 28, gage height, 7.66 ft (2.335 m); minimum daily, 1,210 ft³/s (34.3 m³/s) Dec. 19.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1830	1600	1600	1400	1460	1570	4880	7690	6270	1820	1800	1780
2	1920	1550	1550	1550	1500	1580	4870	5740	5800	1910	1850	1660
3	1890	1570	1600	2500	1520	1580	4480	4200	5530	1840	1830	1650
4	1870	1560	1700	2290	1480	1570	4030	4740	5270	1630	1800	1660
5	1890	1540	1680	2160	1540	1650	3550	6400	4510	1610	1780	1680
6	1900	1550	1620	1690	1530	2010	3010	6300	4900	1690	1770	1710
7	1850	1590	1600	1620	1530	3510	2290	6010	4610	1710	1770	1780
8	1820	1570	1610	1740	1600	4280	2050	5530	4350	1700	1760	1490
9	1820	1580	1610	1460	1600	3790	2050	4630	4100	1780	1790	1510
10	1840	1570	1560	1540	1570	3360	2050	3110	3540	1790	1820	1770
11	1840	1540	1530	1510	1550	2800	1920	2940	2460	1770	1800	1650
12	1840	1530	1550	1510	1600	2420	1980	3500	2420	1760	1800	1660
13	1850	1520	1440	1490	1620	1920	2070	3380	2260	1760	1830	1660
14	1950	1560	1370	1510	1620	1870	2420	2920	1940	1750	1810	1610
15	2030	1540	1330	1450	1670	1920	2570	2730	2000	1730	1800	2020
16	1890	1530	1380	1400	1700	1970	2550	2020	1970	1770	1790	1780
17	1730	1580	1340	1370	1650	1890	2320	1930	1930	1770	1770	1690
18	1680	1720	1270	1430	1630	1830	2270	1950	1960	1840	1730	1660
19	1720	1670	1210	1430	1680	1940	2390	1580	1920	1930	1770	1740
20	1770	1610	1330	1420	1670	1910	2400	2010	1910	1750	1780	1800
21	1710	1590	1410	1480	1600	1990	2640	1870	1920	1650	1770	1720
22	1650	1560	1330	1500	1570	2320	2990	2040	1960	1750	1750	1720
23	1740	1540	1320	1460	1550	2470	3250	2000	1950	1780	1740	1720
24	1770	1530	1330	1440	1570	3090	4380	2030	1970	1770	1710	1700
25	1790	1510	1350	1460	1580	5600	5090	4090	1940	1760	1750	1690
26	1780	1500	1350	1460	1580	8040	6210	7290	1960	1770	1910	1690
27	1870	1600	1330	1450	1570	6840	8220	6780	2000	1760	1870	1700
28	1880	1700	1280	1440	1580	5770	9910	5550	2000	1780	1760	1710
29	1670	1650	1300	1420	---	4950	9420	5340	1970	1800	1760	1750
30	1760	1620	1250	1390	---	4340	8750	5650	1790	1800	1910	1640
31	1670	---	1320	1420	---	4460	---	6450	---	1800	1900	---
TOTAL	56220	47280	44450	48390	44320	95240	117010	128400	89110	54730	55680	51000
MEAN	1814	1576	1434	1561	1583	3072	3900	4142	2970	1765	1796	1700
MAX	2030	1720	1700	2500	1700	8040	9910	7690	6270	1930	1910	2020
MIN	1650	1500	1210	1370	1460	1570	1920	1580	1790	1610	1710	1490
CAL YR 1978	TOTAL	1070810	MEAN	2934	MAX	9960	MIN	1210				
WTR YR 1979	TOTAL	831830	MEAN	2279	MAX	9910	MIN	1210				

ANDROSCOGGIN RIVER BASIN

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, and period of no gage-height record Apr. 24 to May 16, which are fair.

AVERAGE DISCHARGE.--15 years, 182 ft³/s (5.154 m³/s), 35.56 in/yr (903 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)
Jan. 3	0030	3990 113	7.72 2.353	May 25	1430	3300 93.5	7.23 2.204
Mar. 6	1400	7300 210	a*14.47 4.410	May 29	0645	3450 97.7	7.34 2.237
Mar. 25	0900	5490 155	8.61 2.624	Sept. 14	2345	2120 60.0	6.26 1.908
Apr. 27	Unknown	*9600 272	b11.00 3.353				

a Ice jam.

b From peak stage indicator.

Minimum discharge, 10 ft³/s (0.28 m³/s) Oct. 1, gage height, 3.03 ft (0.924 m).

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	11	21	24	130	60	36	542	740	449	199	15	16
2	29	20	21	790	56	34	456	560	300	238	16	14
3	21	19	20	1780	53	32	341	420	232	222	30	13
4	15	18	18	420	50	32	315	850	185	84	32	13
5	71	18	17	177	47	52	320	520	169	56	22	11
6	74	18	17	129	46	1100	254	350	276	50	18	217
7	68	17	20	115	44	3100	213	270	158	43	14	297
8	33	20	25	100	42	955	185	250	126	36	13	73
9	23	20	30	90	40	385	177	310	114	31	13	45
10	19	19	35	82	39	294	173	450	106	29	14	33
11	17	18	29	76	38	241	150	300	98	26	48	28
12	16	17	27	70	36	191	158	220	161	25	30	24
13	16	16	25	66	36	160	208	180	114	25	158	21
14	56	16	24	62	35	234	259	175	89	23	69	146
15	166	17	22	60	34	391	227	165	73	21	41	572
16	54	16	22	57	34	241	208	150	62	21	30	112
17	35	17	21	54	33	198	213	126	55	24	24	67
18	28	213	20	52	33	170	227	112	51	25	19	50
19	25	105	19	50	32	145	270	106	47	25	20	41
20	31	56	19	48	32	136	294	101	43	24	37	34
21	30	45	18	46	32	177	404	109	37	21	32	31
22	26	38	18	48	32	371	449	140	35	19	26	31
23	24	30	17	51	31	699	730	101	34	17	23	30
24	24	26	17	48	31	964	850	181	34	16	19	26
25	22	23	17	46	32	3500	950	1970	32	16	18	24
26	23	22	16	45	34	1400	2100	1410	30	15	18	23
27	40	21	16	48	36	658	5400	723	27	16	16	22
28	41	22	16	54	38	404	3200	456	25	19	20	20
29	30	25	15	60	---	315	1600	1520	28	19	21	24
30	25	28	16	68	---	288	840	881	28	17	20	27
31	22	---	45	64	---	410	---	1160	---	16	20	---
TOTAL	1115	961	666	4986	1086	17313	21713	15006	3218	1418	896	2085
MEAN	36.0	32.0	21.5	161	38.8	558	724	484	107	45.7	28.9	69.5
MAX	166	213	45	1780	60	3500	5400	1970	449	238	158	572
MIN	11	16	15	45	31	32	150	101	25	15	13	11
CFSM	.52	.46	.31	2.32	.56	8.03	10.4	6.96	1.54	.66	.42	1.00
IN.	.60	.51	.36	2.67	.58	9.27	11.62	8.03	1.72	.76	.48	1.12
CAL YR 1978	TOTAL	60527.9	MEAN 166	MAX 3440	MIN 9.9	CFSM 2.39	IN 32.40					
WTR YR 1979	TOTAL	70463.0	MEAN 193	MAX 5400	MIN 11	CFSM 2.78	IN 37.71					

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, 29.0°C July 25, 29; minimum, 0.0°C on many days during winter periods.

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979

DATE	TIME	STREAM- FLOW, INSTAN- TANEOUS (CFS)	SPE- CIFIC CON- DUCT- ANCE (MICRO- MHOS)	PH (UNITS)	TEMPER- ATURE, AIR (DEG C)	TEMPER- ATURE (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 CAC03)
OCT												
10...	1145	18	31	6.6	11.0	6.0	11.9	98	--	--	--	--
NOV												
14...	1530	14	28	6.6	10.0	5.0	12.8	103	20	<1	8	7
JAN												
29...	1200	60	33	6.1	6.0	.0	13.9	99	20	<1	<1	6
MAR												
01...	1115	50	29	6.3	4.0	.0	9.7	69	--	--	--	--
28...	1245	423	21	5.7	4.5	1.5	12.7	93	K2	<1	<1	5
APR												
24...	1100	678	19	5.9	17.0	5.0	12.7	102	--	--	--	--
JUN												
07...	1130	172	17	6.2	24.0	12.5	9.8	95	K2	--	<1	5
21...	1030	44	20	6.5	26.0	16.5	9.3	98	--	--	--	--
JUL												
25...	1130	18	23	6.8	28.0	25.0	7.0	88	K17	K60	--	5
AUG												
24...	1030	23	24	6.6	23.0	18.5	9.0	99	--	--	--	--
SEP												
26...	1445	30	23	6.6	18.5	15.0	10.2	99	--	>4	K2	6

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	POTAS- SIUM DIS- SOLVED (MG/L AS NA)	POTAS- SIUM, DIS- SOLVED (MG/L AS K)	ALKA- LINITY (MG/L AS CAC03)	CARBON DIOXIDE DIS- SOLVED (MG/L AS CO2)	SULFATE DIS- SOLVED (MG/L AS SO4)	CHLO- RIDE, DIS- SOLVED (MG/L AS CL)
OCT												
10...	--	--	--	--	--	--	--	--	--	--	--	--
NOV												
14...	0	1.8	.6	1.9	34	.3	--	.8	9	--	5.5	.8
JAN												
29...	0	1.6	.6	1.2	27	.2	--	.4	7	--	4.0	.6
MAR												
01...	--	--	--	--	--	--	--	--	--	--	--	--
28...	1	1.5	.4	.8	23	.2	--	.4	4	--	2.4	.4
APR												
24...	--	--	--	--	--	--	--	--	--	--	--	--
JUN												
07...	3	1.2	.4	.8	26	.2	--	.3	2	--	4.1	.5
21...	--	--	--	--	--	--	--	--	--	--	--	--
JUL												
25...	2	1.4	.4	1.4	34	.3	2.0	.6	3	.9	3.3	.3
AUG												
24...	--	--	--	--	--	--	--	--	--	--	--	--
SEP												
26...	5	1.5	.6	1.4	42	.2	1.8	.4	1	.5	3.7	.3

01054200 WILD RIVER AT GILEAD, ME--Continued

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979

DATE	FLUORIDE, DIS- SOLVED (MG/L AS F)	SILICA, DIS- SOLVED (MG/L AS SiO2)	SOLIDS, RESIDUE AT 140 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)	PHOS- PHORUS, TOTAL (MG/L AS P)	PHOS- PHATE, TOTAL (MG/L AS PO4)	PHOS- PHORUS, TOTAL (MG/L AS PO4)	ARSENIC TOTAL (UG/L AS AS)
OCT 10...	--	--	--	--	--	--	--	--	--	--	--
NOV 14...	.1	8.8	22	26	.03	.83	.05	.00	--	--	--
JAN 29...	.0	6.3	27	19	.04	4.37	.04	.00	--	--	--
MAR 01...	--	--	--	--	--	--	--	--	--	--	--
28...	.0	4.2	20	13	.03	22.8	.05	.01	--	--	0
APR 24...	--	--	--	--	--	--	--	--	--	--	--
JUN 07...	.0	5.2	21	14	.03	9.75	.02	.00	.00	.00	4
21...	--	--	--	--	--	--	--	--	--	--	--
JUL 25...	.1	6.8	28	16	.04	1.36	.01	.01	--	.03	--
AUG 24...	--	--	--	--	--	--	--	--	--	--	--
SEP 26...	.1	7.4	20	25	.03	1.65	--	--	--	--	0

DATE	BARIIUM, TOTAL RECOV- ERABLE (UG/L AS BA)	CADMIUM TOTAL RECOV- ERABLE (UG/L AS CD)	CHRO- MIUM, TOTAL RECOV- ERABLE (UG/L AS CR)	COPPER, TOTAL RECOV- ERABLE (UG/L AS CU)	IRON, TOTAL RECOV- ERABLE (UG/L AS FE)	LEAD, TOTAL RECOV- ERABLE (UG/L AS PB)	MANGA- NESE, TOTAL RECOV- ERABLE (UG/L AS MN)	MERCURY TOTAL RECOV- ERABLE (UG/L AS HG)	SELE- NIUM, TOTAL (UG/L AS SE)	SILVER, TOTAL RECOV- ERABLE (UG/L AS AG)	ZINC, TOTAL RECOV- ERABLE (UG/L AS ZN)
OCT 10...	--	--	--	--	--	--	--	--	--	--	--
NOV 14...	--	--	--	--	--	--	--	--	--	--	--
JAN 29...	--	--	--	--	--	--	--	--	--	--	--
MAR 01...	--	--	--	--	--	--	--	--	--	--	--
28...	0	2	--	4	90	12	10	<.5	0	0	20
APR 24...	--	--	--	--	--	--	--	--	--	--	--
JUN 07...	100	0	10	1	<100	0	0	<.5	0	0	20
21...	--	--	--	--	--	--	--	--	--	--	--
JUL 25...	--	--	--	--	--	--	--	--	--	--	--
AUG 24...	--	--	--	--	--	--	--	--	--	--	--
SEP 26...	0	0	10	2	90	1	10	<.5	0	0	0

RADIOCHEMICAL ANALYSES, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979

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 26...	<.3	<.4	<.3	<.4	1.0	1.0	<.4	<.4	.03	.07

01054200 WILD RIVER AT GILEAD, ME--Continued

PESTICIDE ANALYSES, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979

DATE	PCB, TOTAL (UG/L)	PCB, TOTAL IN BOT- TOM MA- TERIAL (UG/KG)	NAPH- THA- LENES, POLY- CHLOR. TOTAL (UG/L)	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)	DDE, TOTAL IN BOT- TOM MA- TERIAL (UG/KG)
SEP 26...	.0	2	.00	.00	.0	.0	0	.00	.0	.00	.0

DATE	DDT, 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)	ENDRIN, TOTAL (UG/L)	ENDRIN, TOTAL IN BOT- TOM MA- TERIAL (UG/KG)	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)
SEP 26...	.00	.3	.00	.0	.00	.00	.0	.00	.0	.00	.0

DATE	LINDANE TOTAL (UG/L)	LINDANE TOTAL IN BOT- TOM MA- TERIAL (UG/KG)	METH- OXY- CHLOR, TOTAL (UG/L)	METH- OXY- CHLOR, TOT. IN BOTTOM MATL. (UG/KG)	PER- THANE TOTAL (UG/L)	TOX- APHENE, TOTAL (UG/L)	TOX- APHENE, TOTAL IN BOT- TOM MA- TERIAL (UG/KG)	2,4-D, TOTAL (UG/L)	2,4,5-T TOTAL (UG/L)	SILVEX, TOTAL (UG/L)
SEP 26...	.00	.0	.00	.0	.00	0	0	.00	.00	.00

TEMPERATURE, WATER (DEG. C), WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
	OCTOBER			NOVEMBER			DECEMBER			JANUARY		
1	---	---	---	---	---	---	---	---	---	.0	.0	.0
2	---	---	---	---	---	---	---	---	---	.0	.0	.0
3	---	---	---	---	---	---	---	---	---	.0	.0	.0
4	---	---	---	---	---	---	---	---	---	.0	.0	.0
5	---	---	---	---	---	---	---	---	---	.0	.0	.0
6	---	---	---	---	---	---	---	---	---	.0	.0	.0
7	---	---	---	---	---	---	---	---	---	.0	.0	.0
8	---	---	---	---	---	---	---	---	---	.0	.0	.0
9	---	---	---	---	---	---	---	---	---	.0	.0	.0
10	---	---	---	---	---	---	---	---	---	.0	.0	.0
11	---	---	---	---	---	---	---	---	---	.0	.0	.0
12	---	---	---	---	---	---	---	---	---	.0	.0	.0
13	---	---	---	---	---	---	.0	.0	.0	.0	.0	.0
14	---	---	---	---	---	---	.0	.0	.0	.0	.0	.0
15	---	---	---	---	---	---	.0	.0	.0	.0	.0	.0
16	---	---	---	---	---	---	.0	.0	.0	.0	.0	.0
17	---	---	---	---	---	---	.0	.0	.0	.0	.0	.0
18	---	---	---	---	---	---	.0	.0	.0	.0	.0	.0
19	---	---	---	---	---	---	.0	.0	.0	.0	.0	.0
20	---	---	---	---	---	---	.0	.0	.0	.0	.0	.0
21	---	---	---	---	---	---	.0	.0	.0	.0	.0	.0
22	---	---	---	---	---	---	.0	.0	.0	.0	.0	.0
23	---	---	---	---	---	---	.0	.0	.0	.0	.0	.0
24	---	---	---	---	---	---	.0	.0	.0	.0	.0	.0
25	---	---	---	---	---	---	.0	.0	.0	.0	.0	.0
26	---	---	---	---	---	---	.0	.0	.0	.0	.0	.0
27	---	---	---	---	---	---	.0	.0	.0	.0	.0	.0
28	---	---	---	---	---	---	.0	.0	.0	.0	.0	.0
29	---	---	---	---	---	---	.0	.0	.0	.0	.0	.0
30	---	---	---	---	---	---	.0	.0	.0	.0	.0	.0
31	---	---	---	---	---	---	.0	.0	.0	.0	.0	.0
MONTH	---	---	---	---	---	---	.0	.0	.0	.0	.0	.0

ANDROSCOGGIN RIVER BASIN

01054200 WILD RIVER AT GILEAD, ME--Continued

TEMPERATURE, WATER (DEG. C), WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
FEBRUARY				MARCH			APRIL			MAY		
1	.0	.0	.0	.0	.0	.0	3.0	2.0	2.5	8.0	5.0	6.5
2	.0	.0	.0	.0	.0	.0	2.5	.0	1.5	9.5	5.0	6.5
3	.0	.0	.0	.0	.0	.0	3.5	.0	2.0	10.0	4.0	7.0
4	.0	.0	.0	.0	.0	.0	5.0	1.0	3.0	8.0	6.0	7.0
5	.0	.0	.0	.0	.0	.0	2.5	1.0	1.5	8.5	5.5	7.0
6	.0	.0	.0	.0	.0	.0	2.5	.5	1.5	10.0	3.5	6.5
7	.0	.0	.0	.0	.0	.0	2.5	.0	1.0	---	---	---
8	.0	.0	.0	.0	.0	.0	4.5	.0	1.5	---	---	---
9	.0	.0	.0	---	---	---	1.0	.0	.5	---	---	---
10	.0	.0	.0	---	---	---	2.5	.0	1.0	---	---	---
11	.0	.0	.0	---	---	---	6.0	.0	2.5	---	---	---
12	.0	.0	.0	---	---	---	7.5	.5	4.0	---	---	---
13	.0	.0	.0	---	---	---	7.5	2.0	4.5	---	---	---
14	.0	.0	.0	---	---	---	4.5	3.0	3.5	---	---	---
15	.0	.0	.0	---	---	---	3.5	2.5	3.0	---	---	---
16	.0	.0	.0	---	---	---	5.5	2.0	3.5	---	---	---
17	.0	.0	.0	---	---	---	5.0	2.0	3.0	---	---	---
18	.0	.0	.0	---	---	---	7.0	1.0	4.0	---	---	---
19	.0	.0	.0	---	---	---	6.5	2.5	4.5	---	---	---
20	.0	.0	.0	---	---	---	8.5	1.5	4.5	---	---	---
21	.0	.0	.0	---	---	---	8.5	2.0	5.0	---	---	---
22	.0	.0	.0	---	---	---	4.5	2.5	3.5	---	---	---
23	.0	.0	.0	---	---	---	8.5	2.5	4.5	---	---	---
24	.0	.0	.0	---	---	---	7.0	2.5	4.5	---	---	---
25	.0	.0	.0	---	---	---	8.5	2.5	5.0	---	---	---
26	.0	.0	.0	---	---	---	8.0	4.0	5.5	---	---	---
27	.0	.0	.0	---	---	---	5.0	3.5	4.5	---	---	---
28	.0	.0	.0	---	---	---	8.5	4.5	6.0	---	---	---
29	---	---	---	2.5	.0	1.5	7.5	5.5	6.0	---	---	---
30	---	---	---	3.0	2.0	2.5	10.5	5.5	7.5	---	---	---
31	---	---	---	3.0	2.5	2.5	---	---	---	---	---	---
MONTH	.0	.0	.0	3.0	.0	.5	10.5	.0	3.5	10.0	3.5	7.0
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
JUNE				JULY			AUGUST			SEPTEMBER		
1	---	---	---	17.5	15.0	16.5	26.5	22.5	24.5	22.5	14.0	18.0
2	---	---	---	18.0	14.5	16.0	24.0	22.0	22.5	24.0	16.0	19.5
3	---	---	---	20.5	14.5	17.0	28.5	21.0	24.0	25.5	19.5	21.5
4	---	---	---	19.5	13.5	16.5	26.0	21.5	23.5	24.5	18.5	21.0
5	---	---	---	17.5	13.0	15.0	26.5	20.5	23.5	24.0	16.0	19.5
6	---	---	---	18.5	13.5	15.5	26.0	20.0	22.0	20.0	16.5	18.5
7	---	---	---	20.5	13.0	17.0	24.0	17.0	20.0	19.0	15.5	17.0
8	---	---	---	24.0	15.0	19.0	25.0	18.5	21.0	19.0	14.0	16.0
9	18.0	15.0	16.5	25.0	17.0	21.0	23.5	16.5	19.5	17.5	11.0	14.0
10	20.0	15.5	18.0	25.0	18.0	21.5	17.5	14.5	16.0	17.5	12.0	14.5
11	20.0	16.0	18.0	22.5	19.5	21.0	17.0	14.5	15.5	15.0	12.0	13.0
12	17.0	13.0	15.0	26.0	18.0	21.5	16.0	14.0	15.0	17.0	10.5	13.5
13	17.0	11.0	13.5	26.5	20.0	23.5	14.0	12.5	13.5	20.5	12.0	15.5
14	18.5	11.0	14.5	28.5	20.5	24.0	17.0	12.5	14.5	17.5	14.0	15.5
15	22.0	13.5	17.5	24.0	20.5	22.0	17.5	14.0	15.0	16.0	13.5	14.5
16	24.5	17.0	20.5	24.0	19.5	21.5	20.0	13.5	16.0	16.5	12.0	13.5
17	23.5	18.5	21.0	26.5	20.5	23.0	19.5	12.5	16.0	17.0	11.0	14.0
18	20.5	17.5	19.5	23.0	20.5	21.5	16.5	14.0	15.0	21.0	12.0	15.5
19	22.0	14.5	17.5	27.0	19.0	22.5	15.5	14.0	14.5	15.5	10.5	13.5
20	23.0	13.5	18.0	26.5	18.0	22.0	22.0	14.0	16.5	13.5	7.5	10.5
21	23.5	14.5	19.0	26.0	18.5	22.0	22.0	15.5	18.0	15.0	9.0	11.5
22	20.0	15.0	18.0	28.0	20.0	23.5	25.5	16.5	19.5	15.5	12.0	13.5
23	18.0	16.0	17.0	28.0	20.0	23.5	22.5	16.5	19.0	14.5	9.0	12.0
24	18.5	14.5	16.0	28.5	21.0	24.5	22.0	18.0	19.0	14.0	7.5	10.5
25	17.5	13.0	15.0	29.0	22.5	25.5	22.5	18.5	19.5	13.5	8.0	10.5
26	21.5	11.5	16.0	25.5	23.0	24.0	25.5	17.5	20.0	17.5	9.0	12.5
27	20.5	14.0	17.0	27.0	22.0	24.0	19.5	18.0	19.0	15.5	9.5	12.0
28	22.5	16.5	19.5	26.5	21.0	23.5	25.0	12.0	19.5	13.0	10.0	12.0
29	24.5	17.5	20.5	29.0	21.5	24.5	21.0	18.0	18.5	19.5	12.0	15.0
30	19.5	17.5	18.5	27.5	20.5	24.0	27.0	17.5	20.5	15.0	13.5	14.0
31	---	---	---	28.0	22.0	24.5	23.0	17.5	20.0	---	---	---
MONTH	24.5	11.0	17.5	29.0	13.0	21.5	28.5	12.0	18.5	25.5	7.5	14.5
PERIOD	29.0	.0	9.5									

ANDROSCOGGIN RIVER BASIN

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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 and period of no gage-height record Jan. 18 to Feb. 15, which are fair. Several observations of water temperature and specific conductance were made during the year.

AVERAGE DISCHARGE.--16 years, 255 ft³/s (7.222 m³/s), 26.43 in/yr (671 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 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)
Mar. 25	2200	2950 83.5	16.95 5.166	Apr. 28	0800	*3180 90.1	17.51 5.337

Minimum discharge, 13 ft³/s (0.37 m³/s) Oct. 1.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	14	36	35	100	74	49	885	1120	589	53	21	24
2	21	34	31	250	70	47	868	943	468	136	21	22
3	30	32	29	590	67	45	726	720	383	187	28	21
4	23	29	27	300	64	43	641	815	319	98	29	20
5	40	29	26	200	61	55	644	792	264	66	24	19
6	59	28	26	170	59	150	574	609	407	54	21	23
7	74	26	30	150	56	450	501	511	320	46	20	232
8	48	27	35	135	54	1000	440	446	250	42	20	91
9	34	27	45	125	52	700	413	427	217	39	19	51
10	27	26	60	115	50	500	395	452	209	36	20	39
11	24	25	55	105	49	400	368	392	190	34	36	32
12	23	23	49	98	47	350	365	327	257	33	32	29
13	21	22	44	92	46	310	422	293	276	32	42	27
14	29	21	41	85	45	290	570	277	201	29	48	26
15	116	22	38	79	44	300	558	257	165	26	39	151
16	80	24	37	75	42	260	547	235	141	27	35	88
17	51	22	35	70	41	240	553	213	127	29	29	55
18	39	60	34	67	40	215	557	190	115	29	25	44
19	34	117	33	64	39	200	610	177	102	34	24	41
20	36	70	32	61	39	190	585	164	89	43	28	44
21	37	40	31	61	38	250	683	160	78	36	29	41
22	33	35	31	63	39	400	792	202	72	28	26	38
23	31	30	30	66	40	650	802	177	67	25	24	35
24	29	27	29	65	41	1100	1090	164	64	23	22	31
25	29	25	28	63	44	2120	1080	565	59	23	21	30
26	28	24	28	61	46	2480	1200	1110	55	23	25	28
27	56	25	28	62	49	1700	1880	806	50	26	26	27
28	90	29	27	74	52	1110	2890	555	46	28	32	26
29	62	38	27	85	---	844	2020	768	43	25	31	26
30	49	42	27	82	---	684	1470	838	41	23	28	25
31	41	---	30	78	---	828	---	696	---	21	27	---
TOTAL	1308	1015	1058	3691	1388	17960	25129	15401	5664	1354	852	1386
MEAN	42.2	33.8	34.1	119	49.6	579	838	497	189	43.7	27.5	46.2
MAX	116	117	60	590	74	2480	2890	1120	589	187	48	232
MIN	14	21	26	61	38	43	365	160	41	21	19	19
CFSM	.32	.26	.26	.91	.38	4.42	6.40	3.79	1.44	.33	.21	.35
IN.	.37	.29	.30	1.05	.39	5.10	7.14	4.37	1.61	.38	.24	.39
CAL YR 1978	TOTAL	90776	MEAN 249	MAX 2200	MIN 13	CFSM 1.90	IN 25.78					
WTR YR 1979	TOTAL	76206	MEAN 209	MAX 2890	MIN 14	CFSM 1.60	IN 21.64					

01054500 ANDROSCOGGIN RIVER AT RUMFORD, ME

LOCATION.--Lat 44°32'33", long 70°32'50", Oxford County, Hydrologic Unit 01040002, on left bank at upper power-plant of Rumford Falls Power Co. in Rumford and 1.2 mi (1.9 km) upstream from Swift River.

DRAINAGE AREA.--2,067 mi² (5,354 km²).

PERIOD OF RECORD.--May 1892 to current year. Monthly discharge only October 1903 to September 1904, published in WSP 1301.

REVISÉD RECORDS.--WSP 1001: Drainage area.

GAGE.--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.--Discharge computed from flow over upper dam and through wheels. Flow regulated by Rangeley, Mooselookmeguntic, Richardson, Umbagog, and Azisicohos Lakes (Reservoirs in Androscoggin River basin), with final regulation at Errol Dam about 84 mi (135 km) upstream.

COOPERATION.--Records furnished by Rumford Falls Power Co.

AVERAGE DISCHARGE.--87 years, 3,721 ft³/s (105.4 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 daily discharge, 42,000 ft³/s (1,190 m³/s) Apr. 28; minimum daily, 1,090 ft³/s (30.9 m³/s) Dec. 19.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1890	1800	1840	1610	1720	1830	9510	14000	9380	2470	1860	1870
2	1960	1760	1790	2160	1720	1840	9280	10600	7810	2970	1920	1710
3	1970	1730	1530	7150	1720	1850	8030	7500	7020	2660	1980	2080
4	1930	1750	1630	4800	1750	1870	7240	9100	6530	2310	1960	1780
5	2020	1720	1940	3410	1740	1980	6890	9750	5750	2000	1870	1740
6	2050	1720	1950	2710	1710	3820	5680	8700	6450	1900	1840	2190
7	2040	1700	1870	2200	1690	12000	4490	7900	5890	1880	1810	3140
8	1940	1790	1870	2200	1790	9250	3680	7000	5260	1870	1880	2270
9	1900	1730	1930	2290	1740	6770	3300	6700	4950	1880	1770	1780
10	1870	1730	1740	1970	1670	5420	3630	5800	4630	1820	1790	1840
11	1900	1700	1320	1870	1560	4490	3550	4400	3900	1900	2030	1860
12	1910	1660	1670	1750	1630	4010	3530	4240	3680	1680	2030	1810
13	1890	1620	1750	1740	1720	3750	3870	4270	3620	1770	2460	1760
14	1930	1650	1600	1810	1700	3420	4740	4140	2760	1870	2360	1860
15	2440	1690	1510	1790	1730	3720	4940	3940	2440	1850	2100	3300
16	2230	1650	1570	1700	1620	3530	4800	3510	2550	1870	2040	2340
17	1910	1670	1580	1650	1820	3440	4650	2950	2500	1840	1960	2190
18	1780	2160	1400	1620	1710	3140	4440	2560	2440	2060	1840	1810
19	1790	2340	1090	1590	1750	3120	4860	2590	2380	2250	1900	1890
20	1860	1990	1230	1630	1790	3050	4940	2710	2330	2030	2010	1920
21	1840	1600	1530	1650	1790	3550	5650	2730	2230	1840	1970	1970
22	1750	1620	1520	1700	1770	4520	6390	2920	2300	1790	1910	2280
23	1760	1540	1480	1760	1740	7440	7180	2830	2240	1880	1880	1670
24	1810	1460	1490	1760	1740	11100	9490	3020	2280	1880	1860	1700
25	1830	1700	1480	1720	1840	21500	10300	9600	2300	1860	1900	1830
26	1830	1140	1470	1750	1900	25300	12100	14100	2160	1860	2220	1730
27	1920	1310	1490	1780	1850	15800	21200	12100	2270	1890	2070	1810
28	2300	1560	1390	1810	1840	10600	42000	9010	2250	1850	1850	1800
29	2030	1820	1360	1810	---	8750	25500	11700	2250	1860	1880	1830
30	1880	1910	1420	1800	---	7340	18000	10600	2140	1810	1910	1830
31	1890	---	1440	1720	---	8330	---	11400	---	1840	1890	---
TOTAL	60050	51220	48880	66910	48750	206530	263860	212370	114690	61240	60750	59590
MEAN	1937	1707	1577	2158	1741	6662	8795	6851	3823	1975	1960	1986
MAX	2440	2340	1950	7150	1900	25300	42000	14100	9380	2970	2460	3300
MIN	1750	1140	1090	1590	1560	1830	3300	2560	2140	1680	1770	1670

CAL YR 1978	TOTAL	1542700	MEAN	4227	MAX	20400	MIN	1090
WTR YR 1979	TOTAL	1254840	MEAN	3438	MAX	42000	MIN	1090

ANDROSCOGGIN RIVER BASIN

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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. WSP 1301: 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.--50 years, 199 ft³/s (5.64 m³/s), 28.21 in/yr (717 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)
Mar. 25	1230	5460 155	7.80 2.377	Apr. 28	0315	*10600 300	10.43 3.179

Minimum discharge, 8.9 ft³/s (0.25 m³/s) July 25, 26, gage height, 0.96 ft (0.293 m).

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	11	27	22	80	52	45	624	993	461	45	11	17
2	41	24	21	880	48	42	579	790	299	105	13	14
3	28	23	20	305	46	40	417	532	239	65	22	12
4	20	22	20	145	43	39	357	1070	190	39	23	12
5	35	21	19	100	42	70	365	666	182	29	15	11
6	48	21	19	86	40	620	293	439	338	24	13	48
7	61	21	22	78	39	1610	248	346	193	21	12	405
8	34	21	30	72	37	819	215	320	148	19	11	91
9	26	21	61	67	36	452	209	430	134	18	11	45
10	21	20	49	63	35	279	207	560	143	16	15	31
11	20	19	40	59	34	233	185	365	130	15	46	24
12	19	19	36	56	33	204	198	273	218	15	30	21
13	18	18	34	53	32	190	273	251	185	15	46	18
14	31	19	32	50	31	200	353	248	125	14	51	23
15	111	21	30	48	30	220	310	215	98	13	38	273
16	61	21	29	46	30	200	293	193	77	13	27	94
17	37	17	28	44	29	180	303	165	66	15	20	49
18	29	111	27	43	28	160	320	143	68	15	16	35
19	27	107	26	42	27	150	369	134	56	34	17	31
20	31	55	25	41	27	155	373	130	46	25	23	37
21	30	34	25	40	27	175	527	130	40	16	21	29
22	26	26	24	44	28	392	579	198	37	13	16	27
23	24	22	24	49	29	760	778	134	36	11	14	23
24	24	20	24	46	30	1100	999	132	36	10	12	20
25	23	19	23	44	35	3600	1070	986	34	9.7	16	19
26	24	19	23	43	40	2000	1390	939	30	9.3	27	18
27	53	20	23	42	55	862	4840	609	27	69	23	17
28	63	21	23	62	50	491	4960	405	25	32	51	16
29	42	22	23	71	---	357	1460	881	24	19	30	17
30	33	23	23	64	---	313	1050	614	23	14	24	18
31	28	---	24	56	---	594	---	677	---	11	22	---
TOTAL	1079	854	849	2919	1013	16552	24144	13968	3708	769.0	716	1495
MEAN	34.8	28.5	27.4	94.2	36.2	534	805	451	124	24.8	23.1	49.8
MAX	111	111	61	880	55	3600	4960	1070	461	105	51	405
MIN	11	17	19	40	27	39	185	130	23	9.3	11	11
CFSM	.36	.30	.29	.98	.38	5.57	8.40	4.71	1.29	.26	.24	.52
IN.	.42	.33	.33	1.13	.39	6.43	9.38	5.42	1.44	.30	.28	.58
CAL YR 1978	TOTAL	71659.9	MEAN 196	MAX 3820	MIN 8.9	CFSM 2.05	IN 27.83					
WTR YR 1979	TOTAL	68066.0	MEAN 186	MAX 4960	MIN 9.3	CFSM 1.94	IN 26.43					

ANDROSCOGGIN RIVER BASIN

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.--38 years, 308 ft³/s (8,723 m³/s), 24.46 in/yr (621 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)
Mar. 9	1800	2820 79.9	5.36 1.634	May 26	1900	1950 55.2	4.63 1.411
Mar. 26	1500	*3950 112	6.13 1.868	May 29	2400	2150 60.9	4.81 1.466
Apr. 29	0200	3920 111	6.11 1.862				

Minimum discharge not determined, occurred during period of back water; minimum daily, 13 ft³/s (0.368 m³/s) Oct. 1, 2, 3.

DISCHARGE, STREAM (CUBIC FEET PER SECOND), WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	13	46	55	52	230	130	1200	1280	1350	95	54	61
2	13	45	54	150	220	125	1170	1010	980	247	56	52
3	13	42	50	535	210	115	1120	823	725	253	63	48
4	14	41	50	330	195	110	1080	813	582	167	69	44
5	19	40	47	225	185	175	1090	878	461	121	84	42
6	40	39	49	185	165	265	1050	720	476	97	70	48
7	65	39	50	165	150	645	927	589	437	83	53	108
8	64	38	50	150	140	1450	771	499	352	75	46	125
9	64	38	52	140	125	2500	693	440	304	68	40	93
10	60	38	54	130	115	2420	694	386	269	61	39	72
11	57	37	54	125	105	2010	751	321	243	58	48	60
12	54	37	54	115	100	2030	760	280	229	57	57	51
13	54	35	54	110	94	1770	825	267	236	57	135	46
14	65	34	51	105	87	1110	949	312	220	54	201	44
15	116	35	48	105	84	993	943	384	195	50	145	72
16	124	34	46	100	80	872	866	363	168	49	102	109
17	99	33	44	98	78	712	808	347	135	131	78	88
18	82	61	43	96	75	602	761	299	121	122	64	70
19	73	131	42	95	74	523	764	265	113	99	65	60
20	73	118	41	93	73	504	759	244	103	82	87	54
21	72	87	42	92	74	670	738	236	93	69	109	49
22	68	67	41	92	75	1120	727	247	87	58	113	50
23	67	58	40	91	78	1600	679	245	85	51	95	49
24	60	46	41	91	83	1930	663	284	82	46	80	48
25	55	42	45	93	92	2830	628	875	77	43	71	45
26	53	40	44	96	105	3790	573	1830	72	45	62	42
27	57	38	42	100	120	3010	859	1710	68	105	57	38
28	58	40	40	115	140	1900	3040	1320	64	113	56	37
29	58	42	39	150	---	1310	3380	1860	62	86	57	41
30	54	45	38	200	---	1000	1970	2010	61	73	70	44
31	49	---	38	235	---	1050	---	1700	---	60	71	---
TOTAL	1813	1466	1438	4459	3352	39271	31238	22837	8450	2775	2397	1790
MEAN	58.5	48.9	46.4	144	120	1267	1041	737	282	89.5	77.3	59.7
MAX	124	131	55	535	230	3790	3380	2010	1350	253	201	125
MIN	13	33	38	52	73	110	573	236	61	43	39	37
CFSM	.34	.29	.27	.84	.70	7.41	6.09	4.31	1.65	.52	.45	.35
IN.	.39	.32	.31	.97	.73	8.54	6.80	4.97	1.84	.60	.52	.39

CAL YR 1978 TOTAL 114945 MEAN 315 MAX 3500 MIN 13 CFSM 1.84 IN 25.01
WTR YR 1979 TOTAL 121286 MEAN 332 MAX 3790 MIN 13 CFSM 1.94 IN 26.38

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, and period of no gage-height record July 25 to Sept. 6, 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.--58 years (water years 1914-23, 1932-79), 140 ft³/s (3.965 m³/s), 24.95 in/yr (634 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 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)
Mar. 8	0600	987 28.0	5.72 1.743	Apr. 28	0600	2960 83.8	8.34 2.542
Mar. 25	2000	2540 71.9	7.87 2.399	May 26	0600	1180 33.4	6.05 1.844

Minimum discharge not determined, minimum daily, 1.5 ft³/s (0.042 m³/s) Oct. 1.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1.5	11	15	15	71	64	523	501	425	17	10	26
2	4.5	11	15	38	65	64	526	501	297	41	8.5	18
3	8.0	11	15	320	60	59	462	355	223	96	24	11
4	6.0	10	15	262	56	56	455	545	191	85	15	9.5
5	8.5	10	14	165	52	79	474	466	155	51	11	8.5
6	14	9.6	14	118	48	210	407	333	201	37	9.5	8.0
7	25	9.6	15	92	45	725	333	252	186	29	8.8	97
8	15	10	16	75	42	925	279	212	138	24	8.4	54
9	11	10	21	60	38	723	269	199	116	21	8.0	35
10	9.0	10	24	53	36	535	271	178	104	18	12	26
11	8.0	10	21	59	34	458	271	154	96	15	33	21
12	7.8	10	19	46	32	405	289	135	92	13	26	18
13	7.5	9.6	17	42	31	304	365	132	138	12	30	15
14	13	9.4	16	40	30	272	455	161	98	11	100	14
15	47	9.6	15	38	28	298	396	170	76	10	50	107
16	34	9.6	14	37	27	248	355	150	63	10	20	71
17	25	9.2	14	35	26	214	349	135	53	13	17	46
18	19	30	16	34	25	188	352	110	46	24	15	34
19	17	58	17	33	24	172	410	105	42	29	20	28
20	17	38	16	32	23	176	417	99	38	24	58	23
21	18	29	15	32	22	263	451	105	32	18	40	20
22	17	21	14	33	22	472	466	125	28	15	30	21
23	15	17	13	37	22	740	414	106	26	12	24	21
24	13	16	13	42	23	960	482	116	26	11	20	18
25	12	15	13	40	26	1830	428	553	25	10	17	16
26	13	15	13	39	33	1830	389	1010	22	9.6	15	15
27	14	14	15	43	47	1000	1030	624	19	9.2	13	13
28	16	15	15	52	59	612	2510	415	18	34	12	13
29	15	16	13	65	---	459	1140	636	17	21	15	13
30	14	15	12	80	---	372	658	636	17	16	11	17
31	12	---	12	78	---	501	---	560	---	12	10	---
TOTAL	456.8	468.6	477	2135	1047	15214	15626	9779	3008	747.8	691.2	837.0
MEAN	14.7	15.6	15.4	68.9	37.4	491	521	315	100	24.1	22.3	27.9
MAX	47	58	24	320	71	1830	2510	1010	425	96	100	107
MIN	1.5	9.2	12	15	22	56	269	99	17	9.2	8.0	8.0
CFSM	.19	.21	.20	.90	.49	6.44	6.84	4.13	1.31	.32	.29	.37
IN.	.22	.23	.23	1.04	.51	7.43	7.63	4.77	1.47	.37	.34	.41

CAL YR 1978	TOTAL	45386.9	MEAN 124	MAX 1820	MIN 1.4	CFSM 1.63	IN 22.16
WTR YR 1979	TOTAL	50487.4	MEAN 138	MAX 2510	MIN 1.5	CFSM 1.81	IN 24.65

ANDROSCOGGIN RIVER BASIN

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.--39 years, 577 ft³/s (16.34 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) Mar. 27, gage height, 8.80 ft (2.682 m); minimum daily, 33 ft³/s (0.93 m³/s) Oct. 4, 11.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	38	61	96	74	315	280	2350	2980	2220	181	172	109
2	37	61	71	167	290	275	2370	2150	1910	270	171	103
3	36	61	71	439	275	265	2270	1790	1590	348	194	104
4	33	63	72	469	255	290	2070	1650	1340	316	172	98
5	36	61	71	487	235	345	1980	1660	964	282	165	95
6	41	61	69	410	220	510	1930	1580	874	236	159	105
7	43	60	69	345	205	1370	1750	1370	862	203	147	125
8	37	58	87	315	190	2140	1530	1190	733	185	145	234
9	36	58	72	280	180	2660	1390	1070	629	196	137	221
10	36	57	77	255	170	2590	1370	965	557	160	139	191
11	33	57	74	225	160	2360	1430	865	510	150	151	139
12	36	55	74	205	150	2080	1410	785	476	155	131	135
13	37	52	72	190	145	1880	1420	720	433	147	170	130
14	43	52	74	180	140	1620	1510	722	425	131	206	142
15	52	51	71	170	135	1490	1570	702	392	125	257	183
16	49	51	67	160	130	1320	1520	704	340	126	223	143
17	57	49	71	155	125	1250	1440	703	305	143	200	143
18	88	77	75	150	120	1090	1380	661	287	149	183	142
19	154	83	71	145	115	991	1350	612	275	160	167	144
20	88	90	75	145	115	978	1360	579	259	155	164	138
21	60	111	66	145	110	1200	1360	560	245	146	153	131
22	54	98	61	150	110	1560	1350	547	193	138	152	137
23	57	88	74	155	110	2090	1340	552	206	129	161	130
24	72	85	55	165	120	2790	1290	573	211	127	143	125
25	61	90	67	175	145	3810	1260	1110	192	130	136	125
26	45	82	67	185	180	5050	1120	1890	177	127	127	116
27	60	75	66	195	210	5580	1390	2290	168	141	117	128
28	63	90	64	225	245	4330	3050	2210	170	142	114	124
29	61	64	64	275	---	3240	4460	2380	166	150	112	129
30	60	69	64	335	---	2600	4130	2480	156	178	128	112
31	60	---	64	335	---	2350	---	2500	---	187	115	---
TOTAL	1663	2070	2191	7306	4900	60384	54150	40550	17265	5413	4911	4081
MEAN	53.6	69.0	70.7	236	175	1948	1805	1308	576	175	158	136
MAX	154	111	96	487	315	5580	4460	2980	2220	348	257	234
MIN	33	49	55	74	110	265	1120	547	156	125	112	95
CAL YR 1978	TOTAL	198027	MEAN 543	MAX 3530	MIN 33							
WTR YR 1979	TOTAL	204884	MEAN 561	MAX 5580	MIN 33							

ANDROSCOGGIN RIVER BASIN

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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 regulation by Rangeley, Mooselookmeguntic, Richardson, Umbagog, Aziscohos, 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.--51 years, 6,176 ft³/s (174.9 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, 53,300 ft³/s (1,510 m³/s) Apr. 29, gage height, 15.33 ft (4.673 m); minimum daily, 570 ft³/s (16.1 m³/s) Oct. 8.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	825	2520	2040	1090	4160	3100	18300	28700	20000	724	2650	2210
2	1950	2650	1620	2220	3300	2830	19100	23700	16200	1060	2960	1870
3	2740	2830	1100	5190	2690	2350	18000	19000	14000	4500	2940	1910
4	2810	1810	1980	8300	1620	2100	16400	16700	12500	4400	1810	2500
5	2890	1220	2030	6750	2410	4000	15800	18400	11100	4290	1500	2410
6	2930	2220	2280	5640	2800	4700	15000	17000	10600	4300	2540	2520
7	1540	2330	2500	4010	2770	8640	13200	14900	11000	1700	2520	2750
8	570	2340	2600	4350	2760	23300	11200	13700	9380	675	2510	2480
9	2020	2270	1800	4290	2870	20300	10300	12600	8650	2740	2460	1420
10	2730	2250	1320	3840	2660	16700	9380	11900	7750	3100	2490	2740
11	2810	986	2260	3150	1850	14300	10000	10500	7550	3010	1600	2920
12	2770	586	2290	2880	2470	12700	9480	8780	6950	3000	1460	2660
13	2760	1890	1880	2570	2790	11200	9780	8310	6750	2880	2780	2920
14	1710	2380	1910	1530	2690	9890	11000	8780	6130	1690	3180	2960
15	1200	2270	2150	2220	2680	8920	11900	8290	4700	1450	3430	1710
16	2700	2250	1590	2430	2660	9240	11600	7800	3830	2440	3590	2220
17	2910	2390	1050	2420	2270	8290	11300	7420	3550	2740	3450	3240
18	3210	1850	1970	2500	2220	7800	10700	7040	4070	2840	2090	3060
19	2950	942	2510	2460	2640	6420	10500	5680	4320	2830	1520	3100
20	2180	2820	2350	2160	2700	6940	10900	4940	4580	2920	2700	3010
21	2730	2780	2300	1460	2620	7670	10800	4980	4480	1930	2900	2760
22	1150	3700	2220	2490	2580	10000	11900	5140	4430	1510	2750	1710
23	2520	1570	1200	3020	2520	15000	12100	4270	3820	2350	3000	1520
24	2620	1440	1060	2770	2090	29000	13300	4240	1300	2560	2400	2530
25	2360	1490	1060	2540	1680	39500	15200	8630	2940	2720	1570	2560
26	2360	1100	1940	2730	2450	48000	15800	22000	3850	2630	1430	2500
27	2750	2170	1930	2650	2860	41300	23100	23500	3750	2410	2680	2440
28	1490	2370	1930	1620	3120	29300	47600	20000	3750	1640	3050	2440
29	1120	2290	1870	2570	---	21700	48600	19000	3690	1500	3320	1520
30	2240	2110	1430	4190	---	17600	36100	23000	2290	2430	3310	787
31	2520	---	1030	4310	---	17000	---	21000	---	2600	3060	---
TOTAL	70065	61824	57200	100350	72930	459790	488340	409900	207910	77569	79650	71377
MEAN	2260	2061	1845	3237	2605	14830	16280	13220	6930	2502	2569	2379
MAX	3210	3700	2600	8300	4160	48000	48600	28700	20000	4500	3590	3240
MIN	570	586	1030	1090	1620	2100	9380	4240	1300	675	1430	787

CAL YR 1978 TOTAL 2397289 MEAN 6568 MAX 34200 MIN 570
WTR YR 1979 TOTAL 2156905 MEAN 5909 MAX 48600 MIN 570

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, 221 micromhos Dec. 20; minimum, 37 micromhos Apr. 29, 30.

WATER TEMPERATURES: Maximum, 29.5°C Aug. 5; minimum, 0.0°C on many days during winter periods.

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979

DATE	TIME	STREAM- FLOW, INSTAN- TANEOUS (CFS)	SPE- CIFIC CON- DUCT- ANCE (MICRO- MHOS)	PH (UNITS)	TEMPER- ATURE, AIR (DEG C)	TEMPER- ATURE (DEG C)	TUR- BID- ITY (NTU)	OXYGEN, DIS- SOLVED (MG/L)	OXYGEN, DIS- SOLVED CENT SATUR- ATION	COLI- FORM, FECAL, 0.7 UM-MF (COLS./ 100 ML)	STREP- TOCOCCI FECAL, KF AGAR (COLS. PER 100 ML)
OCT											
11...	1230	2980	160	6.8	11.5	11.5	3.0	10.3	94	440	K27
NOV											
15...	1130	2440	190	6.9	7.0	6.0	4.0	11.9	95	210	K13
JAN											
15...	1045	2320	140	6.7	-2.0	.0	3.0	8.4	57	190	K20
MAR											
08...	1100	24400	135	6.6	7.0	.0	15	13.4	92	2700	2000
27...	1230	46900	44	6.4	1.5	1.0	15	14.2	100	K1300	140
APR											
25...	0945	14600	72	6.6	16.5	8.5	4.0	10.8	92	100	K40
MAY											
22...	1630	5170	130	6.8	16.0	16.5	.00	9.5	96	110	K20
JUN											
20...	1130	4640	90	7.0	28.0	21.5	2.0	8.5	96	230	K90
JUL											
17...	1515	3120	100	7.4	26.0	24.0	3.0	9.0	106	200	K95
AUG											
22...	1430	2390	149	7.0	22.0	20.5	4.0	9.4	103	260	K70
SEP											
25...	1130	2750	155	7.1	16.0	16.5	3.0	9.5	96	K440	100

DATE	HARD- NESS (MG/L AS CAC03)	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)	CARBON DIOXIDE DIS- SOLVED (MG/L AS CO2)
OCT											
11...	22	7	7.0	1.1	20	64	1.9	--	1.6	15	--
NOV											
15...	23	10	7.4	1.1	22	66	2.0	--	1.7	13	--
JAN											
15...	25	11	7.6	1.5	13	51	1.1	--	1.4	14	--
MAR											
08...	18	3	5.6	.9	14	61	1.4	--	1.2	15	--
27...	9	3	2.9	.5	3.3	41	.5	--	.7	6	--
APR											
25...	13	0	4.2	.7	7.2	52	.9	--	.9	14	--
MAY											
22...	15	1	4.5	.8	8.6	55	1.0	--	.8	14	--
JUN											
20...	16	0	4.9	.9	9.4	54	1.0	--	.9	16	--
JUL											
17...	17	3	5.4	.9	11	56	1.2	12	1.0	14	1.1
AUG											
22...	20	4	6.5	1.0	19	65	1.8	20	1.4	16	3.1
SEP											
25...	21	9	6.8	1.0	19	64	1.8	21	1.6	12	--

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979

[illegible]

ANDROSCOGGIN RIVER BASIN

01059400 ANDROSCOGGIN RIVER AT BRUNSWICK, ME--Continued

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979

DATE	COBALT, SUS- PENDED RECov- ERABLE (UG/L AS CO)	COBALT, DIS- SOLVED (UG/L AS CO)	COPPER, TOTAL RECov- ERABLE (UG/L AS CU)	COPPER, SUS- PENDED RECov- ERABLE (UG/L AS CU)	COPPER, DIS- SOLVED (UG/L AS CU)	IRON, TOTAL RECov- ERABLE (UG/L AS FE)	IRON, SUS- PENDED RECov- ERABLE (UG/L AS FE)	IRON, DIS- SOLVED (UG/L AS FE)	LEAD, TOTAL RECov- ERABLE (UG/L AS PB)	LEAD, SUS- PENDED RECov- ERABLE (UG/L AS PB)	LEAD, DIS- SOLVED (UG/L AS PB)
OCT 11...	--	--	--	--	--	--	--	--	--	--	--
NOV 15...	0	0	5	0	7	500	260	240	9	0	14
JAN 15...	--	--	--	--	--	--	--	--	--	--	--
MAR 08...	3	1	5	2	3	1100	920	180	8	0	8
MAR 27...	--	--	--	--	--	--	--	--	--	--	--
APR 25...	--	--	--	--	--	--	--	--	--	--	--
MAY 22...	1	1	3	0	3	350	210	140	10	1	9
JUN 20...	--	--	--	--	--	--	--	--	--	--	--
JUL 17...	--	--	--	--	--	--	--	--	--	--	--
AUG 22...	0	1	36	0	36	820	560	260	17	12	5
SEP 25...	--	--	--	--	--	--	--	--	--	--	--

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)	SELE- NIUM, TOTAL (UG/L AS SE)	SELE- NIUM, SUS- PENDED TOTAL (UG/L AS SE)	SELE- NIUM, DIS- SOLVED (UG/L AS SE)	SILVER, TOTAL RECov- ERABLE (UG/L AS AG)	SILVER, SUS- PENDED RECov- ERABLE (UG/L AS AG)
OCT 11...	--	--	--	--	--	--	--	--	--	--	--
NOV 15...	70	0	70	<.5	.0	<.5	0	0	0	0	0
JAN 15...	--	--	--	--	--	--	--	--	--	--	--
MAR 08...	140	70	70	<.5	.0	<.5	0	0	0	0	0
MAR 27...	--	--	--	--	--	--	--	--	--	--	--
APR 25...	--	--	--	--	--	--	--	--	--	--	--
MAY 22...	50	10	40	<.5	.0	<.5	0	0	0	0	0
JUN 20...	--	--	--	--	--	--	--	--	--	--	--
JUL 17...	--	--	--	--	--	--	--	--	--	--	--
AUG 22...	120	70	50	<.5	<.0	<.5	0	0	0	1	1
SEP 25...	--	--	--	--	--	--	--	--	--	--	--

DATE	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 TOTAL (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 11...	--	--	--	--	8.0	--	--	11	89	79
NOV 15...	0	0	0	--	--	23	1.0	4	26	100
JAN 15...	--	--	--	--	10	--	--	10	63	100
MAR 08...	0	20	20	0	--	200	--	110	7250	62
MAR 27...	--	--	--	--	6.9	--	--	142	18000	29
APR 25...	--	--	--	--	7.4	--	--	4	158	100
MAY 22...	0	20	10	7	--	630	.4	6	84	100
JUN 20...	--	--	--	--	4.9	--	--	5	63	100
JUL 17...	--	--	--	--	2.1	--	--	3	25	100
AUG 22...	0	20	10	10	--	133	.7	7	45	75
SEP 25...	--	--	--	--	7.4	--	--	3	22	100

01059400 ANDROSCOGGIN RIVER AT BRUNSWICK, ME--Continued

PHYTOPLANKTON ANALYSES, OCTOBER 1978 TO SEPTEMBER 1979

DATE TIME	NOV 15,78 1130	MAR 27,79 1230	MAY 22,79 1630	JUN 20,79 1130
TOTAL CELLS/ML	22000	1300	2200	9100
DIVERSITY: DIVISION	0.4	0.6	0.5	0.6
..CLASS	0.4	0.6	0.5	0.6
...ORDER	1.2	1.3	0.6	0.9
...FAMILY	1.3	2.8	0.7	1.0
....GENUS	1.6	3.1	0.7	1.1

ORGANISM	CELLS /ML	PER- CENT	CELLS /ML	PER- CENT	CELLS /ML	PER- CENT	CELLS /ML	PER- CENT
CHLOROPHYTA (GREEN ALGAE)								
..CHLOROPHYCEAE								
...CHLOROCOCCALES								
...COELASTRACEAE								
....COELASTRUM	--	-	--	-	--	-	--	-
...HYDRODICTYACEAE								
....PEDIASTRUM	180	1	--	-	100	5	--	-
...MICRACTINIACEAE								
....GOLENKINIA	--	-	--	-	13	1	78	1
...MICRACTINIUM	*	0	--	-	--	-	170	2
...OOCYSTACEAE								
....ANKISTRODESMUS	--	-	--	-	13	1	78	1
...DICTYOSPHAERIUM	--	-	--	-	26	1	--	-
...KIRCHNERIELLA	--	-	--	-	--	-	--	-
...OOCYSTIS	*	0	--	-	--	-	--	-
...SELENASTRUM	--	-	--	-	--	-	--	-
...TETRAEDRON	--	-	--	-	--	-	*	0
...WESTELLA	--	-	--	-	--	-	--	-
...SCENEDESMACEAE								
....CRUCIGENIA	--	-	--	-	--	-	--	-
...SCENEDESMUS	*	0	110	9	--	-	52	1
...TETRASTRUM	--	-	--	-	--	-	52	1
...TETRASPORALES								
...COCCOMYXACEAE								
...ELAKATOTHRIS	--	-	--	-	--	-	*	0
...PALMELLACEAE								
...SPHAEROCYSTIS	--	-	--	-	--	-	--	-
...VOLVOCELES								
...CHLAMYDOMONADACEAE								
...CHLAMYDOMONAS	--	-	--	-	26	1	130	1
...VOLVOCEAEAE								
...EUDORINA	--	-	--	-	--	-	--	-
...GONIUM	--	-	--	-	--	-	--	-
CHRYSTOPHYTA								
..BACILLARIOPHYCEAE								
...CENTRALES								
...COSCINODISCACEAE								
...CYCLOTELLA	490	2	280#	22	--	-	*	0
...MELOSIRA	--	-	47	4	--	-	120	1
...PENNALES								
...ACHNANTHACEAE								
...COCCONEIS	--	-	19	2	--	-	--	-
...CYMBELLACEAE								
...CYMBELLA	--	-	66	5	--	-	--	-
...EUNOTIACEAE								
...EUNOTIA	*	0	--	-	--	-	--	-
...FRAGILARIACEAE								
...ASTERIONELLA	--	-	9	1	--	-	100	1
...FRAGILARIA	--	-	170	14	--	-	--	-
...HANNAEA	*	0	--	-	--	-	--	-
...SYNEORA	*	0	19	2	--	-	*	0
...GOMPHONEMATACEAE								
...GOMPHONEMA	*	0	85	7	--	-	--	-
...NAVICULACEAE								
...NAVICULA	110	1	240#	19	--	-	--	-
...STAURONEIS	*	0	--	-	--	-	--	-
...NITZSCHIA								
...NITZSCHIA	*	0	190#	15	26	1	*	0
...SURIARELLACEAE								
...SURIARELLA	--	-	--	-	13	1	--	-
...TABELLARIACEAE								
...TABELLARIA	--	-	--	-	--	-	--	-
...XANTHOPHYCEAE								
...METEROCOCCALES								
...CENTRITRACTACEAE								
...CENTRITRACTUS	--	-	--	-	--	-	--	-
CRYPTOPHYTA (CRYPTOMONADS)								
..CRYPTOPHYCEAE								
...CRYPTOMONADALES								
...CRYPTOCHRYSIDACEAE								
...CHROOMONAS	--	-	--	-	--	-	*	0
...CRYPTOMONADACEAE								
...CRYPTOMONAS	*	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 1978 TO SEPTEMBER 1979

DATE TIME	NOV 15,78 1130		MAR 27,79 1230		MAY 22,79 1630		JUN 20,79 1130	
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	5500#	26	--	-	--	-	320	4
....GOMPHOSPHAERIA	--	-	--	-	--	-	--	-
..HORMOGONALES								
...NOSTOCACEAE								
....ANABAENA	--	-	--	-	--	-	--	-
...OSCILLATORIAEAE								
....LYNGBYA	1400	7	--	-	--	-	--	-
....OSCILLATORIA	13000#	62	--	-	1900#	90	7800#	86
...RIVULARIACEAE								
....RAPHIIDIOPSIS	--	-	--	-	--	-	--	-
EUGLENOPHYTA (EUGLENOIDS)								
..EUGLENOPHYCEAE								
...EUGLENALES								
...EUGLENACEAE								
....EUGLENA	--	-	9	1	--	-	--	-
....TRACHELOMONAS	*	0	9	1	--	-	--	-
PYRRHOPHYTA (FIRE ALGAE)								
..DINOPHYCEAE								
...GYMNODINIALES								
...GYMNODINIACEAE								
....GYMNODINIUM	--	-	--	-	--	-	*	0
...PERIDINIALES								
...GLENODINIACEAE								
....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 1978 TO SEPTEMBER 1979

DATE TIME	JUL 17,79 1515	AUG 22,79 1430	SEP 25,79 1130
TOTAL CELLS/ML	43000	15000	13000
DIVERSITY: DIVISION	1.0	0.5	0.9
..CLASS	1.0	0.5	0.9
...ORDER	1.5	0.7	1.4
...FAMILY	1.8	0.8	1.6
....GENUS	2.4	0.9	1.8

ORGANISM	CELLS /ML	PER- CENT	CELLS /ML	PER- CENT	CELLS /ML	PER- CENT
CHLOROPHYTA (GREEN ALGAE)						
..CHLOROPHYCEAE						
...CHLOROCOCCALES						
...COELASTRACEAE						
....COELASTRUM	* 0	--	--	--	--	--
...HYDRODICTYACEAE						
....PEDIATRUM	700	2	310	2	100	1
...MICRACTINIACEAE						
....GOLENKINIA	--	--	* 0	--	* 0	--
...MICRACTINIUM	350	1	--	--	210	2
...OOCYSTACEAE						
....ANKISTRODESMUS	280	1	150	1	190	2
...DICTYOSPHAERIUM	1000	2	120	1	170	1
...KIRCHNERIELLA	* 0	--	--	--	--	--
...OOCYSTIS	* 0	--	--	--	* 0	--
...SELENASTRUM	380	1	--	--	--	--
...TETRAEDRON	--	--	* 0	--	* 0	--
...WESTELLA	--	--	100	1	--	--
...SCENEDESMACEAE						
....CRUCIGENIA	1500	4	210	1	1300	10
...SCENEDESMUS	630	1	--	--	280	2
...TETRASTRUM	380	1	--	--	* 0	--
...TETRASPORALES						
...COCCOMYXACEAE						
...ELAKATOTHRIX	--	--	--	--	--	--
...PALMELLACEAE						
...SPHAEROCYSTIS	770	2	--	--	--	--
...VOLVOCALES						
...CHLAMYDOMONADACEAE						
....CHLAMYDOMONAS	* 0	--	* 0	--	90	1
...VOLVOCAEAE						
...EUDORINA	730	2	--	--	--	--
...GONIUM	560	1	--	--	--	--
CHRYSTOPHYTA						
..BACILLARIOPHYCEAE						
...CENTRALES						
...COSCINODISCAEAE						
....CYCLOTELLA	590	1	* 0	--	220	2
...MELOSIRA	800	2	90	1	65	1
...PENNALES						
...ACHNANTHACEAE						
....COCCONEIS	--	--	--	--	--	--
...CYMBELLACEAE						
....CYMBELLA	* 0	--	--	--	--	--
...EUNOTIACEAE						
....EUNOTIA	--	--	--	--	--	--
...FRAGILARIACEAE						
....ASTERIONELLA	380	1	* 0	--	--	--
...FRAGILARIA	--	--	--	--	--	--
...HANNAEA	--	--	--	--	--	--
...SYNEDRA	--	--	--	--	--	--
...GOMPHONEMACEAE						
....GOMPHONEMA	* 0	--	--	--	--	--
...NAVICULACEAE						
....NAVICULA	--	--	--	--	--	--
...STAURONEIS	--	--	--	--	--	--
...NITZSCHIAEAE						
....NITZSCHIA	450	1	* 0	--	* 0	--
...SURIARELLACEAE						
....SURIARELLA	--	--	--	--	--	--
...TABELLARIACEAE						
....TABELLARIA	* 0	--	--	--	--	--
...XANTHOPHYCEAE						
...HETEROCOCCALES						
...CENTRITRACTACEAE						
....CENTRITRACTUS	* 0	--	--	--	--	--
CRYPTOPHYTA (CRYPTOMONADS)						
..CRYPTOPHYCEAE						
...CRYPTOMONADALES						
....CRYPTOCHRYSIDACEAE						
...CHROOMONAS	--	--	--	--	--	--
...CRYPTOMONADACEAE						
....CRYPTOMONAS	--	--	* 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 1978 TO SEPTEMBER 1979

DATE TIME	JUL 17, 79 1515		AUG 22, 79 1430		SEP 25, 79 1130	
ORGANISM	CELLS /ML	PER- CENT	CELLS /ML	PER- CENT	CELLS /ML	PER- CENT
CYANOPHYTA (BLUE-GREEN ALGAE)						
..CYANOPHYCEAE						
...CHROOCOCCALES						
...CHROOCOCCACEAE						
....ANACYSTIS	27000#	62	610	4	1300	10
....GOMPHOSPHERIA	4200	10	--	-	--	-
..HORMOGONALES						
...NOSTOCACEAE						
....ANABAENA	1500	3	--	-	--	-
...OSCILLATORIAEAE						
....LYNGBYA	--	-	--	-	--	-
....OSCILLATORIA	--	-	14000#	88	8600#	68
...RIVULARIAEAE						
....RAPHIDIOPSIS	--	-	--	-	*	0
EUGLENOPHYTA (EUGLENOIDS)						
..EUGLENOPHYCEAE						
...EUGLENALES						
...EUGLENACEAE						
....EUGLENA	--	-	--	-	--	-
....TRACHELOMONAS	--	-	*	0	--	-
PYRRHOPHYTA (FIRE ALGAE)						
..DINOPHYCEAE						
...GYMNODINIALES						
...GYMNODINIACEAE						
....GYMNODINIUM	--	-	--	-	--	-
..PERIDINIALES						
...GLENODINIACEAE						
....GLENODINIUM	--	-	--	-	--	-

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

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

BIOLOGICAL DATA, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979

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 13 TO OCT 11	28	---	---	1.54	.240	---
JUN 20 TO JUL 17	27	2.60	1.97	3.46	.550	182
JUL 17 TO AUG 22	36	1.02	.710	5.04	6.78	61.5

ANDROSCOGGIN RIVER BASIN

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01059400 ANDROSCOGGIN RIVER AT BRUNSWICK, ME--Continued

SPECIFIC CONDUCTANCE (MICROMHOS/CM AT 25 DEG. C), WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
OCTOBER			NOVEMBER			DECEMBER			JANUARY			
1	---	---	---	170	166	167	203	202	203	217	211	213
2	---	---	---	171	166	169	209	201	205	214	200	210
3	---	---	---	175	172	174	207	201	204	199	183	192
4	---	---	---	177	174	175	201	199	200	205	184	198
5	---	---	---	181	177	180	198	194	195	205	195	199
6	---	---	---	183	180	181	193	191	192	203	195	198
7	---	---	---	186	182	184	200	190	195	205	204	204
8	---	---	---	187	182	185	202	200	201	206	187	198
9	---	---	---	184	172	182	204	201	202	184	168	179
10	---	---	---	186	183	184	210	204	207	166	149	156
11	---	---	---	187	184	186	215	210	213	148	142	144
12	---	---	---	188	186	187	219	215	217	142	138	140
13	---	---	---	190	187	188	219	214	217	138	137	138
14	---	---	---	195	189	191	213	210	211	138	136	137
15	---	---	---	199	189	194	210	208	209	140	136	137
16	---	---	---	189	188	189	208	207	208	139	136	138
17	---	---	---	193	189	191	211	208	210	143	140	141
18	---	---	---	194	191	193	211	210	210	149	143	147
19	---	---	---	195	194	195	215	208	209	153	150	151
20	---	---	---	195	195	195	221	213	218	154	153	154
21	---	---	---	203	194	198	212	204	207	160	153	155
22	---	---	---	203	202	203	204	202	203	160	157	158
23	---	---	---	205	203	205	204	202	203	173	157	162
24	---	---	---	205	203	204	204	202	203	176	173	174
25	---	---	---	203	203	203	211	204	206	178	174	175
26	---	---	---	204	202	203	209	205	206	178	176	177
27	159	157	158	213	204	206	209	207	208	177	171	174
28	159	157	158	219	214	218	208	206	207	175	171	174
29	161	158	159	216	205	209	209	207	208	179	174	177
30	163	160	162	208	203	204	211	209	210	182	175	179
31	170	162	166	---	---	---	213	211	212	176	174	175
MONTH	170	157	161	219	166	191	221	190	206	217	136	169
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
FEBRUARY			MARCH			APRIL			MAY			
1	174	170	172	195	190	193	97	51	70	41	39	40
2	170	169	169	191	186	188	97	96	97	45	41	43
3	169	168	168	187	181	184	98	97	98	47	43	46
4	168	167	167	185	180	183	100	54	73	49	46	48
5	167	165	166	180	173	178	---	---	---	50	49	50
6	167	165	165	173	156	167	---	---	---	54	51	52
7	169	167	168	154	126	134	---	---	---	55	52	54
8	169	166	168	150	125	138	---	---	---	54	52	53
9	166	164	165	141	107	126	---	---	---	57	52	54
10	165	164	164	104	85	92	---	---	---	58	55	57
11	168	165	167	83	81	82	---	---	---	59	57	58
12	169	167	168	81	73	79	---	---	---	61	59	60
13	173	170	171	81	72	77	---	---	---	63	60	62
14	175	173	174	81	79	80	---	---	---	64	63	64
15	176	174	175	81	77	80	---	---	---	65	64	65
16	174	173	173	84	75	80	---	---	---	69	65	67
17	174	172	173	84	82	83	---	---	---	74	68	71
18	173	172	173	87	82	85	---	---	---	73	71	72
19	174	172	173	88	86	87	---	---	---	74	73	73
20	175	173	174	86	84	85	---	---	---	74	72	73
21	176	175	176	99	80	84	---	---	---	75	73	74
22	181	176	179	81	78	79	---	---	---	77	75	76
23	186	181	184	81	77	79	---	---	---	77	75	76
24	192	186	190	77	72	76	---	---	---	78	76	77
25	188	179	184	71	61	66	---	---	---	78	76	77
26	181	177	179	60	48	53	61	59	60	84	77	80
27	178	176	177	46	41	43	58	52	56	84	67	78
28	190	177	180	43	41	42	53	44	50	65	50	55
29	---	---	---	46	43	45	43	37	39	52	49	50
30	---	---	---	48	46	47	40	37	39	50	49	49
31	---	---	---	51	48	50	---	---	---	52	50	51
MONTH	192	164	173	195	41	99	100	37	65	84	39	61

01059400 ANDROSCOGGIN RIVER AT BRUNSWICK, ME--Continued

SPECIFIC CONDUCTANCE (MICROMHOS/CM AT 25 DEG. C), WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
	JUNE			JULY			AUGUST			SEPTEMBER		
1	51	48	49	---	---	---	159	155	157	152	149	150
2	52	48	50	---	---	---	157	155	156	160	152	156
3	51	49	50	---	---	---	167	158	163	164	160	162
4	52	49	51	---	---	---	167	163	165	168	164	166
5	54	51	53	---	---	---	165	163	164	166	162	164
6	58	53	56	---	---	---	164	161	162	163	157	160
7	60	56	58	---	---	---	160	158	159	158	155	156
8	62	58	60	---	---	---	164	159	161	154	153	153
9	63	60	61	---	---	---	165	161	164	156	154	155
10	65	62	63	---	---	---	166	165	166	155	151	154
11	66	63	65	---	---	---	167	166	166	154	150	152
12	68	66	67	---	---	---	167	166	166	151	149	150
13	70	67	69	---	---	---	165	160	162	153	149	151
14	71	68	69	---	---	---	161	154	157	154	152	153
15	73	69	71	---	---	---	165	155	161	152	150	151
16	76	71	74	---	---	---	170	165	168	151	149	150
17	78	74	76	---	---	---	174	170	172	149	137	141
18	79	76	77	97	92	95	172	170	171	145	139	142
19	82	79	81	101	96	98	169	165	167	147	145	146
20	83	80	82	110	100	105	165	157	162	154	145	149
21	85	82	83	120	110	115	157	147	153	161	154	158
22	89	84	86	127	121	124	150	147	148	157	155	156
23	94	89	92	137	127	131	150	148	150	157	156	157
24	98	94	96	144	138	141	149	147	148	158	154	156
25	---	---	---	146	142	144	149	146	148	157	155	156
26	97	88	93	149	145	147	149	147	148	157	156	157
27	101	96	99	153	149	151	149	146	147	158	153	156
28	105	101	103	155	154	154	148	147	148	154	152	153
29	109	105	108	158	154	155	149	147	148	157	152	154
30	110	109	110	158	154	156	149	145	147	160	158	159
31	---	---	---	159	158	159	149	146	147	---	---	---
MONTH	110	48	74	159	92	134	174	145	158	168	137	154
YEAR	221	37	140									

TEMPERATURE, WATER (DEG. C), WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979

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

ANDROSCOGGIN RIVER BASIN

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, N.H., 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 1978 TO SEPTEMBER 1979

DATE	RANGELEY LAKE	MOOSELOOKMEGUNTIC LAKE	UPPER AND LOWER RICHARDSON LAKES	AZISCOHOS LAKE
SEPT. 30, 1978	780	2940	4417	5059
OCT. 31	516	404	3806	5428
NOV. 30	224	93	2140	5793
DEC. 31	194	0	512	5202
JAN. 31, 1979	462	341	588	5098
FEB. 28	392	62	441	2945
MAR. 31	1229	2363	2175	4735
APR. 30	1674	7080	4937	8890
MAY 31	1437	8370	5614	9980
JUNE 30	1185	7795	5012	8860
JULY 31	964	6438	4472	7660
AUG. 31	696	4953	3603	6520
SEPT. 30	572	2097	4602	6576

DATE	UMBAGOG LAKE	GULF ISLAND POND	LAKE AUBURN	THOMPSON LAKE
SEPT. 30, 1978	1488	2230	290	1533
OCT. 31	1488	2432	250	1495
NOV. 30	648	2316	220	1457
DEC. 31	662	2295	200	1476
JAN. 31, 1979	732	2480	290	1609
FEB. 28	746	2326	300	1609
MAR. 31	1108	2484	592	1913
APR. 30	1939	2478	652	1932
MAY 31	2670	2475	652	1932
JUNE 30	2573	2400	532	1875
JULY 31	1848	2401	485	1894
AUG. 31	1740	2158	419	1856
SEPT. 30	1776	2469	364	1742

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

169

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. No gage-height record July 18 to Sept. 30. Several observations of water temperature and specific conductance were made during the year.

AVERAGE DISCHARGE.--15 years, 28.3 ft³/s (0.801 m³/s), 27.65 in/yr (702 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 maximum (*):

Date	Time	Discharge (ft ³ /s) (m ³ /s)	Gage height (ft) (m)	Date	Time	Discharge (ft ³ /s) (m ³ /s)	Gage height (ft) (m)
Jan. 3	0315	194 5.49	1.98 0.604	Mar. 25	1445	270 7.65	2.20 0.671
Feb. 24	1845	460 13.0	2.60 0.792	Apr. 28	0115	*737 20.9	3.00 0.914
Mar. 7	0800	266 7.53	2.19 0.668	May 25	2230	290 8.21	2.25 0.686
Mar. 21	1815	191 5.41	1.97 0.600				

Minimum daily discharge, 12 ft³/s (0.340 m³/s) Nov. 22, Dec. 27, Aug. 6-9.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	14	14	14	19	20	22	54	47	46	56	14	17
2	15	14	13	55	19	20	54	40	38	47	15	16
3	14	13	13	113	19	19	95	35	35	49	14	15
4	14	13	13	80	18	18	58	52	32	26	13	14
5	18	13	13	58	18	26	61	40	31	21	13	15
6	23	14	13	42	18	100	56	34	33	20	12	25
7	17	14	13	34	18	233	45	32	29	18	12	30
8	15	14	16	30	18	204	39	32	27	18	12	24
9	15	13	18	45	17	101	38	32	27	17	12	20
10	15	13	17	30	17	67	50	30	27	16	13	18
11	14	14	16	25	17	59	52	29	25	16	20	16
12	15	13	15	21	17	53	46	28	27	16	28	15
13	14	13	15	19	17	48	43	29	25	15	42	15
14	19	13	13	17	17	43	41	29	23	16	30	17
15	21	13	14	16	17	51	39	31	21	16	23	21
16	16	13	13	15	17	54	39	31	20	17	19	19
17	15	14	15	15	17	31	37	32	19	38	16	17
18	15	20	16	14	17	25	34	29	19	26	17	16
19	15	14	17	14	17	28	34	28	18	22	24	14
20	17	14	16	13	17	40	34	27	17	18	25	15
21	16	13	15	13	17	107	31	27	17	16	23	17
22	15	12	14	13	17	103	30	26	18	15	21	27
23	15	23	13	13	16	99	28	23	18	14	19	24
24	15	14	13	13	140	110	27	41	17	14	17	21
25	14	16	22	13	170	216	26	159	17	18	16	19
26	15	36	14	15	70	138	25	141	16	19	16	17
27	18	85	12	20	40	67	207	64	15	18	15	15
28	15	89	15	27	29	50	436	68	16	16	17	15
29	15	30	42	24	---	42	96	102	16	15	22	16
30	14	15	13	22	---	39	64	67	16	14	24	17
31	14	---	21	20	---	53	---	66	---	13	20	---
TOTAL	487	609	487	868	851	2266	1919	1451	705	660	584	547
MEAN	15.7	20.3	15.7	28.0	30.4	73.1	64.0	46.8	23.5	21.3	18.8	18.2
MAX	23	89	42	113	170	233	436	159	46	56	42	30
MIN	14	12	12	13	16	18	25	23	15	13	12	14
CFSM	1.13	1.46	1.13	2.01	2.19	5.26	4.60	3.37	1.69	1.53	1.35	1.31
IN.	1.30	1.63	1.30	2.32	2.28	6.06	5.14	3.88	1.89	1.77	1.56	1.46
CAL YR 1978	TOTAL	11031	MEAN 30.2	MAX 242	MIN 12	CFSM 2.17	IN 29.52					
WTR YR 1979	TOTAL	11434	MEAN 31.3	MAX 436	MIN 12	CFSM 2.25	IN 30.60					

ROYAL RIVER BASIN

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, 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.--30 years, 278 ft³/s (7.873 m³/s), 26.59 in/yr (675 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, 4.4 ft³/s (0.12 m³/s) Oct. 17, 18, 1962, gage height, 0.71 ft (0.216 m).

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)
Mar. 9	0500	3300 93.5	4.72 1.439	Apr. 29	0400	*5060 143	5.77 1.759
Mar. 26	1000	2560 72.5	4.21 1.283	May 26	0800	1900 53.8	3.68 1.122

Minimum discharge, 21 ft³/s (0.59 m³/s) Oct. 17, gage height, 0.92 ft (0.280 m).

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	27	39	58	75	130	150	739	1070	644	147	49	72
2	29	38	56	313	125	145	731	678	431	371	50	61
3	30	38	47	1200	120	130	1100	465	334	336	56	56
4	30	36	46	845	115	110	1090	423	283	241	53	53
5	34	35	46	550	110	160	840	542	243	146	49	51
6	44	35	46	400	110	255	857	448	235	112	46	52
7	54	36	46	285	105	1060	721	350	223	88	42	93
8	51	41	49	275	100	2510	547	289	186	78	41	110
9	42	35	78	455	98	3010	456	260	168	68	41	83
10	36	35	83	385	97	1920	527	233	156	64	40	68
11	34	35	66	260	95	1470	854	209	144	60	50	61
12	32	35	58	175	93	1290	732	185	137	56	68	55
13	32	35	51	130	91	1140	585	179	137	56	106	55
14	36	35	49	110	90	946	515	190	122	52	157	54
15	54	35	47	96	88	1080	469	235	110	51	109	63
16	64	35	46	90	87	978	445	265	102	51	82	78
17	47	36	49	85	85	664	435	260	94	90	67	70
18	42	56	62	82	84	514	394	249	92	132	59	63
19	39	71	58	81	83	414	354	220	88	97	64	54
20	39	62	52	80	82	531	331	206	79	78	88	43
21	41	51	49	79	81	892	307	200	72	65	90	57
22	41	46	47	78	80	1430	283	205	70	58	86	61
23	41	38	44	80	80	1620	264	183	68	50	77	104
24	38	42	42	83	83	1670	249	214	66	49	68	93
25	36	62	49	87	89	2000	232	1160	62	51	62	74
26	38	56	49	93	99	2510	218	1830	59	67	59	67
27	46	52	52	100	115	1890	269	1400	57	68	56	60
28	51	46	52	115	140	1080	3380	937	55	64	55	55
29	47	42	49	135	---	756	4220	983	54	59	60	56
30	44	47	46	150	---	559	2010	847	53	53	83	60
31	41	---	44	140	---	596	---	925	---	50	87	---
TOTAL	1260	1285	1616	7112	2755	33480	24154	15840	4624	3008	2100	1982
MEAN	40.6	42.8	52.1	229	98.4	1080	805	511	154	97.0	67.7	66.1
MAX	64	71	83	1200	140	3010	4220	1830	644	371	157	110
MIN	27	35	42	75	80	110	218	179	53	49	40	43
CFSM	.29	.30	.37	1.61	.69	7.61	5.67	3.60	1.09	.68	.48	.47
IN.	.33	.34	.42	1.86	.72	8.77	6.33	4.15	1.21	.79	.55	.52
CAL YR 1978	TOTAL	97218	MEAN 266	MAX 2980	MIN 27	CFSM 1.87	IN 25.47					
WTR YR 1979	TOTAL	99216	MEAN 272	MAX 4220	MIN 27	CFSM 1.92	IN 25.99					

PRESUMPSCOT RIVER BASIN

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01064140 PRESUMPSCOT RIVER NEAR WEST FALMOUTH, ME

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 good. 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, 5,460 ft³/s (155 m³/s) Apr. 28, gage height, 13.37 ft (4.075 m); minimum daily, 126 ft³/s (3.57 m³/s) July 6.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	739	324	387	446	929	896	1340	1860	3330	944	869	783
2	669	371	382	804	821	821	1290	1910	2070	557	928	768
3	615	382	373	2380	676	725	2140	2630	2000	250	913	764
4	612	455	363	1210	625	746	1680	2780	1960	175	903	764
5	768	376	376	825	608	839	1470	2760	1890	140	899	814
6	628	350	373	601	588	1480	1470	2630	1870	126	900	914
7	635	345	382	548	565	3200	1210	2440	1760	127	970	742
8	625	345	390	885	551	3540	1040	1940	1360	604	655	625
9	635	345	449	1310	545	2880	1010	1880	1380	768	689	784
10	551	345	420	885	529	2330	1290	1750	1380	932	853	848
11	548	317	464	693	516	2730	1470	1310	1350	898	800	877
12	510	352	538	662	538	2390	1230	1320	1360	877	761	849
13	551	420	423	605	652	1710	1090	1330	1390	938	882	682
14	565	352	365	548	710	1800	977	1380	1340	834	871	672
15	591	345	371	488	786	2130	911	1420	1370	844	775	686
16	578	334	350	488	595	1630	864	1320	1360	871	797	742
17	584	355	368	432	440	1430	1150	1200	1340	1130	753	722
18	551	365	403	426	368	1280	1110	1250	1330	1100	743	714
19	535	398	435	510	365	1250	1060	1160	1080	1100	757	682
20	532	376	384	458	401	1430	1080	1220	1010	1060	814	792
21	538	342	392	507	406	1940	1050	1220	951	888	779	804
22	542	390	373	635	403	2450	1070	1230	925	890	757	839
23	538	371	373	700	406	2400	1020	1220	922	917	757	857
24	519	360	371	662	507	2390	1030	1330	922	873	764	768
25	538	382	398	615	977	2990	987	2730	918	935	772	786
26	412	379	398	721	1000	2890	878	3320	889	913	743	772
27	423	373	392	977	911	1910	1880	2790	889	941	764	761
28	420	355	440	1070	907	1560	4940	2490	882	906	732	746
29	387	373	392	955	---	1260	2630	3280	889	903	764	753
30	355	392	382	1120	---	1080	1870	4080	1030	902	929	761
31	417	---	379	1050	---	1260	---	4120	---	879	867	---
TOTAL	17111	10969	12286	24216	17325	57367	42237	63300	41147	24222	25160	23071
MEAN	552	366	396	781	619	1851	1408	2042	1372	781	812	769
MAX	768	455	538	2380	1000	3540	4940	4120	3330	1130	970	914
MIN	355	317	350	426	365	725	864	1160	882	126	655	625
CAL YR 1978	TOTAL	405873	MEAN	1112	MAX	4260	MIN	122				
WTR YR 1979	TOTAL	358411	MEAN	982	MAX	4940	MIN	126				

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; minimum, 0.0°C on many days during winter periods.

DISSOLVED OXYGEN: Maximum, 14.0 mg/L Feb. 15, 1978; minimum, 4.5 mg/L July 18, 1976.

EXTREMES FOR CURRENT YEAR.--

SPECIFIC CONDUCTANCE: Maximum, 375 micromhos Jan. 8; minimum, 36 micromhos Oct. 25.

pH: Maximum, 9.0 units June 13; minimum, 6.4 units Jan. 27-31, Feb. 1-4, Mar. 7-11, Apr. 28, 29.

WATER TEMPERATURES: Maximum, 27.5°C Aug. 5; minimum, 1.0°C Jan. 19.

DISSOLVED OXYGEN: Maximum, 13.4 mg/L Mar. 22; minimum, 7.2 mg/L Oct. 6.

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979

DATE	TIME	STREAM- FLOW, INSTAN- TANEOUS (CFS)	SPE- CIFIC CON- DUCT- ANCE (MICRO- MHOS)	PH (UNITS)	TEMPER- ATURE, AIP (DEG C)	TEMPER- ATURE (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)
SEP 05...	1100	775	92	6.8	22.0	22.5	2.0	8.1	93	950	190
25...	1430	832	95	6.9	--	16.5	5.0	9.7	98	>8400	330

DATE	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)	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)	CARBON DIOXIDE DIS- SOLVED (MG/L AS CO2)
SEP 05...	16	3	4.9	.8	10	57	1.1	11	.7	13	4.0
25...	16	5	5.2	.8	9.1	53	1.0	10	.9	11	--

DATE	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 SI02)	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)
SEP 05...	7.0	11	.0	2.8	54	46	.07	113	.07	.16	.04
25...	7.0	12	.1	3.0	54	45	.07	121	.13	.12	.05

DATE	NITRO- GEN, AMMONIA TOTAL (MG/L AS NH4)	NITRO- GEN, ORGANIC TOTAL (MG/L AS N)	NITRO- GEN,AM- MONIA + ORGANIC TOTAL (MG/L AS N)	NITRO- GEN,AM- MONIA + ORGANIC DIS- SOLVED (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)
SEP 05...	.05	.16	.20	--	.27	--	1.2	.03	.09	.02	3
25...	.06	.20	.25	.21	.38	.33	1.7	.06	.18	.04	--

01064140 PRESUMPCOT RIVER NEAR WEST FALMOUTH, ME--Continued

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979

DATE	ARSENIC DIS- SOLVED (UG/L AS AS)	BARIUM, TOTAL RECOV- ERABLE (UG/L AS BA)	BARIUM, SUS- PENDE RECOV- ERABLE (UG/L AS BA)	BARIUM, DIS- SOLVED (UG/L AS BA)	CADMIUM TOTAL RECOV- ERABLE (UG/L AS CD)	CADMIUM SUS- PENDE 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- PENDE RECOV- ERABLE (UG/L AS CR)	CHRO- MIUM, DIS- SOLVED (UG/L AS CR)	COBALT, TOTAL RECOV- ERABLE (UG/L AS CO)
SEP 05...	2	100	80	20	1	0	1	20	10	<10	0
25...	--	--	--	--	--	--	--	--	--	--	--

DATE	COBALT, SUS- PENDE RECOV- ERABLE (UG/L AS CO)	COBALT, DIS- SOLVED (UG/L AS CO)	COPPER, TOTAL RECOV- ERABLE (UG/L AS CU)	COPPER, SUS- PENDE RECOV- ERABLE (UG/L AS CU)	COPPER, DIS- SOLVED (UG/L AS CU)	IRON, TOTAL RECOV- ERABLE (UG/L AS FE)	IRON, DIS- SOLVED (UG/L AS FE)	LEAD, TOTAL RECOV- ERABLE (UG/L AS PB)	LEAD, SUS- PENDE RECOV- ERABLE (UG/L AS PB)	LEAD, DIS- SOLVED (UG/L AS PB)	MANGA- NESE, TOTAL RECOV- ERABLE (UG/L AS MN)
SEP 05...	0	2	16	15	1	230	30	12	11	1	20
25...	--	--	--	--	--	--	--	--	--	--	--

DATE	MANGA- NESE, SUS- PENDE RECOV- ERABLE (UG/L AS MN)	MANGA- NESE, 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)	SELE- NIUM, TOTAL RECOV- ERABLE (UG/L AS SE)	SELE- NIUM, SUS- PENDE RECOV- ERABLE (UG/L AS SE)	SELE- NIUM, DIS- SOLVED (UG/L AS SE)	SILVER, TOTAL RECOV- ERABLE (UG/L AS AG)	SILVER, SUS- PENDE RECOV- ERABLE (UG/L AS AG)
SEP 05...	0	20	<.5	<.0	<.5	0	0	0	0	0
25...	--	--	--	--	--	--	--	--	--	--

DATE	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 TOTAL (MG/L AS C)	SEDI- MENT, SUS- PENDE TOTAL (MG/L)	SEDI- MENT DIS- CHARGE, SUS- PENDE (T/DAY)	SED. SUSP. SIEVE DIAM. % FINER THAN .062 MM
SEP 05...	0	30	20	10	--	18	.2	4	8.4	100
25...	--	--	--	--	5.0	--	--	13	29	--

PRESUMPSCOT RIVER BASIN

01064140 PRESUMPSCOT RIVER NEAR WEST FALMOUTH, ME--Continued

SPECIFIC CONDUCTANCE (MICROMHOS/CM AT 25 DEG. C), WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
OCTOBER			NOVEMBER			DECEMBER			JANUARY			
1	94	80	85	---	---	---	179	140	159	248	158	209
2	93	70	83	---	---	---	184	138	160	211	146	182
3	98	85	91	---	---	---	184	142	165	144	102	112
4	104	70	93	---	---	---	186	138	165	136	114	126
5	96	86	91	---	---	---	189	153	175	151	135	141
6	133	98	116	---	---	---	163	145	165	167	143	154
7	111	90	101	---	---	---	187	142	169	352	160	172
8	100	73	88	---	---	---	192	135	162	375	114	244
9	107	90	100	---	---	---	187	146	164	122	106	114
10	119	103	110	---	---	---	180	143	156	128	116	120
11	121	95	109	193	122	146	171	115	150	144	120	129
12	112	89	107	131	119	124	133	111	125	155	123	139
13	107	94	100	137	62	112	140	119	129	142	125	133
14	130	94	105	150	133	140	165	125	153	143	137	140
15	108	93	101	136	102	125	161	131	149	160	134	142
16	105	94	100	143	114	130	164	137	157	158	136	145
17	100	79	91	159	128	143	199	159	178	176	146	157
18	101	90	97	154	135	144	193	138	169	178	138	166
19	117	83	102	142	110	125	163	119	145	158	113	135
20	107	90	100	136	117	128	163	117	139	164	129	147
21	104	81	97	227	134	159	180	134	154	281	129	181
22	108	93	102	154	115	136	190	177	184	292	178	233
23	111	74	97	159	112	135	214	175	191	172	142	159
24	110	71	96	210	149	177	210	162	188	161	138	151
25	127	36	85	193	131	151	171	139	156	230	153	172
26	---	---	---	161	123	146	172	125	155	288	198	237
27	---	---	---	171	125	152	183	149	165	192	151	168
28	---	---	---	165	130	153	184	115	158	148	132	138
29	---	---	---	172	135	155	200	116	151	158	138	146
30	---	---	---	203	150	182	168	133	149	154	130	136
31	---	---	---	---	---	---	167	128	146	135	126	130
MONTH	133	36	98	227	62	143	214	111	159	375	102	157
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
FEBRUARY			MARCH			APRIL			MAY			
1	138	130	135	149	127	136	92	78	83	82	70	79
2	144	126	134	147	132	137	88	75	80	84	67	78
3	147	131	139	141	126	133	88	68	72	67	59	63
4	150	124	139	146	128	138	75	68	72	65	58	61
5	151	123	140	176	127	142	78	71	75	63	48	57
6	144	132	139	152	95	127	84	71	78	61	56	58
7	153	124	142	93	70	79	92	83	86	67	57	60
8	148	135	141	78	68	73	101	92	97	68	57	65
9	151	133	146	85	77	78	109	94	101	70	58	67
10	161	142	153	95	77	84	116	88	102	79	66	70
11	162	149	157	92	74	83	91	80	85	83	78	80
12	165	140	152	---	---	---	97	86	91	77	72	75
13	142	128	134	---	---	---	103	94	98	87	73	79
14	130	98	117	---	---	---	109	100	104	76	62	71
15	117	104	110	---	---	---	113	103	108	83	71	76
16	160	105	133	83	68	74	112	107	109	85	78	82
17	186	150	161	92	78	86	107	80	88	87	61	73
18	185	173	179	94	86	89	95	83	88	85	60	75
19	177	156	170	94	83	89	98	87	92	86	78	83
20	170	136	159	91	77	85	93	87	90	81	60	77
21	175	138	162	85	66	75	97	85	88	81	74	79
22	224	143	194	69	64	66	89	82	86	83	64	77
23	205	170	187	69	60	67	91	85	88	84	56	65
24	212	149	180	65	58	63	89	85	88	93	59	79
25	166	125	143	63	57	61	95	88	92	82	68	75
26	127	107	121	69	60	65	105	94	98	70	65	67
27	162	121	142	80	71	76	118	72	96	68	60	66
28	154	134	146	84	75	78	72	64	67	72	59	68
29	---	---	---	91	80	85	85	68	76	63	59	46
30	---	---	---	116	87	94	89	72	85	---	---	---
31	---	---	---	120	84	96	---	---	---	---	---	---
MONTH	224	98	148	176	57	91	118	64	89	93	48	71

01064140 PRESUMPCOT RIVER NEAR WEST FALMOUTH, ME--Continued

SPECIFIC CONDUCTANCE (MICROMHOS/CM AT 25 DEG. C), WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
JUNE			JULY			AUGUST			SEPTEMBER			
1	---	---	---	98	66	83	97	73	85	103	96	99
2	---	---	---	80	61	69	88	80	83	101	83	94
3	---	---	---	134	68	104	84	66	79	97	87	92
4	---	---	---	136	89	111	71	59	66	104	94	97
5	71	67	69	196	109	132	76	62	69	99	82	89
6	70	52	66	259	188	213	76	61	69	130	80	90
7	70	54	60	238	190	209	87	66	77	127	88	103
8	86	54	66	214	88	136	117	83	99	126	117	123
9	83	63	75	119	69	103	122	72	103	117	91	100
10	82	64	75	84	51	73	96	79	90	103	93	100
11	85	63	76	92	73	83	97	73	90	99	75	89
12	81	62	72	86	79	82	99	82	94	111	90	99
13	100	59	75	83	52	73	106	91	96	118	103	113
14	87	59	77	99	62	80	101	90	96	134	111	120
15	78	62	68	99	74	90	102	86	96	286	99	120
16	78	62	73	98	68	87	86	77	82	116	101	110
17	78	72	75	102	67	88	94	79	85	117	93	108
18	95	55	75	107	66	89	98	88	95	112	87	99
19	99	79	92	100	68	90	106	92	99	130	97	122
20	97	86	92	91	69	76	107	83	96	119	98	108
21	99	90	94	93	70	80	97	87	93	107	95	101
22	100	75	92	96	68	77	97	88	93	111	100	106
23	101	73	92	94	69	84	97	91	95	109	100	104
24	94	63	82	96	68	88	96	90	94	118	104	112
25	91	66	83	89	69	84	98	87	93	108	92	100
26	92	81	87	93	86	89	101	87	97	117	94	101
27	96	68	88	90	74	85	98	88	94	102	94	98
28	95	64	85	89	69	81	98	89	95	109	97	103
29	87	51	78	85	66	73	115	95	102	115	99	107
30	78	55	66	87	55	72	236	84	111	117	101	106
31	---	---	---	100	72	84	103	80	98	---	---	---
MONTH	101	51	78	259	51	96	236	59	91	286	75	104
YEAR	375	36	110									

PH (STANDARD UNITS), WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979

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

PRESUMPCOT RIVER BASIN

01064140 PRESUMPCOT RIVER NEAR WEST FALMOUTH, ME--Continued

PH (STANDARD UNITS), WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
FEBRUARY				MARCH			APRIL			MAY		
1	6.5	6.4	6.4	6.7	6.6	6.6	6.7	6.7	6.7	6.8	6.6	6.7
2	6.5	6.4	6.4	6.7	6.6	6.7	6.8	6.7	6.7	6.8	6.7	6.7
3	6.5	6.4	6.5	6.6	6.6	6.6	6.7	6.7	6.7	6.7	6.6	6.7
4	6.5	6.4	6.5	6.7	6.6	6.6	6.7	6.6	6.7	6.7	6.6	6.6
5	6.5	6.5	6.5	6.8	6.6	6.6	6.7	6.7	6.7	6.6	6.5	6.6
6	6.6	6.5	6.5	6.8	6.5	6.6	6.8	6.7	6.8	6.6	6.6	6.6
7	6.7	6.6	6.6	6.6	6.4	6.5	6.8	6.7	6.8	6.7	6.6	6.6
8	6.7	6.6	6.7	6.5	6.4	6.5	6.8	6.8	6.8	6.7	6.6	6.6
9	6.7	6.6	6.7	6.5	6.4	6.5	6.9	6.8	6.8	6.7	6.6	6.7
10	6.8	6.7	6.7	6.5	6.4	6.4	6.8	6.7	6.8	6.7	6.6	6.7
11	6.8	6.7	6.7	6.5	6.4	6.4	6.8	6.7	6.7	6.7	6.6	6.6
12	6.8	6.7	6.8	---	---	---	6.8	6.7	6.7	6.7	6.6	6.6
13	6.8	6.7	6.8	---	---	---	6.7	6.7	6.7	6.8	6.7	6.8
14	6.8	6.7	6.8	---	---	---	6.8	6.7	6.7	6.7	6.7	6.7
15	6.8	6.7	6.8	---	---	---	6.8	6.7	6.8	6.7	6.7	6.7
16	6.9	6.8	6.8	7.6	6.6	6.7	6.8	6.7	6.8	6.7	6.7	6.7
17	6.9	6.8	6.8	6.8	6.7	6.7	6.7	6.7	6.7	6.7	6.6	6.7
18	6.8	6.7	6.8	6.8	6.7	6.8	6.8	6.8	6.8	6.7	6.6	6.7
19	6.8	6.8	6.8	6.8	6.7	6.8	6.8	6.8	6.8	6.8	6.7	6.7
20	6.9	6.7	6.8	6.8	6.7	6.8	6.8	6.7	6.8	6.8	6.7	6.7
21	6.8	6.7	6.7	6.8	6.7	6.7	6.8	6.8	6.8	6.8	6.7	6.8
22	6.9	6.7	6.8	6.7	6.6	6.7	6.8	6.7	6.7	6.8	6.6	6.7
23	6.9	6.8	6.8	6.6	6.6	6.6	6.8	6.7	6.8	6.7	6.6	6.6
24	6.8	6.7	6.8	6.6	6.5	6.6	6.7	6.7	6.7	6.8	6.6	6.8
25	6.9	6.7	6.7	6.5	6.5	6.5	6.7	6.7	6.7	6.7	6.6	6.7
26	6.7	6.7	6.7	6.5	6.5	6.5	6.7	6.7	6.7	6.6	6.5	6.6
27	6.7	6.6	6.6	6.6	6.5	6.6	6.7	6.5	6.6	6.7	6.6	6.6
28	6.7	6.6	6.6	6.6	6.6	6.6	6.5	6.4	6.4	6.7	6.6	6.6
29	---	---	---	6.7	6.6	6.6	6.6	6.4	6.5	6.8	6.6	6.7
30	---	---	---	6.7	6.7	6.7	6.7	6.6	6.7	---	---	---
31	---	---	---	6.7	6.7	6.7	---	---	---	---	---	---
MONTH	6.9	6.4	6.7	7.6	6.4	6.6	6.9	6.4	6.7	6.8	6.5	6.7
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
JUNE				JULY			AUGUST			SEPTEMBER		
1	---	---	---	6.9	6.7	6.8	7.1	6.7	7.0	7.1	6.8	7.0
2	---	---	---	6.8	6.5	6.7	7.0	6.9	7.0	7.1	6.8	7.0
3	---	---	---	7.0	6.5	6.8	7.2	6.7	7.0	7.1	6.9	7.0
4	---	---	---	7.0	6.7	6.8	6.8	6.6	6.7	7.1	6.9	7.0
5	6.9	6.8	6.8	7.0	6.7	6.9	6.7	6.7	6.7	7.1	6.8	6.9
6	7.0	6.6	6.8	7.1	7.0	7.1	6.7	6.6	6.7	6.9	6.8	6.9
7	6.8	6.6	6.7	7.2	6.9	7.1	6.9	6.6	6.7	7.1	6.8	6.9
8	6.9	6.5	6.7	7.4	7.0	7.2	6.7	6.5	6.7	7.1	6.9	7.0
9	7.0	6.7	6.8	7.4	7.0	7.2	7.0	6.7	6.8	7.0	6.8	6.9
10	7.0	6.7	6.8	7.3	6.8	7.1	6.8	6.6	6.7	7.1	6.9	7.0
11	7.1	6.7	6.9	7.2	7.0	7.1	6.8	6.6	6.7	7.1	6.8	7.0
12	7.0	6.7	6.9	7.2	7.0	7.1	6.8	6.7	6.8	7.2	6.9	7.0
13	9.0	6.8	7.1	7.5	6.9	7.1	6.9	6.8	6.8	7.1	6.9	7.0
14	7.1	6.8	7.0	7.7	7.1	7.4	7.0	6.8	6.9	7.1	6.9	7.0
15	7.0	6.6	6.8	7.6	7.2	7.5	7.0	6.8	6.9	7.6	6.9	7.0
16	7.2	6.7	6.9	7.5	7.1	7.4	7.1	6.8	7.0	7.1	6.9	7.0
17	7.1	6.8	7.0	7.7	7.1	7.4	7.1	6.8	7.0	7.2	6.9	7.0
18	7.0	6.7	6.8	7.6	7.1	7.4	7.0	6.8	6.9	7.4	6.9	7.1
19	7.1	6.8	7.0	7.6	7.1	7.4	6.9	6.8	6.9	7.2	7.0	7.1
20	7.0	6.9	6.9	7.2	6.9	7.0	7.1	6.9	7.0	7.1	6.9	7.0
21	7.0	6.9	6.9	7.1	6.8	6.9	7.1	6.9	7.0	7.1	6.9	7.0
22	7.0	6.8	6.9	7.1	6.8	6.9	7.1	6.9	7.0	7.1	7.0	7.0
23	7.0	6.8	6.9	7.2	6.8	7.0	7.0	6.8	6.9	7.2	6.9	7.0
24	7.0	6.8	6.9	7.2	6.8	7.0	7.0	6.8	6.9	7.2	6.9	7.0
25	7.2	6.8	7.0	7.1	6.7	7.0	7.1	6.9	7.0	7.0	6.8	6.9
26	7.3	7.0	7.1	7.1	6.9	7.0	7.1	6.9	7.0	7.3	6.8	7.0
27	7.1	6.9	7.1	7.1	7.0	7.0	6.9	6.8	6.9	7.1	6.6	6.9
28	7.1	6.9	7.0	7.1	6.7	6.9	7.0	6.8	6.9	6.9	6.7	6.8
29	7.0	6.7	6.9	7.0	6.6	6.8	6.9	6.8	6.9	7.1	6.8	6.9
30	7.0	6.9	6.9	7.0	6.6	6.7	7.4	6.8	7.0	6.9	6.7	6.8
31	---	---	---	7.2	6.7	6.9	7.1	6.9	7.0	---	---	---
MONTH	9.0	6.5	6.9	7.7	6.5	7.1	7.4	6.5	6.9	7.6	6.6	7.0
YEAR	9.0	6.4	6.8									

01064140 PRESUMPCOT RIVER NEAR WEST FALMOUTH, ME--Continued

TEMPERATURE, WATER (DEG. C), WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979

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

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

PRESUMPCOT RIVER BASIN

01064140 PRESUMPCOT RIVER NEAR WEST FALMOUTH, ME--Continued

TEMPERATURE, WATER (DEG. C), WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
	JUNE			JULY			AUGUST			SEPTEMBER		
1	---	---	---	20.5	19.5	19.5	26.5	25.5	26.0	22.0	20.5	21.5
2	---	---	---	20.5	19.0	20.0	26.0	25.5	26.0	22.5	21.0	22.0
3	---	---	---	21.0	19.5	20.0	26.5	26.0	26.0	23.5	22.0	22.5
4	---	---	---	21.0	19.0	20.0	27.0	25.5	26.5	24.0	22.5	23.0
5	16.5	15.5	16.0	20.5	19.0	19.5	27.5	26.0	26.5	23.5	22.0	23.0
6	17.0	16.5	16.5	20.5	19.0	19.5	27.0	26.0	26.5	23.5	23.0	23.0
7	17.5	17.0	17.0	20.5	19.5	20.0	26.5	25.0	25.5	23.5	22.0	22.5
8	18.5	17.5	18.0	21.5	19.5	20.5	26.0	24.5	25.0	23.0	21.5	22.0
9	18.5	17.5	18.0	23.0	21.0	22.0	26.0	24.5	25.0	22.0	21.0	21.5
10	19.0	18.0	18.5	23.0	21.5	22.5	24.5	23.0	24.0	21.5	20.0	21.0
11	19.5	18.5	19.0	23.5	22.0	22.5	23.0	22.0	22.5	21.0	19.5	20.5
12	19.5	18.5	19.5	23.0	22.0	22.5	22.0	21.0	21.5	20.5	19.0	20.0
13	18.5	18.0	18.5	24.0	22.0	23.0	21.0	20.0	20.5	20.5	19.0	20.0
14	19.0	18.0	18.5	25.0	23.0	24.0	20.5	19.5	20.0	20.0	19.5	20.0
15	19.5	18.0	19.0	24.0	23.5	24.0	20.5	19.5	20.0	20.0	19.5	20.0
16	21.0	19.0	20.0	23.5	22.5	23.0	20.5	19.0	20.0	20.0	19.0	19.5
17	22.0	20.5	21.0	24.0	22.5	23.0	21.0	19.5	20.0	19.5	18.5	19.0
18	22.0	20.5	21.5	23.0	22.0	22.5	20.5	19.5	20.0	20.0	18.5	19.0
19	22.0	20.5	21.5	23.0	22.0	22.5	20.0	19.5	19.5	19.5	18.5	19.0
20	22.5	20.5	21.5	24.0	22.0	23.0	20.0	19.0	19.5	18.5	17.5	18.0
21	22.5	20.5	21.5	24.0	22.5	23.5	20.5	19.5	20.0	17.5	16.5	17.0
22	21.5	20.5	21.0	25.0	23.0	24.0	21.5	20.0	20.5	17.5	16.5	17.0
23	21.5	20.0	20.5	25.0	23.5	24.5	21.5	20.0	20.5	17.0	16.0	16.5
24	21.0	20.0	20.5	25.5	24.0	24.5	21.0	20.5	21.0	16.5	15.0	16.0
25	20.5	19.5	20.0	25.0	24.5	25.0	22.0	21.0	21.5	17.0	15.0	16.0
26	21.0	19.0	20.0	25.5	24.5	25.0	22.5	21.0	22.0	17.5	15.5	16.5
27	21.0	19.5	20.5	26.0	24.5	25.0	22.5	21.5	22.0	17.0	16.0	16.5
28	21.5	19.5	20.5	26.0	25.0	25.5	22.5	21.5	22.0	17.0	16.0	16.5
29	22.5	20.0	21.0	26.5	25.0	25.5	22.0	21.5	21.5	17.5	16.5	17.0
30	21.5	20.5	21.0	27.0	25.0	26.0	22.0	21.5	21.5	17.0	16.5	17.0
31	---	---	---	27.0	26.0	26.5	22.5	21.0	21.5	---	---	---
MONTH	22.5	15.5	19.5	27.0	19.0	23.0	27.5	19.0	22.5	24.0	15.0	19.5
YEAR	27.5	1.0	11.0									

OXYGEN, DISSOLVED (DO), MG/L, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
	OCTOBER			NOVEMBER			DECEMBER			JANUARY		
1	8.0	7.8	7.9	---	---	---	---	---	---	12.1	11.7	11.9
2	8.0	7.3	7.8	---	---	---	---	---	---	11.9	11.7	11.8
3	7.8	7.6	7.7	---	---	---	---	---	---	12.6	11.8	12.3
4	7.8	7.5	7.7	---	---	---	---	---	---	12.7	12.4	12.6
5	7.9	7.7	7.8	---	---	---	---	---	---	---	---	---
6	9.1	7.2	8.1	---	---	---	12.5	12.2	12.3	12.3	12.1	12.2
7	8.7	7.4	8.0	---	---	---	12.4	12.1	12.2	12.1	11.9	12.1
8	8.6	7.5	7.9	---	---	---	12.2	11.9	12.0	12.0	11.7	11.8
9	9.3	8.0	8.7	---	---	---	11.9	11.8	11.8	12.2	12.0	12.2
10	9.9	9.1	9.5	---	---	---	12.1	11.8	11.9	12.2	12.1	12.2
11	10.3	9.9	10.1	10.6	10.2	10.5	12.5	12.0	12.3	12.3	12.1	12.2
12	10.5	10.2	10.3	11.0	10.9	10.9	12.7	12.5	12.6	12.4	12.2	12.2
13	10.5	10.2	10.3	---	---	---	12.5	12.2	12.4	12.3	12.0	12.2
14	10.5	10.0	10.4	---	---	---	12.2	11.9	12.0	11.9	11.2	11.7
15	10.6	10.3	10.5	---	---	---	12.1	11.9	12.0	12.2	11.8	12.0
16	11.0	10.7	10.8	---	---	---	12.1	11.9	12.0	12.3	12.2	12.2
17	11.6	11.0	11.2	---	---	---	11.9	11.6	11.8	12.4	12.0	12.3
18	11.3	10.7	11.1	---	---	---	11.8	11.5	11.7	12.2	11.9	12.0
19	11.0	9.9	10.8	---	---	---	12.0	11.8	11.9	12.3	12.1	12.2
20	11.1	10.0	10.8	---	---	---	12.2	11.9	12.0	12.2	12.0	12.1
21	11.2	10.6	10.9	---	---	---	12.0	11.6	11.8	12.1	11.5	11.8
22	11.2	10.0	10.7	---	---	---	11.9	11.6	11.8	11.8	11.4	11.6
23	10.9	10.1	10.6	---	---	---	11.9	11.8	11.8	12.2	11.8	12.0
24	11.0	9.9	10.5	---	---	---	12.0	11.8	11.9	12.3	12.2	12.3
25	11.0	10.0	10.4	---	---	---	12.0	11.5	11.7	12.2	11.7	11.9
26	---	---	---	---	---	---	11.9	11.5	11.8	12.0	11.7	11.9
27	---	---	---	---	---	---	11.9	11.8	11.9	12.1	12.0	12.0
28	---	---	---	---	---	---	12.2	11.8	12.0	12.0	11.9	12.0
29	---	---	---	---	---	---	12.2	11.9	12.1	11.9	11.7	11.8
30	---	---	---	---	---	---	12.3	12.0	12.1	12.0	11.7	11.9
31	---	---	---	---	---	---	12.3	12.1	12.2	12.1	12.0	12.1
MONTH	11.6	7.2	9.6	11.0	10.2	10.7	12.7	11.5	12.0	12.7	11.2	12.1

01064140 PRESUMPCOT RIVER NEAR WEST FALMOUTH, ME--Continued

OXYGEN, DISSOLVED (DO), MG/L, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
FEBRUARY				MARCH			APRIL			MAY		
1	12.1	12.0	12.0	12.5	12.2	12.4	12.8	12.6	12.7	11.5	10.9	11.2
2	12.1	11.9	12.0	12.6	12.4	12.5	12.9	12.7	12.8	11.5	11.2	11.3
3	12.2	12.0	12.1	12.6	12.5	12.6	13.0	12.7	12.9	11.9	11.3	11.6
4	12.2	12.0	12.1	12.6	12.4	12.5	13.0	12.7	12.9	11.7	11.4	11.6
5	12.1	12.0	12.0	12.5	12.0	12.3	12.7	12.4	12.5	12.1	11.5	11.7
6	12.1	11.9	12.0	12.6	12.0	12.3	12.6	12.5	12.5	12.0	11.5	11.7
7	12.2	12.1	12.1	12.8	12.5	12.7	12.6	12.5	12.6	12.0	11.3	11.7
8	12.1	12.0	12.1	12.7	12.6	12.6	12.7	12.4	12.6	11.7	11.3	11.5
9	12.2	12.0	12.1	12.9	12.2	12.7	12.5	12.3	12.4	11.4	10.7	11.2
10	12.2	12.1	12.1	---	---	---	12.7	12.3	12.5	11.2	10.5	10.8
11	12.3	12.1	12.2	---	---	---	12.8	12.5	12.6	10.6	10.4	10.5
12	12.3	12.2	12.2	---	---	---	12.6	12.2	12.4	10.8	10.6	10.7
13	12.3	12.2	12.3	---	---	---	12.3	12.0	12.2	10.8	10.6	10.7
14	12.4	12.2	12.3	---	---	---	12.0	11.8	11.9	11.0	10.7	10.9
15	12.4	12.2	12.3	---	---	---	11.9	11.8	11.9	11.1	10.9	11.0
16	12.3	12.1	12.2	13.3	13.0	13.2	12.1	11.9	12.0	11.3	10.8	11.0
17	12.3	12.1	12.2	13.2	13.0	13.1	12.3	12.1	12.3	11.2	10.7	10.9
18	12.2	12.1	12.2	13.1	12.9	13.0	12.3	12.0	12.2	11.1	10.4	10.9
19	12.2	12.1	12.2	13.0	12.7	12.9	12.1	11.9	12.0	11.2	11.1	11.1
20	12.1	12.0	12.1	12.8	12.6	12.7	12.1	11.9	12.0	11.3	11.1	11.2
21	12.1	11.9	12.0	12.8	12.6	12.7	12.0	11.7	11.9	11.4	10.6	11.0
22	12.0	11.8	11.9	13.4	12.8	13.0	11.8	11.6	11.7	10.8	10.4	10.6
23	12.2	12.0	12.2	13.2	12.2	12.9	11.8	11.5	11.7	10.9	10.3	10.6
24	12.3	12.0	12.1	13.0	12.7	12.9	11.6	11.1	11.4	10.9	10.4	10.5
25	12.4	12.0	12.2	12.8	12.6	12.7	11.3	10.9	11.2	11.1	10.6	10.9
26	12.5	12.2	12.4	12.9	12.3	12.5	11.2	10.8	11.0	11.9	11.2	11.4
27	12.3	12.2	12.2	---	---	---	11.4	10.8	11.0	12.0	10.8	11.5
28	12.4	12.2	12.3	---	---	---	11.5	11.3	11.4	11.3	10.8	11.1
29	---	---	---	---	---	---	11.7	11.2	11.5	11.5	11.0	11.3
30	---	---	---	12.9	12.5	12.8	11.5	10.7	11.2	---	---	---
31	---	---	---	12.7	12.8	12.6	---	---	---	---	---	---
MONTH	12.5	11.8	12.2	13.4	12.0	12.7	13.0	10.7	12.1	12.1	10.3	11.1
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
JUNE				JULY			AUGUST			SEPTEMBER		
1	---	---	---	9.3	8.9	9.1	8.6	7.5	7.8	9.0	8.5	8.7
2	---	---	---	9.6	8.9	9.1	7.7	7.6	7.7	8.9	8.5	8.7
3	---	---	---	9.5	8.4	8.6	9.0	7.6	7.9	8.8	8.4	8.6
4	---	---	---	9.4	8.3	8.6	9.2	8.1	8.9	8.5	8.2	8.3
5	10.1	9.8	10.0	8.4	8.2	8.3	9.0	8.6	8.8	8.8	8.0	8.3
6	10.0	9.8	9.9	8.4	8.1	8.2	9.0	8.5	8.8	8.4	7.8	8.2
7	10.1	9.1	9.6	8.4	8.0	8.2	9.1	7.5	8.2	8.5	7.7	8.2
8	10.1	9.4	9.7	9.2	8.1	8.8	7.7	7.4	7.5	8.3	7.8	8.1
9	10.0	9.4	9.6	9.2	8.5	8.9	7.9	7.3	7.6	9.0	8.2	8.6
10	10.1	9.3	9.5	9.7	8.4	8.8	8.1	7.4	7.8	8.9	8.4	8.7
11	9.8	9.2	9.4	8.6	8.4	8.5	8.9	7.4	8.0	9.3	8.6	8.9
12	9.8	9.1	9.4	8.7	8.5	8.6	8.5	8.1	8.3	9.3	8.8	9.1
13	10.1	8.8	9.6	9.7	8.4	8.9	9.2	8.5	8.8	9.4	8.9	9.1
14	10.2	9.5	9.8	9.7	8.1	9.0	10.0	8.8	9.2	9.1	8.6	8.8
15	10.2	9.3	9.7	8.5	8.2	8.4	10.1	9.4	9.8	8.8	8.3	8.6
16	9.8	9.0	9.3	8.9	8.5	8.7	10.2	9.6	9.9	8.9	8.6	8.8
17	9.0	8.9	8.9	9.4	8.5	8.7	10.0	9.3	9.7	9.1	8.7	8.9
18	8.9	8.6	8.9	9.9	8.6	9.1	10.0	9.4	9.6	8.8	8.6	8.7
19	9.4	8.8	9.0	10.1	8.7	9.1	9.9	8.9	9.6	8.7	8.3	8.5
20	9.2	9.0	9.1	10.1	8.8	9.5	9.6	9.3	9.5	9.2	8.6	9.0
21	9.3	8.8	9.1	9.8	8.3	9.2	9.8	9.2	9.7	9.2	9.0	9.1
22	9.3	9.0	9.2	9.5	8.2	9.1	9.8	9.0	9.4	9.3	8.9	9.0
23	9.6	9.0	9.3	9.5	8.1	8.5	9.9	9.5	9.7	9.7	9.3	9.4
24	10.0	9.2	9.5	9.1	8.0	8.4	9.7	8.9	9.4	9.6	9.3	9.5
25	9.9	9.5	9.5	9.2	7.6	8.1	9.7	8.9	9.2	10.0	9.3	9.5
26	9.8	9.2	9.6	8.1	7.6	7.9	9.7	9.1	9.3	9.6	9.2	9.4
27	9.7	9.1	9.4	7.9	7.6	7.8	9.5	8.8	9.2	9.5	9.2	9.4
28	9.7	9.0	9.3	9.1	7.8	8.3	9.3	8.8	9.0	9.6	9.1	9.4
29	9.8	9.0	9.2	9.1	8.0	8.6	9.3	8.9	9.1	9.5	8.9	9.2
30	9.3	9.1	9.2	9.1	8.0	8.6	9.3	8.3	8.9	9.3	9.0	9.2
31	---	---	---	8.7	7.6	8.2	9.0	8.7	8.9	---	---	---
MONTH	10.2	8.6	9.4	10.1	7.6	8.6	10.2	7.3	8.9	10.0	7.7	8.9
YEAR	13.4	7.2	10.6									

SACO RIVER BASIN

01064500 SACO RIVER NEAR CONWAY, NH

LOCATION.--Lat 43°59'27", long 71°05'29", 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: 1908-9.

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, and period of no gage-height record Aug. 3 to Sept. 20, which are fair. Several observations of water temperature and specific conductance were made during the year.

AVERAGE DISCHARGE.--56 years (water years 1904-9, 1930-79), 933 ft³/s (26.42 m³/s), 32.82 in/yr (834 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 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)
Jan. 3	0300	10300 292	8.52 2.597	Apr. 27	1400	*27600 782	13.25 4.039
Mar. 7	--	19000 538	a*19.03 5.800	May 25	2300	9920 281	8.39 2.557
Mar. 25	2300	14600 413	9.82 2.993				

a Ice jam

Minimum discharge, 76 ft³/s (2.15 m³/s) Dec. 3, gage height, 1.76 ft (0.536 m).

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	119	228	160	145	320	330	2650	4050	3480	618	214	200
2	144	192	150	1310	310	310	2550	3090	2510	1230	228	180
3	160	174	140	6340	300	300	2230	2940	2020	1080	350	190
4	137	167	145	1850	290	300	2040	4240	1680	543	270	180
5	261	162	150	1070	280	580	2020	2800	1460	440	230	170
6	342	159	155	770	275	2650	1770	2190	1840	396	205	300
7	406	156	170	690	270	12000	1550	1900	1410	359	180	990
8	261	165	180	645	265	5210	1380	1650	1180	330	200	560
9	202	168	190	735	255	3130	1330	1900	1080	266	190	420
10	176	162	200	600	250	2360	1290	2350	1110	316	230	370
11	163	157	190	495	245	1980	1190	2000	993	388	280	340
12	156	152	180	430	240	1650	1180	1750	965	391	235	320
13	161	149	175	405	235	1350	1320	1500	909	341	420	300
14	214	148	170	480	235	1430	1450	1350	800	234	380	320
15	627	148	160	585	230	2140	1360	1250	715	221	350	1100
16	408	147	155	579	225	1480	1300	1150	652	250	310	910
17	278	152	150	500	225	1340	1310	1050	603	295	280	750
18	231	569	150	470	230	1160	1270	949	560	340	250	600
19	211	764	150	450	250	1090	1370	884	522	400	270	500
20	211	424	160	420	290	1050	1460	854	481	380	290	410
21	207	315	175	410	325	1160	1740	856	452	350	255	373
22	196	244	175	490	345	1750	2020	994	428	290	235	390
23	188	193	170	560	366	2700	2430	858	416	250	215	374
24	180	170	165	470	425	3810	3350	938	398	205	200	335
25	173	155	160	430	500	9650	3700	5270	382	210	195	312
26	172	150	155	400	540	9310	4930	6780	359	235	190	297
27	187	144	155	385	410	4960	19800	4420	345	405	200	277
28	240	150	150	370	360	3260	13400	2890	333	391	250	268
29	219	165	145	355	---	2590	7260	5200	338	293	220	278
30	198	170	145	345	---	2170	5190	4090	324	251	250	281
31	213	---	140	330	---	2300	---	6090	---	225	230	---
TOTAL	7041	6399	5015	23514	8491	85500	95840	78233	28745	11923	7802	12295
MEAN	227	213	162	759	303	2758	3195	2524	958	385	252	410
MAX	627	764	200	6340	540	12000	19800	6780	3480	1230	420	1100
MIN	119	144	140	145	225	300	1180	854	324	205	180	170
CFSM	.59	.55	.42	1.97	.79	7.15	8.28	6.54	2.48	1.00	.65	1.06
IN.	.68	.62	.48	2.27	.82	8.24	9.24	7.54	2.77	1.15	.75	1.18
CAL YR 1978	TOTAL	325354	MEAN	891	MAX	11800	MIN	104	CFSM	2.31	IN	31.36
WTR YR 1979	TOTAL	370798	MEAN	1016	MAX	19800	MIN	119	CFSM	2.63	IN	35.73

01065000 OSSIPEE RIVER AT EFFINGHAM FALLS, NH

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.

DRAINAGE AREA.--330 mi² (855 km²).

PERIOD OF RECORD.--Discharge: September 1942 to current year.
Water-quality records: Water year 1955.

GAGE.--Water-stage recorder. Altitude of gage is 390 ft (119 m), from topographic map.

REMARKS.--Records excellent except those for period of no gage-height record, Feb. 20 to Mar. 30, which are fair. Flow regulated by Ossipee and Silver Lakes and Pine River Pond, combined capacity, 1,430,000,000 ft³/s (40,500,000 m³). Several observations of water temperature and specific conductance were made during the year.

AVERAGE DISCHARGE.--36 years, 695 ft³/s (19.68 m³/s).

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, 2,840 ft³/s (80.4 m³/s) Oct. 11, gage height, 7.09 ft (2.161 m); minimum, 129 ft³/s (3.65 m³/s) July 14; minimum daily, 131 ft³/s (3.71 m³/s) July 14, 16.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	134	240	218	231	464	368	2420	3080	2500	206	200	314
2	134	240	218	233	461	372	2330	2740	2400	204	343	318
3	134	231	218	250	458	379	2310	2440	2120	201	649	314
4	134	223	218	272	455	374	2270	2250	1850	202	694	311
5	134	223	218	292	451	375	2260	2180	1650	203	310	310
6	136	223	218	303	447	394	2190	1990	1280	242	307	520
7	136	223	216	309	443	822	2060	1670	1040	314	305	583
8	136	223	281	577	439	1990	1880	1480	776	314	303	452
9	136	223	325	779	435	2570	1760	1290	510	312	303	450
10	136	223	326	775	430	2640	1690	1160	514	311	256	447
11	136	223	321	767	425	2580	1600	994	516	311	196	444
12	136	223	323	610	419	2500	1510	876	518	308	196	362
13	136	223	320	515	413	2280	1470	856	516	245	267	304
14	139	223	320	515	408	2090	1470	649	427	200	312	303
15	140	222	317	513	404	1940	1490	475	291	199	314	304
16	140	221	315	508	399	1790	1490	347	293	199	311	307
17	179	221	314	505	392	1670	1470	255	295	200	311	307
18	247	222	315	502	390	1530	1450	356	297	201	311	380
19	247	223	310	497	385	1400	1430	503	299	202	311	427
20	247	223	308	493	379	1310	1110	504	303	271	308	423
21	247	223	307	493	372	1260	978	503	303	315	308	420
22	247	223	232	489	360	1320	1100	508	365	310	244	418
23	247	223	127	484	350	1510	1390	580	411	265	202	416
24	245	223	127	481	348	1820	1580	886	409	198	202	342
25	245	223	127	492	345	2370	1770	1800	406	198	203	288
26	245	222	127	480	351	3160	1850	2630	403	203	202	286
27	245	221	127	476	360	3630	1910	2940	399	203	202	284
28	243	221	127	473	365	3490	2710	2880	399	199	202	283
29	243	219	164	469	---	3170	3370	2740	281	200	202	283
30	243	218	229	466	---	2830	3350	2700	202	200	262	281
31	243	---	229	466	---	2570	---	2690	---	201	314	---
TOTAL	5790	6712	7542	14715	11348	56504	55668	46952	22073	7337	9050	10881
MEAN	187	224	243	475	405	1823	1856	1515	736	237	292	363
MAX	247	240	326	779	464	3630	3370	3080	2600	315	694	583
MIN	134	218	127	231	345	368	978	255	202	198	196	281

CAL YR 1978 TOTAL 241234 MEAN 661 MAX 2780 MIN 127
WTR YR 1979 TOTAL 254572 MEAN 697 MAX 3630 MIN 127

NOTE.--No gage-height record Feb. 4-15, Feb. 20 to Mar. 30.

SACO RIVER BASIN

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 periods of no gage-height record, Apr. 16 to May 16, Sept. 29, 30, 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.--63 years, 879 ft³/s (24.89 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, 5,780 ft³/s (164 m³/s) Mar. 9, gage height, 8.20 ft (2.499 m); minimum daily, 159 ft³/s (4.50 m³/s) Oct. 3.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	165	276	284	436	580	620	3080	4400	3080	332	287	405
2	164	278	269	517	570	620	2990	4150	2800	395	427	390
3	159	284	312	813	550	620	3240	3900	2520	345	702	394
4	164	265	270	734	540	630	3100	3600	2250	310	889	380
5	184	261	266	693	530	730	3020	3200	2000	295	532	371
6	213	262	267	644	520	1170	2930	2900	1790	295	391	400
7	222	259	258	621	510	2200	2730	2550	1360	358	375	772
8	189	259	275	826	500	3810	2490	2200	1230	379	373	539
9	177	257	390	1530	490	5540	2330	2000	763	379	362	515
10	172	257	403	1550	480	5630	2260	1700	729	367	361	504
11	170	255	431	1520	470	5390	2190	1550	719	366	329	495
12	163	252	439	1390	470	4520	2120	1350	712	365	302	479
13	172	256	431	1000	460	3580	2110	1200	691	358	459	368
14	196	250	401	830	460	2660	2100	1050	662	267	528	368
15	216	255	420	770	450	2490	2070	750	472	255	453	439
16	222	248	382	560	450	2320	2050	560	434	257	413	399
17	208	251	383	530	440	2130	2040	491	422	286	394	380
18	269	306	381	510	440	1960	2030	480	426	339	384	382
19	297	291	355	500	440	1810	2000	677	504	417	402	475
20	294	269	566	490	440	1730	1900	691	452	340	415	476
21	293	265	505	480	440	1780	1600	688	415	383	399	475
22	289	260	505	470	430	2000	1800	688	406	407	374	527
23	280	260	317	460	430	2300	2000	697	487	374	284	526
24	293	264	262	450	450	2770	2250	1000	483	290	270	487
25	280	262	232	450	520	3740	2450	2350	474	271	273	374
26	281	256	268	560	550	4400	2600	3560	470	273	272	359
27	290	281	254	640	580	4620	3000	3530	461	366	268	354
28	288	269	244	650	610	4340	3900	3400	464	530	275	348
29	282	301	253	640	---	3900	4450	3590	443	414	280	345
30	279	263	388	620	---	3480	4500	3340	292	330	360	340
31	276	---	431	600	---	3230	---	3240	---	295	441	---
TOTAL	7147	7972	10842	22484	13800	86720	77330	65482	28411	10638	12274	13066
MEAN	231	266	350	725	493	2797	2578	2112	947	343	396	436
MAX	297	306	566	1550	610	5630	4500	4400	3080	530	889	772
MIN	159	248	232	436	430	620	1600	480	292	255	268	340
CAL YR 1978	TOTAL	323653	MEAN 887	MAX 3620	MIN 159							
WTR YR 1979	TOTAL	356166	MEAN 976	MAX 5630	MIN 159							

SACO RIVER BASIN

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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 and period of no gage-height record, Oct. 1-3, 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.--63 years, 2,717 ft³/s (76.95 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, 18,000 ft³/s (510 m³/s) Apr. 30, gage height, 11.54 ft (3.517 m); minimum daily, 300 ft³/s (8.50 m³/s) Oct. 2.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	350	604	716	716	1550	1320	10800	17600	10700	1080	821	908
2	300	544	552	884	1510	1330	10200	16000	10700	1250	946	890
3	440	487	557	1500	1480	1340	10300	13900	10100	1510	1250	859
4	429	599	561	2050	1450	1370	9780	12300	9120	1510	1490	778
5	330	561	573	2200	1420	1500	9430	11100	8090	1480	1160	721
6	432	450	659	2100	1380	1700	8980	10100	7160	1380	946	762
7	565	540	837	2100	1350	2600	8370	9220	6010	1380	884	1230
8	569	447	778	2300	1320	5200	7650	8090	5390	1330	871	1620
9	586	540	871	3000	1290	7300	7130	7160	4560	1210	842	1660
10	540	476	884	3000	1260	7400	6810	6280	4180	1160	789	1510
11	495	586	933	2600	1230	7600	6450	5660	3800	1110	773	1420
12	432	544	716	2300	1210	9300	6180	5240	3600	1050	747	1320
13	381	472	599	2000	1180	8900	5990	5020	3290	997	1040	1110
14	391	595	757	1850	1150	8000	5840	4670	3080	865	1250	1050
15	595	544	848	1750	1130	7800	5700	4170	2690	848	1280	1130
16	590	458	848	1650	1100	7600	5610	3830	2490	837	1180	1390
17	726	586	848	1580	1080	7400	5530	3450	2320	871	1120	1570
18	742	640	810	1540	1060	7100	5370	3170	2030	952	1070	1460
19	682	636	831	1500	1040	6600	5310	3170	2160	1070	1050	1500
20	631	871	978	1470	1010	5920	5100	3000	1790	984	1040	1340
21	627	896	773	1440	990	6030	4720	2760	1690	1000	997	1290
22	622	821	940	1420	970	6620	4830	2730	1590	997	972	1320
23	613	810	731	1400	960	7600	5000	2570	1590	921	842	1260
24	523	810	578	1400	970	8090	5370	2940	1520	815	794	1180
25	622	706	711	1500	1050	9890	5570	5060	1440	773	778	1010
26	613	595	640	1580	1150	11100	5970	7490	1370	768	773	952
27	511	608	569	1600	1290	13100	6700	7970	1320	848	747	908
28	622	599	731	1600	1310	14900	8850	8630	1210	1150	701	871
29	582	604	650	1600	---	14300	13200	10100	1200	1060	721	865
30	480	604	548	1600	---	12900	17400	10300	1000	952	842	865
31	613	---	716	1580	---	11700	---	10600	---	871	952	---
TOTAL	16634	18233	22743	54810	33890	223510	224140	224280	117190	33029	29668	34749
MEAN	537	608	734	1768	1210	7210	7471	7235	3906	1065	957	1158
MAX	742	896	978	3000	1550	14900	17400	17600	10700	1510	1490	1660
MIN	300	447	548	716	960	1320	4720	2570	1000	768	701	721
CAL YR 1978	TOTAL	1003583	MEAN	2750	MAX	15400	MIN	295				
WTR YR 1979	TOTAL	1032876	MEAN	2830	MAX	17600	MIN	300				

SACO RIVER BASIN

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, >310 micromhos (monitor limitation) Nov. 6, Dec. 13, 23, 24, 26, 27; minimum, 16 micromhos Oct. 13.

WATER TEMPERATURES: Maximum, 28.5°C Aug. 6, 7; minimum, 0.0°C on many days during winter periods.

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979

DATE	TIME	STREAM- FLOW, INSTAN- TANEOUS (CFS)	SPE- CIFIC CON- DUCT- ANCE (MICRO- MHOS)	PH (UNITS)	TEMPER- ATURE, AIR (DEG C)	TEMPER- ATURE (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)
OCT											
10...	1545	495	52	6.6	16.5	12.5	1.0	10.7	100	12	K1
NOV											
14...	1130	622	50	6.6	9.5	6.0	1.0	12.0	96	K3	K3
JAN											
16...	1230	1630	52	5.9	9.0	.5	2.0	10.6	74	K2	10
MAR											
06...	1200	2000	60	6.3	9.0	.5	1.0	11.1	77	K6	K160
28...	1700	14900	33	6.0	7.0	2.0	4.0	13.2	95	K4	K7
APR											
24...	1345	5400	35	6.4	12.5	8.0	1.0	12.2	103	K16	K4
MAY											
22...	1300	2760	39	6.6	16.0	16.5	.00	9.5	96	20	K2
JUN											
21...	1230	1690	38	6.6	25.0	22.0	1.0	9.5	108	K10	K2
JUL											
17...	1130	859	44	6.7	27.0	23.0	1.0	8.2	94	58	22
AUG											
22...	1045	984	42	6.6	20.0	19.5	1.0	8.6	92	30	46
SEP											
26...	1700	936	40	6.6	16.5	16.0	1.0	8.9	89	K6	K35

DATE	HARD- NESS (MG/L AS CAC03)	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)	CARBON DIOXIDE DIS- SOLVED (MG/L AS CO2)
OCT											
10...	12	1	3.7	.6	4.0	40	.5	--	1.0	11	--
NOV											
14...	10	0	3.1	.5	3.8	44	.5	--	.7	13	--
JAN											
16...	12	5	3.7	.6	3.3	36	.4	--	.7	7	--
MAR											
06...	10	3	3.3	.5	3.8	43	.5	--	.7	7	--
28...	6	0	2.0	.3	2.2	41	.4	--	.6	7	--
APR											
24...	8	2	2.4	.4	2.6	41	.4	--	.5	6	--
MAY											
22...	8	4	2.5	.4	2.9	43	.5	--	.5	4	--
JUN											
21...	9	3	2.7	.5	3.2	42	.5	--	.5	6	--
JUL											
17...	9	3	2.9	.5	3.4	42	.5	4.1	.7	6	2.3
AUG											
22...	10	0	3.0	.5	3.1	40	.4	3.7	.6	11	5.4
SEP											
26...	8	3	2.7	.4	3.1	47	.5	3.7	.6	5	--

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979

DATE	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)	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)
OCT 10...	3.7	5.1	.4	7.6	41	33	.06	54.8	.10	--	.00
NOV 14...	3.7	4.3	.3	6.7	30	31	.04	50.4	.13	--	.03
JAN 16...	4.8	3.8	.3	7.3	39	29	.05	172	.22	--	.00
MAR 06...	4.1	5.3	.2	7.7	37	30	.05	200	.16	--	.06
28...	2.7	2.8	.1	4.8	25	20	.03	1010	.09	--	.01
APR 24...	3.0	3.2	.2	5.5	29	21	.04	423	.10	--	.01
MAY 22...	2.7	3.5	.2	5.7	29	21	.04	216	.11	--	.00
JUN 21...	4.0	3.9	.1	6.4	35	25	.05	160	.11	--	.02
JUL 17...	3.3	4.3	.3	5.6	27	25	.04	62.6	.12	--	.03
AUG 22...	4.0	4.2	.3	6.0	29	29	.04	77.0	.19	--	.06
SEP 26...	4.8	4.1	.3	6.3	31	26	.04	78.3	.09	.09	.01

DATE	NITRO- GEN, AMMONIA TOTAL (MG/L AS NH4)	NITRO- GEN, ORGANIC TOTAL (MG/L AS N)	NITRO- GEN,AM- MONIA ORGANIC TOTAL (MG/L AS N)	NITRO- GEN,AM- MONIA ORGANIC DIS- TOTAL (MG/L AS N)	NITRO- GEN, TOTAL (MG/L AS N)	NITRO- GEN, DIS- SOLVED TOTAL (MG/L AS N)	NITRO- GEN, TOTAL (MG/L AS N03)	PHOS- PHORUS, TOTAL (MG/L AS P)	PHOS- PHATE, TOTAL (MG/L AS P04)	PHOS- PHORUS TOTAL (MG/L AS P04)	PHOS- PHORUS, DIS- SOLVED (MG/L AS P)
OCT 10...	--	.22	.22	.28	.32	--	1.4	.01	--	--	.00
NOV 14...	--	.39	.42	.31	.55	--	2.4	.01	--	--	.00
JAN 16...	--	.61	.61	.00	.83	--	3.7	.00	--	--	.00
MAR 06...	--	.10	.16	.15	.32	--	1.4	.01	--	--	.00
28...	--	.30	.31	.24	.40	--	1.8	.02	--	--	.03
APR 24...	.01	.16	.17	--	.27	--	1.2	.01	.03	.03	.01
MAY 22...	.00	.17	.17	.20	.28	--	1.2	.00	.00	.00	.00
JUN 21...	.02	.13	.15	.12	.26	--	1.2	.01	.03	.03	.02
JUL 17...	.04	.39	.42	--	.54	--	2.4	.00	--	.00	.00
AUG 22...	.07	.28	.34	.25	.53	--	2.3	.00	--	.00	.00
SEP 26...	.01	.11	.12	.19	.21	.28	.93	.01	--	.03	.00

[illegible]

01066000 SACO RIVER AT CORNISH, ME--Continued

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979

DATE	COBALT, TOTAL RECOV- ERABLE (UG/L AS CO)	COBALT, SUS- PENDE D RECOV- ERABLE (UG/L AS CO)	COBALT, DIS- SOLVED (UG/L AS CO)	COPPER, TOTAL RECOV- ERABLE (UG/L AS CU)	COPPER, SUS- PENDE D RECOV- ERABLE (UG/L AS CU)	COPPER, DIS- SOLVED (UG/L AS CU)	IRON, TOTAL RECOV- ERABLE (UG/L AS FE)	IRON, SUS- PENDE D RECOV- ERABLE (UG/L AS FE)	IRON, DIS- SOLVED (UG/L AS FE)	LEAD, TOTAL RECOV- ERABLE (UG/L AS PB)	LEAD, SUS- PENDE D RECOV- ERABLE (UG/L AS PB)
OCT 10...	--	--	--	--	--	--	--	--	--	--	--
NOV 14...	0	0	0	2	0	3	250	180	70	18	3
JAN 16...	--	--	--	--	--	--	--	--	--	--	--
MAR 06...	4	3	1	2	0	3	230	100	130	9	3
MAR 28...	--	--	--	--	--	--	--	--	--	--	--
APR 24...	--	--	--	--	--	--	--	--	--	--	--
MAY 22...	1	0	1	6	2	4	350	70	280	12	5
JUN 21...	--	--	--	--	--	--	--	--	--	--	--
JUL 17...	--	--	--	--	--	--	--	--	--	--	--
AUG 22...	0	0	1	9	3	6	240	110	130	14	13
SEP 26...	--	--	--	--	--	--	--	--	--	--	--
DATE	LEAD, DIS- SOLVED (UG/L AS PB)	MANGA- NESE, TOTAL RECOV- ERABLE (UG/L AS MN)	MANGA- NESE, SUS- PENDE D RECOV- ERABLE (UG/L AS MN)	MANGA- NESE, 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)	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 10...	--	--	--	--	--	--	--	--	--	--	--
NOV 14...	15	10	0	10	<.5	.0	<.5	0	0	0	0
JAN 16...	--	--	--	--	--	--	--	--	--	--	--
MAR 06...	6	30	0	30	<.5	.0	<.5	0	0	0	0
MAR 28...	--	--	--	--	--	--	--	--	--	--	--
APR 24...	--	--	--	--	--	--	--	--	--	--	--
MAY 22...	7	30	10	20	<.5	.0	<.5	0	0	0	0
JUN 21...	--	--	--	--	--	--	--	--	--	--	--
JUL 17...	--	--	--	--	--	--	--	--	--	--	--
AUG 22...	1	10	0	10	<.5	<.0	<.5	0	0	0	1
SEP 26...	--	--	--	--	--	--	--	--	--	--	--
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 TOTAL (MG/L AS C)	SEDI- MENT, SUS- PENDE D (MG/L)	SEDI- MENT, DIS- CHARGE, SUS- PENDE D (T/DAY)	SED. SUSP. SIEVE DIAM. % FINER THAN .062 MM
OCT 10...	--	--	--	--	--	27	--	--	3	4.0	100
NOV 14...	0	0	0	0	--	--	11	.2	3	5.0	100
JAN 16...	--	--	--	--	--	5.6	--	--	5	22	60
MAR 06...	0	0	0	0	0	--	40	--	8	43	33
MAR 28...	--	--	--	--	--	16	--	--	92	3700	26
APR 24...	--	--	--	--	--	3.9	--	--	4	58	100
MAY 22...	0	0	30	20	7	--	5.1	.2	4	30	71
JUN 21...	--	--	--	--	--	4.0	--	--	1	4.6	100
JUL 17...	--	--	--	--	--	9.3	--	--	1	2.3	100
AUG 22...	1	0	10	0	20	--	5.2	.3	4	11	50
SEP 26...	--	--	--	--	--	3.9	--	--	1	2.5	100

01066000 SACO RIVER AT CORNISH, ME.--Continued

PHYTOPLANKTON ANALYSES, OCTOBER 1978 TO SEPTEMBER 1979

DATE TIME	NOV 14,78 1130	MAR 28,79 1700	MAY 22,79 1300	JUN 21,79 1230				
TOTAL CELLS/ML	430	210	0	39				
DIVERSITY: DIVISION	0.9	1.6	0.0	0.9				
..CLASS	1.6	1.6	0.0	0.9				
..ORDER	2.1	2.1	0.0	1.6				
...FAMILY	2.6	2.6	0.0	1.6				
....GENUS	0.0	2.8	0.0	1.6				
ORGANISM	CELLS /ML	PER- CENT	CELLS /ML	PER- CENT	CELLS /ML	PER- CENT	CELLS /ML	PER- CENT
CHLOROPHYTA (GREEN ALGAE)								
..CHLOROPHYCEAE								
...CHLOROCOCCALES								
....OOCYSTACEAE								
....ANKISTRODESMUS	--	-	15	7	--	-	13#	33
....CLOSTERIOPSIS	14	3	--	-	--	-	--	-
....KIRCHNERIELLA	--	-	10	5	--	-	--	-
....TETRAEDRON	--	-	5	2	--	-	--	-
..TETRASPORALES								
...PALMELLACEAE								
....SPHAEROCYSTIS	--	-	--	-	--	-	--	-
..VOLVOCALES								
...CHLAMYDOMONADACEAE	72#	17	--	-	--	-	--	-
....CHLAMYDOMONAS	43	10	--	-	--	-	13#	33
CHRYSTOPHYTA								
..BACILLARIOPHYCEAE								
...CENTRALES								
...COSCINODISCACEAE								
....CYCLOTELLA	--	-	35#	17	--	-	--	-
....MELOSIRA	58	13	--	-	--	-	--	-
..PENNALES								
...ACHNANTHACEAE								
....ACHNANTHES	43	10	--	-	--	-	--	-
...CYMBELLACEAE								
....CYMBELLA	--	-	10	5	--	-	--	-
...DIATOMACEAE								
....DIATOMA	--	-	5	2	--	-	--	-
...FRAGILARIACEAE								
....FRAGILARIA	--	-	60#	29	--	-	--	-
....SYNEDRA	29	7	--	-	--	-	--	-
...GOMPHONEMACEAE								
....GOMPHONEMA	14	3	--	-	--	-	--	-
...NAVICULACEAE								
....NAVICULA	--	-	--	-	--	-	--	-
...NITZSCHACEAE								
....NITZSCHIA	--	-	10	5	--	-	--	-
...TABELLARIACEAE								
....TABELLARIA	29	7	--	-	--	-	--	-
..CHRYSTOPHYCEAE								
...CHRYSOMONADALES								
....OCHROMONADACEAE								
....DINOBRYON	14	3	--	-	--	-	--	-
....OCHROMONAS	120#	27	--	-	--	-	--	-
CRYPTOPHYTA (CRYPTOMONADS)								
..CRYPTOPHYCEAE								
...CRYPTOMONADALES								
....CRYPTOMONADACEAE								
....CRYPTOMONAS	--	-	--	-	--	-	--	-
CYANOPHYTA (BLUE-GREEN ALGAE)								
..CYANOPHYCEAE								
...CHROOCOCCALES								
....CHROOCOCCACEAE								
....AGMENELLUM	--	-	--	-	--	-	--	-
....ANACYSTIS	--	-	--	-	--	-	--	-
...GOMPHOSPHAERIA	--	-	--	-	--	-	--	-
..HORMOGONALES								
...OSCILLATORIACEAE								
....OSCILLATORIA	--	-	50#	24	--	-	--	-
EUGLENOPHYTA (EUGLENOIDS)								
..EUGLENOPHYCEAE								
...EUGLENALES								
....EUGLENACEAE								
....EUGLENA	--	-	10	5	--	-	--	-
....TRACHELOMONAS	--	-	--	-	--	-	--	-
PYRRHOPHYTA (FIRE ALGAE)								
..DINOPHYCEAE								
...PERIDINIALES								
....GLENODINIACEAE								
....GLENODINIUM	--	-	--	-	--	-	13#	33

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 1978 TO SEPTEMBER 1979

DATE TIME	JUL 17.79 1130	AUG 22.79 1045	SEP 26.79 1700
TOTAL CELLS/ML	4400	52	26
DIVERSITY: DIVISION	1.0	0.8	1.0
..CLASS	1.0	0.8	1.0
...ORDER	1.2	0.8	1.0
...FAMILY	1.3	0.8	1.0
...GENUS	2.3	0.8	1.0

ORGANISM	CELLS /ML	PER- CENT	CELLS /ML	PER- CENT	CELLS /ML	PER- CENT
CHLOROPHYTA (GREEN ALGAE)						
..CHLOROPHYCEAE						
...CHLOROCOCCALES						
...OOCYSTACEAE						
....ANKISTHODESMUS	--	-	--	-	--	-
....CLOSTERIOPSIS	--	-	--	-	--	-
....KIRCHNERIELLA	--	-	--	-	--	-
....TETRAEDRON	--	-	--	-	13#	50
..TETRASPORALES						
...PALMELLACEAE						
....SPHAEROCYSTIS	670#	15	--	-	--	-
...VOLVOCALES						
...CHLAMYDOMONADACEAE	--	-	--	-	--	-
....CHLAMYDOMONAS	28	1	--	-	--	-
CHRYSOPHYTA						
..BACILLARIOPHYCEAE						
...CENTRALES						
...COSCINODISCEAE						
....CYCLOTELLA	28	1	--	-	--	-
....MELOSIRA	--	-	--	-	--	-
...PENNALES						
....ACHNANTHACEAE						
....ACHNANTHES	130	3	13#	25	--	-
...CYMBELLACEAE						
....CYMBELLA	--	-	--	-	--	-
...DIATOMACEAE						
....DIATOMA	--	-	--	-	--	-
...FRAGILARIACEAE						
....FRAGILARIA	--	-	--	-	--	-
....SYNEDRA	--	-	--	-	--	-
...GOMPHONEMATACEAE						
....GOMPHONEMA	*	0	--	-	--	-
...NAVICULACEAE						
....NAVICULA	28	1	--	-	--	-
...NITZSCHIA						
....NITZSCHIA	--	-	--	-	13#	50
...TABELLARIACEAE						
....TABELLARIA	--	-	--	-	--	-
..CHRYSOPHYCEAE						
...CHRYSOMONADALES						
...OCHROMONADACEAE						
....DINOBRYON	--	-	--	-	--	-
....OCHROMONAS	--	-	--	-	--	-
CRYPTOPHYTA (CRYPTOMONADS)						
..CRYPTOPHYCEAE						
...CRYPTOMONADALES						
...CRYPTOMONADACEAE						
....CRYPTOMONAS	--	-	39#	75	--	-
CYANOPHYTA (BLUE-GREEN ALGAE)						
..CYANOPHYCEAE						
...CHROOCOCCALES						
...CHROOCOCCACEAE						
....AGMENELLUM	1600#	35	--	-	--	-
....ANACYSTIS	350	8	--	-	--	-
...GOMPHOSPHAERIA	1400#	32	--	-	--	-
...HORMOGONALES						
...OSCILLATORIA						
....OSCILLATORIA	140	3	--	-	--	-
EUGLENOPHYTA (EUGLENOIDS)						
..EUGLENOPHYCEAE						
...EUGLENALES						
...EUGLENACEAE						
....EUGLENA	--	-	--	-	--	-
....TRACHELOMONAS	70	2	--	-	--	-
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

BIOLOGICAL DATA, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979

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 11 TO OCT 10	29	---	---	.760	.170	---
MAY 22 TO JUN 21	30	.710	.160	.180	.000	3060
JUN 21 TO JUL 17	26	.390	.240	.280	.130	536
JUL 17 TO AUG 22	36	.710	.550	3.68	.500	43.5
AUG 22 TO SEP 26	35	.310	.240	.250	.000	280

01066000 SACO RIVER AT CORNISH, ME--Continued

SPECIFIC CONDUCTANCE (MICROMHOS/CM AT 25 DEG. C), WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
OCTOBER			NOVEMBER			DECEMBER			JANUARY			
1	65	22	43	52	51	51	55	53	54	63	62	63
2	70	24	44	90	51	55	171	53	95	63	58	61
3	60	20	39	178	48	97	67	50	52	64	56	58
4	69	48	51	52	51	51	54	50	52	130	55	72
5	137	43	74	70	50	52	63	54	57	75	46	61
6	113	45	66	310	50	---	56	53	54	64	44	47
7	53	51	52	145	51	58	58	53	55	49	46	47
8	52	51	52	271	50	131	55	54	54	52	49	50
9	52	50	51	111	52	56	54	53	54	52	50	51
10	51	49	50	241	52	112	81	53	59	52	50	51
11	49	46	47	54	53	54	72	52	63	55	49	51
12	70	45	49	83	53	56	247	52	76	50	48	49
13	87	16	56	123	51	68	310	105	---	50	49	49
14	69	59	62	54	52	53	104	58	84	54	50	52
15	59	51	55	185	52	63	88	57	67	52	51	52
16	51	39	43	209	49	87	98	69	79	56	50	53
17	50	48	49	51	49	50	123	82	104	54	53	53
18	52	50	51	53	49	51	153	107	133	54	53	53
19	54	48	50	53	51	53	207	106	166	55	52	53
20	51	46	48	52	51	52	118	69	80	54	52	53
21	47	44	47	53	50	52	272	87	161	56	54	55
22	48	47	47	53	45	49	87	68	80	58	56	57
23	49	47	48	47	43	45	310	56	---	59	56	57
24	76	44	52	49	46	48	310	105	---	57	56	57
25	49	47	48	52	49	50	112	62	74	58	57	58
26	53	49	50	51	49	50	310	69	---	58	58	58
27	170	47	68	50	48	49	310	137	---	58	58	58
28	51	50	50	51	49	50	134	80	110	58	58	58
29	58	50	52	56	50	53	306	75	111	59	58	59
30	198	47	101	58	53	55	310	165	---	59	58	59
31	53	50	51	---	---	---	156	62	90	59	58	58
MONTH	198	16	53	310	43	60	310	50	83	130	44	55

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
FEBRUARY			MARCH			APRIL			MAY			
1	59	58	59	65	62	64	44	42	43	42	39	41
2	60	58	59	65	63	64	44	43	44	41	37	39
3	61	58	59	63	62	62	44	42	43	41	37	39
4	59	56	58	64	62	63	42	41	42	41	39	41
5	58	56	57	65	63	64	41	41	41	41	38	40
6	59	55	57	65	62	64	41	40	40	40	37	39
7	56	55	56	62	58	60	41	40	40	41	39	40
8	58	56	57	58	51	55	41	39	40	40	37	38
9	58	55	56	52	50	51	40	39	40	37	35	36
10	56	54	55	52	52	52	41	39	40	40	36	37
11	57	54	55	52	49	51	42	40	41	43	40	41
12	58	55	56	53	48	50	41	39	40	43	41	42
13	56	54	55	50	47	49	40	39	40	44	42	43
14	58	55	56	52	49	50	39	38	39	---	---	---
15	59	55	57	50	47	49	39	38	39	---	---	---
16	59	57	58	48	45	47	40	39	39	---	---	---
17	58	56	57	48	47	48	40	39	40	---	---	---
18	59	56	57	52	46	49	41	39	40	---	---	---
19	59	56	58	52	50	51	40	38	39	---	---	---
20	62	57	59	51	49	50	39	37	38	---	---	---
21	62	59	61	53	49	51	39	37	38	---	---	---
22	63	61	62	53	49	51	38	35	37	---	---	---
23	62	61	62	52	47	50	38	35	37	37	36	37
24	63	62	62	47	43	45	42	33	37	37	37	37
25	66	63	64	45	43	44	41	39	40	38	37	37
26	64	62	62	44	42	43	41	39	40	37	35	36
27	62	62	62	43	41	42	41	39	40	36	35	36
28	66	61	64	41	38	39	42	40	41	36	35	35
29	---	---	---	42	37	38	44	41	43	37	35	36
30	---	---	---	44	42	42	45	41	43	36	35	36
31	---	---	---	43	42	43	---	---	---	37	35	36
MONTH	66	54	59	65	37	51	45	33	40	44	35	38

01066000 SACO RIVER AT CORNISH, ME--Continued

SPECIFIC CONDUCTANCE (MICROMHOS/CM AT 25 DEG. C), WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
	JUNE			JULY			AUGUST			SEPTEMBER		
1	37	35	36	46	43	44	45	43	44	45	43	45
2	35	34	35	46	44	45	43	43	43	45	43	44
3	36	34	35	45	43	44	44	43	43	45	43	44
4	35	33	34	43	35	40	43	42	43	46	42	45
5	35	34	34	36	34	35	46	43	44	46	42	44
6	36	34	35	36	35	35	47	44	46	51	43	47
7	35	33	34	38	36	37	47	45	46	44	41	42
8	35	33	34	40	38	39	46	45	46	43	43	43
9	38	35	36	40	40	40	45	42	44	44	33	37
10	39	37	38	41	40	41	48	43	44	34	32	33
11	38	36	37	43	41	41	55	44	47	35	34	34
12	37	35	36	44	42	43	52	45	48	37	34	35
13	36	34	35	44	43	43	49	44	45	39	37	38
14	37	34	36	44	43	44	47	45	46	40	39	39
15	37	35	36	44	43	44	47	43	45	40	40	40
16	39	35	37	46	44	45	43	40	42	40	39	40
17	39	36	37	55	45	46	40	36	38	40	33	38
18	38	37	37	46	45	46	40	37	38	34	31	33
19	40	37	38	46	46	46	41	39	40	34	33	33
20	40	37	38	46	45	46	43	40	41	35	32	33
21	39	36	37	45	43	44	43	40	42	38	35	36
22	39	37	38	44	42	43	45	43	42	40	37	39
23	40	39	39	43	42	43	45	41	43	40	39	39
24	40	39	40	44	43	43	46	43	44	41	39	40
25	40	39	40	45	44	45	46	43	45	41	40	40
26	40	39	40	47	45	45	65	45	51	42	38	40
27	42	39	40	47	45	46	66	52	59	39	37	38
28	41	40	41	47	44	46	63	46	53	39	37	38
29	42	40	41	48	46	47	52	45	48	39	38	38
30	44	41	42	50	47	48	50	44	47	40	38	39
31	---	---	---	50	45	48	46	43	45	---	---	---
MONTH	44	33	37	55	34	43	66	36	45	51	31	39
YEAR	310	16	50									

TEMPERATURE, WATER (DEG. C), WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979

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

01066500 LITTLE OSSIPEE RIVER NEAR SOUTH LIMINGTON, ME

LOCATION.--Lat 43°41'22", long 70°40'15", York County, Hydrologic Unit 01060002, on right bank 25 ft (8 m) upstream from highway bridge, 2 mi (3 km) southeast of South Limington, and 5.8 mi (9.3 km) upstream from mouth.

DRAINAGE AREA.--161 mi² (417 km²).

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

GAGE.--Water-stage recorder. Datum of gage is 273.84 ft (83.466 m) National Geodetic Vertical Datum of 1929.

REMARKS.--Records good except those for winter period, which are fair. Flow regulated by Little Ossipee Lake, Ledgemere and Balch Ponds, combined capacity, 581,000,000 ft³ (16,450,000 m³). Several observations of water temperature and specific conductance were made during the year.

AVERAGE DISCHARGE.--39 years, 293 ft³/s (8.298 m³/s).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 5,760 ft³/s (163 m³/s) Mar. 15, 1977, gage height, 7.04 ft (2.146 m); minimum daily, 1.7 ft³/s (0.048 m³/s) Oct. 7, 1965.

EXTREMES OUTSIDE PERIOD OF RECORD.--Maximum discharge known, 8,530 ft³/s (242 m³/s) Mar. 19, 1936, at Ledgemere Dam 3.6 mi (5.8 km) upstream.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 2,910 ft³/s (82.4 m³/s) Mar. 26, gage height, 5.37 ft (1.637 m); minimum daily, 8.2 ft³/s (0.23 m³/s) Dec. 20.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	113	44	94	72	165	145	1040	857	680	105	135	90
2	115	46	94	118	160	135	1070	714	648	135	132	87
3	113	42	94	282	155	125	1240	499	556	132	144	83
4	113	40	94	300	155	125	1420	360	515	121	138	78
5	90	42	94	250	150	140	1350	110	504	110	127	72
6	18	42	94	200	145	200	1260	298	346	97	110	76
7	14	43	94	185	145	280	1100	351	44	92	92	94
8	14	54	115	242	140	400	958	355	159	87	90	87
9	13	62	182	319	140	600	865	333	302	80	83	159
10	14	121	182	300	135	850	857	311	269	78	80	115
11	13	273	144	275	130	1090	934	286	246	70	105	43
12	31	266	14	260	130	1190	872	254	242	66	110	43
13	105	262	14	240	125	1090	857	246	231	66	258	49
14	156	258	57	220	125	895	835	254	185	68	324	55
15	192	254	102	205	125	888	805	273	74	62	188	76
16	185	254	175	195	120	942	762	360	162	64	68	76
17	172	209	172	190	120	762	728	355	147	90	92	72
18	165	105	124	185	120	610	707	269	121	144	99	68
19	150	99	19	180	115	574	466	220	92	220	113	64
20	138	97	8.2	175	115	592	68	227	118	212	124	57
21	118	97	17	170	115	694	66	231	124	182	118	55
22	105	97	55	165	110	950	62	235	118	153	110	85
23	85	97	64	165	110	1270	58	220	115	127	99	99
24	68	97	62	160	125	1590	198	250	107	107	90	97
25	57	97	90	175	140	1980	444	728	94	92	87	92
26	54	97	85	190	160	2780	574	1330	87	85	83	85
27	58	94	76	185	170	2520	568	1370	85	102	80	76
28	55	94	70	175	160	1840	1020	1160	80	150	83	80
29	50	94	66	170	---	1360	1120	982	76	178	80	94
30	46	94	64	160	---	1090	958	700	74	165	94	102
31	47	---	62	170	---	1010	---	604	---	147	94	---
TOTAL	2667	3571	2677.2	6278	3805	28717	23262	14742	6601	3587	3630	2409
MEAN	86.0	119	86.4	203	136	926	775	476	220	116	117	80.3
MAX	192	273	182	319	170	2780	1420	1370	680	220	324	159
MIN	13	40	8.2	72	110	125	58	110	44	62	68	43
CAL YR 1978	TOTAL	111749.2	MEAN	306	MAX	2300	MIN	8.2				
WTR YR 1979	TOTAL	101946.2	MEAN	279	MAX	2780	MIN	8.2				

MOUSAM RIVER BASIN

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.--40 years, 181 ft³/s (5.126 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, 1,520 ft³/s (43.0 m³/s) Mar. 25, gage height, 3.66 ft (1.116 m); minimum daily, 1.5 ft³/s (0.042 m³/s) Oct. 28.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	7.5	54	59	6.1	213	196	652	495	495	278	91	19
2	9.0	1.6	5.7	7.4	198	242	656	444	437	102	100	19
3	9.7	1.6	5.7	89	191	230	821	410	396	5.9	23	21
4	10	1.6	5.5	147	186	218	769	455	363	2.6	24	101
5	92	1.7	5.7	147	184	237	733	411	294	2.5	24	141
6	89	1.8	5.8	58	183	365	699	330	224	2.3	22	96
7	18	2.0	6.1	118	182	757	639	299	210	6.9	20	16
8	18	2.2	6.4	187	164	954	566	276	209	36	20	15
9	17	99	6.9	211	155	865	550	254	190	41	17	15
10	17	111	6.4	253	154	763	566	226	185	39	18	15
11	112	6.1	6.6	218	152	860	562	194	180	37	18	71
12	144	6.1	82	194	152	781	545	182	180	61	18	63
13	52	4.1	146	188	139	641	522	203	153	62	113	65
14	8.7	89	49	187	130	573	497	197	116	21	146	66
15	8.3	155	5.7	173	130	624	480	185	88	30	100	15
16	5.3	108	5.7	152	130	544	468	194	74	75	13	15
17	2.3	6.0	5.9	136	128	483	453	184	65	150	13	15
18	2.5	6.5	5.8	133	128	429	437	179	84	116	15	56
19	2.6	6.5	98	133	128	403	425	177	97	106	17	16
20	2.8	99	147	133	128	431	407	178	71	79	17	15
21	3.0	152	52	134	128	540	385	175	61	19	18	16
22	3.3	54	5.6	134	128	718	272	153	56	21	67	72
23	95	5.7	5.7	134	128	815	237	113	60	21	113	16
24	19	6.2	5.7	135	136	915	220	197	55	90	61	69
25	1.6	6.1	6.4	79	144	1270	210	547	48	113	18	67
26	102	6.0	68	229	146	1360	216	879	45	21	18	69
27	82	97	145	240	147	1070	396	716	47	21	18	68
28	1.5	142	144	232	147	852	738	611	68	21	19	60
29	1.6	133	49	218	---	726	640	573	59	22	21	82
30	87	148	5.2	222	---	643	554	555	117	23	20	15
31	142	---	5.3	228	---	663	---	566	---	24	75	---
TOTAL	1165.7	1512.8	1156.8	4855.5	4259	20168	15315	10558	4727	1649.2	1277	1389
MEAN	37.6	50.4	37.3	157	152	651	511	341	158	53.2	41.2	46.3
MAX	144	155	147	253	213	1360	821	879	495	278	146	141
MIN	1.5	1.6	5.2	6.1	128	196	210	113	45	2.3	13	15
†	307	307	322	335	408	535	540	539	479	447	434	404

CAL YR 1978 TOTAL 67695.5 MEAN 185 MAX 1470 MIN 1.5
WTR YR 1979 TOTAL 68033.0 MEAN 186 MAX 1360 MIN 1.5

† Monthend contents, in millions of cubic feet, in Square Pond and Mousam Lake; records furnished by town of Sanford.

PISCATAQUA RIVER BASIN

195

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). See table below for figures of monthend contents. Several observations of water temperature and specific conductance were made during the year.

AVERAGE DISCHARGE.--11 years, 207 ft³/s (5.862 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, 1,730 ft³/s (49.0 m³/s) Mar. 26, gage height, 5.48 ft (1.670 m); minimum daily, 31 ft³/s (0.88 m³/s) Feb. 21-22.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	35	138	43	42	150	95	692	493	235	42	37	35
2	35	138	43	43	150	115	678	412	235	42	37	35
3	35	138	41	84	150	140	725	264	240	42	37	35
4	35	138	41	146	150	170	813	181	240	42	37	35
5	35	132	41	167	150	200	814	246	236	42	37	35
6	40	107	40	167	150	250	782	261	228	42	37	35
7	45	116	40	167	150	383	714	261	201	42	37	35
8	47	119	40	181	150	727	632	254	176	42	36	35
9	50	119	40	214	150	1010	496	229	169	42	36	35
10	62	99	42	235	147	1030	459	223	167	42	36	35
11	105	95	41	311	141	944	414	144	141	42	36	35
12	101	85	39	341	136	1020	374	105	116	42	36	35
13	97	78	39	300	135	962	315	115	87	42	36	35
14	93	210	39	270	135	738	268	117	59	42	36	35
15	93	180	39	238	134	650	313	130	59	42	36	35
16	93	130	39	213	133	600	378	140	59	42	36	35
17	93	91	39	193	131	560	389	145	59	42	36	35
18	93	83	39	180	130	520	398	145	59	42	36	35
19	95	77	39	168	130	500	410	145	52	42	36	35
20	109	71	39	157	77	495	413	140	48	42	36	35
21	109	66	39	153	31	520	407	130	48	41	36	35
22	109	60	39	153	31	650	394	115	48	41	36	36
23	111	57	39	151	35	793	382	105	48	40	36	37
24	153	56	39	150	45	930	345	140	48	37	36	37
25	150	55	39	150	50	1280	326	800	48	37	36	39
26	134	50	40	150	58	1690	321	1100	44	37	36	41
27	131	48	44	150	67	1630	297	1050	42	37	36	43
28	130	46	44	150	80	1250	410	750	42	37	36	43
29	128	44	44	150	---	965	475	350	42	37	36	43
30	112	43	43	150	---	793	501	250	42	37	35	49
31	132	---	42	150	---	704	---	235	---	37	35	---
TOTAL	2790	2869	1255	5474	3176	22314	14335	9175	3318	1258	1121	1103
MEAN	90.0	95.6	40.5	177	113	720	478	296	111	40.6	36.2	36.8
MAX	153	210	44	341	150	1690	814	1100	240	42	37	49
MIN	35	43	39	42	31	95	268	105	42	37	35	35
CAL YR 1978	TOTAL	65435	MEAN 179	MAX 1770	MIN 35							
WTR YR 1979	TOTAL	68188	MEAN 187	MAX 1690	MIN 31							

DISCHARGE AT PARTIAL-RECORD STATIONS AND MISCELLANEOUS SITES

DISCHARGE MEASUREMENTS MADE AT MISCELLANEOUS SITES DURING WATER YEAR 1979

Stream	Tributary to	Location	Drainage area (mi ²)	Measured previously (water years)	Measurements	
					Date	Discharge (ft ³ /s)
Narraguagus River Basin						
Narraguagus River	Atlantic Ocean	Lat 44°36'26", long 67°55'42", Washington County, bridge on town road .75 mi (1.2 km) up- stream of U.S. Route 1 bridge, at Cherryfield.			01-03-79	3570
Union River Basin						
Indian Camp Brook	West Branch Union River	Lat 44°50'03", long 68°22'56", Hancock County, downstream side of bridge on Tannery Road, near Amherst.			03-30-79	19
Penobscot River Basin						
Mattakeunk Stream	Mattawamkeag River	Lat 45°29'15", long 68°18'24", Penobscot County, upstream of bridge on private road, 2.7 mi (4.3 km) east of Mattawamkeag.			10-20-78	46
St. George River Basin						
St. George River	Atlantic Ocean	Lat 44°07'23", long 69°14'40", Knox County, upstream side of bridge on State Highway 90, at Warren.		1977- 1978	10-16-78	17
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	10-13-78 04-25-79 05-31-79	46 41 39
Sandy River	Kennebec River	Lat 44°48'10", long 70°13'18", Franklin County, downstream side of bridge on State Highway 145, at Strong.		1977- 1978	10-06-78	85
Sebasticook River	Kennebec River	Lat 44°52'58", long 69°26'58", Somerset County, on left bank approximately 200 ft downstream of bridge on State Highway 152, at Hartland.			06-07-79 06-11-79 07-23-79	729 388 24
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.			06-11-79 07-23-79 07-27-79 08-01-79	52 3.9 3.8 2.4
Sebasticook River	Kennebec River	Lat 44°50'02", long 69°24'26", Somerset County, upstream side of bridge on U.S. Route 2, at West Palmyra.			06-07-79 06-11-79 06-13-79	905 508 377
Sebasticook River	Kennebec River	Lat 44°46'57", long 69°22'47", Somerset County, upstream side of bridge on State Highway 69, at Pittsfield.			06-04-79 06-13-79 07-17-79 07-20-79 07-31-79 09-18-79	2200 457 20 18 25 87
East Branch Sebasticook River	Sebasticook River	Lat 45°01'14", long 69°17'34", Penobscot County, on right bank 25 ft (7.6 m) upstream from old dam on Liberty Street, at Dexter.	12.1	many	06-04-79 07-25-79 07-30-79 09-28-79	46 10 19 14
East Branch Sebasticook River	Sebasticook River	Lat 44°57'16", long 69°16'52", Penobscot County, on right bank 25 ft (7.6 m) above bridge, at Lincoln Mills.	29.4	many	06-04-79 06-05-79 07-25-79 08-02-79 09-26-79	109 102 11 21 15
East Branch Sebasticook River	Sebasticook River	Lat 44°54'58", long 69°15'32", Penobscot County, on left bank 500 ft (152 m) downstream from Moosehead Pond Dam, at Corinna.	35.4	many	06-05-79 06-06-79 06-07-79 07-26-79 08-01-79 09-28-79	117 105 98 11 9.5 8.2
Alder Stream	East Branch Sebasticook River	Lat 44°54'44", long 69°15'00", Penobscot County, on left down- stream abutment of bridge on State Highway 222, near Corinna.	15.7	many	06-05-79 06-07-79 07-26-79 08-01-79	0.32 8.2 0.26 0.23

DISCHARGE MEASUREMENTS MADE AT MISCELLANEOUS SITES DURING WATER YEAR 1979.--Continued

Stream	Tributary to	Location	Drainage area (mi ²)	Measured previously (water years)	Measurements	
					Date	Discharge (ft ³ /s)
Kennebec River Basin.--Continued						
East Branch Sebasticook River	Sebasticook River	Lat 44°53'09", long 69°15'07", Penobscot County, on upstream side of bridge on town road, near Coburn.			06-05-79	135
					06-07-79	128
					06-08-79	83
East Branch Sebasticook River	Sebasticook River	Lat 44°50'04", long 69°16'22", Penobscot County, on right bank 100 ft (30.5 m) below dam on U.S. Highway 2, at Newport.	127	many	06-04-79	850
					06-05-79	708
					06-12-79	220
					07-26-79	34
					08-02-79	50
East Branch Sebasticook River	Sebasticook River	Lat 44°46'31", long 69°17'46", Somerset County, on downstream side of bridge on State Highway 220, at Detroit.			09-26-79	159
					06-04-79	1240
					06-05-79	1130
					06-06-79	990
					07-23-79	68
Sebasticook River	Kennebec River	Lat 44°45'00", long 60°20'40", Somerset County, upstream of Peltoma bridge on Horseback Road, near Pittsfield.			07-31-79	74
					09-27-79	190
					06-04-79	3630
					06-05-79	3290
					06-06-79	2780
Sebasticook River	Kennebec River	Lat 44°41'32", long 69°25'38", Waldo County, upstream side of bridge on town road, 100 ft (30.5 m) east of junction of State Highway 100, at Burnham.			07-17-79	101
					07-20-79	93
					07-31-79	121
					06-05-79	3950
					06-06-79	3610
Sebasticook River	Kennebec River	Lat 44°38'08", long 69°30'06", Kennebec County, downstream side of bridge on town road, 0.2 mi (0.3 km) east of junction of State Highway 100, at Clinton.			07-17-79	126
					07-23-79	129
					09-21-79	470
					06-05-79	4780
					06-06-79	3830
Johnson Brook	Lovejoy Pond	Lat 44°30'09", long 69°29'15", Kennebec County, approximately 25 ft (7.6 m) downstream of culvert on State Highway 137, at Albion.			07-17-79	136
					07-20-79	207
					07-23-79	162
					08-03-79	137
					09-24-79	483
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.			03-29-79	22
					04-26-79	5.0
					06-28-79	.75
					08-08-79	.24
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.			03-29-79	2.3
					04-26-79	1.2
					06-28-79	.47
Mill Stream	Fifteen-mile Stream	Lat 44°31'56", long 69°27'18", Kennebec County, approximately 25 ft (7.6 m) upstream of culvert on town road, near Albion.			04-26-79	25
					06-28-79	6.7
					08-07-79	1.1
Sebasticook River	Kennebec River	Lat 44°35'08", long 69°33'00", Kennebec County, downstream side of bridge on State Highway 138, at Benton.		1975	07-18-79	196
					07-23-79	178
					09-20-79	518
Pattee Brook	Sebasticook River	Lat 44°34'11", long 69°33'50", Kennebec County, upstream end of culvert on town road, near Benton Falls.			06-12-79	41
Outlet Stream	Sebasticook River	Lat 44°31'33", long 69°36'54", Kennebec County, downstream end of culvert on State Highway 137, 30 ft (9.1 m) southwest of junction with Dunbar Road, at Hayden Corner.			06-07-79	185
					07-18-79	27
					07-19-79	27
					07-27-79	38
					09-21-79	28
Sebasticook River	Kennebec River	Lat 44°32'19", long 69°37'45", Kennebec County, upstream side of bridge on U.S. Route 201, at Winslow.			06-07-79	3990
					06-08-79	3090
					07-18-79	54
					07-19-79	1370
					07-20-79	55
					07-27-79	1380
Unnamed Tributary	McGrath Pond	Lat 44°34'12", long 69°46'03", Kennebec County, downstream side of culvert on McGrath Pond Road, 2.86 mi (4.6 km) from junction of State High- way 8 and McGrath Pond Road, near North Belgrade.	.66	1978	09-21-79	1700
					01-13-79	5.9
Unnamed Tributary	McGrath Pond	Lat 44°33'59", long 69°46'07", Kennebec County, downstream side of culvert on McGrath Pond Road, 2.57 mi (4.13 km) from junction of State Highway 8 and McGrath Pond Road, near North Belgrade.	.13	1978	08-06-79	0
					01-03-79	3.7
Unnamed Tributary	McGrath Pond	Lat 44°33'59", long 69°46'07", Kennebec County, downstream side of culvert on McGrath Pond Road, 2.57 mi (4.13 km) from junction of State Highway 8 and McGrath Pond Road, near North Belgrade.	.13	1978	08-06-79	0

DISCHARGE AT PARTIAL-RECORD STATIONS AND MISCELLANEOUS SITES

DISCHARGE MEASUREMENTS MADE AT MISCELLANEOUS SITES DURING WATER YEAR 1979.--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	McGrath Pond	Lat 44°34'08", long 69°45'14", Kennebec County, downstream side of culvert on McGrath Pond Road, 3.56 mi (5.73 km) from junction of State Highway 8 and McGrath Pond Road, near North Belgrade.	.56	1978	03-25-79 03-31-79 06-11-79 08-06-79	33 2.8 .23 < .01
Unnamed Tributary	McGrath Pond	Lat 44°33'42", long 69°46'19", Kennebec County, downstream side of culvert on McGrath Pond Road, 2.19 mi (3.52 km) from junction of State Highway 8 and McGrath Pond Road, near North Belgrade.	.05	1978	04-01-79 06-11-79 08-06-79	.25 < .01 < .01
Unnamed Tributary	McGrath Pond	Lat 44°33'54", long 69°44'58", Kennebec County, downstream side of culvert bolt painted red, 5.75 mi (9.25 km) from North Belgrade on Town Farm Road, .42 mi (.68 km) from junction of McGrath Pond Road and State Highway 117, near North Belgrade.	.32	1978	08-06-79	.01
Unnamed Tributary	McGrath Pond	Lat 44°33'49", long 69°44'58", Kennebec County, downstream side of culvert 6.06 mi (9.75 km) from North Belgrade on Town Farm Road, .26 mi (.42 km) from junction of State Highway 137 and Town Farm Road, near North Belgrade.	.04	1978	03-31-79 08-06-79	.07 0
Unnamed Tributary	McGrath Pond	Lat 44°33'35", long 69°45'06", Kennebec County, downstream side of culvert on Town Farm Road, 6.17 mi (9.92 km) from North Belgrade and .40 mi (.64 km) from junction of State Highway 137 and Town Farm Road, near North Belgrade.	.02	1978	01-03-79 07-13-79 08-06-79	1.5 0 0
Unnamed Tributary	McGrath Pond	Lat 44°33'30", long 69°45'09", Kennebec County, downstream side of culvert on Town Farm Road, 6.30 mi (10.14 km) from North Belgrade and .53 mi (.85 km) from junction of State Highway 137 and Town Farm Road, near North Belgrade.	.25	1978	08-06-79	0
Unnamed Tributary	McGrath Pond	Lat 44°33'33", long 69°46'23", Kennebec County, downstream side of culvert on McGrath Pond Road 1.97 mi (3.17 km) from junction of State Highway 8 and McGrath Pond Road, near North Belgrade.	.05	1978	06-11-79 08-06-79	.03 0
Unnamed Tributary	McGrath Pond	Lat 44°33'12", long 69°45'21", Kennebec County, downstream side of culvert on Town Farm Road 6.68 mi (10.75 km) from North Belgrade and .92 mi (1.48 km) from junction of State Highway 137 and Town Farm Road, near North Belgrade.	.03	1978	01-03-79 08-06-79	.06 0
Unnamed Tributary	McGrath Pond	Lat 44°32'59", long 69°45'32", Kennebec County, red mark on down- stream side of lower culvert 6.98 mi (11.23 km) from North Belgrade on Town Farm Road, 1.19 mi (1.91 km) from junction of State Highway 137 and Town Farm Road, near North Belgrade.	.19	1978	08-06-79	0
Unnamed Tributary	McGrath Pond	Lat 44°32'47", long 69°45'40", Kennebec County, downstream side of culvert on Town Farm Road 7.24 mi (11.65 km) from North Belgrade and 1.44 mi (2.32 km) from junction of State Highway 137 and Town Farm Road, near North Belgrade.	.03	1978	08-06-79	0
Unnamed Tributary	McGrath Pond	Lat 44°32'35", long 69°45'45", Kennebec County, downstream side of culvert on Town Farm Road 7.44 mi (11.97 km) from North Belgrade and 1.64 mi (2.64 km) from junction of State Highway 137 and Town Farm Road, near North Belgrade.	.05	1978	03-31-79 06-11-79 07-13-79 08-06-79	.23 .02 0 0

DISCHARGE AT PARTIAL-RECORD STATIONS AND MISCELLANEOUS SITES

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DISCHARGE MEASUREMENTS MADE AT MISCELLANEOUS SITES DURING WATER YEAR 1979.--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	McGrath Pond	Lat 44°32'35", long 69°45'46", Kennebec County, downstream side of culvert on Town Farm Road 7.54 mi (12.13 km) from North Belgrade and 1.78 mi (2.86 km) from junction of State Highway 137 and Town Farm Road, near North Belgrade.	.08	1978	08-06-79	0
Unnamed Tributary	Ellis Pond	Lat 44°32'39", long 69°47'19", Kennebec County, downstream side of culvert on McGrath Pond Road .40 mi (.64 km) from junction of State Highway 8 and McGrath Pond Road, near North Belgrade.	.08	1978	08-06-79	0
Unnamed Tributary	Ellis Pond	Lat 44°32'07", long 69°47'19", Kennebec County, red mark on down- stream side of culvert 1.23 mi (1.98 km) from North Belgrade off State Highway 8, near North Belgrade.	.31	1978	08-06-79	0
Unnamed Tributary	Ellis Pond	Lat 44°32'02", long 69°47'31", Kennebec County, downstream side of culvert .94 mi (1.51 km) north of North Belgrade on State High- way 8, at North Belgrade.	.03	1978	01-03-79 08-06-79	.06 0
Unnamed Tributary	Ellis Pond	Lat 44°31'56", long 69°47'30", Kennebec County, downstream side of culvert on State Highway 8, .79 mi (1.27 km) north of North Bel- grade, at North Belgrade.	.02	1978	01-03-79 04-01-79 08-06-79	.02 .02 0
Unnamed Tributary	Ellis Pond	Lat 44°31'50", long 69°47'31", Kennebec County, downstream side of culvert on State Highway 8, .68 mi (1.09 km) north of North Bel- grade, at North Belgrade.		1978	01-03-79 08-06-79	.05 0
Unnamed Tributary	Ellis Pond	Lat 44°32'00", long 69°45'49", Kennebec County, downstream side of culvert on Town Farm Road 8.23 mi (13.24 km) from North Belgrade, 2.44 mi (3.92 km) from junction of Town Farm Road and State Highway 137, near North Belgrade.	.05	1978	08-06-79	0
Unnamed Tributary	Ellis Pond	Lat 44°31'42", long 69°47'34", Kennebec County, downstream side of culvert on State Highway 8, .48 mi (.77 km) north of North Belgrade, at North Belgrade.	.05	1978	01-03-79 08-06-79	1.1 0
Unnamed Tributary	Ellis Pond	Lat 44°31'33", long 69°47'42", Kennebec County, downstream side of culvert on State Highway 8, .27 mi (.43 km) north of North Belgrade, at North Belgrade.	.08	1978	01-03-79 08-06-79	.22 0
Unnamed Tributary	Ellis Pond	Lat 44°30'39", long 69°47'22", Kennebec County, painted hex bolt on downstream side of cul- vert 10.74 mi (17.28 km) from North Belgrade on paved road, .16 mi (.26 km) from junction of State Highway 11 and paved road, near North Belgrade.	.12	1978	01-03-79 03-25-79 04-01-79 04-26-79 06-11-79 08-06-79	.14 5.3 .44 .12 .16 0
Unnamed Tributary	Ellis Pond	Lat 44°30'42", long 69°47'50", Kennebec County, 11.12 mi (17.9 km) from North Belgrade on paved road, .57 mi (.92 km) from junction of paved road and State Highway 11, near North Belgrade.	.11	1978	01-03-79 08-06-79	.18 < .01
Unnamed Tributary	Ellis Pond	Lat 44°30'41", long 69°47'36", Kennebec County, downstream side of culvert 10.93 mi (17.58 km) from North Belgrade on paved road .37 mi (.60 km) from junction of State Highway 11 and paved road, near North Belgrade.	.02	1978	08-06-79	0

DISCHARGE AT PARTIAL-RECORD STATIONS AND MISCELLANEOUS SITES
DISCHARGE MEASUREMENTS MADE AT MISCELLANEOUS SITES DURING WATER YEAR 1979.--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	Ellis Pond	Lat 44°31'05", long 60°47'55", Kennebec County, downstream side of culvert on State Highway 8, 11.67 mi (18.79 km) from North Belgrade and .45 mi (.72 km) north of junction of State Highway 8 and paved road, near North Belgrade.	.03	1978	01-03-79 08-06-79	.10 0
Unnamed Tributary	Webber Pond	Lat 44°26'08", long 69°38'43", Kennebec County, approximately 0.3 mi (.48 km) downstream from Bog Road and approximately 20 ft (6.1 m) upstream of culvert on dirt access road off of Cross Hill Road, at McCoy Crossing, East Vassalboro.			03-25-79 03-25-79 03-26-79 06-19-79 07-05-79 09-12-79	17 26 17 .76 .12 .05
Unnamed Tributary	Webber Pond	Lat 44°25'19", long 69°38'23", Kennebec County, upstream end of culvert 15 ft (4.6 m), on dirt camp road approximately 0.2 mi (.32 km) west of Cross Hill Road, near Center Vassalboro.			04-03-79 06-19-79 08-16-79 09-12-79	4.9 2.5 .85 .04
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	04-04-79 04-24-79 06-28-79 08-08-79	45 19 1.4 .36
Unnamed Tributary	Webber Pond	Lat 44°11'22", long 69°38'47", Kennebec County, upstream side of culvert on Bog Road 2.59 mi (4.17 km) from junction of State Highway 32, near East Vassalboro.	.87		06-19-79 07-05-79 09-12-79	.65 .04 .01
Unnamed Tributary	Webber Pond	Lat 44°23'06", long 69°37'00", Kennebec County, upstream of culvert on Park Lane, at South Vassalboro.			04-24-79 06-20-79 07-06-79 08-10-79	3.3 .19 .06 .00
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.			04-24-79 06-21-79 08-08-79	51 27 4.5
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.			04-23-79 06-21-79 08-08-79	62 32 5.5
Sevenmile Brook	Kennebec River	Lat 44°24'09", long 69°40'20", Kennebec County, approximately 25 ft (7.6 m) downstream of box culvert on town road, near Riverside.			03-27-79 06-08-79 07-08-79	288 131 8.2
Unnamed Tributary	Togus Pond	Lat 44°19'38", long 69°40'25", Kennebec County, approximately 0.2 mi (.32 km) above wood bridge on private road and approximately 0.3 mi (.48 km) upstream from mouth, near Augusta.			03-29-79 06-26-79 07-12-79	2.9 .07 .04
Outlet of Togus Pond	Lower Togus Pond	Lat 44°18'47", long 69°39'27", Kennebec County, upstream side of box culvert on State Highway 105, near Augusta.			03-29-79 04-24-79 06-27-79 07-04-79 07-06-79 07-07-79 07-10-79 08-09-79	33 8.4 4.7 2.9 2.0 3.4 2.0 0
Androscoggin River Basin						
Dead River	Sabattus Pond	Lat 44°12'20", long 70°04'46", Androscoggin County, 1.22 mi (1.96 km) south from junction of U.S. Highway 202 (Keenes Corner) and medium-duty road, at Leeds Junction. Staff gage located on left upstream bank.	8.77	1978	10-12-78 10-25-78 03-15-79 03-23-79 03-26-79 04-16-79 06-14-79 08-09-79	.09 .90 32 125 105 32 4.2 .56

DISCHARGE MEASUREMENTS MADE AT MISCELLANEOUS SITES DURING WATER YEAR 1979.--Continued

Stream	Tributary to	Location	Drainage area (mi ²)	Measured previously (water years)	Date	Measurements Discharge (ft ³ /s)
Androscoggin River Basin.--Continued						
Lombard Brook	Sabattus Pond	Lat 44°09'45", long 70°06'28", Androscoggin County, 2.69 mi (4.33 km) south on medium-duty road, 123 mi (.37 km) due east on camp road, near Sabattus. Staff gage located on right upstream side of culvert.	.25	1978	10-12-78 12-25-78 03-23-79 03-26-79 04-16-79 06-14-79 07-19-79 08-09-79	0 0 4.8 7.8 2.0 .01 .06 0
Drainage ditch	Sabattus Pond	Lat 44°08'19", long 70°05'30", Androscoggin County, 1.17 mi (1.88 km) north of junction of State Highways 126 and 9 on State Highway 132. Parshall flume located in drainage ditch in field .29 mi (.47 km) west of State Highway 132, near Sabattus.		1978	10-12-78 10-25-78 03-15-79 03-26-79 04-05-79 04-16-79 04-20-79 06-14-79 07-20-79 08-09-79	0 0 3.2 1.8 1.6 0.5 .15 < .02 3.8 0
Presumpscot River Basin						
Mill Brook	Presumpscot River	Lat 43°42'06", long 70°20'28", Cumberland County, upstream end of left culvert on Austin Street, near Westbrook.			07-03-79 07-06-79 08-08-79 09-05-79	12 6.5 0.8 1.1
Piscataqua River	Presumpscot River	Lat 43°44'18", long 70°17'40", Cumberland County, downstream side of left culvert on Leighton Road, near Falmouth.	20.9	many	07-03-79 07-06-79 08-08-79 09-05-79	43 14 5.1 6.1
East Branch Piscataqua	Presumpscot River	Lat 43°44'18", long 70°17'16", Cumberland County, upstream side of bridge on Falmouth Road, near Falmouth.	20.0	many	07-03-79 07-06-79 08-08-79 09-05-79	34 5.6 3.0 3.9
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	10-24-78 03-14-79 04-16-79 08-09-79	12 135 245 22
Middle Branch Mousam River	Estes Lake	Lat 43°31'29", long 70°46'00", York County, downstream side of culvert on Alfred-Gore Road, at North Alfred.	4.32	1978	10-26-78	0.1
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	10-26-78 03-14-79 04-16-79 08-09-79 09-06-79	0.4 107 53 0.4 0.7
Shaker Pond Outlet	Littlefield	Lat 43°29'33", long 70°43'10", York County, downstream side of bridge on State Highway 4, near Alfred.	19.4	1978	10-26-79	21
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	10-02-78 10-26-78 11-22-78 03-14-79 03-27-79 04-16-79 05-21-79 06-21-79 07-27-79 08-09-79 09-06-79	1.9 12 10 128 378 87 37 25 2.2 2.7 7.9
Hay Brook	Estes Lake	Lat 43°27'42", long 70°45'32", York County, culvert on State Highway 4A, near Alfred.			03-14-79 09-06-79	0.2 6.0
Hay Brook	Estes Lake	Lat 43°26'34", long 70°43'50", York County, downstream side of culvert on State Highway 4, near Sanford.	3.11	1978	10-27-78 04-16-79	0.1 9.6

MISCELLANEOUS TEMPERATURE AND SPECIFIC CONDUCTANCE DETERMINATIONS

WATER QUALITY DATA, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979

DATE	TIME	STREAM- FLOW, INSTAN- TANEOUS (CFS)	TEMPER- ATURE (DEG C)	SPE- CIFIC CON- DUCT- ANCE (MICRO- MHOS)	DATE	TIME	STREAM- FLOW, INSTAN- TANEOUS (CFS)	TEMPER- ATURE (DEG C)	SPE- CIFIC CON- DUCT- ANCE (MICRO- MHOS)
01010100 - SHIELDS BR BIG BLACK RIVER NR SEVEN ISLANDS, ME (LAT 46 56 30 LONG 069 38 58)									
OCT , 1978					MAY , 1979				
19...	0900	101	3.0	130	02...	1145	2430	4.0	34
DEC					JUN				
06...	1045	41	.0	140	07...	0830	318	12.0	65
MAR , 1979					AUG				
29...	1015	2010	.0	53	02...	1000	7.5	22.0	140
01013500 - FISH RIVER NEAR FORT KENT, ME (LAT 47 14 14 LONG 068 34 56)									
OCT , 1978					MAR , 1979				
11...	1720	92	8.5	76	27...	1300	5630	1.0	67
NOV					APR				
15...	1330	121	3.0	80	30...	1530	12100	4.5	60
DEC					AUG				
19...	1540	141	.0	80	15...	1800	398	17.0	66
JAN , 1979					SEP				
30...	1525	729	.5	74	20...	0900	1800	4.0	63
FEB									
27...	1530	673	.0	65					
01015800 - AROOSTOOK RIVER NEAR MASARDIS, ME (LAT 46 31 21 LONG 068 22 23)									
OCT , 1978					FEB , 1979				
10...	1510	172	9.0	67	27...	1505	649	.5	75
NOV					MAY				
14...	1400	192	2.0	72	01...	1415	18200	5.0	29
DEC					JUN				
18...	1520	413	.0	20	25...	1530	1010	14.5	48
JAN , 1979					SEP				
29...	1500	1230	.5	60	18...	1400	966	16.5	50
01016500 - MACHIAS RIVER NEAR ASHLAND, ME (LAT 46 37 42 LONG 068 26 07)									
OCT , 1978					MAR , 1979				
10...	1605	54	9.0	86	27...	1050	5150	.5	39
NOV					MAY				
14...	1555	109	.5	82	01...	1130	7290	4.0	26
DEC					JUN				
19...	1220	58	.0	90	26...	0950	410	13.0	51
JAN , 1979					SEP				
29...	1650	418	.5	63	18...	1540	810	17.0	53
FEB									
26...	1640	203	.0	80					
01017000 - AROOSTOOK RIVER AT WASHBURN, ME (LAT 46 46 36 LONG 068 09 29)									
OCT , 1978					FEB , 1979				
11...	1000	516	5.0	90	27...	1000	1630	.0	65
NOV					MAY				
15...	1015	433	2.0	82	01...	0830	34800	5.0	28
DEC					SEP				
19...	1010	823	.0	28	19...	0750	2020	15.0	60
JAN , 1979									
30...	0940	2160	.5	68					
01017900 - MARLEY BROOK NEAR LUDLOW, ME (LAT 46 08 42 LONG 068 03 42)									
OCT , 1978					MAR , 1979				
10...	1135	.81	8.0	158	26...	1415	83	1.5	41
NOV					MAY				
14...	1145	.17	2.0	136	01...	1640	12	8.0	52
DEC					JUN				
18...	1100	.26	.5	110	25...	1115	2.2	11.0	75
JAN , 1979					AUG				
29...	1050	9.4	.5	73	13...	1240	1.5	10.5	120
FEB					SEP				
26...	1100	1.6	.5	110	18...	1045	.91	12.0	95

WATER QUALITY DATA, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979

DATE	TIME	STREAM- FLOW, INSTAN- TANEOUS (CFS)	TEMPER- ATURE (DEG C)	SPE- CIFIC CON- DUCT- ANCE (MICRO- MHOS)	DATE	TIME	STREAM- FLOW, INSTAN- TANEOUS (CFS)	TEMPER- ATURE (DEG C)	SPE- CIFIC CON- DUCT- ANCE (MICRO- MHOS)
01018000 - MEDUXNEKEAG RIVER NEAR HOULTON, ME (LAT 46 06 17 LONG 067 52 00)									
OCT , 1978					MAR , 1979				
10...	1400	19	8.5	162	26...	1630	5590	1.0	64
NOV					MAY				
14...	1300	31	2.0	168	01...	1730	1950	7.5	68
DEC					JUN				
18...	1230	39	.0	125	25...	1250	183	16.5	140
JAN , 1979					SEP				
29...	1210	423	.5	143	18...	1250	136	16.0	125
FEB									
26...	1220	122	.0	180					

01014500 - ST. CROIX RIVER AT VANCEBORO, ME (LAT 45 34 08 LONG 067 25 47)									
OCT , 1978					APR , 1979				
18...	1030	349	7.5	32	11...	1645	1810	3.0	31
DEC					MAY				
05...	2010	342	1.0	34	04...	0915	4210	9.0	27
JAN , 1979					JUN				
04...	1530	345	1.0	45	01...	1600	4460	14.5	26
FEB					27...	0830	1410	18.0	--
07...	1300	394	1.5	41	AUG				
MAR					14...	1525	449	18.0	31
13...	1435	1150	1.0	39	SEP				
29...	1650	3230	2.0	--	25...	1800	805	15.0	31
APR									
03...	1125	2730	3.0	39					

01019000 - GRAND LAKE STREAM AT GRAND LAKE STREAM, ME (LAT 45 10 23 LONG 067 46 06)									
OCT , 1978					MAY , 1979				
18...	1500	331	11.0	33	03...	1600	1030	9.0	23
NOV					JUN				
03...	1245	127	11.5	26	01...	0955	1970	11.5	25
DEC					AUG				
05...	1825	223	.5	--	14...	1445	255	19.5	27
JAN , 1979					SEP				
04...	1350	238	.0	34	13...	2045	248	17.0	29
MAR					25...	1620	609	16.0	28
13...	1620	215	2.5	29					
29...	1415	623	3.5	--					

01020000 - ST. CROIX RIVER NEAR BAILEYVILLE, ME (LAT 45 15 55 LONG 067 28 36)									
OCT , 1978					MAY , 1979				
04...	1900	777	10.0	--	03...	1505	12100	9.5	25
18...	1830	963	9.0	38	31...	1905	14100	14.0	32
DEC					JUN				
05...	1520	838	1.5	48	27...	1230	2800	19.0	29
JAN , 1979					AUG				
04...	1305	900	.0	46	14...	1330	2100	17.0	30
29...	1635	1240	1.0	48	SEP				
FEB					13...	1840	1830	17.5	34
07...	1010	3470	1.0	41	25...	1530	2050	14.0	35
MAR									
13...	1710	5030	1.5	28					
28...	1615	13400	1.5	--					

01021000 - ST. CROIX RIVER AT BERING, ME (LAT 45 08 12 LONG 067 19 05)									
OCT , 1978					MAY , 1979				
17...	1900	992	9.5	110	03...	1830	12700	9.0	35
19...	1715	981	10.0	120	31...	1710	14600	14.0	35
DEC					JUN				
05...	1540	814	3.5	189	27...	1500	2960	21.5	120
JAN , 1979					AUG				
04...	1135	990	.0	150	14...	0910	2020	18.5	139
FEB					SEP				
07...	0910	4210	.0	110	13...	1710	1800	20.0	90
MAR									
08...	0830	4300	1.5	78					
28...	1200	15600	1.5	--					

MISCELLANEOUS TEMPERATURE AND SPECIFIC CONDUCTANCE DETERMINATIONS.--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979

DATE	TIME	STREAM- FLOW, INSTAN- TANEOUS (CFS)	TEMPER- ATURE (DEG C)	SPE- CIFIC CON- DUCT- ANCE (MICRO- MHOS)	DATE	TIME	STREAM- FLOW, INSTAN- TANEOUS (CFS)	TEMPER- ATURE (DEG C)	SPE- CIFIC CON- DUCT- ANCE (MICRO- MHOS)
01021200 - DENNY'S RIVER AT DENNYVILLE, ME (LAT 44 54 03 LONG 067 14 56)									
OCT , 1978					MAY , 1979				
04...	1530	33	10.0	--	03...	1240	796	10.0	24
DEC					31...	1605	1190	12.0	23
05...	1400	102	.0	55	JUN				
JAN , 1979					27...	1805	108	20.0	35
04...	0945	1200	.5	57	AUG				
29...	1445	650	.0	38	13...	1755	4310	15.0	38
FEB					SEP				
06...	1620	254	.0	46	13...	1600	75	17.0	39
MAR									
07...	1700	603	.0	23					
01023000 - WEST BRANCH UNION RIVER AT AMHERST, ME (LAT 44 50 25 LONG 068 22 22)									
OCT , 1978					MAY , 1979				
05...	1430	16	10.5	--	01...	1455	1160	11.0	25
JAN , 1979					31...	1045	1290	13.0	25
15...	1650	295	.0	60	JUN				
FEB					28...	1410	84	21.0	31
06...	1045	749	9.0	46	AUG				
MAR					13...	1300	134	15.5	43
07...	1200	1050	1.0	36	SEP				
30...	1310	1900	3.0	--	13...	1110	139	17.5	34
01024200 - GARLAND BROOK NEAR MARIAVILLE, ME (LAT 44 43 17 LONG 068 24 40)									
NOV , 1978					MAY , 1979				
30...	1320	3.0	.0	68	31...	1215	186	11.0	21
JAN , 1979					JUN				
16...	1000	12	.0	37	28...	1725	3.3	20.5	33
FEB					AUG				
06...	1000	28	.0	42	13...	1115	25	13.5	43
MAR					SEP				
07...	1115	112	.5	27	13...	0940	5.1	13.0	39
30...	1805	42	2.0	--	25...	1230	5.4	10.0	38
MAY									
01...	1415	71	9.0	24					
01029500 - EAST BRANCH PENOBSCOT RIVER AT GRINDSTONE, ME (LAT 45 43 49 LONG 068 35 22)									
OCT , 1978					APR , 1979				
19...	1200	666	5.0	48	30...	1340	23500	6.5	23
DEC					JUN				
06...	0955	430	.0	44	01...	2045	9350	13.0	24
JAN , 1979					26...	1130	929	15.0	34
05...	1440	1850	.0	51	AUG				
FEB					15...	1820	1310	16.5	39
08...	1530	1220	.0	--	SEP				
MAR					14...	1410	747	15.5	40
12...	1520	2800	.5	38					
26...	1015	13400	1.0	34					
01030000 - PENOBSCOT RIVER NEAR MATTAWAMKEAG, ME (LAT 45 34 01 LONG 068 24 10)									
OCT , 1978					MAY , 1979				
19...	1315	3600	8.0	53	04...	1200	32700	7.5	34
DEC					JUN				
06...	1130	3300	1.0	60	01...	1935	18400	13.0	36
JAN , 1979					26...	1545	6270	18.5	49
05...	1230	4870	.0	59	AUG				
FEB					15...	1450	4740	18.5	53
08...	1240	4900	.0	50	SEP				
MAR					14...	1110	3850	16.5	55
12...	1615	7400	.5	44					
28...	1115	22500	1.0	40					

WATER QUALITY DATA, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979

DATE	TIME	STREAM- FLOW, INSTAN- TANEOUS (CFS)	TEMPER- ATURE (DEG C)	SPE- CIFIC CON- DUCT- ANCE (MICRO- MHOS)	DATE	TIME	STREAM- FLOW, INSTAN- TANEOUS (CFS)	TEMPER- ATURE (DEG C)	SPE- CIFIC CON- DUCT- ANCE (MICRO- MHOS)
01030500 - MATTAWAMKEAG RIVER NEAR MATTAWAMKEAG, ME (LAT 45 30 18 LONG 068 18 07)									
OCT , 1978					APR , 1979				
20...	1145	773	8.0	85	03...	1915	14100	3.0	42
DEC					MAY				
06...	1410	511	.0	83	04...	1900	15800	9.0	33
JAN , 1979					JUN				
05...	1115	3780	.0	43	01...	1730	12300	13.5	34
17...	1130	1340	.0	61	28...	1900	946	21.0	58
FEB					AUG				
07...	1550	3300	.0	55	15...	1235	1600	18.5	65
08...	1210	2950	.0	--	SEP				
23...	1125	998	.0	66	14...	0930	2020	15.5	57
MAR									
13...	1210	9600	.5	50					
01031500 - PISCATAQUIS RIVER NEAR DOVER-FOXCROFT, ME (LAT 45 10 31 LONG 069 18 55)									
OCT , 1978					APR , 1979				
25...	1325	23	4.5	84	28...	1620	20400	6.5	22
NOV					MAY				
29...	1320	41	.0	84	24...	1130	397	17.5	48
DEC					31...	0615	4540	11.0	51
26...	1415	55	.0	--	JUL				
JAN , 1979					11...	1630	52	24.5	64
30...	1200	620	.0	53	13...	0800	40	25.0	67
FEB					AUG				
13...	1510	152	.0	71	29...	1715	62	21.0	67
22...	1500	98	.0	71	SEP				
MAR					18...	1600	127	18.5	50
26...	1315	10300	.5	56	28...	0907	44	12.5	72
APR									
26...	0900	2940	5.5	44					
01033000 - SEBEC RIVER AT SEBEC, ME (LAT 45 16 12 LONG 069 06 44)									
OCT , 1978					APR , 1979				
25...	1115	60	7.0	33	25...	0900	1760	5.0	30
NOV					28...	1855	4260	5.0	25
29...	1630	75	1.0	37	MAY				
JAN , 1979					31...	1315	1990	11.0	27
18...	1050	112	.5	37	JUL				
FEB					12...	2005	178	25.0	32
13...	1135	364	1.0	34	AUG				
MAR					30...	1215	66	22.0	29
12...	1145	940	1.5	26					
27...	0917	4960	.5	35					
01033500 - PLEASANT RIVER NEAR MILO, ME (LAT 45 16 58 LONG 069 00 13)									
OCT , 1978					APR , 1979				
27...	1700	196	7.5	40	25...	1115	2700	6.0	20
DEC					29...	1050	17300	5.5	18
01...	1035	188	.0	48	MAY				
JAN , 1979					31...	1425	4660	11.5	20
18...	0930	210	.0	40	JUL				
FEB					12...	1750	120	27.0	40
13...	1040	269	.0	46	AUG				
MAR					31...	0855	260	18.0	35
09...	0845	3100	.0	29					
27...	0800	10200	.5	35					
01034000 - PISCATAQUIS RIVER AT MEDFORD, ME (LAT 45 15 40 LONG 068 52 07)									
OCT , 1978					APR , 1979				
27...	1230	361	8.0	49	24...	1815	7960	7.5	22
DEC					30...	0900	36800	7.5	23
12...	1400	335	.0	60	MAY				
JAN , 1979					24...	1000	1160	16.5	42
19...	1605	330	.0	39	30...	1830	9400	12.0	25
FEB					JUL				
12...	1500	1090	.0	60	12...	1610	363	27.0	44
MAR					AUG				
09...	1015	11700	.5	35	30...	1525	496	22.0	34
27...	1500	31900	.5	30					

WATER QUALITY DATA, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979

DATE	TIME	STREAM- FLOW, INSTAN- TANEOUS (CFS)	TEMPER- ATURE (DEG C)	SPE- CIFIC CON- DUCT- ANCE (MICRO- MHOS)	DATE	TIME	STREAM- FLOW, INSTAN- TANEOUS (CFS)	TEMPER- ATURE (DEG C)	SPE- CIFIC CON- DUCT- ANCE (MICRO- MHOS)
01034500 - PENOBSCOT RIVER AT WEST ENFIELD, ME (LAT 45 14 12 LONG 068 38 56)									
OCT , 1978					APR , 1979				
17...	1530	7630	9.0	66	24...	1515	30600	8.5	44
20...	1550	5880	8.0	71	30...	1245	103000	9.0	31
DEC					MAY				
06...	0950	4800	.0	80	30...	1730	35800	13.0	43
JAN , 1979					JUL				
16...	1500	7460	.0	80	12...	1025	5560	21.5	61
FEB					AUG				
09...	1045	11100	.0	56	30...	1305	8580	22.0	66
MAR									
09...	1300	23000	.5	65					
28...	1100	79900	1.5	65					
01035000 - PASSADUMKEAG RIVER AT LOWELL, ME (LAT 45 11 04 LONG 068 28 29)									
OCT , 1978					APR , 1979				
27...	0920	172	8.5	53	24...	1055	1140	7.5	29
DEC					MAY				
06...	1155	114	.0	58	30...	1645	1560	14.0	29
JAN , 1979					JUL				
16...	1650	370	.0	--	12...	1115	234	21.0	35
FEB					AUG				
09...	0940	757	.0	43	30...	1345	377	21.5	36
MAR									
09...	1125	1960	1.0	31					
28...	1645	3310	2.5	29					
01036500 - KENDUSKEAG STREAM NEAR KENDUSKEAG, ME (LAT 44 53 48 LONG 068 53 04)									
OCT , 1978					APR , 1979				
30...	1100	53	5.0	190	26...	1300	329	4.5	97
NOV					MAY				
30...	1610	25	.0	212	30...	1200	1270	13.0	100
JAN , 1979					JUL				
15...	1310	81	.0	160	11...	1330	15	23.5	155
FEB					AUG				
12...	1125	123	.0	170	29...	1515	55	22.0	148
MAR									
08...	1430	2600	.0	64					
26...	1710	5380	1.0	110					
01038000 - SHEEPSCOT RIVER AT NORTH WHITEFIELD, ME (LAT 44 13 23 LONG 069 35 38)									
OCT , 1978					MAY , 1979				
02...	0830	11	13.0	80	03...	0900	128	10.0	36
NOV					30...	1100	781	14.0	38
30...	1015	26	1.0	85	JUL				
JAN , 1979					09...	1035	39	18.0	62
02...	0840	203	.0	78	AUG				
FEB					07...	1105	23	21.0	68
01...	1400	849	1.0	53	SEP				
MAR					05...	1350	26	22.5	65
05...	0900	234	1.0	66					
APR									
04...	1140	802	4.5	39					
01041000 - KENNEBEC RIVER AT MOOSEHEAD, ME (LAT 45 35 08 LONG 069 43 05)									
OCT , 1978					APR , 1979				
13...	1025	1180	10.5	--	25...	1310	2810	4.5	31
NOV					MAY				
29...	1025	2250	1.5	34	31...	0730	7010	9.0	33
JAN , 1979					JUL				
19...	1400	1200	.0	33	11...	1730	2000	17.5	34
FEB					AUG				
13...	1645	2080	.5	39	30...	0710	1550	17.0	34
MAR									
12...	0940	274	1.0	42					

WATER QUALITY DATA, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979

DATE	TIME	STREAM- FLOW, INSTAN- TANEOUS (CFS)	TEMPER- ATURE (DEG C)	SPE- CIFIC CON- DUCT- ANCE (MICRO- MHOS)	DATE	TIME	STREAM- FLOW, INSTAN- TANEOUS (CFS)	TEMPER- ATURE (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 , 1978					MAY , 1979				
17...	1200	304	7.0	35	01...	1630	11500	6.5	29
DEC					JUN				
05...	1130	6890	1.5	36	06...	1200	10100	14.0	29
JAN , 1979					JUL				
12...	1045	800	.0	--	19...	0945	210	21.0	32
FEB					31...	1315	6460	22.5	30
23...	1215	7540	1.5	35					
MAR									
28...	1245	7920	1.0	35					
01043500 - DEAD RIVER NEAR DEAD RIVER, ME (LAT 45 13 48 LONG 070 11 58)									
NOV , 1978					FEB , 1979				
28...	1215	587	1.0	55	22...	1715	146	.0	60
01045000 - DEAD RIVER AT THE FORKS, ME (LAT 45 20 59 LONG 069 59 26)									
OCT , 1978					MAY , 1979				
17...	1130	391	5.5	40	02...	1930	10700	7.0	29
DEC					JUN				
05...	1200	416	.0	65	06...	1230	2620	16.0	30
FEB , 1979					JUL				
23...	1130	253	.0	68	31...	1600	1260	26.0	33
MAR									
28...	1315	2870	1.0	37					
01046500 - KENNEBEC RIVER AT BINGHAM, ME (LAT 45 03 06 LONG 069 53 12)									
OCT , 1978					MAR , 1979				
12...	1445	6020	12.0	34	28...	1115	9340	.5	39
17...	1000	5820	11.0	34	MAY				
DEC					01...	1315	25300	6.0	28
05...	1045	4250	2.5	39	JUN				
JAN , 1979					06...	1115	8640	14.5	29
12...	1445	611	.0	--	JUL				
FEB					19...	0700	551	18.0	33
23...	1330	1430	1.5	42	31...	1145	4970	21.0	31
01047000 - CARRABASSETT RIVER NEAR NORTH ANSON, ME (LAT 44 52 09 LONG 069 57 20)									
OCT , 1978					MAY , 1979				
25...	1200	74	5.5	60	01...	1200	3670	10.0	21
FEB , 1979					JUL				
22...	1445	133	.0	60	19...	1600	162	25.5	44
MAR									
19...	1200	554	.5	42					
01047730 - WILSON STREAM AT EAST WILTON, ME (LAT 44 36 55 LONG 070 11 42)									
OCT , 1978					APR , 1979				
06...	1345	11	10.5	--	28...	1115	2430	5.0	45
DEC					JUL				
01...	1215	4.4	.0	170	23...	1245	9.7	25.0	58
MAR , 1979					SEP				
13...	1330	145	1.0	55	14...	1045	6.7	15.0	80
01048000 - SANDY RIVER NEAR MERCER, ME (LAT 44 42 26 LONG 069 56 21)									
OCT , 1978					MAR , 1979				
06...	1520	94	10.5	--	13...	1230	1660	1.0	55
NOV					JUL				
27...	1600	80	.0	34	23...	1445	109	28.5	75
FEB , 1979					SEP				
22...	1645	172	.0	75	14...	1000	104	17.0	55

WATER QUALITY DATA, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979

DATE	TIME	STREAM- FLOW, INSTAN- TANEOUS (CFS)	TEMPER- ATURE (DEG C)	SPE- CIFIC CON- DUCT- ANCE (MICRO- MHOS)	DATE	TIME	STREAM- FLOW, INSTAN- TANEOUS (CFS)	TEMPER- ATURE (DEG C)	SPE- CIFIC CON- DUCT- ANCE (MICRO- MHOS)
01049000 - SEBASTICOOK RIVER NEAR PITTSFIELD, ME (LAT 44 43 00 LONG 069 24 56)									
OCT , 1978					JUL , 1979				
17...	1450	66	9.5	138	25...	1150	74	23.5	103
NOV					AUG				
29...	1415	91	3.0	283	02...	1040	97	24.5	131
FEB , 1979					06...	1740	5.8	26.0	125
28...	1650	517	1.0	140	07...	1740	5.8	22.5	125
APR					SEP				
23...	1030	2220	8.0	71	18...	1155	472	17.0	165
JUN									
13...	1435	780	19.0	75					
01049300 - NORTH BRANCH TANNING BROOK NEAR MANCHESTER, ME (LAT 44 21 00 LONG 069 51 07)									
OCT , 1978					APR , 1979				
02...	1105	.20	13.5	107	28...	0920	39	10.0	36
NOV					MAY				
20...	1345	.42	4.0	115	07...	0920	1.4	8.5	58
JAN , 1979					JUL				
02...	1015	4.4	1.0	72	09...	1005	.15	19.0	75
FEB					AUG				
09...	1130	1.1	.0	90	30...	1425	.42	24.0	95
MAR									
22...	1015	11	2.0	49					
01049373 - MILL STREAM AT WINTHROP, ME (LAT 44 18 24 LONG 069 58 18)									
OCT , 1978					APR , 1979				
02...	1435	2.8	15.0	72	24...	1115	282	4.5	62
JAN , 1979					MAY				
02...	1100	22	2.5	150	03...	1400	270	12.0	56
FEB					AUG				
09...	1000	25	1.5	85	23...	1440	6.5	23.5	66
MAR					30...	1255	8.6	21.0	64
22...	1000	173	4.0	68					
01049396 - JOCK STREAM AT SOUTH MONMOUTH, ME (LAT 44 11 04 LONG 069 59 48)									
OCT , 1978					FEB , 1979				
05...	1320	2.5	11.0	155	20...	1530	3.5	.5	150
NOV					APR				
07...	1230	2.9	8.0	140	26...	1100	16	12.0	86
30...	1430	3.7	2.0	179	JUL				
JAN , 1979					09...	1115	8.5	23.5	102
03...	1120	211	.0	75					
01049500 - CORBOSSEECONTEE STREAM AT GARDINER, ME (LAT 44 13 15 LONG 069 47 25.01)									
OCT , 1978					APR , 1979				
02...	0955	22	15.0	82	25...	1500	342	12.0	70
NOV					MAY				
08...	1001	54	8.0	90	03...	0930	1090	12.0	62
30...	1055	53	4.5	106	JUN				
JAN , 1979					04...	1015	823	18.0	65
02...	0915	61	4.5	138	JUL				
FEB					23...	1450	46	28.5	68
01...	1500	615	1.5	118	SEP				
MAR					06...	1030	40	24.0	76
02...	0905	671	1.5	106	13...	1420	114	20.5	69
01052500 - DIAMOND RIVER NEAR WENTWORTH LOCATION, NH (LAT 44 52 40 LONG 071 03 25)									
OCT , 1978					MAR , 1979				
04...	1130	48	8.0	55	22...	1045	364	2.0	34
DEC					MAY				
11...	1100	74	.0	--	15...	1530	341	13.0	27
JAN , 1979					JUL				
17...	1030	113	.0	--	26...	0915	20	23.0	43
FEB					SEP				
21...	1430	75	.0	48	19...	1415	104	13.0	38

WATER QUALITY DATA, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979

DATE	TIME	STREAM- FLOW, INSTAN- TANEOUS (CFS)	TEMPER- ATURE (DEG C)	SPE- CIFIC CON- DUCT- ANCE (MICRO- MHOS)	DATE	TIME	STREAM- FLOW, INSTAN- TANEOUS (CFS)	TEMPER- ATURE (DEG C)	SPE- CIFIC CON- DUCT- ANCE (MICRO- MHOS)
01053500 - ANDROSCOGGIN RIVER AT ERROL, NH (LAT 44 46 57 LONG 071 07 46)									
OCT , 1978					MAR , 1979				
04...	1100	1730	12.0	32	22...	1130	1000	4.0	39
DEC					MAY				
11...	1230	1360	.0	--	15...	1715	1460	12.0	29
JAN , 1979					JUL				
17...	1215	1170	.0	--	26...	1115	1670	24.5	29
FEB					SEP				
21...	1245	1360	.0	35	14...	1630	1770	16.0	29
01054000 - ANDROSCOGGIN RIVER NEAR GORHAM, NH (LAT 44 26 10 LONG 071 11 27)									
OCT , 1978					MAR , 1979				
04...	0940	1820	12.0	90	22...	0730	2170	2.0	110
DEC					MAY				
11...	1430	1530	1.5	--	16...	0815	1860	13.5	70
JAN , 1979					JUL				
17...	1400	1370	1.0	--	26...	1400	1670	25.5	80
FEB					SEP				
21...	1515	1540	2.0	120	20...	0800	1790	14.0	52
01054300 - ELLIS RIVER AT SOUTH ANDOVER, ME (LAT 44 35 37 LONG 070 44 01)									
OCT , 1978					JUL , 1979				
03...	1245	29	11.0	55	25...	1545	23	24.5	48
FEB , 1979					SEP				
15...	1545	44	.0	50	07...	1400	244	18.0	34
MAR					19...	1300	46	14.0	42
21...	1600	249	1.0	36					
MAY									
15...	1245	222	13.5	30					
01055000 - SWIFT RIVER NEAR ROXBURY, ME (LAT 44 38 32 LONG 070 35 17)									
OCT , 1978					APR , 1979				
03...	1200	28	10.0	35	28...	1830	2440	9.0	20
NOV					JUL				
30...	1230	23	.0	40	24...	1215	10	24.5	35
FEB , 1979					SEP				
15...	1345	36	.0	35	07...	1430	225	18.0	27
MAR					19...	1030	31	15.0	29
21...	1400	173	2.0	29					
01055500 - NEZINSCOT RIVER AT TURNER CENTER, ME (LAT 44 16 10 LONG 070 13 49)									
OCT , 1978					MAY , 1979				
02...	1300	13	14.0	78	03...	1400	817	12.0	39
31...	1405	49	9.0	76	30...	1000	2040	13.5	32
NOV					JUL				
30...	1305	54	2.5	95	05...	1100	122	19.0	61
JAN , 1979					AUG				
02...	1240	100	.0	90	09...	1115	38	20.0	72
FEB					SEP				
05...	0955	188	.5	66	05...	1200	42	21.0	68
MAR									
01...	0950	131	.0	94					
01057000 - LITTLE ANDROSCOGGIN RIVER NEAR SOUTH PARIS, ME (LAT 44 17 08 LONG 070 32 16)									
OCT , 1978					MAR , 1979				
01...	1310	1.5	14.5	83	23...	1030	702	1.0	37
08...	1100	15	8.5	55	APR				
NOV					29...	1445	1040	9.5	30
29...	1300	13	.0	75	MAY				
FEB , 1979					17...	1445	140	16.0	40
20...	1500	240	.0	66	25...	1100	10	23.0	55
MAR									
07...	1700	725	.0	39					

MISCELLANEOUS TEMPERATURE AND SPECIFIC CONDUCTANCE DETERMINATIONS.--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979

DATE	TIME	STREAM- FLOW, INSTAN- TANEOUS (CFS)	TEMPER- ATURE (DEG C)	SPE- CIFIC CON- DUCT- ANCE (MICRO- MHOS)	DATE	TIME	STREAM- FLOW, INSTAN- TANEOUS (CFS)	TEMPER- ATURE (DEG C)	SPE- CIFIC CON- DUCT- ANCE (MICRO- MHOS)
01058500 - LITTLE ANDROSCOGGIN RIVER NEAR AUBURN, ME (LAT 44 03 49 LONG 070 16 28)									
OCT , 1978					MAR , 1979				
07...	1100	45	12.0	210	21...	1400	1170	1.0	76
NOV					APR				
22...	1100	94	2.0	260	29...	1400	4640	10.0	35
FEB , 1979									
05...	1040	235	.5	148					
01059000 - ANDROSCOGGIN RIVER NEAR AUBURN, ME (LAT 44 04 20 LONG 070 12 31)									
OCT , 1978					APR , 1979				
05...	1130	2580	13.5	160	28...	1745	52600	9.5	86
JAN , 1979					29...	1045	51500	9.0	36
08...	1345	5450	1.5	345					
MAR									
20...	1400	6980	2.0	78					
01059800 - COLLYER BROOK NEAR GRAY, ME (LAT 43 55 03 LONG 070 19 02)									
OCT , 1978					MAR , 1979				
05...	1100	18	9.5	150	19...	1015	24	3.0	118
NOV					MAY				
22...	1005	12	1.0	158	10...	0930	30	13.5	87
JAN , 1979					AUG				
02...	1430	62	1.5	128	28...	1205	17	14.0	105
01060000 - ROYAL RIVER AT YARMOUTH, ME (LAT 43 47 57 LONG 070 10 45)									
OCT , 1978					MAY , 1979				
05...	0910	34	12.0	130	10...	0900	239	14.0	70
NOV					31...	0915	968	14.0	58
22...	1000	46	1.0	150	JUN				
JAN , 1979					21...	1305	71	21.0	92
03...	1405	1360	.5	91	SEP				
FEB					10...	1345	66	18.5	99
21...	0940	82	1.0	122					
MAR									
19...	1000	390	.5	75					
01064500 - SACO RIVER NEAR CONWAY, NH (LAT 43 59 27 LONG 071 05 29)									
OCT , 1978					JUL , 1979				
03...	1430	147	12.0	60	26...	1815	245	21.5	50
MAY , 1979					SEP				
16...	1215	1120	13.0	34	20...	1330	401	13.0	39
01065500 - OSSIPEE RIVER AT CORNISH, ME (LAT 43 48 26 LONG 070 47 55)									
OCT , 1978					MAY , 1979				
03...	0945	158	12.0	42	16...	1715	670	17.0	32
DEC					JUL				
08...	1430	216	2.0	--	27...	1000	285	25.0	36
FEB , 1979					SEP				
14...	1400	454	.0	38	20...	1700	471	19.0	35
MAR									
14...	1545	2640	2.0	37					

WATER QUALITY DATA, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979

DATE	TIME	STREAM- FLOW, INSTAN- TANEOUS (CFS)	TEMPER- ATURE (DEG C)	SPE- CIFIC CON- DUCT- ANCE (MICRO- MHOS)	DATE	TIME	STREAM- FLOW, INSTAN- TANEOUS (CFS)	TEMPER- ATURE (DEG C)	SPE- CIFIC CON- DUCT- ANCE (MICRO- MHOS)
01066500 - LITTLE OSSIPEE RIVER NEAR SOUTH LIMINGTON, ME (LAT 43 41 22 LONG 070 40 15)									
OCT , 1978					MAY , 1979				
02...	1730	115	5.0	65	16...	1800	439	18.0	38
FEB , 1979					JUL				
14...	1515	131	.0	57	27...	1215	106	25.0	44
MAR					SEP				
14...	1700	865	1.0	42	21...	0815	49	15.5	44
27...	1515	2340	2.0	31					
01069500 - MOUSAM RIVER NEAR WEST KENNEBUNK, ME (LAT 43 25 04 LONG 070 39 32)									
OCT , 1978					MAR , 1979				
02...	1415	9.2	6.0	120	27...	1230	1150	2.5	41
24...	1145	3.3	10.0	104	MAY				
DEC					21...	1415	170	16.5	88
08...	1130	6.3	3.5	130	JUN				
JAN , 1979					13...	1545	148	19.5	63
15...	1415	185	1.0	--	JUL				
FEB					27...	1600	20	26.0	80
14...	1600	130	.0	100	SEP				
MAR					21...	1115	15	17.0	90
14...	1730	591	1.0	60					

GROUND-WATER LEVELS

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).

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 1978 TO SEPTEMBER 1979

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
NOV 08	7.87	DEC 28	7.87	JAN 30	7.94	MAR 14	6.30	APR 12	5.18	MAY 29	5.34
29	7.95	JAN 11	7.35	FEB 20	6.68	23	5.95	MAY 17	5.43	AUG 30	7.09

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 (67 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 1978 TO SEPTEMBER 1979

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 30	5.18	DEC 28	6.07	MAR 29	5.05C	JUN 29	5.52	SEP 24	5.01		
NOV 08	5.83C	JAN 30	4.55	APR 26	4.88	JUL 27	5.39				
DEC 04	5.23	MAR 01	4.85	MAY 29	3.95	AUG 30	5.44C				

C - Nearby well pumping

AROOSTOOK COUNTY

464619068280401. Local number, Ar 1.

LOCATION.--Lat 46°46'19", long 68°28'04", Hydrologic Unit 01010003, on State Highway 11, 1.1 mi (1.8 km) north of village of Portage Lake.

Owner: H. L. Stevens.

AQUIFER.--Glacial till of Pleistocene age.

WELL CHARACTERISTICS.--Dug and driven observation water-table well, diameter 1.5 in (0.04 m), filled to a depth of 8 ft (2.4 m), formerly 11 ft (3.4 m), screened 8 to 11 ft (2.4 to 3.4 m).

DATUM.--Altitude of land-surface datum is 930 ft (283 m). Measuring point: Top of pipe, 2.0 ft (0.61 m) above land-surface datum.

PERIOD OF RECORD.--November 1942 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level, overflowed, Dec. 21, 1957, and Apr. 28, 1975; lowest estimated, 14.0 ft (4.3 m) Nov. 30, 1955. Has been dry frequently.

WATER LEVEL, IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 12	9.90E	DEC 13	F	FEB 13	2.75	APR 13	3.05	JUN 13	3.35	AUG 15	F
26	10.20E	28	F	28	2.90	28	2.35	28	5.25	30	7.05
NOV 13	F	JAN 12	2.85	MAR 13	1.70	MAY 14	3.63	JUL 14	5.44	SEP 13	3.60
27	F	26	4.35	28	0.85	29	0.95	30	7.30	28	3.80

E - Estimated

F - Well dry

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 1978 TO SEPTEMBER 1979

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 11	8.40	DEC 26	6.30	MAR 12	2.30	MAY 14	3.10	JUL 23	6.40	SEP 22	3.90
24	6.90	JAN 09	2.80	24	2.36	25	3.40	AUG 12	3.30		
NOV 15	5.20	24	1.70	APR 09	2.50	JUN 12	3.20	22	3.40		
24	4.30	FEB 23	5.40	22	2.50	JUL 11	5.80	SEP 09	3.40		

AROOSTOOK COUNTY--Continued

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.

WATER LEVEL, IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	14.22	14.68	14.70	15.16	14.88	15.07	7.75	2.81	5.84	7.62	10.88	11.92
10	14.36	14.74	14.75	15.03	---	14.39	7.79	3.96	6.11	8.12	11.28	11.04
15	14.35	14.79	14.79	15.12	---	13.65	7.51	4.99	6.27	8.56	11.54	10.46
20	14.38	14.76	14.90	15.12	---	13.67	6.65	5.95	6.95	8.91	11.76	9.91
25	14.44	14.63	14.97	15.22	---	13.42	5.62	6.77	7.33	9.61	11.90	10.31
EOM	14.54	14.67	15.18	14.99	14.91	9.01	2.40	6.25	7.52	10.38	11.74	10.33

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.

WATER LEVEL, IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	---	15.25	13.95	13.41	---	---	11.88	9.90	---	14.56	15.27	14.93
10	---	15.53	14.37	13.73	---	---	---	11.81	12.37	15.07	15.48	12.84
15	---	15.46	14.63	13.85	---	---	---	13.25	13.08	15.44	15.55	11.86
20	15.01	14.38	14.63	13.75	---	---	---	14.08	13.61	15.40	15.65	13.08
25	15.18	13.62	14.77	12.97	---	---	---	---	14.48	15.69	15.35	13.89
EOM	15.04	13.63	14.75	13.51	---	10.02	---	---	14.91	15.85	14.66	14.57

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, 36.41 ft (11.10 m) below land-surface datum, Feb. 10, 1966.

WATER LEVEL, IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	29.08	---	---	30.11	---	30.49	---	---	---	---	---	30.06
10	29.17	---	29.95	---	---	30.38	---	---	---	---	29.67	30.10
15	29.23	---	---	---	---	30.43	---	29.71	29.00	---	29.78	30.17
20	29.31	---	---	---	---	30.43	30.21	---	29.08	---	29.86	30.25
25	---	---	---	---	---	30.41	30.20	---	---	---	29.92	30.29
EOM	29.48	---	---	30.13	30.48	---	---	29.30	---	---	30.00	30.35

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.

WATER LEVEL, IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	F	F	F	---	---	---	4.18	3.78	3.69	6.92	9.37	---
10	F	F	F	---	---	---	3.71	4.40	4.45	7.35	9.87	---
15	F	F	13.51	---	---	---	3.95	4.67	4.87	7.97	8.60	---
20	F	F	13.04	---	---	---	4.44	4.83	5.55	8.49	8.55	---
25	F	F	12.19	---	5.60	---	4.74	4.83	6.13	9.07	8.60	8.72
EOM	F	F	---	3.49	---	4.11	3.03	2.86	6.71	9.28	---	9.05

F - Dry

GROUND-WATER LEVELS

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 1978 TO SEPTEMBER 1979
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	14.34	15.38	15.56	6.64	5.09	5.74	---	4.55	4.77	7.50	9.11	9.85
10	14.56	15.47	15.44	6.05	5.56	5.04	---	5.10	5.53	7.77	9.34	9.81
15	14.85	15.56	15.31	5.78	6.04	4.81	---	5.50	6.07	8.12	9.49	9.69
20	15.07	15.65	15.20	---	6.55	5.02	---	5.61	6.63	8.40	9.61	---
25	15.21	15.67	15.01	5.56	6.44	4.65	5.31	5.65	---	8.73	9.65	9.66
EOM	15.28	15.68	14.89	4.47	6.25	4.88	4.10	3.93	7.07	8.95	9.70	9.59

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 1978 TO SEPTEMBER 1979

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 05	68.78	NOV 29	69.96	APR 26	45.28	JUN 29	47.09	AUG 30	54.51		
30	72.91	MAR 29	44.34	MAY 29	43.07	JUL 27	50.40	SEP 25	64.41		

KENNEBEC COUNTY--Continued

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, 49.03 ft (14.94 m) below land-surface datum, Jan. 1, 1979.

WATER LEVEL, IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	46.80	47.54	48.38	48.40	48.12	48.29	43.22	42.21	41.89	43.48	---	45.60
10	46.90	47.72	48.50	48.41	48.12	42.61	43.33	42.68	42.28	43.74	---	45.72
15	47.05	47.87	48.63	48.50	48.22	43.37	43.30	42.99	42.59	43.97	---	45.87
20	47.18	48.02	48.78	48.62	48.38	44.23	43.49	43.20	42.88	44.01	---	46.07
25	47.33	48.15	48.88	48.52	48.51	42.98	43.71	42.99	43.14	44.20	---	46.19
EOM	47.39	48.27	49.01	48.29	48.31	43.32	40.61	41.55	43.40	44.22	45.43	46.36

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, 18.68 ft (5.69 m) below land-surface datum, Nov. 6, 1978.

WATER LEVEL, IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	---	18.68	---	10.62	9.17	9.26	8.83	9.25	9.73	11.94	13.14	13.20
10	---	---	---	---	9.71	7.78	9.07	10.07	10.35	12.67	13.55	12.59
15	---	---	---	---	10.17	8.31	9.19	10.24	11.11	13.17	12.58	12.75
20	---	18.58	---	---	10.65	9.29	9.56	10.29	11.94	11.84	12.47	12.92
25	---	---	---	9.12	9.87	7.75	9.88	7.84	12.52	12.48	12.58	12.80
EOM	---	---	---	8.20	9.25	9.01	8.10	8.20	12.93	12.78	12.80	13.08

GROUND-WATER LEVELS

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 1978 TO SEPTEMBER 1979

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 01	11.10	DEC 03	11.30	FEB 04	9.30	APR 15	0.80	JUN 17	5.10	AUG 19	9.80
08	11.30	10	11.20	11	9.40	22	0.70	24	6.10	26	9.90
15	11.50	17	11.10	18	9.30	29	0.75	JUL 01	6.30	SEP 02	11.30
22	11.50	24	8.10	25	9.30	MAY 06	1.60	07	6.80	09	10.60
29	11.40	31	11.20	MAR 04	9.40	13	3.00	15	7.40	16	11.40
NOV 05	11.40	JAN 07	10.90	11	7.90	20	4.00	22	8.00	23	11.40
12	11.30	14	10.20	18	6.40	27	2.10	29	8.60	30	11.50
19	11.30	21	9.60	25	2.80	JUN 03	2.00	AUG 05	8.90		
26	11.10	28	9.40	APR 08	1.30	10	3.20	12	9.60		

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 1978 TO SEPTEMBER 1979

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 01	11.58	NOV 18	10.85	JAN 31	10.20	MAR 21	5.90	JUN 17	7.25	SEP 02	9.20
16	10.90	DEC 12	10.85	FEB 17	9.90	APR 17	4.90	JUL 12	8.65		
30	10.90	JAN 10	10.40	MAR 08	8.30	MAY 15	7.00	AUG 08	8.96		

OXFORD COUNTY--Continued

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.

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 1978 TO SEPTEMBER 1979

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 24	11.70	JAN 16	12.50	APR 16	7.80	JUN 28	8.46	SEP 16	11.00		
NOV 16	12.60	FEB 15	12.50	MAY 15	7.40	JUL 15	9.60	19	11.10		
30	12.50	MAR 16	10.60	29	7.40	AUG 16	10.60	29	11.60		
DEC 20	12.40	28	8.40	JUN 18	8.00	30	10.80				

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 1978 TO SEPTEMBER 1979

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 15	15.78	DEC 15	13.25	FEB 15	5.20	APR 15	3.88	JUN 15	5.49	SEP 15	5.25
29	15.11	29	13.20	28	7.74	29	3.35	29	6.65	29	7.03
NOV 15	14.93	JAN 15	8.28	MAR 15	2.55	MAY 15	5.13	JUL 15	8.56		
29	13.35	29	3.83	30	3.98	29	3.56	AUG 15	5.80		

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.

WATER LEVEL, IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	25.88	26.24	26.19	23.16	19.66	21.16	18.32	17.94	18.57	21.48	23.02	22.97
10	25.95	26.28	26.19	22.28	19.99	19.84	18.06	---	19.18	21.84	23.22	22.82
15	26.08	26.32	26.19	22.11	20.45	19.38	17.95	---	19.57	22.20	22.99	22.81
20	26.10	26.32	26.15	22.12	20.86	19.46	18.38	---	20.19	22.26	22.97	22.94
25	26.22	26.25	26.06	21.67	21.14	19.38	18.87	---	20.68	22.52	22.78	23.11
EOM	26.23	26.21	26.05	19.87	21.10	18.31	17.53	18.89	21.13	22.80	22.82	---

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 1978 TO SEPTEMBER 1979

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 02	11.51	DEC 26	F	MAR 13	4.41	MAY 15	4.98	JUN 24	5.37	SEP 11	9.19
10	11.70	JAN 26	F	25	3.21	20	5.06	29	6.22	25	9.73
25	12.00E	FEB 11	7.66	APR 10	4.19	25	5.21	JUL 10	6.59		
NOV 11	F	22	6.81	26	4.82	JUN 01	4.19	27	7.28		
25	F	26	6.68	MAY 04	4.49	05	4.15	AUG 11	7.34		
DEC 11	F	MAR 10	3.28	10	4.80	11	5.24	26	8.72		

E - Estimated
F -. Well dry

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 1978 TO SEPTEMBER 1979

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 13	12.75	NOV 28	11.90	JAN 15	8.96	MAR 19	11.48	JUN 01	8.58	AUG 01	11.05
30	10.60	DEC 14	10.75	30	10.66H	29	10.84	28	11.72		
NOV 16	12.45	29	11.24	FEB 27	12.00	APR 17	10.02	JUL 15	10.73		

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 1978 TO SEPTEMBER 1979

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
UCT 30	16.80	DEC 29	17.80	FEB 27	16.70	APR 25	14.80	JUN 25	10.78	AUG 25	14.01
NOV 26	17.10	JAN 26	16.70	MAR 26	15.70	MAY 25	13.29	JUL 27	12.19	SEP 26	15.66

GROUND-WATER LEVELS

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 1978 TO SEPTEMBER 1979
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	18.66	19.19	19.63	18.50	---	11.08	8.54	8.65	8.96	11.29	10.97	11.65
10	18.70	19.27	19.78	15.42	---	8.46	8.79	9.10	9.41	11.77	11.21	11.90
15	18.72	19.33	19.83	11.25	12.09	8.68	---	9.95	9.75	12.13	11.60	11.90
20	18.77	19.39	19.89	11.16	12.50	9.03	---	10.90	10.18	12.57	11.17	11.89
25	19.05	19.49	19.99	11.66	13.00	8.16	9.35	10.50	11.06	12.96	11.29	11.99
EOM	19.13	19.55	20.02	---	11.30	8.60	8.38	8.80	11.27	11.50	11.48	---

QUALITY OF GROUND WATER

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CHEMICAL ANALYSES, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979

STATION NUMBER	GEO-LOGIC UNIT	SAMP-LING DEPTH (FT)	DATE OF SAMPLE	SPE-CIFIC CON-DUCT-ANCE (MICHO-MHOS)	PH (UNITS)	TEMPER-ATURE (DEG C)	HARD-NESS (MG/L AS CAC03)	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)
ANDROSCUGGIN COUNTY											
442305070150901	112ICCC	25	79-02-12	649	6.6	5.5	150	120	52	5.3	41
442621070065601	1120TSH	3.0	79-02-12	76	6.6	10.0	26	1	8.2	1.4	2.4
442630070131201	112TILL	12	79-02-12	40	6.2	5.0	11	2	3.8	.4	1.6
FRANKLIN COUNTY											
443928070113601	112TILL	4.0	79-03-12	235	6.7	3.0	90	23	34	1.2	3.7
444014070092801	1120TSH	65	79-02-07	165	6.4	10.0	51	20	15	3.3	8.7
444234070093201	112TILL	165	79-02-15	200	8.0	9.0	54	0	18	2.3	18
444312070031101	300HDRK	144	79-02-07	180	7.5	6.5	64	0	19	4.1	12
444312070031101	300HDRK	144	79-10-23	--	--	--	--	--	--	--	--
444657070134701	1120TSH	14	79-03-12	140	5.7	3.0	43	1	14	1.9	2.1
445703070111001	112ICCC	31	79-02-07	89	6.7	6.0	34	2	9.0	2.9	2.7
445805070405501	300HDRK	225	79-02-07	495	6.8	5.0	190	120	69	3.2	10
451129070274801	300HDRK	428	79-02-15	195	8.5	7.0	72	0	20	5.4	11
KENNEBEC COUNTY											
441849069442001	112TILL	22	79-05-10	235	6.2	10.5	54	35	14	4.7	13
OXFORD COUNTY											
440623070481101	112TILL	8.0	79-02-15	53	6.5	4.0	15	4	4.4	1.0	2.6
440623070481101	112TILL	8.0	79-10-23	55	6.0	12.0	--	--	--	--	--
440800070291501	112ICCC	83	79-03-13	155	7.0	9.0	34	0	10	2.1	17
441137070312501	112ICCC	82	79-03-14	165	6.2	10.0	51	24	16	2.6	8.8
441500070310501	1120TSH	62	79-03-14	125	6.3	8.0	40	13	14	1.3	4.2
442244070385601	112ICCC	74	79-02-09	345	6.3	7.0	46	8	13	3.2	40
442244070385601	112ICCC	74	79-11-15	305	6.2	15.0	39	7	11	2.7	34
442311070455501	300HDRK	232	79-02-09	145	7.8	7.0	41	7	15	.9	7.2
442440070510101	1120TSH	35	79-02-09	70	5.7	5.5	8	0	2.6	.4	7.1
442903070390101	112ICCC	103	79-02-12	110	6.3	7.0	23	7	5.7	2.1	4.2
442903070390101	112ICCC	103	79-10-23	--	6.2	15.0	--	--	--	--	--
443140070232301	112TILL	20	79-02-12	43	5.7	3.5	12	0	3.7	.6	2.4
443247070501001	300HDRK	300	79-02-09	111	6.4	5.0	35	7	9.8	2.6	2.6
443409070334501	1120TSH	53	79-03-09	75	6.0	5.5	18	8	5.0	1.3	4.5
443458070440501	1120TSH	40	79-02-09	115	7.1	11.0	35	4	8.2	3.6	2.4
443458070440501	1120TSH	40	79-10-23	--	--	--	--	--	--	--	--
SOMERSET COUNTY											
444219069545801	111EOLN	14	79-05-10	139	6.4	7.5	39	12	12	2.3	1.9
WASHINGTON COUNTY											
444240067283501	300HDRK	71	79-06-28	220	6.5	8.0	81	8	29	2.2	5.7
YORK COUNTY											
434822070482501	1120TSH	24	79-05-07	225	6.8	8.0	59	18	21	1.6	8.2

QUALITY OF GROUND WATER

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979

STATION NUMBER	DATE OF SAMPLE	POTASSIUM, DIS-SOLVED (MG/L AS K)	BICARBONATE (MG/L AS HCO3)	CARBONATE (MG/L AS CO3)	CARBON DIOXIDE DIS-SOLVED (MG/L AS CO2)	SULFATE DIS-SOLVED (MG/L AS SO4)	CHLORIDE, DIS-SOLVED (MG/L AS CL)	FLUORIDE, DIS-SOLVED (MG/L AS F)	SILICA, DIS-SOLVED (MG/L AS SiO2)	SOLIDS, SUM OF CONSTITUENTS, DIS-SOLVED (MG/L)	NITROGEN, NITRATE DIS-SOLVED (MG/L AS N)
ANDROSOGGIN COUNTY--Continued											
442305070150901	79-02-12	6.1	37	0	15	8.8	140	.0	8.9	306	5.7
442621070065601	79-02-12	1.7	31	0	12	6.3	1.0	.0	12	50	.28
442630070131201	79-02-12	.7	11	0	11	6.0	1.3	.0	4.8	28	.73
FRANKLIN COUNTY--Continued											
443928070113601	79-03-12	2.1	82	0	26	9.5	11	.0	5.4	111	.85
444014070092801	79-02-07	2.6	38	0	24	18	13	.1	12	45	.70
444234070093201	79-02-15	1.0	89	0	1.4	18	3.2	.1	9.2	114	.01
444312070031101	79-02-07	1.3	87	0	4.4	8.6	2.6	1.0	13	105	.09
444312070031101	79-10-23	--	--	--	--	--	--	--	--	--	--
444657070134701	79-03-12	5.3	51	0	163	5.6	2.0	.0	5.5	63	.35
445703070111001	79-02-07	1.6	39	0	12	9.0	1.6	.0	17	63	.05
445805070405501	79-02-07	4.8	78	0	20	120	19	.1	13	278	.02
451129070274801	79-02-15	.9	92	0	.5	13	.6	.1	11	108	.16
KENNEBEC COUNTY--Continued											
441849069442001	79-05-10	1.6	23	0	23	15	35	.0	8.7	105	.36
OXFORD COUNTY--Continued											
440623070481101	79-02-15	.8	14	0	7.1	.5	5.9	.0	14	37	.15
440623070481101	79-10-23	--	--	--	--	--	--	--	--	--	--
440800070291501	79-03-13	1.5	57	0	9.1	12	5.1	.3	11	88	.23
441137070312501	79-03-14	1.4	32	0	32	10	18	.0	12	92	1.6
441500070310501	79-03-14	1.1	33	0	26	11	7.8	.0	8.7	66	.29
442244070385601	79-02-09	2.8	46	0	37	--	--	--	12	--	3.8
442244070385601	79-11-15	2.6	--	--	--	12	50	.2	12	144	--
442311070455501	79-02-09	1.9	42	0	1.1	20	1.0	.4	11	80	.33
442440070510101	79-02-09	.9	11	0	35	2.8	11	.0	7.5	38	.14
442903070390101	79-02-12	1.8	19	0	15	13	4.4	.0	18	59	.01
442903070390101	79-10-23	--	--	--	--	--	--	--	--	--	--
443140070232301	79-02-12	1.0	16	0	51	3.7	.6	.0	12	32	.01
443247070501001	79-02-09	1.4	34	0	22	7.8	2.8	.1	6.9	55	.90
443409070334501	79-03-09	.8	12	0	19	12	5.2	.1	7.7	44	.35
443458070440501	79-02-09	2.1	38	0	4.8	11	1.3	.1	15	62	.01
443458070440501	79-10-23	--	--	--	--	--	--	--	--	--	--
SOMERSET COUNTY--Continued											
444219069545801	79-05-10	2.5	34	0	22	14	2.0	.0	5.2	59	.50
WASHINGTON COUNTY--Continued											
444240067283501	79-06-28	2.1	89	0	45	8.2	3.8	.1	13	109	.24
YORK COUNTY--Continued											
434822070482501	79-05-07	7.6	50	0	13	13	13	.0	5.8	121	5.8

QUALITY OF GROUND WATER

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CHEMICAL ANALYSES, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979

STATION	NUMBER	DATE OF SAMPLE	NITRO- GEN, NITRATE DIS- SOLVED (MG/L AS NO3)	NITRO- GEN, NITRITE OIS- SOLVED (MG/L AS N)	NITRO- GEN, NITRITE DIS- SOLVED (MG/L AS NO2)	PHOS- PHORUS, TOTAL (MG/L AS P)	IRON, TOTAL RECOV- ERABLE (UG/L AS FE)	IRON, DIS- SOLVED (UG/L AS FE)	MANGA- NESE, TOTAL RECOV- ERABLE (UG/L AS MN)	MANGA- NESE, DIS- SOLVED (UG/L AS MN)	GROSS ALPHA, DIS- SOLVED (UG/L AS U-NAT)	GROSS ALPHA, SUSP. TOTAL (UG/L AS U-NAT)
ANDROSCOGGIN COUNTY--Continued												
442305070150901	79-02-12	25	.01	.03	.00	80	--	0	--	--	--	--
442621070065601	79-02-12	1.2	.00	.00	.00	150	--	0	--	--	--	--
442630070131201	79-02-12	3.2	.24	.79	.00	80	--	0	--	--	--	--
FRANKLIN COUNTY--Continued												
443928070113601	79-03-12	3.8	.00	.00	.00	120	--	0	--	--	--	--
444014070092801	79-02-07	3.1	.00	.00	.00	50	--	20	--	--	<1.7	<.4
444234070093201	79-02-15	.04	.00	.00	.04	110	--	30	--	--	--	--
444312070031101	79-02-07	.40	.00	.00	.00	2100	--	1300	--	--	7.7	<.4
444312070031101	79-10-23	--	--	--	--	--	80	--	80	--	--	--
444657070134701	79-03-12	1.6	.00	.00	.04	4900	--	590	--	--	--	--
445703070111001	79-02-07	.22	.00	.00	.00	280	--	10	--	--	--	--
445805070405501	79-02-07	.09	.00	.00	.00	60	--	70	--	--	<1.7	<.4
451129070274801	79-02-15	.71	.00	.00	.01	150	--	30	--	--	3.5	<.4
KENNEBEC COUNTY--Continued												
441849069442001	79-05-10	1.6	.00	.03	.01	240	--	10	--	--	--	--
OXFORD COUNTY--Continued												
440623070481101	79-02-15	.66	.00	.00	.00	1400	--	380	--	--	--	--
440623070481101	79-10-23	--	--	--	--	--	0	--	10	--	--	--
440800070291501	79-03-13	1.0	.00	.00	.01	30	--	0	--	--	--	--
441137070312501	79-03-14	7.1	.00	.00	.01	50	--	0	--	--	--	--
441500070310501	79-03-14	1.3	.00	.00	.00	50	--	0	--	--	--	--
442244070385601	79-02-09	17	.00	.00	.00	160	--	10	--	--	--	--
442244070385601	79-11-15	--	--	--	.05	50	--	20	--	--	--	--
442311070455501	79-02-09	1.5	.00	.00	.01	50	--	0	--	--	<1.8	<.4
442440070510101	79-02-09	.62	.01	.03	.00	150	--	0	--	--	--	--
442903070390101	79-02-12	.04	.00	.00	.01	5700	--	130	--	--	--	--
442903070390101	79-10-23	--	--	--	--	--	6000	--	--	140	--	--
443140070232301	79-02-12	.04	.08	.26	.00	120	--	0	--	--	--	--
443247070501001	79-02-09	4.0	.00	.00	.00	70	--	0	--	--	<1.0	<.4
443409070334501	79-03-09	1.6	.00	.00	.00	20	--	0	--	--	.6	<.4
443458070440501	79-02-09	.04	.00	.00	.00	6200	--	250	--	--	--	--
443458070440501	79-10-23	--	--	--	--	--	5800	--	--	280	--	--
SOMERSET COUNTY--Continued												
444219069545801	79-05-10	2.2	.00	.00	.06	440	--	10	--	--	--	--
WASHINGTON COUNTY--Continued												
444240067283501	79-06-28	1.1	.00	.00	.00	1900	--	50	--	--	--	--
YORK COUNTY--Continued												
434822070482501	79-05-07	26	.01	.03	.10	140	--	10	--	--	--	--

QUALITY OF GROUND WATER
CHEMICAL ANALYSES, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979

STATION NUMBER	DATE OF SAMPLE	GROSS BETA, DIS-SOLVED (PCI/L AS CS-137)	GROSS BETA, SUSP. TOTAL (PCI/L AS CS-137)	GROSS BETA, DIS-SOLVED (PCI/L AS SK/ YT-90)	GROSS BETA, SUSP. TOTAL (PCI/L AS SK/ YT-90)	RADIUM 226, DIS-SOLVED (PCI/L RADON METHOD (UG/L))	URANIUM DIS-SOLVED, EXTRAC-TION (UG/L)	CARBON, ORGANIC TOTAL (MG/L AS C)
ANDROSCOGGIN COUNTY--Continued								
442305070150901	79-02-12	--	--	--	--	--	--	.5
442621070065601	79-02-12	--	--	--	--	--	--	.3
442630070131201	79-02-12	--	--	--	--	--	--	.3
FRANKLIN COUNTY--Continued								
443928070113601	79-03-12	--	--	--	--	--	--	.6
444014070092801	79-02-07	2.8	<.4	2.7	<.4	.18	.01	4.8
444234070093201	79-02-15	--	--	--	--	--	--	.9
444312070031101	79-02-07	4.8	<.4	4.5	<.4	.93	.90	.1
444312070031101	79-10-23	--	--	--	--	--	--	--
444657070134701	79-03-12	--	--	--	--	--	--	5.7
445703070111001	79-02-07	--	--	--	--	--	--	5.3
445805070405501	79-02-07	1.3	<.4	1.2	<.4	.10	.19	1.1
451129070274801	79-02-15	.9	.5	.8	.6	.06	2.1	.4
KENNEBEC COUNTY--Continued								
441849069442001	79-05-10	--	--	--	--	--	--	2.5
OXFORD COUNTY--Continued								
440623070481101	79-02-15	--	--	--	--	--	--	.5
440623070481101	79-10-23	--	--	--	--	--	--	--
440800070291501	79-03-13	--	--	--	--	--	--	1.2
441137070312501	79-03-14	--	--	--	--	--	--	5.2
441500070310501	79-03-14	--	--	--	--	--	--	1.5
442244070385601	79-02-09	--	--	--	--	--	--	.3
442244070385601	79-11-15	--	--	--	--	--	--	1.3
442311070455501	79-02-09	2.0	<.4	1.9	<.4	.04	1.3	.2
442440070510101	79-02-09	--	--	--	--	--	--	1.6
442903070390101	79-02-12	--	--	--	--	--	--	.4
442903070390101	79-10-23	--	--	--	--	--	--	--
443140070232301	79-02-12	--	--	--	--	--	--	.2
443247070501001	79-02-09	1.2	<.4	1.2	<.4	.13	1.3	1.5
443409070334501	79-03-09	1.3	<.4	1.2	<.4	.08	.28	.9
443458070440501	79-02-09	--	--	--	--	--	--	.3
443458070440501	79-10-23	--	--	--	--	--	--	--
SOMERSET COUNTY--Continued								
444219069545801	79-05-10	--	--	--	--	--	--	3.9
WASHINGTON COUNTY--Continued								
444240067283501	79-06-28	--	--	--	--	--	--	1.5
YORK COUNTY--Continued								
434822070482501	79-05-07	--	--	--	--	--	--	5.1

Geologic unit (aquifer);

- 111EOLN - Eolian (wind-blown) deposits
- 112ICCC - Ice-contact deposits
- 112OTSH - Outwash
- 112TILL - Till
- 300BDRK - Bedrock undifferentiated

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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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