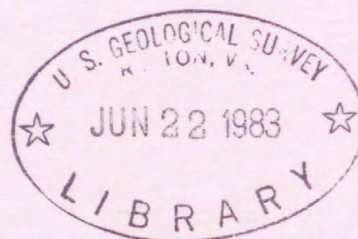


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Water Resources Data Maine

Water Year 1982



U.S. GEOLOGICAL SURVEY WATER-DATA REPORT ME-82-1
Prepared in cooperation with the State of Maine
and with other agencies

CALENDAR FOR WATER YEAR 1982

1981

OCTOBER

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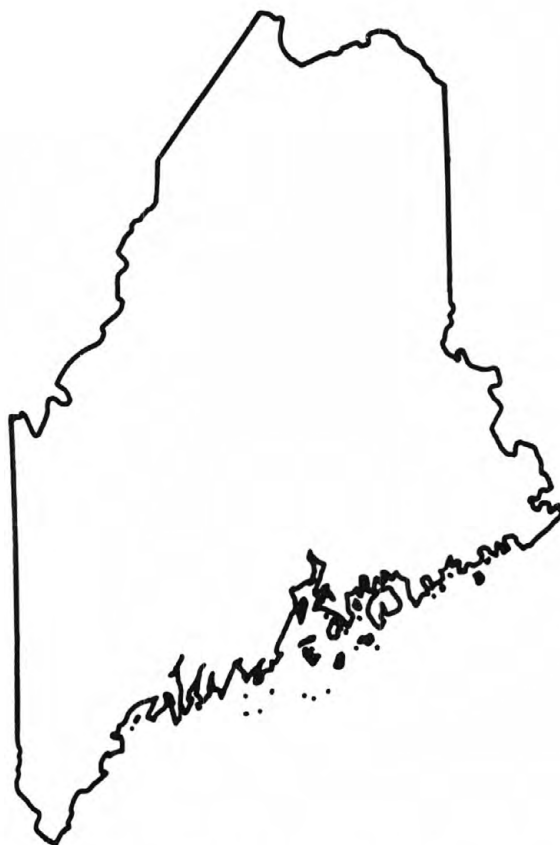
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Water Resources Data Maine

Water Year 1982

by R.A. Morrill, C.R. Haskell, G.C. Prescott, and T.J. Maloney



U.S. GEOLOGICAL SURVEY WATER-DATA REPORT ME-82-1
Prepared in cooperation with the State of Maine
and with other agencies

UNITED STATES DEPARTMENT OF THE INTERIOR

JAMES G. WATT, Secretary

GEOLOGICAL SURVEY

Dallas L. Peck, Director

For additional information write to
Chief, Maine Office
Water Resources Division
U.S. Geological Survey
Augusta, ME 04330

PREFACE

This volume of the annual hydrologic data report of Maine is one of a series of annual reports that document hydrologic data gathered from the U.S. Geological Survey's surface-and ground-water data-collection networks in each State, Puerto Rico, and the Trust Territories. These records of streamflow, ground-water levels, and quality of water provide the hydrologic information needed by State, local, and Federal agencies, and the private sector for developing and managing our Nation's land and water resources.

This report is the culmination of a concerted effort by dedicated personnel of the U.S. Geological Survey who collected, compiled, analyzed, verified, and organized the data, and who typed, edited, and assembled the report. In addition to the authors, who had primary responsibility for assuring that the information contained herein is accurate, complete, and adheres to Geological Survey policy and established guidelines, the following individuals contributed significantly to the collection, processing, and tabulation of the data:

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This report was prepared in cooperation with the State of Maine and with other agencies under the general supervision of D.J. Cowing, Chief, Maine office.

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(b) biological, (m) microbiological, (t) water temperature, (e) elevation, stage,
or contents

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INTRODUCTION

Water resources data for the 1982 water year for Maine consist of records of stage, discharge, and water quality of streams; stage and contents of lakes and reservoirs; and ground-water levels. This report contains discharge records for 70 gaging stations; stage only records for 1 gaging station; contents for 17 lakes and reservoirs; water quality for 19 gaging stations; and water levels for 32 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 the libraries of the principal cities in the United States or may be purchased from Branch of Distribution, U.S. Geological Survey, 604 South Pickett Street, Alexandria, VA 22304.

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

Beginning with the 1971 water year, water data for streamflow, water quality, and ground water are published in official Survey reports 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 volume is identified as "U.S. Geological Survey Water-Data Report ME-82-2." These water-data reports are for sale, in paper copy or in microfiche, by the National Technical Information Service, U.S. Department of Commerce, Springfield, VA 22161.

Additional information, including current prices, for ordering specific reports may be obtained from the Chief, Maine office, at the address given on the back of the title page of this book, or by telephone at (207) 622-8208.

COOPERATION

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

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

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

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

Town of Wilton, E. R. Jenkins, 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 U.S. Veterans Administration for 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 gaging 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."

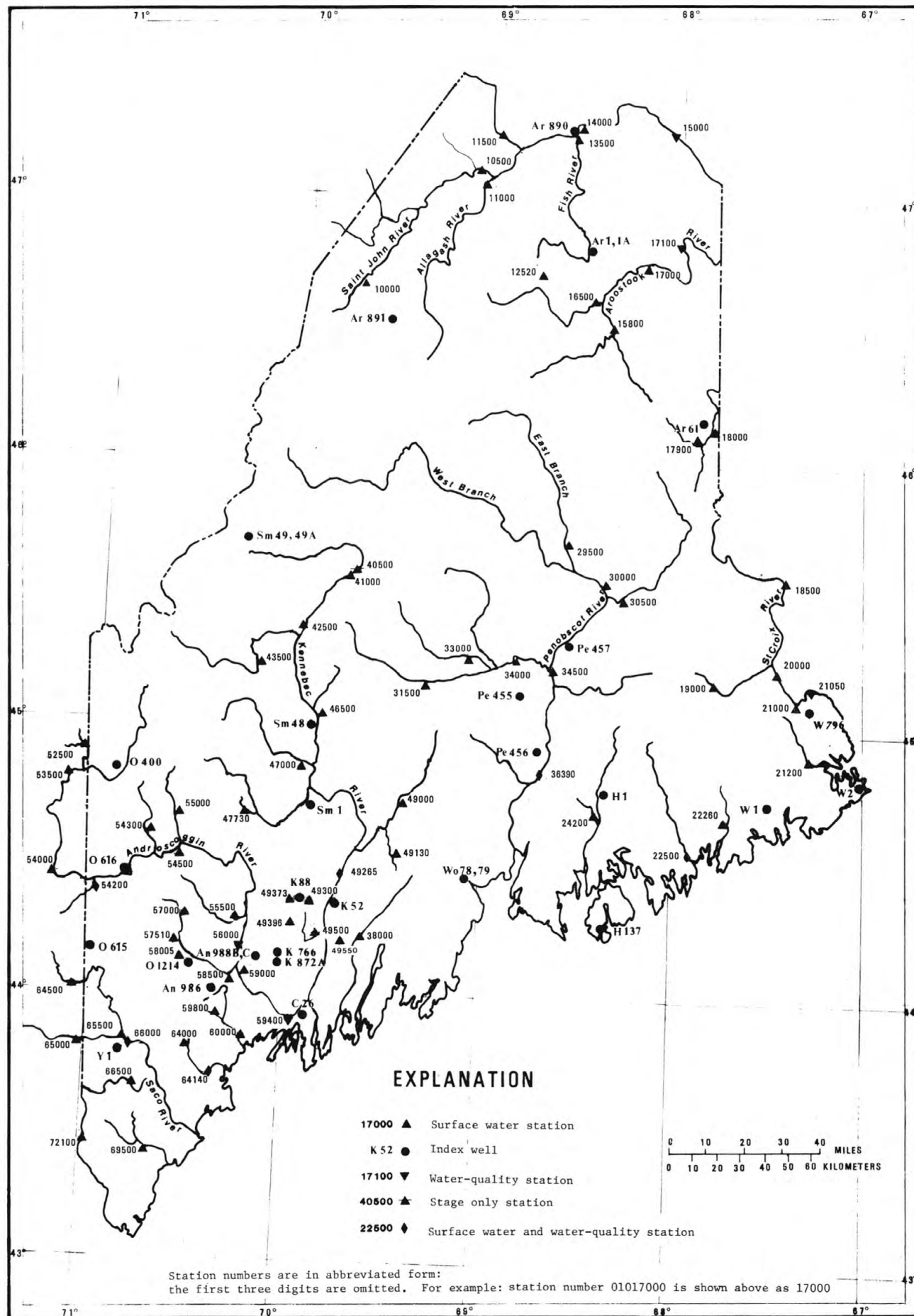


Figure 1. Location of stations

SUMMARY OF HYDROLOGIC CONDITIONS

The most notable characteristic of the 1982 water year was the absence of extreme hydrologic events, as reflected by runoff that was in the normal range for the year at the four index 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.

Ground-water levels and surface-water runoff were above normal at the start of the water year. This trend continued through November at most of the wells and two of the four index gaging stations. Despite above normal precipitation in December, surface-water runoff remained near normal. Ground-water levels declined during December. Hydrologic conditions remained fairly normal through April with some minor variations. Most notably, ground-water levels in April were above normal in southeastern and southwestern coastal areas in April.

Precipitation in May was only 41 percent of normal, which caused a decline in surface-water runoff and most ground-water levels; however, both remained in the normal range. Wide variations in June precipitation resulted in mixed trends across the State. Much-below-normal precipitation in July resulted in normal to below-normal streamflow and ground-water levels over most of the State; the exceptions were the western and southeastern areas where ground-water levels were above normal. Above-normal August precipitation maintained ground-water levels, but resulted in excessive streamflow in southwestern areas. Ground-water levels declined through September and were lower at all observation wells than at the beginning of the water year.

Usable storage in seven reservoir systems in Maine totaled 171×10^9 ft³ at the start of the water year. This was 96 percent of capacity and 180 percent of normal for the date. This amount steadily decreased each month and by the end of March totaled about 64×10^9 ft³, which was 36 percent of capacity and 102 percent of normal. Spring snowmelt increased the storage significantly the next two months and it remained slightly above normal until the end of August. By the end of September, storage had dropped to 101×10^9 ft³, which was 57 percent of capacity and 98 percent of normal.

Figure 2 shows a comparison of the monthly and yearly mean discharges for the 1982 water year with median discharges for the 1951-80 period, taken from records of long-term index stations in Maine.

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.

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.

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.

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 $44.5^\circ\text{C} \pm 0.2^\circ\text{C}$ 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 $35^\circ\text{C} \pm 1.0^\circ\text{C}$ 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.

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.

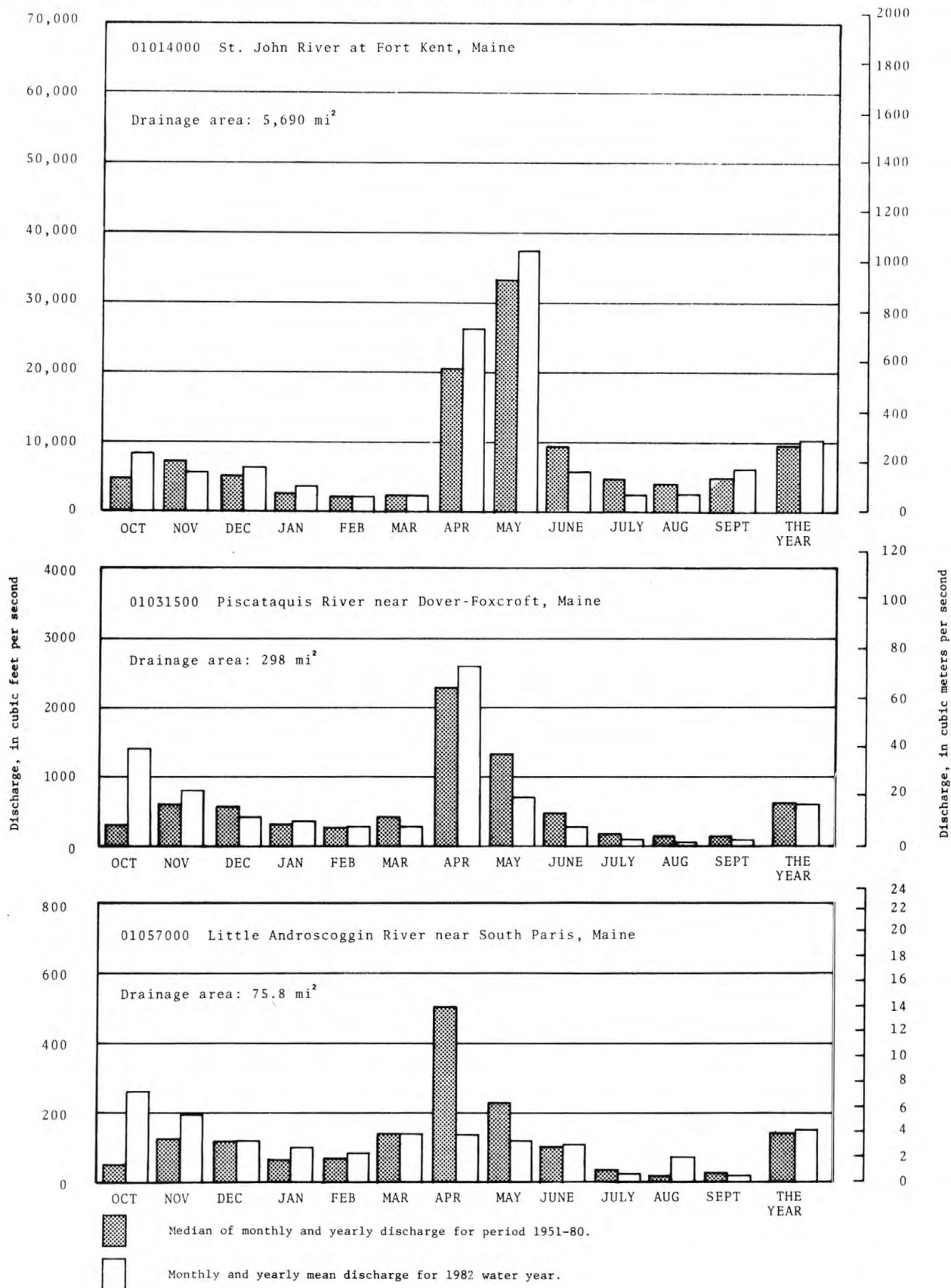


Figure 2.-- Comparison of discharge at three long-term index gaging stations during 1982 water year with median discharge for period 1951-80.

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."

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.

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.

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.

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.

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.

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.

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).

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.

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.

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, 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.

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

Total (as used in tables of chemical analysis):

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

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

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

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

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

DOWNSTREAM ORDER AND STATION NUMBER

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

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

NUMBERING SYSTEM FOR WELLS AND MISCELLANEOUS SITES

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

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

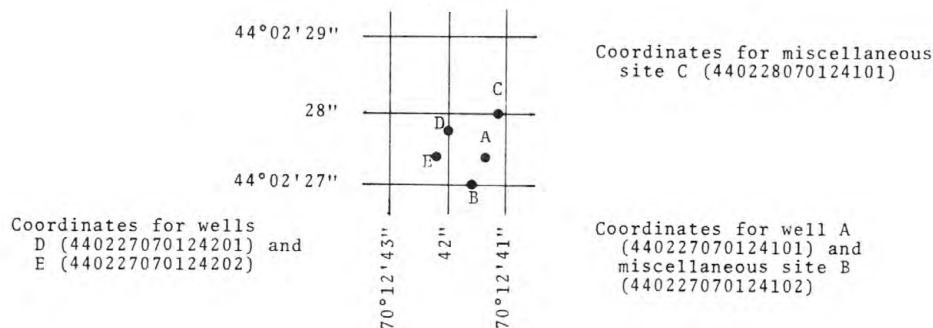


Figure 3.--System for numbering wells and miscellaneous sites (latitude and longitude)

SPECIAL NETWORKS AND PROGRAMS

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

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

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

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

EXPLANATION OF STAGE AND WATER-DISCHARGE RECORDS

Collection and computation of data

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

Accuracy of field data and computed results

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

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

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

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

Other data available

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

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

EXPLANATION OF WATER-QUALITY RECORDS

Collection and examination of data

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

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

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

Water analysis

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

One sample can define adequately the water quality at a given time if the mixture of solutes throughout the stream cross section is homogeneous. However, concentration of solutes at different locations in the cross section may vary widely with different rates of water discharge, depending on the source of material and the turbulence and mixing of the stream. Some streams must be sampled through several vertical sections to obtain a representative sample needed for an accurate mean concentration and for use in calculating load.

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

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

Water temperature

Water temperatures are measured at most of the water-quality stations. In addition, water temperatures are taken at time of discharge measurements for water-discharge stations. Large streams have a small diurnal temperature change; shallow streams may have a daily range of several degrees and may follow closely the changes in air temperature. Some streams may be affected by waste-heat discharges.

At stations where recording instruments are used, either mean temperatures or maximum and minimum temperatures for each day are published.

Sediment

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

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

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

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

EXPLANATION OF GROUND-WATER LEVEL RECORDS

Collection of the data

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

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

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

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

PUBLICATIONS ON TECHNIQUES OF WATER-RESOURCES INVESTIGATIONS

Thirty-seven manuals by the U.S. Geological Survey have been published to date in the series on techniques describing procedures for planning and executing specialized work in water-resources investigations. The material is grouped under major subject headings called books and is further divided into sections and chapters. For example, Section A of Book 3 (Applications of Hydraulics) is on surface water. The chapter, the unit of publication, is limited to a narrow field of subject matter. This format permits flexibility in revision and publication as the need arises. The reports listed below are for sale by the U.S. Geological Survey, Branch of Distribution, 604 South Pickett St., Alexandria, VA 22304 (authorized agent of the Superintendent of Documents, Government Printing Office).

NOTE: When ordering any of these publications, please give the title, book number, chapter number, and "U.S. Geological Survey Techniques of Water-Resources Investigations".

- 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-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.
- 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.
- 2-E1. *Application of borehole geophysics to water-resources investigations*, by W. S. Keys and L. M. MacCary: USGS--TWRI Book 2, Chapter E1. 1971. 126 pages.
- 3-A1. *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.
- 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.
- 3-A3. *Measurement of peak discharge at culverts by indirect methods*, by G. L. Bodhaine: USGS--TWRI Book 3, Chapter A3. 1968. 60 pages.
- 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.
- 3-A5. *Measurement of peak discharge at dams by indirect methods*, by Harry Hulsing: USGS--TWRI Book 3, Chapter A5. 1967. 29 pages.
- 3-A6. *General procedure for gaging streams*, by R. W. Carter and Jacob Davidian: USGS--TWRI Book 3, Chapter A6. 1968. 13 pages.
- 3-A7. *Stage measurements at gaging stations*, by T. J. Buchanan and W. P. Somers: USGS--TWRI Book 3, Chapter A7. 1968. 28 pages.
- 3-A8. *Discharge measurements at gaging stations*, by T. J. Buchanan and W. P. Somers: USGS--TWRI Book 3, Chapter A8. 1969. 65 pages.
- 3-A9. *Measurement of time of travel and dispersion in streams by dye tracing*, by E. F. Hubbard, F. A. Kilpatrick, L. A. Martens, and J. F. Wilson, Jr.: USGS--TWRI Book 3, Chapter A9. 1982. 44 pages.
- 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.
- 3-B1. *Aquifer-test design, observation, and data analysis*, by R. W. Stallman: USGS--TWRI Book 3, Chapter B1. 1971. 26 pages.
- 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.
- 3-B3. *Type curves for selected problems of flow to wells in confined aquifers*, by J. E. Reed: USGS--TWRI Book 3, Chapter B3. 1980. 106 pages.
- 3-C1. *Fluvial sediment concepts*, by H. P. Guy: USGS--TWRI Book 3, Chapter C1. 1970. 55 pages.
- 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.
- 3-C3. *Computation of fluvial-sediment discharge*, by George Porterfield: USGS--TWRI Book 3, Chapter C3. 1972. 66 pages.
- 4-A1. *Some statistical tools in hydrology*, by H. C. Riggs: USGS--TWRI Book 4, Chapter A1. 1968. 39 pages.
- 4-A2. *Frequency curves*, by H. C. Riggs: USGS--TWRI Book 4, Chapter A2. 1968. 15 pages.
- 4-B1. *Low-flow investigations*, by H. C. Riggs: USGS--TWRI Book 4, Chapter B1. 1972. 18 pages.
- 4-B2. *Storage analyses for water supply*, by H. C. Riggs and C. H. Hardison: USGS--TWRI Book 4, Chapter B2. 1973. 20 pages.
- 4-B3. *Regional analyses of streamflow characteristics*, by H. C. Riggs: USGS--TWRI Book 4, Chapter B3. 1973. 15 pages.
- 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.
- 5-A1. *Methods for determination of inorganic substances in water and fluvial sediments*, by M. W. Skougstad and others, editors: USGS--TWRI Book 5, Chapter A1. 1979. 626 pages.
- 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.
- 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.
- 5-A4. *Methods for collection and analysis of aquatic biological and microbiological samples*, edited by P. E. Greeson, T. A. Ehlike, G. A. Irwin, B. W. Lium, and K. V. Slack: USGS--TWRI Book 5, Chapter A4. 1977. 332 pages.
- 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-C1. *Laboratory theory and methods for sediment analysis*, by H. P. Guy: USGS--TWRI Book 5, Chapter C1. 1969. 58 pages.
- 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.
- 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.
- 7-C3. *A model for simulation of flow in singular and interconnected channels*, by R. W. Schaffranek, R. A. Baltzer, and D. E. Goldberg: USGS--TWRI Book 7, Chapter C3. 1981. 110 pages.
- 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.
- 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.

HYDROLOGIC-DATA STATION RECORDS

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", Arcostook 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.--1,341 mi² (3,473 km²), revised.

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

Water-quality records: Water years 1975 to 1981.

Specific conductance: April 1975 to September 1980.

Water temperatures: April 1975 to September 1980.

Suspended sediment discharge: October 1975 to September 1976.

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, and period of no gage-height record Apr. 13 to May 8, which are fair. Several observations of water temperature and specific conductance were made during the year.

AVERAGE DISCHARGE.--32 years, 2,316 ft³/s (65.59 m³/s), 23.45 in/yr (596 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); maximum gage-height, 20.01 ft (6.099 m) Apr. 2, 1976 (backwater from ice); 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, 32,000 ft³/s (906 m³/s) Apr. 28 (determined by hydrographic correlation with station 01010500); minimum discharge 95 ft³/s (2.69 m³/s) Aug. 22, 23, gage height, 0.36 ft (0.110 m).

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	5150	6200	712	470	260	270	2100	17500	811	1270	240	711
2	3920	4810	918	450	260	265	2300	14600	786	1000	221	1090
3	3370	3920	1050	440	270	260	2550	13000	1440	831	205	4190
4	3840	3340	1070	430	285	255	2720	16700	2020	751	171	5200
5	4570	2820	1130	420	310	250	2700	14600	1650	676	150	4180
6	3940	2400	1100	420	330	250	2600	16000	1250	587	133	2830
7	3690	2840	1020	420	355	245	2350	17500	957	492	124	2590
8	7050	3400	1110	425	380	245	2150	19500	752	416	123	2690
9	9070	3150	1270	405	400	240	1950	19300	618	356	151	2180
10	7500	2700	1220	380	415	240	1800	18400	526	304	190	1700
11	5740	2300	1160	365	420	240	1650	16900	451	267	242	1340
12	4370	2030	1100	360	420	245	1570	14000	399	232	260	1070
13	3490	1700	991	355	415	250	1530	10900	356	208	208	864
14	2930	1560	870	345	415	260	1550	8470	326	197	185	707
15	2560	1520	940	340	410	275	1680	6840	309	192	163	610
16	2290	1430	810	335	405	290	1900	5720	352	178	146	632
17	2120	1420	780	330	390	310	2500	4850	689	164	131	1560
18	1990	1640	740	320	380	320	3750	4030	743	153	119	2330
19	2740	2300	720	315	365	345	5000	3380	580	154	110	2050
20	5500	2450	700	310	350	370	6700	3300	485	149	107	1650
21	5170	2300	680	305	340	415	9000	4110	443	137	99	1290
22	4190	2100	695	300	330	500	11200	3850	550	128	96	1010
23	3570	1960	700	295	320	570	12300	3080	893	123	96	815
24	5900	1660	705	290	310	660	13000	2510	3160	113	114	712
25	8030	1390	680	285	300	810	13100	2140	4760	112	196	998
26	6920	1300	650	285	295	940	17500	1920	3760	154	1710	851
27	6280	1200	610	280	285	1100	23000	1690	2610	226	3830	742
28	8850	969	570	275	280	1350	30000	1450	1900	254	2880	1230
29	12800	1190	540	270	---	1550	29500	1230	1440	256	1930	2000
30	11000	860	510	270	---	1800	22000	1040	1300	265	1350	1790
31	8380	---	485	265	---	1950	---	904	---	283	953	---
TOTAL	166920	68859	26036	10755	9695	17070	231650	269414	36316	10628	16633	51612
MEAN	5385	2295	840	347	346	551	7722	8691	1211	343	537	1720
MAX	12800	6200	1270	470	420	1950	30000	19500	4760	1270	3830	5200
MIN	1990	860	485	265	260	240	1530	904	309	112	96	610
CFSM	4.02	1.71	.63	.26	.26	.41	5.76	6.48	.90	.26	.40	1.28
IN.	4.63	1.91	.72	.30	.27	.47	6.43	7.47	1.01	.29	.46	1.43

CAL YR 1981 TOTAL 1067617 MEAN 2925 MAX 36200 MIN 270 CFSM 2.18 IN 29.62
WTR YR 1982 TOTAL 915588 MEAN 2508 MAX 30000 MIN 96 CFSM 1.87 IN 25.40

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.--2,680 mi² (6,941 km²), revised.

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 and period of no gage-height record, Feb. 11 to May 5, which are fair. Peak discharge on Apr. 29, computed from wire-weight reading of observer. Several observations of water temperature and specific conductance were made during the year.

AVERAGE DISCHARGE.--36 years (water years 1947-82), 4,754 ft³/s (134.6 m³/s), 24.09 in/yr (612 mm/yr).

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

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

Date	Time	Discharge (ft ³ /s) (m ³ /s)	Gage height (ft) (m)	Date	Time	Discharge (ft ³ /s) (m ³ /s)	Gage height (ft) (m)
Apr. 29	0700	*66300 1878	16.47 5.020	May 9	0100	42200 1195	13.43 4.093

Minimum discharge 278 ft³/s (7.87 m³/s) Aug. 23, 24, gage height, 3.68 ft (1.122 m).

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	9370	11800	1690	970	550	495	3600	38800	2370	2370	569	1680
2	7310	9380	1600	920	540	490	4000	31100	2260	2430	548	1720
3	6200	7850	2030	880	540	490	4250	27500	2970	2150	490	4770
4	6400	6750	2400	860	550	485	4500	28800	3760	2070	456	9330
5	7460	5930	2390	860	585	485	4800	30900	3980	2220	439	8370
6	7390	5330	2440	865	610	480	4700	32700	3200	1950	427	6120
7	6440	5700	2510	865	635	475	4300	35000	2590	1570	427	4900
8	11200	6790	2580	870	660	470	3950	39700	1950	1250	376	4850
9	18800	6790	2550	840	675	470	3600	41500	1570	1020	359	4490
10	16000	6010	2660	790	685	465	3350	38100	1250	848	405	3510
11	11800	5140	2550	750	700	470	3100	34400	1050	724	558	2780
12	8890	4370	2380	725	710	480	3000	28600	940	622	633	2260
13	7090	3840	1960	710	705	505	2950	22400	848	548	579	1910
14	6000	3340	1740	700	695	530	3000	17700	785	507	558	1620
15	5260	3120	1700	690	680	575	3150	14600	785	484	538	1480
16	4680	3050	1990	675	665	610	3500	12500	861	445	501	1480
17	4270	2900	1980	665	650	630	4400	10900	2130	425	456	2130
18	3980	3080	1340	660	635	650	7000	9330	2500	400	445	3680
19	4810	4010	1260	645	610	670	9500	7890	2150	385	439	4190
20	9240	4930	1510	635	600	710	14500	7210	1680	375	385	3490
21	10300	4910	1340	625	580	780	18500	8260	1520	370	333	2780
22	8370	4780	1350	615	565	850	22500	8520	1520	350	317	2240
23	6990	4260	1400	610	555	980	25000	7170	1850	340	286	1870
24	9780	4010	1390	600	540	1150	25400	5950	3100	335	309	1640
25	16800	3230	1350	590	530	1350	26900	5090	6670	330	507	1500
26	14600	2720	1300	585	520	1600	36100	4610	6610	355	2030	1640
27	12200	2520	1230	580	510	1950	47400	4160	4980	385	6360	1680
28	15700	2480	1170	575	500	2200	60100	3590	3570	427	6550	1700
29	24000	2310	1120	565	---	2500	62700	3220	2660	478	4520	2450
30	21100	2060	1070	560	---	2900	49100	2870	2300	569	3020	3300
31	15800	---	1010	555	---	3200	---	2590	---	579	2190	---
TOTAL	318230	143390	54990	22035	16980	30095	468850	565660	74409	27311	36010	95560
MEAN	10270	4780	1774	711	606	971	15630	18250	2480	881	1162	3185
MAX	24000	11800	2660	970	710	3200	62700	41500	6670	2430	6550	9330
MIN	3980	2060	1010	555	500	465	2950	2590	785	330	286	1480
CFSM	3.83	1.78	.66	.27	.23	.36	5.83	6.81	.93	.33	.43	1.19
IN.	4.42	1.99	.76	.31	.24	.42	6.51	7.85	1.03	.38	.50	1.33

CAL YR 1981	TOTAL	2359403	MEAN	6464	MAX	76100	MIN	720	CFSM	2.41	IN	32.75
WTR YR 1982	TOTAL	1853520	MEAN	5078	MAX	62700	MIN	286	CFSM	1.90	IN	25.73

ST. JOHN RIVER BASIN

01011000 ALLAGASH RIVER NEAR ALLAGASH, ME

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

DRAINAGE AREA.--1,229 mi² (3,183 km²), revised, not including 249 mi² (645 km²) drained by Chamberlain Lake through Telos Canal.

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

Water-quality records.--Water years 1975 to 1981.

Specific conductance: April 1975 to September 1980.

Water temperatures: April 1975 to September 1980.

Suspended sediment discharge: October 1975 to September 1976.

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, which are fair. No gage-height record Jan. 10 to Feb. 10. 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. Several observations of water temperature and specific conductance were made during the year.

AVERAGE DISCHARGE.--51 years (water years 1932-82), 1,932 ft³/s (54.71 m³/s), 21.35 in/yr (542 mm/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 29,400 ft³/s, (933 m³/s) Apr. 29, 1973, gage height 12.53 ft (3.758 m); maximum gage height, 14.43 ft (4.398 m) Apr. 3, 1976 (backwater from ice); minimum discharge, 87 ft³/s (2.46 m³/s) Sept. 11, 1960.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 20,200 ft³/s (572 m³/s) Apr. 28, gage height 10.46 ft (3.188 m); maximum gage height, 10.85 ft (3.307 m) Apr. 21 (backwater from ice); minimum discharge not determined, occurred during period of backwater from ice; minimum daily discharge 360 ft³/s (10.2 m³/s) Mar. 14-18.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	4580	6190	1260	750	525	445	1100	13400	1430	998	531	940
2	4170	5630	1350	735	540	440	1200	11600	1460	920	470	1250
3	3960	5150	1380	720	550	430	1280	11300	2050	919	427	2440
4	4400	4720	1360	705	585	420	1380	11700	2010	928	397	2830
5	4300	4350	1330	700	610	410	1450	12000	1810	900	388	2380
6	3890	4090	1320	685	630	400	1540	12400	1590	828	392	2000
7	3610	4060	1650	670	640	395	1530	13100	1400	773	385	2020
8	4790	3910	2340	660	650	385	1500	14600	1290	723	381	2050
9	5950	3630	2040	650	660	380	1480	15000	1150	681	389	1830
10	5640	3540	1840	645	665	375	1450	14000	1070	640	460	1630
11	5070	3390	1720	635	655	370	1420	13100	1050	595	622	1480
12	4550	3180	1580	625	635	365	1410	11600	986	573	591	1380
13	4080	2960	1340	615	620	365	1400	10000	935	559	520	1310
14	3640	2720	1400	605	600	360	1410	8740	930	522	539	1210
15	3320	2350	1400	600	580	360	1410	7610	928	484	786	1180
16	3070	2020	1400	590	560	360	1430	6580	975	460	740	1270
17	2750	1840	1340	580	550	360	1750	5800	1280	436	598	1830
18	2420	1890	1150	575	530	360	2500	4950	1180	439	528	1830
19	3280	2210	1050	570	515	365	3500	4190	1040	444	498	1690
20	4410	2190	930	560	505	370	4900	3830	1010	437	482	1510
21	4030	2210	790	555	510	380	6000	3850	1040	411	458	1350
22	3600	2520	810	550	510	400	7900	3430	1020	397	414	1230
23	3390	2380	850	545	510	425	7400	3060	988	397	377	1140
24	5240	2100	870	540	505	465	8000	2780	1140	389	492	1080
25	6910	1880	885	540	500	510	8900	2520	1320	389	822	1020
26	6550	1740	890	530	480	575	11000	2290	1320	429	2400	958
27	6390	1580	870	525	470	650	15700	2070	1200	502	3090	927
28	7860	1630	840	520	455	720	19800	1900	1080	498	2150	1150
29	8930	1500	815	520	---	820	18200	1760	1070	555	1670	1360
30	8110	1320	790	515	---	945	15900	1620	1070	638	1320	1270
31	7010	---	770	515	---	1000	---	1510	---	604	1110	---
TOTAL	149900	88880	38360	18730	15745	14605	153840	232290	36822	18468	24427	45545
MEAN	4835	2963	1237	604	562	471	5128	7493	1227	596	788	1518
MAX	8930	6190	2340	750	665	1000	19800	15000	2050	998	3090	2830
MIN	2420	1320	770	515	455	360	1100	1510	928	389	377	927
CFSM	3.93	2.41	1.01	.49	.46	.38	4.17	6.10	1.00	.49	.64	1.24
IN.	4.54	2.69	1.16	.57	.48	.44	4.66	7.03	1.11	.56	.74	1.38
CAL YR 1981 TOTAL	994401			2724	MAX 10900	MIN 450	CFSM 2.22	IN 30.10				
WTR YR 1982 TOTAL	837612			2295	MAX 19800	MIN 360	CFSM 1.87	IN 25.35				

01011500 ST. FRANCIS RIVER AT OUTLET OF GLACIER 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 Glacier Lake, 4.0 mi (6.4 km) upstream from mouth, and 6.5 mi (10.5 km) west of Connors.

DRAINAGE AREA.--524 mi² (1,357 km²), revised.

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.--31 years, 891 ft³/s (25.23 m³/s), 23.09 in/yr (586 mm/yr).

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

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 7,920 ft³/s (224 m³/s) Apr. 30, gage height, 11.07 ft (3.374 m); minimum, 138 ft³/s (3.91 m³/s) Aug. 24, gage height, 2.37 ft (0.722 m).

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	349	2040	702	411	249	178	297	7230	831	742	214	177
2	400	1860	622	415	256	175	333	6250	790	765	212	194
3	473	1710	645	404	247	181	382	5490	782	795	199	206
4	534	1530	639	389	248	175	449	5030	756	810	195	220
5	580	1410	633	397	242	172	510	4850	758	780	197	230
6	616	1320	633	400	243	174	539	5030	743	756	194	261
7	681	1290	655	401	240	168	587	5380	720	706	186	297
8	788	1270	675	412	233	176	600	5930	701	657	181	300
9	1060	1270	692	417	229	176	591	6840	651	598	172	308
10	1420	1250	705	418	228	173	563	7470	588	551	185	305
11	1590	1200	710	408	223	170	564	7390	549	519	172	300
12	1590	1120	701	398	217	167	561	6820	510	478	173	290
13	1470	1030	672	385	211	166	559	5960	487	447	172	280
14	1350	970	636	372	207	170	570	5190	463	420	172	269
15	1240	911	606	360	208	173	565	4520	435	407	168	261
16	1140	858	592	357	205	172	568	3910	440	379	170	260
17	1050	822	588	345	205	172	591	3460	495	348	172	272
18	977	783	563	340	203	168	694	3090	546	322	168	274
19	951	792	545	334	198	173	991	2720	581	308	159	294
20	950	781	542	329	195	175	1520	2450	583	301	159	312
21	968	780	522	319	195	174	2030	2260	572	298	157	331
22	980	818	503	313	201	183	2440	2060	572	287	149	331
23	973	844	493	301	200	190	2680	1910	564	273	139	325
24	1060	869	487	293	200	191	2790	1730	620	249	139	320
25	1250	875	479	284	193	183	2880	1560	693	233	150	317
26	1460	857	474	272	188	191	3290	1420	799	230	200	308
27	1620	834	461	267	184	200	4390	1290	841	213	208	298
28	1830	817	451	264	179	218	6040	1180	820	211	206	305
29	2120	766	434	256	---	224	7500	1080	761	229	195	303
30	2270	730	437	247	---	238	7820	976	743	227	186	295
31	2220	---	431	248	---	251	---	900	---	221	184	---
TOTAL	35960	32407	17928	10756	6027	5707	53894	121376	19394	13760	5533	8443
MEAN	1160	1080	578	347	215	184	1796	3915	646	444	178	281
MAX	2270	2040	710	418	256	261	7820	7470	841	810	214	331
MIN	349	730	431	247	179	166	297	900	435	211	139	177
CFSM	2.21	2.06	1.10	.66	.41	.35	3.43	7.47	1.23	.85	.34	.54
IN.	2.55	2.30	1.27	.76	.43	.41	3.83	8.62	1.38	.98	.39	.60
CAL YR 1981 TOTAL	429435		MEAN	1177	MAX	5050	MIN	173	CFSM	2.25	IN	30.49
WTR YR 1982 TOTAL	331185		MEAN	907	MAX	7820	MIN	139	CFSM	1.73	IN	23.51

01012515 CLAYTON STREAM AT OUTLET CLAYTON LAKE, ME

LOCATION.--Lat 46°43'50", long 68°46'18", Aroostook County, Hydrologic Unit 01010003, on right bank 0.3 mi (0.5 km) west from logging route 42, 1.0 mi (1.6 km) west of its intersection with the Carr Pond Road, and 18 mi (29 km) west of Portage.

DRAINAGE AREA.--13.9 mi² (36.0 km²).

PERIOD OF RECORD.--July 16 to Sept. 30, 1982.

GAGE.--Water-stage recorder. Altitude of gage is 840 ft (256 m), from topographic map.

REMARKS.--Records fair.

EXTREMES FOR CURRENT YEAR.--Peak discharges above base of 35 ft³/s (0.99 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)
Aug 27	1515	37 1.05	11.14 3.395	Sept. 4	0500	* 58 1.64	11.35 3.459

Minimum discharge, 0.10 ft³/s (0.003 m³/s) Aug. 9, gage height, 9.87 ft (3.008 m).

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1										---	.35	14
2										---	.28	25
3										---	.20	49
4										---	.14	56
5										---	.14	49
6										---	.12	41
7										---	.11	41
8										---	.11	36
9										---	.11	31
10										---	.72	26
11										---	.72	22
12										---	.65	19
13										---	.75	16
14										---	1.1	14
15										28	1.3	13
16										.42	1.2	16
17										.42	1.1	24
18										.37	.94	25
19										.33	.79	23
20										.27	.75	21
21										.17	.66	18
22										.17	.54	16
23										.22	.48	14
24										.17	.86	13
25										.15	1.5	11
26										.19	30	11
27										.15	35	11
28										.14	32	18
29										.50	26	19
30										.54	21	19
31										.44	17	---
TOTAL										---	176.62	711
MEAN										---	5.70	23.7
MAX										---	35	56
MIN										---	.11	11
CFSM										---	.41	1.71
IN.										---	.47	1.90

01012520 BALD MOUNTAIN BROOK NEAR BALD MOUNTAIN, ME

LOCATION.--Lat 46°44'23", long 68°45'21", Aroostook County, Hydrologic Unit 01010003, on left bank 30 ft (9 m) downstream from logging route 42, 0.3 mi (0.5 km) west of its intersection with the Carr Pond Road and 18 mi (29 km) west of Portage.

DRAINAGE AREA.--1.69 mi² (4.38 km²).

PERIOD OF RECORD.--October 1980 to current year.

GAGE.--Water-stage recorder. Altitude of gage is 820 ft (250 m), from topographic map.

REMARKS.--Records good except those for winter period, which are fair. No gage-height record Dec. 15 to Mar. 16.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 84 ft³/s (2.38 m³/s) Aug. 17, 1981, gage height, 6.27 ft (1.911 m); maximum gage height, 6.30 ft (1.920 m) Feb. 20, 1981 (backwater from ice); minimum discharge, 0.05 ft³/s (0.001 m³/s) July 17, 1982, gage height, 4.35 ft (1.326 m).

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

Date	Time	Discharge (ft ³ /s) (m ³ /s)	Gage height (ft) (m)	Date	Time	Discharge (ft ³ /s) (m ³ /s)	Gage height (ft) (m)
Apr. 2	1610	ice jam	* 6.16 1.878	Apr. 27	1240	* 51 1.44	5.82 1.774
Apr. 18	----	32 0.91	-----				

Minimum discharge, 0.05 ft³/s (0.001 m³/s) July 17, gage height, 4.35 ft (1.326 m).

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	2.6	6.2	1.5	1.4	.48	.41	5.0	12	.59	.16	.08	.40
2	2.2	5.8	1.4	1.4	.48	.40	7.4	11	1.2	.12	.07	1.9
3	3.5	5.4	1.5	1.8	.50	.40	12	12	2.8	.14	.06	7.1
4	5.1	4.8	1.8	2.5	1.1	.40	7.8	13	1.6	.14	.06	4.4
5	3.5	4.2	1.8	3.2	2.7	.40	5.5	12	.96	.11	.07	1.6
6	2.5	3.9	2.4	4.2	2.3	.40	4.5	13	.69	.08	.08	1.1
7	4.3	4.3	7.4	3.6	1.9	.40	3.8	14	.51	.08	.07	2.5
8	15	4.3	7.7	3.0	1.6	.40	3.5	14	.27	.07	.08	1.4
9	11	3.8	5.8	2.6	1.4	.40	3.3	12	.24	.06	.08	.93
10	7.2	3.1	5.1	2.2	1.2	.41	3.2	9.4	.22	.06	.51	.74
11	5.8	2.7	4.5	1.9	1.1	.41	3.3	7.9	.20	.06	.24	.58
12	5.2	2.5	4.0	1.7	.96	.42	3.8	6.1	.16	.06	.12	.48
13	4.5	2.3	3.6	1.5	.87	.58	4.2	5.6	.16	.06	.14	.39
14	4.0	2.2	3.2	1.3	.80	.92	4.7	4.6	.22	.06	.24	.33
15	3.5	2.1	2.9	1.1	.74	.80	4.5	4.0	.22	.06	.22	.42
16	3.3	2.1	2.6	1.0	.69	.72	4.4	3.3	.77	.06	.11	1.6
17	3.1	2.1	2.5	.96	.65	.67	7.0	2.8	.69	.07	.08	4.0
18	2.8	3.0	2.3	.88	.62	.63	27	2.3	.27	.07	.07	1.8
19	8.5	3.7	2.2	.84	.58	.61	15	2.0	.18	.06	.06	1.2
20	7.2	2.8	2.1	.77	.55	.60	10	2.1	.20	.06	.06	.86
21	4.9	4.8	2.0	.74	.53	.79	15	2.1	.18	.06	.06	.69
22	3.9	7.5	1.9	.70	.50	.64	19	1.7	.24	.11	.06	.59
23	5.2	5.0	1.8	.66	.48	.52	13	1.4	.27	.14	.06	.51
24	20	3.3	1.8	.63	.46	.45	18	1.2	1.2	.08	.34	.55
25	14	2.6	1.7	.60	.45	.70	30	1.2	.51	.08	.46	.46
26	9.8	2.3	1.6	.57	.44	1.3	37	.96	.27	.16	13	.41
27	9.8	2.1	1.6	.54	.43	2.2	43	.96	.16	.10	5.4	.69
28	15	1.9	1.5	.52	.42	4.0	35	.86	.12	.08	1.2	3.3
29	13	1.7	1.5	.51	---	6.8	25	.86	.14	.34	.78	1.7
30	9.2	1.5	1.5	.50	---	5.4	17	.77	.22	.20	.56	.92
31	7.2	---	1.5	.49	---	4.4	---	.69	---	.10	.47	---
TOTAL	216.8	104.0	84.7	44.31	24.93	37.59	391.9	175.80	15.46	3.09	24.89	43.55
MEAN	6.99	3.47	2.73	1.43	.89	1.21	13.1	5.67	.52	.10	.80	1.45
MAX	20	7.5	7.7	4.2	2.7	6.8	43	14	2.8	.34	13	7.1
MIN	2.2	1.5	1.4	.49	.42	.40	3.2	.69	.12	.06	.06	.33
CFSM	4.14	2.05	1.62	.85	.53	.72	7.75	3.36	.31	.06	.47	.86
IN.	4.77	2.29	1.86	.97	.55	.83	8.62	3.87	.34	.07	.55	.96

CAL YR 1981	TOTAL	1417.84	MEAN	3.88	MAX	38	MIN	.15	CFSM	2.30	IN	31.19
WTR YR 1982	TOTAL	1167.02	MEAN	3.20	MAX	43	MIN	.06	CFSM	1.89	IN	25.67

01012525 BISHOP MOUNTAIN BROOK NEAR BISHOP MOUNTAIN, ME

LOCATION.--Lat 46°44'43", long 68°45'11", Aroostook County, Hydrologic Unit 01010003, on left bank 0.3 mi (0.5 km) north from logging route 42, 0.3 mi (0.5 km) west from its intersection with the Carr Pond Road and 18 mi (29 km) west of Portage.

DRAINAGE AREA.--1.04 mi² (2.69 km²).

PERIOD OF RECORD.--Nov. 5, 1981 to Sept. 30, 1982.

GAGE.--Water-stage recorder. Altitude of gage is 820 ft (250 m), from topographic map.

REMARKS.--Records fair.

EXTREMES FOR CURRENT YEAR.--Peak discharges above base of 25 ft³/s (0.71m³/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	1205	ice jam	* 7.60 2.316	Apr. 27	0815	* 61 1.73	6.57 2.003
Apr. 18	----	26 0.74	-- --				

Minimum discharge, 0.05 ft³/s (0.001 m³/s) July 10-12, 15, gage height 5.23 ft (1.594 m).

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1		---	.09	.68	.28	.23	3.2	7.2	.38	.28	.15	.83
2		---	.11	.67	.27	.22	5.0	5.0	.50	.23	.13	7.7
3		---	1.2	1.1	.27	.22	7.0	3.5	2.0	.21	.12	10
4		---	1.3	1.8	1.0	.22	4.0	4.5	1.2	.23	.10	6.4
5		2.1	1.3	2.6	2.5	.22	3.2	3.7	.70	.18	.13	3.2
6		2.0	2.1	3.5	1.8	.22	2.7	5.0	.45	.15	.13	2.5
7		2.5	7.7	2.3	1.4	.22	2.3	6.0	.30	.13	.15	4.0
8		2.6	6.3	1.8	1.1	.22	2.1	7.4	.20	.10	.15	2.5
9		2.2	3.5	1.6	.86	.21	2.0	6.3	.15	.07	.15	1.8
10		1.9	2.4	1.4	.74	.21	2.0	4.9	.13	.06	.91	1.4
11		1.5	2.1	1.2	.62	.21	2.2	4.0	.11	.05	.46	.99
12		1.4	1.7	1.0	.52	.21	2.4	3.6	.10	.05	.25	.83
13		1.2	1.5	.90	.45	.35	2.7	3.0	.10	.06	.28	.60
14		1.1	1.4	.80	.39	.84	2.9	2.5	.14	.06	.55	.50
15		1.1	1.3	.73	.34	.72	2.8	2.2	.13	.05	.55	.60
16		1.1	1.2	.66	.31	.61	2.7	1.9	.60	.07	.34	2.2
17		1.3	1.1	.60	.28	.52	5.0	1.6	.50	.12	.18	3.2
18		2.8	1.1	.56	.26	.43	22	1.3	.25	.13	.17	2.0
19		3.7	1.0	.51	.25	.38	16	1.1	.11	.13	.12	1.6
20		2.4	.98	.47	.24	.37	12	1.2	.12	.09	.09	1.2
21		5.6	.95	.44	.24	.60	8.8	1.2	.11	.09	.06	.91
22		7.9	.92	.41	.24	.45	14	1.1	.15	.10	.06	.77
23		4.0	.92	.38	.24	.33	10	.90	.17	.23	.06	.71
24		2.5	.87	.36	.23	.26	11	.76	.80	.15	.50	.71
25		2.0	.84	.34	.23	.40	17	.74	.60	.13	1.5	.71
26		1.6	.80	.32	.23	.65	21	.60	.44	.23	14	.65
27		1.4	.77	.31	.23	1.5	33	.58	.33	.17	5.3	.91
28		1.3	.74	.30	.23	3.0	22	.54	.23	.13	3.8	1.9
29		1.2	.72	.29	---	5.0	16	.52	.25	.71	2.2	1.9
30		1.1	.70	.29	---	3.6	12	.46	.42	.38	1.5	2.2
31		---	.69	.28	---	2.4	---	.42	---	.21	1.1	---
TOTAL		---	50.18	28.60	15.75	25.02	269.0	83.72	11.67	4.98	35.19	65.42
MEAN		---	1.62	.92	.56	.81	8.97	2.70	.39	.16	1.14	2.18
MAX		---	7.7	3.5	2.5	5.0	33	7.4	2.0	.71	14	10
MIN		---	.69	.28	.23	.21	2.0	.42	.10	.05	.06	.50
CFSM		---	1.56	.89	.54	.78	8.63	2.60	.38	.15	1.10	2.10
IN.		---	1.79	1.02	.56	.89	9.61	2.99	.42	.18	1.26	2.34

01012570 FISH RIVER AT INLET FISH RIVER LAKE, ME

LOCATION.--Lat 46°47'22", long 68°46'25", Aroostook County, Hydrologic Unit 01010003, on right bank 30 ft (9 m) upstream from Fox Brook Tote Road and 20 mi (32 km) west of Portage.

DRAINAGE AREA.--70.3 mi² (182.1 km²).

PERIOD OF RECORD.--July 16 to Sept. 30, 1982.

GAGE.--Water-stage recorder. Altitude of gage is 720 ft (219 m), from topographic map.

REMARKS.-- Records fair.

EXTREMES FOR CURRENT YEAR.--Peak discharges above base of 300 ft³/s (8.50 m³/s) and maximum (*):

Date	Time	Discharge (ft ³ /s) (m ³ /s)		Gage height (ft) (m)		Date	Time	Discharge (ft ³ /s) (m ³ /s)		Gage height (ft) (m)	
Aug. 26	1100	* 437	12.4	5.02	1.530	Sept. 3	1830	346	9.80	4.52	1.378

Minimum discharge, 2.5 ft³/s (0.071 m³/s) July 25, gage height, 1.26 ft (0.384 m).

DISCHARGE, IN CURIC FEET PER SECOND, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1										---	5.0	42
2										---	4.5	127
3										---	4.2	274
4										---	3.6	271
5										---	3.8	189
6										---	3.5	148
7										---	3.1	177
8										---	3.3	147
9										---	3.0	120
10										---	7.2	103
11										---	12	91
12										---	8.4	81
13										---	7.7	70
14										---	9.4	60
15										4.7	12	57
16										4.5	10	62
17										4.2	9.3	102
18										4.0	8.7	87
19										3.8	7.4	76
20										3.8	7.6	66
21										3.5	6.5	58
22										3.3	5.2	53
23										3.1	4.5	49
24										2.8	7.7	46
25										2.7	14	43
26										3.5	294	40
27										3.6	160	40
28										3.3	107	90
29										7.1	76	75
30										9.8	59	62
31										5.9	48	---
TOTAL										---	915.6	2906
MEAN										---	29.5	96.9
MAX										---	294	274
MIN										---	3.0	40
CFSM										---	.42	1.38
IN.										---	.48	1.54

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.--873 mi² (2,261 km²), revised.

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. No gage-height record Dec. 31 to Feb. 23. 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.--58 years (water years 1904-08, 1930-82), 1,405 ft³/s (39.79 m³/s), 21.86 in/yr (555 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, 9,700 ft³/s (275 m³/s) Apr. 29, gage height, 8.87 ft (2.704 m); minimum discharge, 220 ft³/s (6.23 m³/s) Aug. 23, gage height, 2.44 ft (0.744 m).

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	802	4510	1750	1130	490	360	670	9100	1580	726	321	682
2	795	4320	1680	1100	500	350	750	8830	1530	704	302	787
3	857	4070	1580	1050	515	340	830	8600	1500	660	289	943
4	934	3840	1590	1000	525	335	900	8560	1430	625	280	1030
5	926	3650	1540	960	530	325	970	8500	1370	598	275	1060
6	926	3460	1530	930	535	320	1020	8520	1290	572	275	1080
7	998	3310	1830	890	540	310	1060	8560	1220	552	271	1120
8	1350	3150	1990	870	540	305	1100	8720	1150	526	267	1130
9	1480	3000	2060	860	535	300	1080	8740	1080	501	262	1120
10	1590	2810	2120	850	530	295	1050	8500	1020	467	289	1090
11	1670	2640	2120	840	525	290	1030	8100	975	450	289	1060
12	1690	2470	2110	810	510	285	1000	7620	920	439	280	1020
13	1700	2320	2050	790	500	285	970	7090	881	418	271	991
14	1690	2180	1980	750	490	290	960	6610	834	386	275	959
15	1670	2030	1920	730	480	295	960	6140	779	370	275	904
16	1630	1920	1890	710	470	310	990	5700	834	365	271	920
17	1570	1810	1870	685	465	300	1080	5230	865	350	271	983
18	1530	1820	1780	670	460	295	1250	4820	826	340	262	959
19	1780	1870	1730	650	455	290	1600	4430	787	326	254	935
20	1830	1830	1690	630	450	290	2300	4120	772	312	254	904
21	1830	1980	1640	620	440	285	3060	3870	749	293	237	873
22	1830	2180	1530	600	435	290	3550	3600	749	289	228	834
23	1910	2180	1470	580	425	300	3820	3320	757	293	224	803
24	2660	2160	1450	570	415	305	4110	3060	927	284	254	779
25	3060	2140	1400	550	405	315	4590	2820	873	284	275	749
26	3340	2070	1350	530	390	340	5810	2580	842	321	660	726
27	3680	2020	1300	520	375	365	7590	2380	795	298	653	712
28	4390	1980	1250	505	365	400	9210	2190	779	307	660	764
29	4650	1880	1220	490	---	445	9590	2020	787	350	682	741
30	4710	1790	1190	485	---	500	9350	1860	764	350	697	734
31	4640	---	1170	480	---	600	---	1700	---	335	704	---
TOTAL	64118	77390	51780	22835	13295	10315	82250	175890	29665	13091	10807	27392
MFAN	2068	2580	1670	737	475	333	2742	5674	989	422	349	913
MAX	4710	4510	2120	1130	540	600	9590	9100	1580	726	704	1130
MIN	795	1790	1170	480	365	285	670	1700	749	284	224	682
CFSM	2.37	2.96	1.91	.84	.54	.38	3.14	6.50	1.13	.48	.40	1.05
IN.	2.73	3.30	2.21	.97	.57	.44	3.50	7.49	1.26	.56	.46	1.17

CAL YR 1981 TOTAL 710789 MEAN 1947 MAX 6120 MIN 340 CFSM 2.23 IN 30.29
WTR YR 1982 TOTAL 578828 MEAN 1586 MAX 9590 MIN 224 CFSM 1.82 IN 24.66

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.--5,665 mi² (14,672 km²), revised, not including 249 mi² (645 km²) drained by Chamberlain Lake through Telos Canal.

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

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

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

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

AVERAGE DISCHARGE.--56 years, 9,696 ft³/s (275 m³/s), 23.24 in/yr (590 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 maximum (*):

Date	Time	Discharge (ft ³ /s) (m ³ /s)	Gage height (ft) (m)	Date	Time	Discharge (ft ³ /s) (m ³ /s)	Gage height (ft) (m)
Apr. 29	0100	*103,000 2920	22.40 6.828	May 9	1100	76,100 2160	19.15 5.837

Minimum discharge, 1170 ft³/s (33.1 m³/s) Aug. 23, 24, gage height, 1.38 ft (0.421 m).

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	15700	26100	5800	4780	2450	1750	6300	76200	6490	5570	2080	4160
2	13400	22500	5600	4740	2420	1720	7000	62600	6300	5550	1900	4110
3	12100	19900	6170	4600	2400	1700	7600	55400	7040	5310	1740	6290
4	12200	17900	6780	4500	2380	1660	8200	55700	7800	5020	1570	12400
5	13100	16200	6870	4600	2350	1640	8500	58000	8170	5120	1500	12900
6	13200	14900	6640	4750	2300	1620	8600	60000	7300	4880	1480	10700
7	12300	14600	7400	4900	2290	1610	8500	63500	6320	4340	1440	8880
8	15300	15400	8480	5000	2290	1600	8200	70200	5590	3870	1400	8500
9	25000	15400	8370	5000	2300	1600	7900	75600	5040	3430	1370	8330
10	25100	14400	8080	4900	2300	1590	7600	72500	4580	3080	1630	7260
11	21000	13200	7940	4650	2280	1580	7300	67200	4210	2800	1820	6240
12	17700	12100	7530	4450	2260	1570	7100	58900	3910	2590	2030	5520
13	15400	10900	6320	4300	2210	1580	6900	48800	3650	2420	1930	4990
14	13500	10100	5710	4100	2190	1600	6800	40500	3490	2260	1890	4550
15	12100	9280	6030	3900	2150	1660	6800	34300	3410	2120	1920	4210
16	11200	8770	6290	3750	2100	1750	6900	29600	3600	2050	2090	4240
17	10300	8220	6010	3600	2070	1850	7800	26000	4510	1960	1900	5030
18	9530	8270	5550	3500	2030	1900	11000	22900	5650	1890	1720	6230
19	10300	9130	4940	3400	2000	1930	17500	19900	5430	1820	1610	7510
20	14700	10000	5010	3300	1990	1990	23000	18000	4840	1760	1570	6890
21	17300	10700	4830	3200	1980	2070	27500	18000	4490	1690	1440	6010
22	15600	11100	4490	3050	1970	2160	32000	17900	4440	1660	1330	5280
23	13900	10700	5330	2950	1990	2200	35500	16100	4550	1700	1220	4710
24	16900	9840	5550	2900	1920	2300	40000	14100	6020	1590	1300	4320
25	26100	9000	5540	2800	1900	2600	43000	12500	8860	1510	1740	4030
26	26600	8260	5270	2750	1870	2850	54000	11300	10900	1680	4060	3860
27	24400	7650	5000	2650	1830	3250	75800	10200	9340	1650	9210	4060
28	28000	7460	5030	2600	1790	3750	96500	9280	7550	1710	10700	4240
29	38100	7260	4820	2550	---	4350	100000	8470	6330	1930	8330	4640
30	37900	6770	4970	2500	---	4900	89800	7700	5770	2110	6250	5750
31	31500	---	4810	2480	---	5500	---	7040	---	2150	5000	---
TOTAL	569430	366010	187160	117150	60010	69830	773600	1148390	175580	87220	85170	185840
MFAN	18370	12200	6037	3779	2143	2253	25790	37040	5853	2814	2747	6195
MAX	38100	26100	8480	5000	2450	5500	100000	76200	10900	5570	10700	12900
MIN	9530	6770	4490	2480	1790	1570	6300	7040	3410	1510	1220	3860
CFSM	3.24	2.15	1.07	.67	.38	.40	4.55	6.54	1.03	.50	.49	1.09
IN.	3.74	2.40	1.23	.77	.39	.46	5.08	7.54	1.15	.57	.56	1.22

CAL YR 1981 TOTAL 4710210 MEAN 12900 MAX 80200 MIN 1900 CFSM 2.28 IN 30.93
WTR YR 1982 TOTAL 3825390 MEAN 10480 MAX 100000 MIN 1220 CFSM 1.85 IN 25.12

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.--8,174 mi² (21,171 km²) revised.

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

PERIOD OF DAILY RECORD.--

SPECIFIC CONDUCTANCE: November 1978 to September 1981.

WATER TEMPERATURES: November 1978 to September 1981.

INSTRUMENTATION.--Water-quality monitor November 1978 to September 1981.

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

EXTREMES FOR PERIOD OF DAILY RECORD.--

SPECIFIC CONDUCTANCE: Maximum recorded, 141 micromhos May 29, 1981; minimum, 39 micromhos Mar. 10, 1979.

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

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982

DATE	TIME	ESTI- MATED, DIS- CHARGE (CFS)	SPE- CIFIC CON- DUCT- ANCE (UMHOS)	SPE- CIFIC CON- DUCT- ANCE LAB (UMHOS)	PH (UNITS)	TEMPER- ATURE, AIR (DEG C)	TEMPER- ATURE (DEG C)	TUR- BID- ITY (FTU)	OXYGEN, DIS- SOLVED (MG/L)	COLI- FORM, FECAL, 0.7 KF AGAR (COLS./ 100 ML)	STREP- TOCOCCI FECAL, KF AGAR (COLS. PER 100 ML)
OCT 23...	1200	20200	65	65	6.8	12.5	6.0	1.2	12.2	K340	--
DEC 17...	1130	8730	94	88	7.0	-2.0	.5	1.6	14.0	360	91
MAR 02...	0845	2500	122	120	7.0	-5.0	.0	1.6	9.6	640	72
APR 27...	0900	110000	51	42	6.8	11.0	.5	30	14.4	160	880
JUN 30...	1200	8390	77	75	7.2	21.5	17.5	1.0	9.2	240	190
AUG 16...	1430	3040	120	122	7.1	31.0	20.0	2.1	8.4	52	120

DATE	HARD- NESS (MG/L AS CACO3)	HARD- NESS NONCAR- BONATE (MG/L AS CACO3)	CALCIUM DIS- SOLVED (MG/L AS CA)	MAGNE- SIUM, DIS- SOLVED (MG/L AS MG)	SODIUM, DIS- SOLVED (MG/L AS NA)	POTAS- SIUM, DIS- SOLVED (MG/L AS K)	ALKA- LITY LAB (MG/L AS CACO3)	SULFATE DIS- SOLVED (MG/L AS SO4)	CHLO- RIDE, DIS- SOLVED (MG/L AS CL)	FLUO- RIDE, DIS- SOLVED (MG/L AS F)	SILICA, DIS- SOLVED (MG/L AS SiO2)
OCT 23...	30	11	9.5	1.5	1.8	.5	19	8.1	2.5	<.1	4.4
DEC 17...	41	9.0	13	2.0	2.5	.3	32	7.0	2.9	<.1	4.5
MAR 02...	52	18	16	2.9	5.0	.6	34	14	6.8	<.1	5.0
APR 27...	23	6.0	7.4	1.1	1.3	.5	17	5.0	1.6	<.1	3.7
JUN 30...	34	4.0	11	1.6	1.9	<.1	30	6.0	2.1	<.1	3.1
AUG 16...	51	12	16	2.7	3.7	.4	39	11	5.0	<.1	3.1

DATE	SOLIDS, RESIDUE AT 180 DEG. C DIS- SOLVED (MG/L)	SOLIDS, SUM OF CONSTITUENTS, DIS- SOLVED (MG/L)	SOLIDS, DIS- SOLVED (TONS PER AC-FT)	SOLIDS, DIS- SOLVED (TONS PER DAY)	NITRO- GEN, NO2+NO3 DIS- SOLVED (MG/L AS N)	NITRO- GEN, AMMONIA DIS- SOLVED (MG/L AS N)	NITRO- GEN, AMMONIA DIS- SOLVED (MG/L AS NH4)	NITRO- GEN,AM- MONIA + ORGANIC TOTAL (MG/L AS N)	PHOS- PHORUS, TOTAL (MG/L AS P)	PHOS- PHORUS TOTAL (MG/L AS P04)	PHOS- PHORUS, DIS- SOLVED (MG/L AS P)
OCT 23...	64	40	.09	3490	.23	.070	.09	.45	.010	.03	<.010
DEC 17...	69	51	.09	1630	.25	<.010	.01	.21	.010	.03	.020
MAR 02...	79	71	.11	533	.33	.080	.10	.52	.020	.06	<.010
APR 27...	40	31	.05	11900	.32	.060	.08	.64	.100	.31	.040
JUN 30...	--	44	.06	997	.14	.040	.05	.50	.020	.06	<.010
AUG 16...	83	65	.11	681	.14	.030	.04	.30	.030	.09	<.010

K RESULTS BASED ON COLONY COUNT OUTSIDE THE ACCEPTABLE RANGE (NON-IDEAL COLONY COUNT).

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

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982

DATE	PHOS- PHORUS, ORTHO, DIS- SOLVED (MG/L AS P)	ARSENIC TOTAL (UG/L AS AS)	ARSENIC DIS- SOLVED (UG/L AS AS)	BARIUM, TOTAL RECOV- ERABLE (UG/L AS BA)	BARIUM, DIS- SOLVED (UG/L AS RA)	CADMIUM TOTAL RECOV- ERABLE (UG/L AS CD)	CADMIUM DIS- SOLVED (UG/L AS CD)	CHRO- MIUM, TOTAL RECOV- ERABLE (UG/L AS CR)	CHRO- MIUM, DIS- SOLVED (UG/L AS CR)	COBALT, TOTAL RECOV- ERABLE (UG/L AS CO)	COBALT, DIS- SOLVED (UG/L AS CO)
OCT 23...	<.010	1	1	100	10	<1	1	10	<10	7	<1
DEC 17...	<.010	--	--	--	--	--	--	--	--	--	--
MAR 02...	.020	<1	2	<100	17	1	<1	10	<10	<1	<1
APR 27...	<.010	2	1	<100	12	1	1	20	10	2	<1
JUN 30...	.020	--	--	--	--	--	--	--	--	--	--
AUG 16...	<.010	1	1	<100	9	2	<1	10	10	<1	1

DATE	COPPER, TOTAL 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, DIS- SOLVED (UG/L AS PB)	MANGA- NESE, TOTAL RECOV- ERABLE (UG/L AS MN)	MANGA- NESE, DIS- SOLVED (UG/L AS MN)	MERCURY TOTAL RECOV- ERABLE (UG/L AS HG)	MERCURY DIS- SOLVED (UG/L AS HG)	NICKEL, TOTAL RECOV- ERABLE (UG/L AS NI)
OCT 23...	9	3	310	110	11	4	20	10	.1	<.1	6
DEC 17...	--	--	--	--	--	--	--	--	--	--	--
MAR 02...	7	3	320	140	8	1	50	44	.1	<.1	<1
APR 27...	30	5	3500	80	21	4	120	20	.1	.1	7
JUN 30...	--	--	--	--	--	--	--	--	--	--	--
AUG 16...	8	4	210	76	3	1	40	20	2.4	.4	2

DATE	NICKEL, DIS- SOLVED (UG/L AS NI)	SELE- NIUM, TOTAL (UG/L AS SE)	SELE- NIUM, DIS- SOLVED (UG/L AS SE)	SILVER, TOTAL RECOV- ERABLE (UG/L AS AG)	SILVER, DIS- SOLVED (UG/L AS AG)	ZINC, TOTAL RECOV- ERABLE (UG/L AS ZN)	ZINC, DIS- SOLVED (UG/L AS ZN)	SEDI- MENT, SUS- PENDE (MG/L)	SEDI- MENT, DIS- CHARGE, SUS- PENDE (T/DAY)	SED. SUSP. SIEVE DIAM. % FINER THAN .062 MM
OCT 23...	3	<1	<1	<1	<1	50	9	3	164	100
DEC 17...	--	--	--	--	--	--	--	3	71	100
MAR 02...	<1	<1	<1	<1	<1	30	10	5	34	100
APR 27...	4	<1	<1	4	<1	50	17	169	50200	50
JUN 30...	--	--	--	--	--	--	--	7	159	64
AUG 16...	1	<1	<1	<1	<1	60	4	4	33	100

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.--329 mi² (852 km²), revised.

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

REVISED RECORDS.--WSP 1501: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 533.43 ft (162.589 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.--31 years, 571 ft³/s (16.17 m³/s), 23.57 in/yr (599 mm/yr).

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

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

Date	Time	Discharge (ft ³ /s) (m ³ /s)	Gage height (ft) (m)	Date	Time	Discharge (ft ³ /s) (m ³ /s)	Gage height (ft) (m)
Apr. 19	1300	ice jam	* 8.63 2.630	May 09	0700	3580 101	4.68 1.426
Apr. 28	1600	* 7950 225	7.30 2.225				

Minimum discharge, 27 ft³/s (0.76 m³/s) July 22, Aug. 5, gage height, 0.45 ft (0.137 m).

DISCHARGE, IN CURIC FEET PER SECOND, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	819	1910	390	130	64	69	360	4060	220	128	40	229
2	670	1520	408	125	65	67	400	3080	246	118	34	310
3	640	1260	451	120	67	66	460	2730	415	103	32	590
4	800	1060	448	115	70	65	500	2790	366	98	29	806
5	1000	913	441	110	77	64	540	2970	296	88	30	821
6	930	808	450	110	82	63	560	3130	253	82	31	661
7	850	780	773	105	91	62	570	3250	217	77	31	587
8	1800	787	1150	100	98	61	550	3440	190	72	31	554
9	2500	735	1130	97	100	60	500	3540	169	67	32	486
10	2000	648	1000	94	105	60	450	3350	153	61	43	417
11	1600	572	879	92	105	60	425	2890	138	55	51	352
12	1350	526	755	89	100	60	410	2390	125	49	48	306
13	1050	474	536	86	100	61	400	1950	117	45	45	269
14	900	435	490	84	100	63	395	1600	119	42	48	241
15	750	420	440	82	98	65	400	1330	121	41	50	225
16	675	399	390	80	96	67	475	1130	139	38	49	233
17	617	396	350	78	94	70	700	975	178	36	45	334
18	568	450	325	76	92	73	900	839	165	35	43	375
19	906	582	290	74	90	76	1300	709	147	33	38	356
20	1290	577	260	73	87	80	1800	628	137	32	40	320
21	1280	654	240	72	85	87	2400	609	128	29	34	277
22	1140	941	220	71	82	93	2800	565	122	35	32	248
23	1110	910	210	69	80	105	3100	505	120	39	30	227
24	2340	733	200	68	78	120	3200	449	154	35	31	213
25	3070	670	190	67	76	135	3350	412	189	32	37	198
26	2810	616	180	67	74	150	4070	375	192	33	317	181
27	2500	544	170	66	73	180	5960	340	182	32	544	177
28	2670	512	160	66	71	220	7830	307	162	30	553	249
29	3060	472	150	65	---	250	7180	281	146	45	460	301
30	2890	348	145	64	---	280	5560	257	140	52	347	298
31	2410	---	140	64	---	325	---	238	---	47	272	---
TOTAL	46995	21652	13361	2659	2400	3257	57545	51119	5446	1709	3447	10841
MEAN	1516	722	431	85.8	85.7	105	1918	1649	182	55.1	111	361
MAX	3070	1910	1150	130	105	325	7830	4060	415	128	553	821
MIN	568	348	140	64	64	60	360	238	117	29	29	177
CFSM	4.61	2.20	1.31	.26	.26	.32	5.83	5.01	.55	.17	.34	1.10
IN.	5.31	2.45	1.51	.30	.27	.37	6.51	5.78	.62	.19	.39	1.23

CAL YR 1981	TOTAL	271905	MEAN 745	MAX 4260	MIN 68	CFSM 2.26	IN 30.74
WTR YR 1982	TOTAL	220431	MEAN 604	MAX 7830	MIN 29	CFSM 1.84	IN 24.92

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.--1,654 mi² (4,284 km²), revised.

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

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

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

REMARKS.--Records fair. Doubtful or no gage-height record Oct. 11 to Nov. 12, and June 6 to Aug. 25. 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.--52 years, 2,655 ft³/s (75.19 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, 31,500 ft³/s (892 m³/s) Apr. 28, gage height 11.90 (3.627 m); maximum gage height, 15.67 ft (4.776 m) Apr. 22 (backwater from ice); minimum daily discharge, 190 ft³/s (5.38 m³/s) July 21.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	5170	8000	2190	1020	490	465	2100	21100	988	375	490	1020
2	4420	6600	2510	980	530	450	2350	16700	1010	350	410	1180
3	4720	6000	2870	940	570	440	2550	14100	1710	310	330	2270
4	5040	6150	3310	900	660	420	2850	13700	2420	375	285	3140
5	5240	5400	3230	870	750	410	2950	13500	2060	310	265	2950
6	4950	4800	3060	830	860	400	3000	13400	1500	295	300	2370
7	5090	4500	4900	800	950	390	2980	13300	1140	280	360	2130
8	7470	4450	7270	770	1030	380	2800	13400	905	265	380	2280
9	10900	4350	7330	750	1100	375	2700	13000	770	250	370	2070
10	10900	4100	6320	730	1130	370	2550	12300	645	240	375	1680
11	8100	3650	5580	700	1100	365	2450	11100	560	230	420	1410
12	6600	3250	4940	680	1000	360	2350	9570	485	220	470	1190
13	5450	3040	3710	660	950	360	2300	8060	465	215	450	1020
14	4450	2430	2870	640	900	365	2250	6960	420	205	400	910
15	3900	2290	2550	620	850	370	2250	6380	415	200	405	829
16	3700	2240	2350	610	810	380	2600	5880	480	195	410	832
17	3600	2430	2200	590	780	390	3100	5380	625	195	380	1270
18	3500	3110	2050	580	750	405	4250	4840	680	195	350	1720
19	3800	4270	1950	560	710	425	5500	4160	565	195	320	1660
20	5900	4520	1850	550	680	450	7400	3680	510	195	290	1450
21	6400	5270	1800	540	660	480	9500	3380	455	190	270	1220
22	6050	6550	1700	530	620	520	12000	3040	405	205	250	1010
23	5800	6730	1600	520	600	570	14500	2740	395	235	235	887
24	11500	5850	1500	515	570	640	16000	2360	515	250	225	823
25	20000	4740	1450	510	540	750	16900	2050	680	245	225	775
26	18000	3860	1400	505	520	870	19000	1830	730	250	785	717
27	15500	3390	1300	500	500	1000	24300	1620	645	230	2750	681
28	14800	3240	1230	495	480	1200	30200	1460	540	220	3140	921
29	15600	3000	1170	495	---	1450	30400	1320	450	240	2540	1350
30	14000	2370	1120	490	---	1600	26100	1190	405	400	1830	1430
31	10500	---	1050	490	---	1800	---	1070	---	520	1350	---
TOTAL	251050	130580	88360	20370	21090	18850	260180	232570	23573	8080	21060	43195
MEAN	8098	4353	2850	657	753	608	8673	7502	786	261	679	1440
MAX	20000	8000	7330	1020	1130	1800	30400	21100	2420	520	3140	3140
MTN	3500	2240	1050	490	480	360	2100	1070	395	190	225	681
CAL YR 1981	TOTAL	1347292	MEAN	3691	MAX	20000	MTN	398				
WTR YR 1982	TOTAL	1118958	MEAN	3066	MAX	30400	MTN	190				

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 September 1981.

WATER TEMPERATURES: October 1975 to September 1981.

INSTRUMENTATION.--Water-quality monitor October 1975 to September 1981.

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.

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982

DATE	TIME	ESTI- MATED, DIS- CHARGE (CFS)	SPE- CIFIC CON- DUCT- ANCE (UMHOS)	SPE- CIFIC CON- DUCT- ANCE LAB (UMHOS)	PH (UNITS)	TEMPER- ATURE, AIR (DEG C)	TEMPER- ATURE (DEG C)	TUR- BID- ITY (FTU)	OXYGEN, DIS- SOLVED (MG/L)	COLI- FORM, FECAL, 0.7 UM-MF (COLS./ 100 ML)	STREP- TOCOCCI FECAL, KF AGAR (COLS. PER 100 ML)
OCT 23...	0900	6820	60	58	6.8	17.5	5.5	2.9	12.3	290	--
DEC 17...	0945	2590	77	72	6.9	-2.0	.0	2.0	14.6	140	>2000
MAR 02...	1050	530	85	81	6.8	-3.0	.0	1.0	10.2	29	25
APR 27...	1200	28600	49	50	6.6	11.0	1.5	17	13.5	70	>2000
JUN 30...	0900	475	90	96	7.1	17.5	18.5	1.1	6.4	110	260
AUG 16...	1830	480	115	116	7.4	26.5	20.0	1.1	--	820	360

DATE	HARD- NESS (MG/L AS CACO3)	HARD- NESS NONCAR- BONATE (MG/L AS CACO3)	CALCIUM DIS- SOLVED (MG/L AS CA)	MAGNE- SIUM, DIS- SOLVED (MG/L AS MG)	SODIUM, DIS- SOLVED (MG/L AS NA)	POTAS- SIUM, DIS- SOLVED (MG/L AS K)	ALKA- LINITY LAR (MG/L AS CACO3)	SULFATE DIS- SOLVED (MG/L AS SO4)	CHLO- RIDE, DIS- SOLVED (MG/L AS CL)	FLUO- RIDE, DIS- SOLVED (MG/L AS F)	SILICA, DIS- SOLVED (MG/L AS SiO2)
OCT 23...	28	8.0	8.6	1.5	1.7	.5	20	6.0	2.2	<.1	5.3
DEC 17...	32	10	10	1.6	1.8	.5	22	6.0	2.2	<.1	4.8
MAR 02...	36	7.0	11	2.0	2.3	.7	29	7.7	2.8	<.1	4.7
APR 27...	23	7.0	7.1	1.3	1.0	.5	16	7.0	1.5	<.1	3.8
JUN 30...	39	5.0	12	2.2	2.8	.8	34	5.0	3.1	<.1	2.1
AUG 16...	44	5.0	14	2.3	5.0	.7	39	7.0	6.6	<.1	1.9

DATE	SOLIDS, RESIDUE AT 180 DEG. C DIS- SOLVED (MG/L)	SOLIDS, SUM OF CONSTITUENTS, DIS- SOLVED (MG/L)	SOLIDS, DIS- SOLVED (TONS PER AC-FT)	SOLIDS, DIS- SOLVED (TONS PER DAY)	NITRO- GEN, NO2+NO3 DIS- SOLVED (MG/L AS N)	NITRO- GEN, AMMONIA DIS- SOLVED (MG/L AS N)	NITRO- GEN, AMMONIA DIS- SOLVED (MG/L AS NH4)	NITRO- GEN,AM- MONIA + ORGANIC TOTAL (MG/L AS N)	PHOS- PHORUS, TOTAL (MG/L AS P)	PHOS- PHORUS TOTAL (MG/L AS P04)	PHOS- PHORUS, DIS- SOLVED (MG/L AS P)
OCT 23...	62	38	.08	1140	.29	.080	.10	.98	.050	.15	.010
DEC 17...	60	40	.08	420	.68	.020	.03	.26	.020	.06	.020
MAR 02...	58	49	.08	83.0	.47	.100	.13	.23	.020	.06	.030
APR 27...	38	32	.05	2930	.40	.040	.05	.88	.130	.40	.040
JUN 30...	--	48	.07	61.6	.17	.130	.17	.70	.060	.18	.030
AUG 16...	71	61	.10	92.0	.17	.030	.04	.50	.060	.18	.040

K RESULTS BASED ON COLONY COUNT OUTSIDE THE ACCEPTABLE RANGE (NON-IDEAL COLONY COUNT).

ST. JOHN RIVER BASIN

01017100 AROOSTOOK RIVER AT CARIBOU, ME--Continued

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982

DATE	PHOS- PHORUS, ORTHO, DIS- SOLVED (MG/L AS P)	ARSENIC TOTAL (UG/L AS AS)	ARSENIC DIS- SOLVED (UG/L AS AS)	BARIUM, TOTAL RECOV- ERABLE (UG/L AS BA)	BARIUM, DIS- SOLVED (UG/L AS BA)	CADMIUM TOTAL RECOV- ERABLE (UG/L AS CD)	CADMIUM DIS- SOLVED (UG/L AS CD)	CHRO- MIUM, TOTAL RECOV- ERABLE (UG/L AS CR)	CHRO- MIUM, DIS- SOLVED (UG/L AS CR)	COBALT, TOTAL RECOV- ERABLE (UG/L AS CO)	COBALT, DIS- SOLVED (UG/L AS CO)
OCT 23...	<.010	1	1	100	10	<1	5	20	10	4	<1
DEC 17...	<.010	--	--	--	--	--	--	--	--	--	--
MAR 02...	.020	1	2	<100	15	<1	<1	10	10	<1	<1
APR 27...	<.010	2	1	<100	14	1	1	20	10	1	<1
JUN 30...	.040	--	--	--	--	--	--	--	--	--	--
AUG 16...	.040	1	1	<100	11	2	<1	<10	<10	1	<1

DATE	COPPER, TOTAL 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, DIS- SOLVED (UG/L AS PB)	MANGA- NESE, TOTAL RECOV- ERABLE (UG/L AS MN)	MANGA- NESE, DIS- SOLVED (UG/L AS MN)	MERCURY TOTAL RECOV- ERABLE (UG/L AS HG)	MERCURY DIS- SOLVED (UG/L AS HG)	NICKEL, TOTAL RECOV- ERABLE (UG/L AS NI)
OCT 23...	11	2	310	100	10	4	20	11	.1	<.1	5
DEC 17...	--	--	--	--	--	--	--	--	--	--	--
MAR 02...	5	3	180	69	6	1	10	8	<.1	<.1	1
APR 27...	5	1	1500	62	340	1	100	14	.1	<.1	4
JUN 30...	--	--	--	--	--	--	--	--	--	--	--
AUG 16...	7	6	100	29	5	2	30	13	2.6	1.2	2

DATE	NICKEL, DIS- SOLVED (UG/L AS NI)	SELE- NIUM, TOTAL (UG/L AS SE)	SELE- NIUM, DIS- SOLVED (UG/L AS SE)	SILVER, TOTAL RECOV- ERABLE (UG/L AS AG)	SILVER, DIS- SOLVED (UG/L AS AG)	ZINC, TOTAL RECOV- ERABLE (UG/L AS ZN)	ZINC, DIS- SOLVED (UG/L AS ZN)	SEDI- MENT, SUS- PENDE (MG/L)	SEDI- MENT, DIS- CHARGE, SUS- PENDE (T/DAY)	SED. SUSP. SIEVE DIAM. % FINER THAN .062 MM
OCT 23...	<1	<1	<1	<1	<1	40	6	5	92	100
DEC 17...	--	--	--	--	--	--	--	1	7.0	100
MAR 02...	<1	<1	<1	<1	<1	20	8	5	7.2	100
APR 27...	1	<1	<1	<1	<1	20	5	59	4560	74
JUN 30...	--	--	--	--	--	--	--	2	2.6	80
AUG 16...	1	<1	<1	<1	<1	50	<4	2	2.6	100

01017100 AROOSTOOK RIVER AT CARIBOU, ME--Continued

PESTICIDE ANALYSES, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982

DATE	PCB, TOTAL (UG/L)	PCB, TOTAL IN BOT- TOM MA- TERIAL (UG/KG)	PCN, TOTAL IN BOT- TOM MA- TERIAL (UG/KG)	ALDRIN, TOTAL (UG/L)	ALDRIN, TOTAL IN BOT- TOM MA- TERIAL (UG/KG)	CHLOR- DANE, TOTAL (UG/L)	CHLOR- DANE, TOTAL IN BOT- TOM MA- TERIAL (UG/KG)	DDD, TOTAL (UG/L)	DDD, TOTAL IN BOT- TOM MA- TERIAL (UG/KG)	DDE, TOTAL (UG/L)	DDE, TOTAL IN BOT- TOM MA- TERIAL (UG/KG)	DDT, TOTAL (UG/L)
OCT 23...	--	19	<1.0	--	<.1	--	<1.0	--	<.1	--	3.8	--
APR 27...	<.10	<1	<1.0	<.01	<.1	<.10	<1.0	<.01	<.1	<.01	.2	<.01

DATE	DDT, TOTAL IN BOT- TOM MA- TERIAL (UG/KG)	DI- AZINON, TOTAL (UG/L)	DI- ELDRIN TOTAL (UG/L)	DI- ELDRIN, TOTAL IN BOT- TOM MA- TERIAL (UG/KG)	ENDO- SULFAN, TOTAL (UG/L)	ENDO- SULFAN, TOTAL IN BOT- TOM MA- TERIAL (UG/KG)	ENDRIN, TOTAL (UG/L)	ENDRIN, TOTAL IN BOT- TOM MA- TERIAL (UG/KG)	ETHION, TOTAL (UG/L)	HEPTA- CHLOR, TOTAL (UG/L)	HEPTA- CHLOR, TOTAL IN BOT- TOM MA- TERIAL (UG/KG)
OCT 23...	14	--	--	<.1	--	<.1	--	<.1	--	--	<.1
APR 27...	.9	.01	<.01	<.1	<.01	<.1	<.01	<.1	<.01	<.01	<.1

DATE	HEPTA- CHLOR EPOXIDE TOTAL (UG/L)	HEPTA- CHLOR EPOXIDE TOT. IN BOTTOM MATL. (UG/KG)	LINDANE TOTAL (UG/L)	LINDANE TOTAL IN BOT- TOM MA- TERIAL (UG/KG)	MALA- THION, TOTAL (UG/L)	METH- OXY- CHLOR, TOTAL (UG/L)	METH- OXY- CHLOR, TOT. IN BOTTOM MATL. (UG/KG)	METHYL PARA- THION, TOTAL (UG/L)	METHYL TRI- THION, TOTAL (UG/L)	MIREX, TOTAL (UG/L)	MIREX, TOTAL IN BOT- TOM MA- TERIAL (UG/KG)
OCT 23...	--	<.1	--	<.1	--	--	<.1	--	--	--	<.1
APR 27...	<.01	<.1	<.01	<.1	<.01	<.01	<.1	<.01	<.01	<.01	<.1

DATE	NAPH- THA- LENES, POLY- CHLOR, TOTAL (UG/L)	PARA- THION, TOTAL (UG/L)	PER- THANE TOTAL (UG/L)	PER- THANE IN BOTTOM MATRIL (UG/KG)	TOX- APHENE, TOTAL (UG/L)	TOXA- PHENE, TOTAL IN BOT- TOM MA- TERIAL (UG/KG)	TOTAL TRI- THION (UG/L)	2,4-D, TOTAL (UG/L)	2, 4-DP TOTAL (UG/L)	2,4,5-T TOTAL (UG/L)	SILVEX, TOTAL (UG/L)
OCT 23...	--	--	--	<.10	--	<1.0	--	--	--	--	--
APR 27...	<.10	<.01	<.10	<1.00	<1	<10	<.01	<.01	<.01	<.01	<.01

ST. JOHN RIVER BASIN

01017900 MARLEY BROOK NEAR LUDLOW, ME

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

DRAINAGE AREA.--1.47 mi² (3.81 km²).

PERIOD OF RECORD.--December 1963 to September 1982 (discontinued).

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

REMARKS.--Records good except those for winter period, which are fair. No gage-height record Feb. 9 to March 29. Several observations of water temperature and specific conductance were made during the year.

AVERAGE DISCHARGE.--18 years (water years 1965-82), 2.86 ft³/s (0.081 m³/s), 26.42 in/yr (671 mm/yr).

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

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

Date	Time	Discharge (ft ³ /s) (m ³ /s)	Gage height (ft) (m)	Date	Time	Discharge (ft ³ /s) (m ³ /s)	Gage height (ft) (m)
Oct. 7	2345	50 1.42	5.26 1.603	Apr. 21	2100	31 0.88	4.81 1.466
Oct. 24	0400	*63 1.78	5.56 1.695	Apr. 25	2030	34 0.96	4.87 1.484
Apr. 18	1530	51 1.44	5.30 1.615				

Minimum discharge, 0.03 ft³/s (0.001 m³/s) July 16-22, gage height, 3.48 ft (1.061 m).

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	3.8	7.1	2.7	.93	.59	.52	7.8	5.8	.28	.24	.18	.34
2	3.8	6.5	4.7	.90	.58	.51	9.5	5.6	1.0	.18	.13	1.4
3	11	5.6	8.2	.90	.66	.50	8.6	5.6	2.6	.10	.07	4.3
4	8.7	4.5	9.0	.95	1.1	.50	6.1	5.3	1.9	.10	.06	2.4
5	6.1	4.3	5.6	1.2	1.8	.50	6.0	4.9	1.2	.10	.97	1.2
6	4.9	4.7	7.9	2.1	1.4	.51	4.5	4.0	.70	.07	.69	.82
7	13	7.3	16	1.8	1.1	.52	3.9	3.1	.44	.06	.34	3.1
8	22	9.0	12	1.5	.90	.51	3.5	2.7	.30	.04	.24	1.5
9	9.6	6.1	9.8	1.3	.76	.40	3.2	2.4	.26	.03	.24	.89
10	7.6	4.9	8.1	1.2	.72	.48	2.9	2.1	.27	.03	.89	.76
11	6.5	4.0	7.2	1.1	.66	.48	3.0	1.9	.27	.03	.38	.63
12	5.6	3.6	6.0	.98	.64	.50	4.0	1.7	.24	.03	.21	.57
13	5.1	3.0	4.8	.93	.62	.60	4.1	1.3	.24	.03	.18	.47
14	4.9	3.0	4.3	.88	.61	.86	5.4	1.2	.30	.03	.18	.38
15	4.5	2.8	3.9	.85	.60	.72	4.9	1.0	.38	.03	.18	.89
16	4.0	2.8	3.5	.82	.60	.60	5.3	.92	.47	.03	.13	1.9
17	3.8	4.1	3.2	.80	.59	.54	9.6	.83	.52	.03	.07	3.0
18	3.5	11	3.0	.78	.58	.50	35	.76	.34	.03	.07	1.6
19	9.6	11	2.6	.77	.58	.47	21	.69	.30	.03	.07	1.1
20	8.5	7.3	2.4	.75	.57	.50	11	.63	.30	.03	.06	.82
21	6.3	16	2.2	.73	.56	.54	17	.58	.27	.03	.04	.76
22	5.6	11	2.0	.71	.56	.48	15	.53	.24	.13	.04	.63
23	12	7.3	1.8	.70	.55	.46	7.3	.42	.24	.18	.04	.82
24	39	5.8	1.6	.68	.55	.45	7.9	.40	.42	.07	.04	.97
25	15	4.7	1.5	.67	.54	.60	15	.42	.34	.04	.13	.82
26	12	4.1	1.4	.66	.53	1.0	20	.40	.27	.04	5.6	.69
27	13	3.5	1.3	.64	.53	1.9	25	.37	.22	.04	1.4	.89
28	15	3.3	1.2	.63	.52	3.0	13	.34	.19	.04	2.1	1.9
29	13	3.1	1.1	.62	---	4.2	8.7	.32	.19	1.1	.89	1.1
30	9.9	2.8	1.0	.61	---	4.0	6.8	.31	.57	.38	.52	.76
31	7.9	---	.98	.60	---	4.1	---	.29	---	.19	.42	---
TOTAL	295.2	174.2	140.98	28.69	20.00	31.54	295.0	56.81	15.26	3.49	16.56	37.41
MEAN	9.52	5.81	4.55	.93	.71	1.02	9.83	1.83	.51	.11	.53	1.25
MAX	39	16	16	2.1	1.8	4.2	35	5.8	2.6	1.1	5.6	4.3
MTN	3.5	2.8	.98	.60	.52	.45	2.9	.29	.19	.03	.04	.34
CFSM	6.48	3.95	3.10	.63	.48	.60	6.69	1.25	.35	.08	.36	.85
IN.	7.47	4.41	3.57	.73	.51	.80	7.46	1.44	.39	.09	.42	.95

CAL YR 1981 TOTAL 1489.99 MEAN 4.08 MAX 39 MIN .09 CFSM 2.78 IN 37.68
WTR YR 1982 TOTAL 1115.14 MEAN 3.06 MAX 39 MIN .03 CFSM 2.08 IN 28.20

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 September 1982 (discontinued). October 1940 monthly discharge only, published in WSP 1301.

REVISED RECORDS.--WSP 1031: 1944.

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

REMARKS.--Records good except those for winter period and period of no gage-height record Oct. 26 to Dec 11, which are fair. Several observations of water temperature and specific conductance were made during the year.

AVERAGE DISCHARGE.--42 years, 298 ft³/s (8.439 m³/s), 23.12 in/yr (587 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)
Apr. 19	1500	* 3060 86.7	6.88 2.097	Apr. 28	0400	2670 75.6	6.50 1.981

Minimum discharge, 16 ft³/s (0.45 m³/s) July 21, gage height, 2.30 ft (0.701 m).

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	510	1200	280	190	83	57	650	1150	67	64	45	85
2	436	1030	320	190	105	55	907	975	98	54	36	98
3	644	865	450	190	140	54	1020	867	346	46	31	266
4	827	720	700	225	170	52	1010	806	295	41	28	490
5	715	610	620	340	210	51	989	741	208	37	41	376
6	567	520	710	320	235	50	901	644	151	36	67	255
7	635	470	950	275	220	57	714	559	113	33	59	253
8	1800	440	1300	240	200	56	636	489	95	30	51	222
9	1760	430	1600	215	190	54	592	423	78	27	47	171
10	1210	405	1470	200	175	53	529	377	68	24	53	135
11	858	370	1360	185	165	52	486	344	62	22	56	109
12	677	340	1200	170	155	60	507	304	57	22	49	91
13	561	315	914	160	145	75	534	269	51	21	45	79
14	486	290	758	150	130	100	655	241	53	20	53	69
15	425	270	649	140	125	150	706	220	58	20	54	87
16	382	260	501	135	115	145	788	203	63	20	48	174
17	350	300	425	130	110	130	1190	182	66	19	40	225
18	322	400	380	120	99	120	2310	166	59	20	36	210
19	437	530	345	115	94	115	3020	151	51	19	32	173
20	513	670	310	110	89	110	2670	145	51	18	29	140
21	432	780	285	110	84	100	2350	143	49	17	26	119
22	474	1000	270	105	80	97	2620	129	48	29	23	108
23	409	930	250	100	76	93	2170	117	46	54	22	109
24	437	820	240	99	72	90	1750	110	52	49	26	111
25	1090	690	225	96	69	120	1650	108	53	40	36	104
26	1400	590	220	93	66	180	1980	106	47	33	310	94
27	1600	500	210	90	63	270	2390	96	42	29	485	90
28	1800	430	205	89	60	425	2550	87	39	27	369	123
29	1900	375	200	87	---	470	1930	79	38	49	240	132
30	1650	320	195	85	---	450	1450	73	65	68	157	121
31	1420	---	190	84	---	500	---	71	---	58	112	---
TOTAL	26727	16870	17732	4838	3525	4391	41654	10375	2569	1046	2706	4819
MEAN	862	562	572	156	126	142	1388	335	85.6	33.7	87.3	161
MAX	1900	1200	1600	340	235	500	3020	1150	346	68	485	490
MTN	322	260	190	84	60	50	486	71	38	17	22	69
CFSM	4.93	3.21	3.27	.89	.72	.81	7.93	1.91	.49	.19	.50	.92
IN.	5.68	3.59	3.77	1.03	.75	.93	8.85	2.21	.55	.22	.58	1.02
CAL YR 1981 TOTAL	160916			MEAN 441	MAX 2970	MIN 35	CFSM 2.52	IN 34.21				
WTR YR 1982 TOTAL	137252			MEAN 376	MAX 3020	MIN 17	CFSM 2.15	IN 29.18				

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.--413 mi² (1,070 km²), revised.

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. 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.--54 years, 726 ft³/s (20.56 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, 2,940 ft³/s (83.3 m³/s) Dec. 11, gage height, 8.20 ft (2.499 m); Minimum daily, 334 ft³/s (9.46 m³/s) Apr. 2.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	434	1550	1470	1580	1930	1030	388	2770	824	427	673	618
2	434	1550	1490	1580	1910	953	334	2770	824	542	670	621
3	434	1550	1500	1580	1900	690	344	2510	827	603	662	621
4	437	1540	1500	1580	1900	863	353	1920	826	597	660	626
5	437	1540	1510	1580	1900	948	357	1920	826	597	657	623
6	437	1540	1520	1570	1880	943	362	1480	819	687	657	625
7	441	1530	1540	1570	1870	936	368	896	817	735	651	493
8	441	1530	1540	1570	1860	939	369	466	813	730	651	369
9	455	1520	1730	1480	1940	931	370	466	814	819	645	369
10	800	1520	2350	1360	1960	932	369	466	811	870	645	369
11	1150	1370	2880	1340	1920	925	374	466	806	861	643	363
12	1150	1170	2330	1340	1870	920	375	690	804	729	640	485
13	1150	1160	1900	1330	1830	911	378	996	805	573	638	625
14	1150	1160	1900	1330	1800	920	381	1020	801	466	638	620
15	1140	1150	1900	1330	1750	922	381	854	797	407	636	620
16	1140	1150	1910	1330	1730	914	383	854	794	407	630	625
17	1140	1150	1900	1310	1690	908	389	851	791	407	629	620
18	1140	1160	1900	1300	1590	903	394	851	791	397	626	620
19	1140	1350	1910	1300	1570	898	402	850	783	395	630	620
20	1130	1510	1900	1480	1580	893	410	849	783	396	626	620
21	1130	1520	1890	1740	1560	887	420	845	784	401	626	620
22	1130	1530	1890	1720	1530	750	428	845	780	397	625	616
23	949	1530	1830	1690	1500	651	438	841	772	399	616	618
24	818	1520	1620	1720	1470	533	441	840	773	403	619	622
25	818	1510	1610	1710	1440	437	451	836	772	402	619	623
26	822	1510	1610	1680	1250	440	453	836	768	400	625	619
27	978	1500	1600	1670	1210	448	856	832	764	399	627	622
28	1290	1500	1600	1660	1200	448	2140	831	762	397	625	621
29	1530	1500	1590	1860	---	457	2770	829	758	397	622	621
30	1540	1500	1590	1930	---	458	2770	828	553	560	626	622
31	1550	---	1580	1940	---	459	---	825	---	673	620	---
TOTAL	28735	42820	54990	48160	47540	24249	18648	33133	23642	16473	19757	17356
MEAN	927	1427	1774	1554	1698	782	622	1069	788	531	637	579
MAX	1550	1550	2880	1940	1960	1030	2770	2770	827	870	673	626
MIN	434	1150	1470	1300	1200	437	334	466	553	395	616	363
CAL YR 1981	TOTAL	390444	MEAN	1070	MAX	2950	MIN	403				
WTR YR 1982	TOTAL	375503	MEAN	1029	MAX	2880	MIN	334				

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.--227 mi² (588 km²), revised.

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 except those for periods of no gage-height record, Jan. 25 to Mar. 3, and Sept. 12-30, which are fair. 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.--54 years, 400 ft³/s (11.33 m³/s).

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

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 1,460 ft³/s (41.3 m³/s) Apr. 29, 30, gage height, 4.66 ft (1.420 m); minimum daily discharge, 150 ft³/s (4.25 m³/s) Oct. 1-21.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	150	167	1130	755	1170	950	192	1450	495	248	219	547
2	150	167	1130	763	1160	580	189	1440	501	248	219	545
3	150	167	1150	760	1160	580	188	1420	509	251	216	545
4	150	167	1150	761	1150	577	197	1400	501	249	216	544
5	150	167	1140	769	1140	574	197	1410	497	248	297	541
6	150	168	1150	768	1140	570	195	1350	496	248	341	536
7	150	171	1150	764	1130	566	198	1040	430	248	337	406
8	150	172	1150	764	1120	569	198	575	363	248	337	274
9	150	172	1140	761	1120	562	190	574	363	276	334	272
10	150	171	1140	759	1110	559	189	574	361	374	335	271
11	150	244	1140	758	1100	554	190	571	359	372	335	270
12	150	366	1140	754	1100	553	192	569	359	310	333	270
13	150	461	1130	751	1090	557	192	569	359	330	445	270
14	150	604	1130	749	1080	559	194	568	359	293	504	510
15	150	604	1130	749	1080	512	222	563	360	222	501	505
16	150	604	1140	747	1070	302	261	559	360	222	497	500
17	150	604	1140	743	1060	302	268	561	361	220	496	495
18	150	614	1130	743	1050	287	278	555	361	219	492	490
19	150	908	1130	739	1050	258	279	548	359	219	545	485
20	150	1240	1130	887	1050	259	280	549	362	221	574	480
21	150	1240	1120	985	1040	261	286	547	359	221	574	480
22	155	1240	1110	983	1030	231	289	540	359	222	569	475
23	154	1230	1010	981	1030	216	288	533	358	223	566	475
24	158	1220	913	958	1020	185	292	528	360	221	567	470
25	157	1210	905	950	1020	168	291	526	359	219	564	470
26	159	1210	898	950	1010	170	292	525	358	220	568	465
27	162	1180	891	945	1000	172	577	516	356	219	562	465
28	167	1180	890	1050	990	206	1230	510	355	219	561	460
29	167	1170	884	1190	---	171	1460	507	355	222	558	460
30	167	1160	799	1180	---	172	1460	503	300	219	552	460
31	167	---	758	1170	---	176	---	499	---	219	549	---
TOTAL	4763	19978	32948	26586	30270	12358	10754	22579	11634	7690	13763	13436
MEAN	154	666	1063	858	1081	399	358	728	388	248	444	448
MAX	167	1240	1150	1190	1170	950	1460	1450	509	374	574	547
MTN	150	167	758	739	990	168	188	499	300	219	216	270
CAL YR 1981 TOTAL	194364			MEAN 533	MAX 1240	MIN 146						
WTR YR 1982 TOTAL	206759			MEAN 566	MAX 1460	MIN 150						

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.--1,315 mi² (3,406 km²), revised.

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.--63 years, 2,358 ft³/s (66.78 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, 9,900 ft³/s (280 m³/s) Apr. 21, gage height, 6.98 ft (2.128 m); minimum daily, 1,010 ft³/s (28.6 m³/s) July 16, 17.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	4620	5330	3060	3610	3450	2910	3040	7960	1400	1790	1970	2110
2	4680	4320	4890	3620	3450	2910	3360	7790	1330	1810	1990	2080
3	4760	3090	5800	3300	3990	2950	5340	6590	1240	1820	1960	1960
4	4680	2790	6670	3020	4180	2830	7500	5570	1290	1790	1770	1590
5	4560	2770	6940	3600	4170	2940	8040	4920	1460	1770	1950	1450
6	4360	2950	7360	3960	4200	2670	7730	4680	1610	1760	1950	1390
7	4200	2950	7760	3960	4280	2580	7440	4200	1620	1760	1970	1310
8	4100	2950	7880	3970	4200	2780	6340	3530	1610	1780	1960	1470
9	3970	2960	7780	4010	4190	2960	5670	3480	1610	1760	1970	1350
10	3820	2950	7520	4010	4250	2630	5500	3220	1610	1750	1950	1300
11	3680	2930	7000	4160	4250	2970	5270	2640	1630	1800	1950	1630
12	3630	2940	6510	4170	4200	2960	4500	2500	1620	1850	1940	1740
13	3560	2960	6530	4080	4130	2960	4040	2490	1620	1630	1890	1740
14	3450	2960	6030	4160	4020	2970	4080	2510	1680	1280	1780	1780
15	3340	2950	5530	3530	3460	2970	4200	2510	1700	1020	1440	1830
16	3220	2950	5530	3400	3430	2970	4350	2510	1640	1010	1650	2040
17	3100	2960	5570	3060	3340	2970	4470	2500	1660	1010	1850	1740
18	3000	2970	5400	2540	3330	2970	4830	2030	1660	1030	1820	1720
19	3000	3530	5260	2830	3310	2970	7480	1420	1670	1050	1820	1260
20	2820	4740	5230	3140	3260	2970	8700	1440	1750	1060	1850	1730
21	2980	5680	4820	3010	3260	2970	8920	1340	2000	1050	1830	1690
22	2920	6070	4100	3130	3150	2860	9590	1270	2100	1070	1810	1490
23	2910	6230	3820	3090	3120	2960	9570	1280	1890	1070	1830	1680
24	2980	6050	3660	3280	3050	2960	9060	1270	1830	1070	1820	1810
25	2980	5790	3850	3310	3030	2950	8060	1450	1840	1050	1850	1640
26	2770	5630	3850	3390	2960	2740	6710	1280	1710	1030	1840	1780
27	2470	5050	3830	3380	2890	2930	6740	1310	1690	1020	1840	1810
28	2930	4710	3820	3300	2910	2990	7870	1280	1700	1030	1840	2010
29	3910	4680	3670	3310	---	3000	8100	1260	1700	1040	1870	1140
30	4500	4130	3610	3300	---	2980	7980	1280	1760	1620	2100	1520
31	5410	---	3620	3350	---	2800	---	1280	---	1640	2100	---
TOTAL	113310	118970	166900	107980	101460	89980	194480	88790	49630	43220	58160	49790
MEAN	3655	3966	5384	3483	3624	2903	6483	2864	1654	1394	1876	1660
MAX	5410	6230	7880	4170	4280	3000	9590	7960	2100	1850	2100	2110
MIN	2470	2770	3060	2540	2890	2580	3040	1260	1240	1010	1440	1140
CAL YR 1981	TOTAL	1235370	MEAN	3385	MAX	11000	MIN	1050				
WTR YR 1982	TOTAL	1182670	MEAN	3240	MAX	9590	MIN	1010				

ST. CROIX RIVER BASIN

37

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

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

DRAINAGE AREA.--1,374 mi² (3,559 km²), revised.

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

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

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

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

AVERAGE DISCHARGE.--23 years (water years 1960-82), 2,761 ft³/s (78.20 m³/s).

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

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 11,200 ft³/s (317 m³/s) Apr. 21, gage height, 10.11 ft (3.082 m); minimum daily, 872 ft³/s (24.7 m³/s) July 19.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	5280	5660	3150	3790	3500	3050	4040	8380	1220	1710	1840	2080
2	4870	4870	5090	3750	3500	3130	4630	8240	1530	1680	2010	2150
3	5220	3480	6770	3760	4200	3050	5730	7050	1420	1720	1830	2160
4	5080	2900	7080	3180	4200	2960	8610	5780	1410	1640	1700	1800
5	4610	2650	7530	3960	4200	3000	9450	5200	1460	1530	1830	1380
6	4510	3250	8120	4000	4300	2830	8720	4780	1540	1580	1910	1450
7	4590	3270	8600	4100	4300	2520	8280	4760	1610	1580	1760	1360
8	4310	3230	8560	4100	4300	2760	7030	3790	1650	1580	1860	1450
9	4030	3160	8370	4150	4300	3010	6160	3590	1540	1650	1860	1400
10	4040	3150	8060	4150	4300	2670	5990	3450	1500	1580	1960	1320
11	3960	3070	7550	4200	4300	3090	5740	2860	1590	1530	1930	1580
12	3680	3000	6780	4200	4200	3000	5080	2500	1580	1780	1880	1650
13	3640	3050	6760	4250	4100	3110	4390	2450	1550	1600	1850	1710
14	3640	3000	6380	4300	4000	3140	4550	2410	1560	1010	1800	1810
15	3430	3000	5680	3800	3750	3150	4620	2560	1720	916	1390	1830
16	3220	3010	5820	3500	3650	3210	4800	2540	1590	904	1480	2070
17	3220	3160	5820	3300	3600	3120	5100	2570	1630	899	1790	1760
18	3160	3400	5860	2800	3500	3100	5780	2070	1600	885	1760	1680
19	3030	3700	5590	3000	3450	3090	7820	1490	1550	872	1750	1330
20	3020	4710	5550	3200	3450	3080	9650	1400	1720	903	1740	1660
21	2990	6520	5330	3100	3450	3110	9840	1340	1820	1090	1840	1700
22	3000	6700	4420	3200	3450	3070	10700	1310	2000	1260	1680	1600
23	2990	6700	4000	3100	3290	3090	10300	1350	1940	1290	1720	1680
24	3130	6470	4000	3300	3220	3120	9890	1220	1820	1070	2020	1800
25	3140	6140	4010	3300	3150	3060	8760	1470	1740	1040	2040	1720
26	3150	5900	3990	3450	3100	3100	7400	1270	1640	988	2100	1740
27	3200	5410	3970	3450	3000	3230	7240	1250	1570	892	1930	1940
28	3090	4940	3830	3400	3050	3230	8270	1220	1500	892	1900	2000
29	4220	4920	3640	3400	---	3230	8690	1260	1550	1140	1760	1160
30	4480	4260	3640	3400	---	3210	8390	1260	1840	1390	2090	1470
31	5870	---	3760	3500	---	3260	---	1370	---	1650	2080	---
TOTAL	119800	126680	177710	112090	104810	94780	215650	92190	48390	40251	57090	50440
MFAN	3865	4223	5733	3616	3743	3057	7188	2974	1613	1298	1842	1681
MAX	5870	6700	8600	4300	4300	3260	10700	8380	2000	1780	2100	2160
MTN	2990	2650	3150	2800	3000	2520	4040	1220	1220	872	1390	1160
CAL YR 1981	TOTAL	1294080	MEAN	3545	MAX	12100	MIN	1420				
WTR YR 1982	TOTAL	1239881	MEAN	3397	MAX	10700	MIN	872				

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 September 1969.

REMARKS.--Monitor not operated during winter periods, water years 1970 to 1975. Other interruptions in the record were due to malfunctions of the monitor.

EXTREMES FOR PERIOD OF DAILY RECORD.--

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

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

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

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

EXTREMES FOR CURRENT YEAR.--

SPECIFIC CONDUCTANCE: Maximum recorded 130 micromhos May 27; minimum recorded, 34 micromhos Apr. 29, 30; May 2.

pH: Maximum recorded 7.1 units May 24-27; minimum recorded 6.1 units Sept. 3, 4.

WATER TEMPERATURES: Maximum recorded 24.0°C July 31, Aug. 1; minimum recorded, 0.0°C on many days during winter period.

DISSOLVED OXYGEN: Maximum recorded, 13.3 mg/L Dec. 14; minimum recorded 5.7 mg/L July 29.

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982

DATE	TIME	STREAM- FLOW, INSTAN- TANEOUS (CFS)	SPE- CIFIC CON- DUCT- ANCE (UMHOS)	SPE- CIFIC CON- DUCT- ANCE LAB (UMHOS)	PH (UNITS)	TEMPER- ATURE, AIR (DEG C)	TEMPER- ATURE (DEG C)	TUR- BID- ITY (FTU)	OXYGEN, DIS- SOLVED (MG/L)	COLI- FORM, FECAL, 0.7 UM-MF (COLS./ 100 ML)	STREP- TOCOCCI FECAL, KF AGAR (COLS. PER 100 ML)
OCT 21...	1015	3000	50	49	6.7	12.0	8.5	3.0	11.0	36	21
DEC 16...	0930	6060	43	36	6.6	3.5	.5	2.1	13.2	K14	100
MAR 04...	0900	3290	60	55	6.6	-8.0	.0	1.4	12.8	K3	K2
APR 28...	1000	7750	36	32	6.8	5.0	7.5	2.1	10.8	K7	E140
JUN 17...	0915	1630	90	92	6.8	17.0	17.5	1.7	7.2	280	800
AUG 18...	1225	1760	78	82	6.7	24.0	21.5	1.6	6.9	240	K2600

DATE	HARD- NESS (MG/L AS CACO3)	HARD- NESS NONCAR- BONATE (MG/L AS CACO3)	CALCIUM DIS- SOLVED (MG/L AS CA)	MAGNE- SIUM, DIS- SOLVED (MG/L AS MG)	SODIUM, DIS- SOLVED (MG/L AS NA)	POTAS- SIUM, DIS- SOLVED (MG/L AS K)	ALKA- LINEITY LAB (MG/L AS CACO3)	SULFATE DIS- SOLVED (MG/L AS SO4)	CHLO- RIDE, DIS- SOLVED (MG/L AS CL)	FLUO- RIDE, DIS- SOLVED (MG/L AS F)	SILICA, DIS- SOLVED (MG/L AS SiO2)
OCT 21...	12	.00	3.8	.7	5.9	.5	13	5.3	6.0	<.1	3.0
DEC 16...	9	1.0	2.9	.5	4.2	.3	8.0	4.3	3.7	<.1	3.0
MAR 04...	13	2.0	3.9	.8	6.7	.6	11	7.2	7.3	<.1	2.9
APR 28...	9	2.0	2.6	.7	3.2	.3	7.0	6.0	2.9	<.1	2.4
JUN 17...	14	.00	4.3	.7	13	.7	14	9.0	9.6	<.1	1.9
AUG 18...	15	1.0	4.6	.8	13	.4	14	8.0	10	<.1	1.9

K RESULTS BASED ON COLONY COUNT OUTSIDE THE ACCEPTABLE RANGE (NON-IDEAL COLONY COUNT).

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

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982

DATE	SOLIDS, RESIDUE AT 180 DEG. C DIS- SOLVED (MG/L)	SOLIDS, SUM OF CONSTITUENTS, DIS- SOLVED (MG/L)	SOLIDS, DIS- SOLVED (TONS PER AC-FT)	SOLIDS, DIS- SOLVED (TONS PER DAY)	NITRO- GEN, NO2+NO3 DIS- SOLVED (MG/L AS N)	NITRO- GEN, AMMONIA DIS- SOLVED (MG/L AS N)	NITRO- GEN, AMMONIA DIS- SOLVED (MG/L AS NH4)	NITRO- GEN,AM- MONIA + ORGANIC TOTAL (MG/L AS N)	PHOS- PHORUS, TOTAL (MG/L AS P)	PHOS- PHORUS, TOTAL (MG/L AS P04)	PHOS- PHORUS, DIS- SOLVED (MG/L AS P)
OCT 21...	52	33	.07	421	.09	.030	.04	.60	.020	.06	<.010
DEC 16...	39	24	.05	638	.07	<.010	.01	.31	.020	.06	.030
MAR 04...	44	36	.06	391	.10	.110	.14	.40	<.010	--	.020
APR 28...	26	22	.04	544	<.10	.050	.06	.17	.060	.18	.040
JUN 17...	64	48	.09	282	.18	.210	.27	.40	.040	.12	<.010
AUG 18...	58	45	.08	276	.33	<.010	.01	.30	.030	.09	.020

DATE	PHOS- PHORUS, ORTHO, DIS- SOLVED (MG/L AS P)	ARSENIC TOTAL (UG/L AS AS)	ARSENIC DIS- SOLVED (UG/L AS AS)	BARIUM, TOTAL RECOV- ERABLE (UG/L AS BA)	BARIUM, DIS- SOLVED (UG/L AS BA)	CADMIUM TOTAL RECOV- ERABLE (UG/L AS CD)	CADMIUM DIS- SOLVED (UG/L AS CD)	CHRO- MIUM, TOTAL RECOV- ERABLE (UG/L AS CR)	CHRO- MIUM, DIS- SOLVED (UG/L AS CR)	COBALT, TOTAL RECOV- ERABLE (UG/L AS CO)	COBALT, DIS- SOLVED (UG/L AS CO)
OCT 21...	<.010	1	1	100	10	<1	5	20	10	5	<1
DEC 16...	<.010	--	--	--	--	--	--	--	--	--	--
MAR 04...	<.010	1	1	<100	11	1	2	10	10	<1	<1
APR 28...	<.010	2	1	<100	12	<1	<3	10	<10	<1	<1
JUN 17...	<.010	--	--	--	--	--	--	--	--	--	--
AUG 18...	.020	2	2	<100	26	3	<1	10	10	2	<1

DATE	COPPER, TOTAL 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, DIS- SOLVED (UG/L AS PR)	MANGA- NESE, TOTAL RECOV- ERABLE (UG/L AS MN)	MANGA- NESE, DIS- SOLVED (UG/L AS MN)	MERCURY TOTAL RECOV- ERABLE (UG/L AS HG)	MERCURY DIS- SOLVED (UG/L AS HG)	NICKEL, TOTAL RECOV- ERABLE (UG/L AS NI)
OCT 21...	1000	2	400	160	34	4	40	26	.1	<.1	11
DEC 16...	--	--	--	--	--	--	--	--	--	--	--
MAR 04...	6	2	200	100	6	<1	30	27	<.1	<.1	1
APR 28...	8	4	220	78	7	2	30	16	<.1	<.1	1
JUN 17...	--	--	--	--	--	--	--	--	--	--	--
AUG 18...	7	6	260	140	4	3	60	35	1.0	.3	2

DATE	NICKEL, DIS- SOLVED (UG/L AS NI)	SELE- NIUM, TOTAL (UG/L AS SE)	SELE- NIUM, DIS- SOLVED (UG/L AS SE)	SILVER, TOTAL RECOV- ERABLE (UG/L AS AG)	SILVER, DIS- SOLVED (UG/L AS AG)	ZINC, TOTAL RECOV- ERABLE (UG/L AS ZN)	ZINC, DIS- SOLVED (UG/L AS ZN)	SEDI- MENT, SUS- PENDED (MG/L)	SEDI- MENT, DIS- CHARGE, SUS- PENDED (T/DAY)	SEN- SIVE, SIEVE DIAM. % FINER THAN .062 MM
OCT 21...	<1	<1	<1	<1	<1	100	6	1	8.1	100
DEC 16...	--	--	--	--	--	--	--	2	33	100
MAR 04...	<1	<1	<1	<1	<1	20	8	2	18	100
APR 28...	1	<1	<1	<1	<1	70	<3	13	272	48
JUN 17...	--	--	--	--	--	--	--	7	31	78
AUG 18...	2	<1	<1	<1	<1	80	11	1	4.8	100

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

SPECIFIC CONDUCTANCE (MICROMHOS/CM AT 25 DEG. C), WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982

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

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
FEBRUARY			MARCH			APRIL			MAY			
1	---	---	---	75	71	74	70	63	66	35	35	35
2	---	---	---	75	73	74	62	55	58	35	34	35
3	60	55	57	75	69	72	54	50	53	39	35	36
4	61	59	60	74	67	71	50	45	48	41	40	40
5	58	55	56	78	68	72	48	41	43	44	42	43
6	56	55	56	---	---	---	47	38	40	47	45	46
7	---	---	---	---	---	---	43	39	42	48	45	46
8	---	---	---	---	---	---	46	43	44	53	47	50
9	---	---	---	---	---	---	47	45	46	56	54	55
10	---	---	---	---	---	---	47	46	47	55	54	55
11	---	---	---	---	---	---	49	47	48	62	55	59
12	---	---	---	---	---	---	52	48	49	67	62	65
13	---	---	---	70	67	68	54	52	53	68	66	67
14	---	---	---	71	67	69	54	52	53	69	67	67
15	---	---	---	71	66	69	52	50	50	72	68	70
16	---	---	---	69	64	66	49	47	48	70	67	68
17	---	---	---	69	67	68	---	---	---	72	67	70
18	---	---	---	72	69	71	---	---	---	81	69	74
19	63	61	62	74	71	72	---	---	---	110	81	94
20	66	63	65	85	74	79	---	---	---	101	84	89
21	67	64	65	75	62	66	---	---	---	108	92	99
22	71	66	67	76	69	72	---	---	---	124	104	114
23	69	67	68	75	74	75	---	---	---	122	110	116
24	69	65	67	75	70	72	---	---	---	127	115	121
25	67	65	66	78	74	76	---	---	---	129	113	125
26	70	66	69	79	73	76	---	---	---	123	106	115
27	70	67	69	73	66	69	---	---	---	130	121	124
28	74	70	72	67	65	66	---	---	---	125	117	120
29	---	---	---	69	66	68	34	34	34	125	115	121
30	---	---	---	71	68	70	35	34	35	123	115	118
31	---	---	---	68	63	65	---	---	---	---	---	---
MONTH	106	55	68	85	62	71	70	34	48	130	34	78

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

SPECIFIC CONDUCTANCE (MICROMHOS/CM AT 25 DEG. C), WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
	JUNE			JULY			AUGUST			SEPTEMBER		
1	---	---	---	80	73	76	87	74	78	60	47	52
2	---	---	---	78	73	76	81	78	80	52	48	50
3	---	---	---	77	73	75	82	74	77	52	51	52
4	---	---	---	78	74	75	81	75	76	54	51	53
5	---	---	---	80	76	78	81	75	77	55	50	52
6	---	---	---	83	78	81	79	76	78	50	47	48
7	---	---	---	82	75	80	80	75	78	58	47	55
8	104	99	101	81	77	79	80	76	78	58	47	51
9	108	98	102	---	---	---	78	76	77	47	44	45
10	110	104	107	---	---	---	79	77	78	46	43	44
11	108	103	106	---	---	---	81	74	77	46	43	45
12	107	102	104	---	---	---	80	74	77	43	42	43
13	109	104	106	---	---	---	79	75	77	43	41	42
14	118	109	112	---	---	---	81	78	80	42	41	42
15	---	---	---	---	---	---	85	74	78	42	41	41
16	---	---	---	---	---	---	93	82	86	42	41	41
17	---	---	---	---	---	---	92	77	81	42	40	41
18	94	90	93	---	---	---	84	80	82	52	42	44
19	92	88	90	---	---	---	83	79	81	45	43	43
20	90	86	88	---	---	---	80	77	78	55	44	47
21	86	82	84	---	---	---	80	75	77	44	41	42
22	85	73	76	---	---	---	81	76	79	45	41	42
23	77	71	74	---	---	---	83	81	82	45	42	44
24	85	77	82	---	---	---	82	78	80	45	42	44
25	85	80	82	---	---	---	82	76	80	43	41	42
26	87	82	85	---	---	---	76	70	72	52	41	43
27	90	84	87	---	---	---	74	70	72	52	41	42
28	88	81	84	---	---	---	74	69	72	52	41	43
29	89	86	87	110	104	107	87	73	78	47	43	43
30	87	79	84	106	97	102	92	80	87	59	48	55
31	---	---	---	100	75	81	80	62	71	---	---	---
MONTH	118	71	92	110	73	83	93	62	78	60	40	46
Period	130	34	63									

PH (STANDARD UNITS), WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982

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

ST. CROIX RIVER BASIN

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

PH (STANDARD UNITS), WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982

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

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

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

TEMPERATURE, WATER (DEG. C), WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982

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

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
FEBRUARY			MARCH			APRIL			MAY			
1	---	---	---	1.0	.0	.0	3.0	1.5	2.0	---	---	---
2	---	---	---	.5	.5	.5	4.0	2.0	3.0	---	6.5	---
3	---	---	---	---	---	---	3.5	3.0	3.5	---	---	---
4	.0	.0	.0	---	---	---	---	---	---	---	---	---
5	.0	.0	.0	---	---	---	---	---	---	---	---	---
6	---	---	---	---	---	---	---	---	---	---	---	---
7	---	---	---	---	---	---	---	---	---	---	---	---
8	---	---	---	---	---	---	---	---	---	---	---	---
9	---	---	---	---	---	---	---	---	---	---	---	---
10	---	---	---	---	---	---	---	---	---	---	---	---
11	---	---	---	---	---	---	---	---	---	---	---	---
12	---	---	---	---	---	---	---	---	---	---	---	---
13	---	---	---	.0	.0	.0	4.0	2.0	3.0	---	---	---
14	---	---	---	.5	.0	.0	---	---	---	---	---	---
15	---	---	---	.5	.0	.0	4.0	1.5	2.5	---	---	---
16	---	---	---	.5	.0	.0	4.5	2.0	3.0	---	---	---
17	---	---	---	.5	.0	.5	---	---	---	---	---	---
18	---	---	---	1.0	.0	.5	---	---	---	---	---	---
19	---	---	---	1.0	.0	.5	---	---	---	14.5	13.5	14.0
20	---	---	---	1.0	.5	1.0	---	---	---	15.5	14.0	14.5
21	---	---	---	1.5	.5	1.0	---	---	---	15.0	14.0	14.5
22	---	---	---	1.0	.0	.5	---	---	---	16.0	14.5	15.0
23	---	---	---	1.5	.5	1.0	---	---	---	16.0	14.5	15.5
24	---	---	---	2.0	.5	1.0	---	---	---	16.0	14.0	15.0
25	---	---	---	2.5	.5	1.5	---	---	---	14.0	13.5	14.0
26	---	---	---	1.5	1.0	1.5	---	---	---	17.5	14.0	15.5
27	.0	.0	.0	1.5	.5	1.0	---	---	---	18.5	17.0	17.5
28	.0	.0	.0	1.0	.0	.5	---	---	---	17.5	16.5	17.0
29	---	---	---	2.0	.0	1.0	---	---	---	17.5	16.5	17.5
30	---	---	---	2.5	.5	1.5	---	---	---	20.0	17.5	18.5
31	---	---	---	2.0	.5	1.5	---	---	---	---	---	---
MONTH	.0	.0	.0	2.5	.0	.5	4.5	1.5	3.0	20.0	6.5	15.5

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

TEMPERATURE, WATER (DEG. C), WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
	JUNE			JULY			AUGUST			SEPTEMBER		
1	---	---	---	19.5	18.0	18.5	24.0	21.5	22.5	19.0	17.5	18.5
2	---	---	---	19.5	18.0	18.5	23.0	21.5	22.5	19.0	17.5	18.0
3	---	---	---	19.5	17.5	18.5	23.5	21.5	22.5	19.0	17.5	18.0
4	---	---	---	20.0	18.0	19.0	23.5	22.0	22.5	18.5	17.5	18.0
5	---	---	---	20.5	18.5	19.5	23.0	21.0	21.5	19.0	17.5	18.0
6	---	---	---	20.5	19.0	20.0	22.0	20.5	21.0	19.5	18.0	18.5
7	---	---	---	22.5	20.0	21.0	22.5	21.0	21.5	19.5	18.5	18.5
8	19.0	16.5	17.5	23.0	21.0	22.0	22.0	20.5	21.0	18.5	17.5	18.0
9	19.0	17.5	18.5	---	---	---	21.0	20.5	20.5	18.5	17.0	17.5
10	20.0	18.0	19.0	---	---	---	22.5	20.0	21.0	19.5	18.5	19.0
11	20.0	18.5	19.0	---	---	---	22.5	21.0	22.0	20.5	19.0	19.5
12	19.5	17.5	18.5	---	---	---	22.0	20.5	21.5	21.0	19.5	20.5
13	19.0	16.5	17.5	---	---	---	22.0	20.5	21.0	21.0	19.0	20.0
14	16.5	16.0	16.0	---	---	---	22.0	20.5	21.0	20.5	19.0	20.0
15	---	---	---	---	---	---	22.5	20.5	21.5	20.5	18.5	19.5
16	---	---	---	---	---	---	23.5	22.0	22.5	19.0	18.0	18.5
17	---	---	---	---	---	---	23.5	22.0	23.0	19.5	18.5	19.0
18	19.0	17.5	18.0	---	---	---	23.0	21.5	22.5	19.0	18.5	19.0
19	20.0	18.5	19.0	---	---	---	23.5	21.5	22.5	19.0	18.0	18.5
20	20.0	18.0	19.0	---	---	---	23.0	22.0	22.5	18.5	17.0	18.0
21	19.0	18.0	18.5	---	---	---	23.0	21.5	22.0	18.5	17.5	17.5
22	20.0	17.5	19.0	---	---	---	22.0	20.0	21.0	17.5	16.5	17.0
23	20.0	17.5	18.0	---	---	---	21.0	20.5	21.0	16.5	16.5	16.5
24	19.0	17.0	18.0	---	---	---	21.0	20.0	20.5	17.5	16.0	16.5
25	19.0	17.5	18.0	---	---	---	20.5	20.0	20.0	17.5	16.0	17.0
26	18.5	17.5	18.0	---	---	---	21.0	19.0	19.5	17.5	16.0	17.0
27	20.5	18.0	19.0	---	---	---	20.5	19.0	20.0	17.0	16.0	16.5
28	20.5	19.0	19.5	---	---	---	20.5	18.5	19.5	17.0	16.5	17.0
29	20.0	18.0	19.0	22.5	21.5	22.0	19.5	18.0	18.5	17.0	16.0	16.5
30	19.5	17.5	18.5	23.5	21.0	22.0	19.5	17.5	18.5	17.0	16.5	16.5
31	---	---	---	24.0	22.0	23.0	19.0	17.5	18.5	---	---	---
MONTH	20.5	16.0	18.5	24.0	17.5	20.5	24.0	17.5	21.0	21.0	16.0	18.0
Period	24.0	.0	9.5									

OXYGEN, DISSOLVED (DO), MG/L, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
	OCTOBER			NOVEMBER			DECEMBER			JANUARY		
1	10.7	10.5	10.6	11.4	11.4	11.4	12.9	12.7	12.8	12.4	12.1	12.2
2	10.6	10.5	10.5	11.4	11.0	11.3	13.1	12.8	12.9	12.5	12.0	12.2
3	10.7	10.5	10.6	11.3	11.0	11.2	13.1	12.9	13.0	12.5	11.9	12.3
4	10.9	10.7	10.8	11.3	11.2	11.2	13.1	12.8	13.0	11.9	11.7	11.9
5	10.8	10.7	10.8	11.3	11.1	11.2	13.1	12.9	13.0	11.7	11.3	11.5
6	10.8	10.7	10.8	11.3	11.1	11.2	13.0	12.7	12.8	12.0	11.8	11.9
7	10.8	10.6	10.7	11.1	10.9	11.0	12.9	12.7	12.7	11.8	11.7	11.8
8	10.5	10.5	10.5	11.3	11.0	11.2	12.7	12.6	12.7	11.8	11.7	11.7
9	11.0	10.5	10.7	11.4	11.2	11.3	12.6	12.6	12.6	11.8	11.6	11.7
10	---	---	---	11.6	11.3	11.5	12.7	12.6	12.6	11.7	11.6	11.7
11	---	---	---	11.5	11.3	11.4	12.8	12.6	12.7	11.7	11.5	11.6
12	---	---	---	11.9	11.3	11.7	12.9	12.7	12.8	11.6	11.5	11.6
13	---	---	---	12.1	11.9	12.0	13.2	12.9	13.1	11.7	11.6	11.6
14	---	---	---	12.0	11.9	11.9	13.3	13.1	13.2	11.6	11.5	11.6
15	---	---	---	11.9	11.8	11.8	13.2	13.0	13.1	11.5	11.2	11.4
16	---	---	---	11.8	11.8	11.8	13.1	12.7	12.9	11.3	11.1	11.2
17	---	---	---	11.8	11.7	11.8	13.1	12.8	13.0	11.3	11.1	11.2
18	---	---	---	11.8	11.6	11.7	13.2	13.0	13.1	11.3	11.0	11.2
19	---	---	---	11.8	11.5	11.7	13.0	12.9	12.9	11.2	10.9	11.0
20	---	---	---	12.1	11.8	11.9	13.0	12.8	12.9	11.1	11.0	11.0
21	---	---	---	12.0	11.9	11.9	13.1	12.8	13.0	11.3	11.1	11.3
22	---	---	---	12.2	11.9	12.0	13.0	12.6	12.8	11.3	11.3	11.3
23	---	---	---	12.3	12.1	12.2	12.7	12.5	12.7	11.3	10.8	11.1
24	---	---	---	12.4	12.3	12.4	12.8	12.5	12.6	10.9	10.7	10.8
25	---	---	---	12.6	12.4	12.5	12.8	12.7	12.8	11.0	10.7	10.9
26	10.5	10.4	10.4	12.8	12.6	12.7	12.9	12.4	12.7	11.3	11.0	11.1
27	10.3	10.2	10.3	12.9	12.6	12.8	12.6	12.5	12.5	11.4	11.0	11.3
28	10.4	10.1	10.2	12.7	12.6	12.7	12.5	12.2	12.4	---	---	---
29	11.0	10.4	10.8	12.9	12.7	12.8	12.2	12.2	12.2	---	---	---
30	11.2	10.9	11.0	13.0	12.8	12.9	12.3	12.2	12.3	---	---	---
31	11.6	11.3	11.4	---	---	---	12.5	12.2	12.3	---	---	---
MONTH	11.6	10.1	10.7	13.0	10.9	11.8	13.3	12.2	12.8	12.5	10.7	11.5

OXYGEN, DISSOLVED (DO), MG/L, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
FEBRUARY				MARCH			APRIL			MAY		
1	---	---	---									
2	---	---	---									
3	12.6	12.2	12.4									
4	12.4	12.2	12.3									
5	12.5	12.0	12.3									
6	---	---	---									
7	---	---	---									
8	---	---	---									
9	---	---	---									
10	---	---	---									
11	---	---	---									
12	---	---	---									
13	---	---	---									
14	---	---	---									
15	---	---	---									
16	---	---	---									
17	---	---	---									
18	---	---	---									
19	---	---	---									
20	---	---	---									
21	---	---	---									
22	---	---	---									
23	---	---	---									
24	---	---	---									
25	---	---	---									
26	---	---	---									
27	---	---	---									
28	---	---	---									
29	---	---	---									
30	---	---	---									
31	---	---	---									
MONTH	12.6	12.0	12.3									

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
JUNE				JULY			AUGUST			SEPTEMBER		
1	---	---	---	9.0	7.4	7.8	6.2	5.9	6.0	---	---	---
2	---	---	---	8.1	7.7	7.9	6.4	6.0	6.2	---	---	---
3	---	---	---	8.1	7.7	7.9	6.5	6.2	6.3	---	---	---
4	---	---	---	8.0	7.6	7.8	6.7	6.2	6.4	---	---	---
5	---	---	---	8.0	7.4	7.7	6.5	6.2	6.3	---	---	---
6	---	---	---	7.9	7.3	7.5	6.8	6.4	6.5	---	---	---
7	---	---	---	7.7	7.2	7.4	7.0	6.6	6.8	---	---	---
8	---	---	---	7.5	7.1	7.2	6.9	6.6	6.7	---	---	---
9	---	---	---	---	---	---	7.1	6.8	6.9	---	---	---
10	---	---	---	---	---	---	7.2	6.9	7.0	---	---	---
11	---	---	---	---	---	---	7.2	6.8	7.0	---	---	---
12	---	---	---	---	---	---	7.3	7.0	7.1	---	---	---
13	---	---	---	---	---	---	7.3	7.0	7.2	---	---	---
14	---	---	---	---	---	---	7.3	6.9	7.1	---	---	---
15	---	---	---	---	---	---	7.3	7.0	7.1	---	---	---
16	---	---	---	---	---	---	7.4	6.9	7.1	---	---	---
17	---	---	---	---	---	---	7.4	6.9	7.1	---	---	---
18	8.1	7.7	7.9	---	---	---	---	---	---	8.6	8.0	8.3
19	8.2	7.6	7.8	---	---	---	---	---	---	8.6	8.0	8.3
20	8.0	7.4	7.7	---	---	---	---	---	---	8.8	8.0	8.5
21	8.1	7.5	7.8	---	---	---	---	---	---	8.9	8.5	8.7
22	8.8	7.5	7.8	---	---	---	---	---	---	9.1	8.6	8.8
23	7.8	7.4	7.6	---	---	---	---	---	---	9.1	8.7	8.9
24	7.8	7.3	7.5	---	---	---	---	---	---	9.3	8.8	9.0
25	7.9	7.3	7.5	---	---	---	---	---	---	9.3	8.8	9.0
26	7.7	7.2	7.4	---	---	---	---	---	---	9.3	8.8	9.0
27	7.8	7.3	7.5	---	---	---	---	---	---	9.2	8.8	9.0
28	7.7	7.2	7.4	---	---	---	---	---	---	9.0	8.6	8.8
29	7.5	6.9	7.2	6.1	5.7	5.9	---	---	---	9.0	8.8	8.9
30	7.8	7.2	7.5	6.2	5.9	6.0	---	---	---	9.4	8.9	9.1
31	---	---	---	6.3	5.8	6.0	---	---	---	---	---	---
MONTH	8.8	6.9	7.6	9.0	5.7	7.2	7.4	5.9	6.8	9.4	8.0	8.6
Period	13.3	5.7	10.4									

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.--92.9 mi² (240.6 km²), revised.

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

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

REMARKS.--Records good except those for winter period, which are fair. No gage-height record Dec. 18 to Jan. 26. 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.--27 years, 196 ft³/s (5.551 m³/s), 28.65 in/yr (728 mm/yr).

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

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

Date	Time	Discharge (ft ³ /s) (m ³ /s)	Gage height (ft) (m)	Date	Time	Discharge (ft ³ /s) (m ³ /s)	Gage height (ft) (m)
Dec. 3	0400	1200 34.0	4.88 1.487	Apr. 1	2400	* 1210 34.3	4.92 1.500
Dec. 7	0200	921 26.1	4.23 1.289	Apr. 18	2000	1160 32.9	4.81 1.466
Jan. 5	--	950 26.9	-- --	Apr. 27	2400	820 23.2	3.98 1.213

Minimum discharge, 58 ft³/s (1.64 m³/s) Aug. 23, gage height, 0.94 ft (0.287 m).

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	132	196	240	165	135	76	902	532	138	253	97	71
2	134	178	436	160	140	75	1130	480	164	166	85	108
3	219	166	1070	185	165	74	865	447	328	124	78	156
4	226	155	869	220	304	73	930	301	242	103	71	150
5	191	148	685	900	360	72	1120	214	172	91	67	120
6	165	151	745	780	315	72	863	195	146	83	68	97
7	162	194	887	700	280	72	632	166	131	81	66	83
8	175	241	786	600	240	73	508	152	121	81	63	75
9	168	241	684	530	210	75	455	144	114	79	62	70
10	153	205	593	470	180	77	489	139	110	77	108	67
11	141	178	538	420	160	80	496	148	106	74	103	75
12	132	164	504	390	150	83	523	160	111	72	81	87
13	125	152	469	360	140	125	498	157	115	71	115	87
14	121	144	438	335	130	255	540	156	121	70	146	85
15	117	142	431	310	120	309	556	139	135	68	113	84
16	115	157	615	290	115	268	554	127	132	67	87	84
17	113	209	724	270	110	242	694	121	137	64	73	83
18	110	354	500	250	100	216	1070	115	133	64	67	80
19	138	450	390	240	98	196	1040	112	125	63	65	78
20	167	369	330	220	94	196	838	115	124	71	63	76
21	149	614	290	210	91	200	737	120	122	152	64	77
22	134	618	260	200	88	203	781	114	113	315	60	85
23	125	523	245	190	85	189	720	108	135	348	58	112
24	275	465	225	180	83	178	689	104	215	244	112	104
25	353	414	215	175	81	182	666	112	175	157	143	81
26	273	381	205	165	79	233	664	115	138	116	234	68
27	366	358	195	160	78	340	742	109	122	91	209	63
28	463	346	190	155	77	308	808	103	108	79	145	66
29	409	341	180	150	---	273	722	129	104	166	107	66
30	297	331	175	145	---	245	611	143	281	170	85	61
31	232	---	170	137	---	283	---	140	---	124	75	---
TOTAL	6080	8585	14284	9662	4208	5343	21843	5417	4418	3784	2970	2599
MEAN	196	286	461	312	150	172	728	175	147	122	95.8	86.6
MAX	463	618	1070	900	360	340	1130	532	328	348	234	156
MIN	110	142	170	137	77	72	455	103	104	63	58	61
CFSM	2.11	3.08	4.96	3.36	1.62	1.85	7.84	1.88	1.58	1.31	1.03	.93
IN.	2.43	3.44	5.72	3.87	1.68	2.14	8.75	2.17	1.77	1.52	1.19	1.04

CAL YR 1981 TOTAL 89313 MEAN 245 MAX 1270 MIN 48 CFSM 2.64 IN 35.76
WTR YR 1982 TOTAL 89193 MEAN 244 MAX 1130 MIN 58 CFSM 2.63 IN 35.72

01022260 PLEASANT RIVER NEAR EPPING, ME

LOCATION.--Lat. 44°41'52", long. 67°47'16", Washington County, Hydrologic Unit 01050002, on right bank at Saco Falls, 100 ft (30 m) upstream from East Base Road bridge in Columbia, 0.6 mi (1.0 km) upstream from the junction of North Branch Pleasant River, and 1.6 mi (2.6 km) northeast of the village of Epping.

DRAINAGE AREA.--60.6 mi² (157 km²).

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

GAGE.--Water-stage recorder. Datum of gage is 127.02 ft (38.7 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.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 948 ft³/s (26.8 m³/s) Apr. 2, 1982, gage height, 9.82 ft (2.993 m); minimum, 17 ft³/s (0.48 m³/s) Sept. 10, 1980, gage height 4.99 ft (1.521 m).

EXTREMES FOR CURRENT YEAR.--Peak discharges above base of 440 ft³/s (12.5 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)
Dec. 05	0745	511 14.5	8.17 2.490	Apr. 05	1815	894 25.3	9.63 2.935
Dec. 08	1945	508 14.4	8.16 2.487	Apr. 09	1845	567 16.1	8.41 2.563
Jan. 22	0730	ice jam	*13.44 4.097	Apr. 20	1900	500 14.2	8.13 2.478
Apr. 02	1915	* 948 26.8	9.82 2.993				

Minimum discharge 28 ft³/s (0.793 m³/s) July 19,20, gage height 5.23 ft (1.594 m).

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	210	262	144	98	84	58	440	377	62	168	71	47
2	160	222	203	97	100	57	748	333	74	145	63	55
3	182	188	312	120	130	56	806	293	148	96	57	96
4	200	164	411	145	250	55	746	257	177	74	51	106
5	208	147	498	200	230	54	815	231	143	62	45	95
6	197	139	472	280	200	54	751	207	109	52	43	72
7	187	159	455	350	175	54	471	187	93	45	42	66
8	174	184	489	310	160	53	410	169	82	44	40	57
9	183	195	488	275	150	54	517	156	76	41	39	52
10	174	186	434	250	140	56	529	141	69	38	47	48
11	168	166	384	230	130	64	444	135	64	36	57	45
12	174	148	339	210	120	85	375	127	61	34	49	43
13	167	136	294	195	115	120	346	121	58	33	50	43
14	151	127	252	180	110	200	341	115	61	33	81	41
15	135	122	219	170	100	260	346	110	75	31	81	39
16	124	126	235	155	96	230	355	106	57	30	64	38
17	120	143	269	150	91	210	359	102	53	29	52	39
18	114	180	270	140	87	200	375	95	63	30	46	37
19	123	215	280	135	83	185	426	80	62	29	43	34
20	155	215	250	130	79	180	491	84	61	31	40	33
21	162	279	210	120	76	210	480	101	64	53	40	33
22	146	295	180	115	73	200	466	99	58	78	41	36
23	130	328	150	110	71	185	458	89	56	101	38	48
24	126	328	140	110	68	180	447	82	69	111	43	54
25	169	293	125	105	66	170	415	84	68	84	96	51
26	187	252	120	99	64	225	379	89	66	65	139	45
27	214	217	110	96	62	310	368	83	61	55	156	42
28	249	192	110	93	59	300	384	75	53	49	148	43
29	283	175	105	90	---	310	418	72	51	83	110	44
30	304	163	100	87	---	270	415	71	116	117	80	42
31	296	---	100	84	---	271	---	65	---	94	55	---
TOTAL	5572	5946	8148	4929	3169	4925	14321	4336	2310	1971	2007	1524
MEAN	180	198	263	159	113	159	477	140	77.0	63.6	64.7	50.8
MAX	304	328	498	350	250	310	815	377	177	168	156	106
MIN	114	122	100	84	59	53	341	65	51	29	38	33
CFSM	2.97	3.27	4.34	2.62	1.87	2.62	7.87	2.31	1.27	1.05	1.07	.84
IN.	3.42	3.65	5.00	3.03	1.95	3.02	8.79	2.66	1.42	1.21	1.23	.94

CAL YR 1981	TOTAL	60862	MEAN 167	MAX 790	MIN 41	CFSM 2.76	IN 37.36
WTR YR 1982	TOTAL	59158	MEAN 162	MAX 815	MIN 29	CFSM 2.67	IN 36.31

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.--227 mi² (588 km²), revised.

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.--34 years, 502 ft³/s (14.22 m³/s), 30.03 in/yr (763 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)
Dec. 3	0500	2280 64.6	11.86 3.615	Apr. 1	2200	* 4200 119	13.67 4.167
Jan. 5	1700	2240 63.4	11.82 3.603	Apr. 19	2100	2530 71.6	12.13 3.697

Minimum discharge, 29 ft³/s (0.82 m³/s) July 15, gage height, 7.01 ft (2.137 m), caused by unusual regulation.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	535	802	454	350	315	190	3500	1080	201	488	225	171
2	500	678	1070	335	320	190	3800	916	250	343	204	214
3	938	593	2150	350	400	185	3100	799	587	275	188	406
4	1110	528	1900	455	550	185	3500	707	517	229	156	398
5	979	477	1570	1950	800	180	3700	641	410	195	144	313
6	772	465	1530	1850	720	180	2400	587	345	183	132	252
7	651	590	1870	1500	630	180	1700	541	289	157	124	209
8	605	733	1860	1300	550	185	1350	500	250	143	118	176
9	550	732	1640	1100	485	190	1200	464	222	132	133	154
10	498	657	1290	980	435	195	1100	443	201	123	139	144
11	451	572	1030	880	390	200	1150	423	184	113	150	135
12	410	523	889	800	360	215	1200	397	171	107	143	127
13	379	471	764	740	330	240	1250	373	163	105	152	122
14	353	432	656	680	310	600	1300	356	174	102	218	117
15	341	416	618	640	290	800	1400	342	196	80	196	114
16	329	437	927	600	270	700	1500	327	184	91	168	113
17	315	527	1170	560	260	610	1600	321	185	90	147	117
18	296	830	996	525	250	560	1900	299	194	87	131	117
19	396	1110	790	500	235	520	2360	280	185	85	116	114
20	570	997	650	465	225	490	2410	293	185	100	105	109
21	543	1570	570	445	220	510	2060	370	182	229	99	106
22	478	1540	530	425	215	505	2040	366	166	269	93	106
23	421	1260	500	405	210	480	2040	314	161	335	82	117
24	507	989	475	390	205	450	1760	282	173	324	92	132
25	646	790	455	375	200	430	1460	286	162	267	266	143
26	648	668	440	360	200	690	1290	282	158	220	514	143
27	1020	589	420	345	200	1300	1460	263	152	179	549	133
28	1380	557	410	335	195	1170	1800	240	139	159	423	127
29	1460	538	390	325	---	1040	1670	226	147	290	312	124
30	1270	498	375	315	---	961	1340	218	481	328	241	119
31	1010	---	365	310	---	1080	---	211	---	270	198	---
TOTAL	20361	21569	28754	20590	9770	15411	58340	13147	7014	6098	5958	4872
MEAN	657	719	928	664	349	497	1945	424	234	197	192	162
MAX	1460	1570	2150	1950	800	1300	3800	1080	587	488	549	406
MIN	296	416	365	310	195	180	1100	211	139	80	82	106
CFSM	2.89	3.17	4.09	2.93	1.54	2.19	8.57	1.87	1.03	.87	.85	.71
IN.	3.34	3.53	4.71	3.37	1.60	2.53	9.56	2.15	1.15	1.00	.98	.80

CAL YR 1981	TOTAL	206603	MEAN	566	MAX	2160	MIN	127	CFSM	2.49	IN	33.86
WTR YR 1982	TOTAL	211884	MEAN	581	MAX	3800	MIN	80	CFSM	2.56	IN	34.72

01022500 NARRAGUAGUS RIVER AT CHERRYFIELD, ME--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 1954, 1978 to current year.

PERIOD OF DAILY RECORD.--

SPECIFIC CONDUCTANCE: January 1978 to September 1981.

WATER TEMPERATURES: January 1978 to September 1981.

INSTRUMENTATION.--Water-quality monitor January 1978 to September 1981.

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

EXTREMES FOR PERIOD OF DAILY RECORD.--

SPECIFIC CONDUCTANCE: Maximum, 49 micromhos Aug. 29, 1978, Aug. 19, 24, Sept. 7, 1980; minimum, 17 micromhos Feb. 18, 19, 1981.

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

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982

DATE	TIME	STREAM- FLOW, INSTAN- TANEOUS (CFS)	SPE- CIFIC CON- DUCT- ANCE (UMHOS)	SPE- CIFIC CON- DUCT- ANCE (UMHOS)	PH (UNITS)	TEMPER- ATURE, AIR (DEG C)	TEMPER- ATURE (DEG C)	TUR- BID- ITY (FTU)	OXYGEN, DIS- SOLVED (MG/L)	COLI- FORM, FECAL, 0.7 UM-MF (COLS./ 100 ML)	STREP- TOCOCCI FECAL, KF AGAR (COLS. PER 100 ML)
OCT 20...	1800	576	25	23	6.2	7.0	9.0	2.3	11.2	37	25
DEC 14...	1430	649	23	19	6.0	3.0	.5	1.5	14.5	K10	K3
MAR 04...	1700	185	30	44	6.5	1.0	.0	1.2	13.6	K9	K1
APR 29...	1715	1610	20	19	6.3	13.5	9.5	2.4	11.6	K6	K10
JUN 18...	0900	194	32	34	6.7	21.0	17.5	2.1	9.4	120	160
AUG 19...	1045	117	36	35	6.7	26.0	22.5	2.4	8.0	K78	160

DATE	HARD- NESS (MG/L AS CACO3)	HARD- NESS NONCAR- BONATE (MG/L AS CACO3)	CALCIUM DIS- SOLVED (MG/L AS CA)	MAGNE- SIUM, DIS- SOLVED (MG/L AS MG)	SODIUM, DIS- SOLVED (MG/L AS NA)	POTAS- SIUM, DIS- SOLVED (MG/L AS K)	ALKA- LINITY LAB (MG/L AS CACO3)	SULFATE DIS- SOLVED (MG/L AS SO4)	CHLO- RIDE, DIS- SOLVED (MG/L AS CL)	FLUO- RIDE, DIS- SOLVED (MG/L AS F)	SILICA, DIS- SOLVED (MG/L AS SiO2)
OCT 20...	7	.00	1.9	.5	3.7	.4	7.0	4.3	3.0	.1	6.8
DEC 14...	6	.00	1.6	.4	2.1	.3	6.0	3.5	2.3	<.1	6.1
MAR 04...	8	1.0	2.0	.7	2.3	.5	7.0	3.8	2.9	.1	7.9
APR 29...	5	.00	1.3	.4	1.8	.3	5.0	3.0	1.9	<.1	4.1
JUN 18...	7	.00	1.9	.5	2.6	.4	9.0	3.0	2.4	.2	3.9
AUG 19...	10	.00	2.9	.7	4.0	.4	9.0	3.0	3.1	.1	5.8

K RESULTS BASED ON COLONY COUNT OUTSIDE THE ACCEPTABLE RANGE (NON-IDEAL COLONY COUNT).

01022500 NARRAGUAGUS RIVER AT CHERRYFIELD, ME--Continued

CHEMICAL ANALYSFS, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982

DATE	SOLIDS, RESIDUE AT 180 DEG. C DIS-SOLVED (MG/L)	SOLIDS, SUM OF CONSTITUENTS, DIS-SOLVED (MG/L)	SOLIDS, DIS-SOLVED (TONS PER AC-FT)	SOLIDS, DIS-SOLVED (TONS PER DAY)	NITRO-GEN, NO2+NO3 DIS-SOLVED (MG/L AS N)	NITRO-GEN, AMMONIA DIS-SOLVED (MG/L AS N)	NITRO-GEN, AMMONIA DIS-SOLVED (MG/L AS NH4)	NITRO-GEN, AMMONIA + ORGANIC TOTAL (MG/L AS N)	PHOS-PHORUS, TOTAL (MG/L AS P)	PHOS-PHORUS, TOTAL (MG/L AS P04)	PHOS-PHORUS, DIS-SOLVED (MG/L AS P)
OCT 20...	42	25	.06	65.3	.07	.030	.04	.32	.010	.03	<.010
DEC 14...	33	17	.04	57.8	.09	<.010	.01	.27	.010	.03	.050
MAR 04...	28	25	.04	14.0	.12	.050	.06	.36	<.010	--	<.010
APR 29...	22	16	.03	95.6	<.10	.040	.05	1.20	.060	.18	.050
JUN 18...	29	20	.04	15.2	.12	.110	.14	.40	.020	.06	<.010
AUG 19...	42	30	.06	13.3	.11	.060	.08	.40	.020	.06	<.010

DATE	PHOS-PHORUS, ORTHO, DIS-SOLVED (MG/L AS P)	ARSENIC TOTAL (UG/L AS AS)	ARSENIC DIS-SOLVED (UG/L AS AS)	BARIIUM, TOTAL RECOV-ERABLE (UG/L AS BA)	BARIIUM, DIS-SOLVED (UG/L AS BA)	CADMIUM, TOTAL RECOV-ERABLE (UG/L AS CD)	CADMIUM, DIS-SOLVED (UG/L AS CD)	CHRO-MIUM, TOTAL RECOV-ERABLE (UG/L AS CR)	CHRO-MIUM, DIS-SOLVED (UG/L AS CR)	COBALT, TOTAL RECOV-ERABLE (UG/L AS CO)	COBALT, DIS-SOLVED (UG/L AS CO)
OCT 20...	<.010	1	1	100	40	<1	1	20	10	7	<1
DEC 14...	<.010	--	--	--	--	--	--	--	--	--	--
MAR 04...	<.010	1	<1	<100	5	1	2	10	<10	<1	<1
APR 29...	<.010	2	1	<100	10	<1	1	20	10	<1	<1
JUN 18...	<.010	--	--	--	--	--	--	--	--	--	--
AUG 19...	.010	2	2	<100	8	1	<1	10	10	2	1

DATE	COPPER, TOTAL 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, DIS-SOLVED (UG/L AS PB)	MANGA-NESE, TOTAL RECOV-ERABLE (UG/L AS MN)	MANGA-NESE, DIS-SOLVED (UG/L AS MN)	MERCURY, TOTAL RECOV-ERABLE (UG/L AS HG)	MERCURY, DIS-SOLVED (UG/L AS HG)	NICKEL, TOTAL RECOV-ERABLE (UG/L AS NI)
OCT 20...	36	3	560	250	24	3	20	13	.1	<.1	2
DEC 14...	--	--	--	--	--	--	--	--	--	--	--
MAR 04...	5	2	280	210	6	2	10	11	.1	<.1	<1
APR 29...	7	4	260	110	8	3	20	10	<.1	<.1	1
JUN 18...	--	--	--	--	--	--	--	--	--	--	--
AUG 19...	6	3	630	300	4	2	40	19	1.4	.8	4

DATE	NICKEL, DIS-SOLVED (UG/L AS NI)	SELE-NIUM, TOTAL (UG/L AS SE)	SELE-NIUM, DIS-SOLVED (UG/L AS SE)	SILVER, TOTAL RECOV-ERABLE (UG/L AS AG)	SILVER, DIS-SOLVED (UG/L AS AG)	ZINC, TOTAL RECOV-ERABLE (UG/L AS ZN)	ZINC, DIS-SOLVED (UG/L AS ZN)	SEDI-MENT, SUS-PENDED (MG/L)	SEDI-MENT, DIS-CHARGE, SUS-PENDED (T/DAY)	SEN-SUP, SIEVE DIAM. % FINER THAN .062 MM
OCT 20...	<1	<1	<1	<1	<1	70	16	12	19	20
DEC 14...	--	--	--	--	--	--	--	2	3.5	100
MAR 04...	<1	<1	<1	<1	<1	20	9	--	--	--
APR 29...	1	<1	<1	<1	<1	20	9	8	35	76
JUN 18...	--	--	--	--	--	--	--	10	5.2	89
AUG 19...	2	<1	<1	<1	<1	50	<4	8	2.5	92

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.--9.79 mi² (25.36 km²), revised.

PERIOD OF RECORD.--August 1964 to September 1982 (discontinued).

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.--18 years, 22.3 ft³/s (0.632 m³/s), 30.93 in/yr (786 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 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)
Dec. 02	2145	215 6.09	6.56 1.999	Apr. 07	1800	ice jam	* 9.63 2.935
Jan. 05	1515	163 4.62	6.00 1.829	Apr. 18	1030	203 5.75	6.44 1.963
Apr. 01	1430	* 332 9.40	7.64 2.329				

Minimum discharge, 1.1 ft³/s (0.031 m³/s) Aug. 23,24, gage height, 2.58 ft (0.786 m).

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	12	29	17	14	9.5	6.6	291	31	8.0	16	3.9	2.2
2	13	26	91	15	10	6.4	191	27	31	7.5	3.3	6.2
3	25	23	135	17	27	6.3	98	25	60	5.2	2.9	7.1
4	22	21	68	20	55	6.3	242	37	25	4.1	2.6	4.9
5	17	19	45	129	39	6.3	163	37	16	3.3	2.3	3.4
6	13	21	80	103	32	6.5	82	27	13	2.8	2.3	2.8
7	16	36	124	69	25	6.6	70	23	9.9	2.7	2.2	2.3
8	19	54	72	47	20	6.7	55	20	8.4	2.5	2.0	1.9
9	17	34	49	35	17	6.8	45	18	7.3	2.3	2.2	1.9
10	14	25	39	28	15	7.0	41	17	6.6	2.1	4.1	1.9
11	12	22	34	22	14	7.4	40	16	5.6	2.2	3.4	2.4
12	11	21	30	19	13	8.2	47	14	5.2	2.3	2.7	3.0
13	9.7	19	25	16	12	12	47	14	4.9	2.2	2.8	3.1
14	9.0	17	24	14	11	19	65	13	6.9	2.2	3.3	3.1
15	8.6	18	23	13	10	33	64	12	8.4	1.9	2.8	3.0
16	8.2	23	55	12	9.7	25	69	12	6.8	1.7	2.3	3.1
17	8.4	33	48	12	9.2	20	104	11	7.3	1.7	1.9	3.4
18	7.6	61	34	11	8.9	19	193	9.4	7.5	1.5	1.8	3.3
19	38	66	28	10	8.7	21	138	9.2	5.9	1.4	1.6	3.1
20	31	40	24	10	8.4	24	103	29	5.9	1.9	1.4	3.0
21	20	75	20	9.8	8.1	30	108	72	5.9	5.2	1.3	2.8
22	16	54	19	9.6	7.8	29	116	30	5.2	4.6	1.2	3.3
23	14	37	18	9.4	7.6	24	72	20	5.2	5.5	1.1	4.6
24	45	29	17	9.3	7.4	23	67	15	7.5	4.1	5.2	5.3
25	41	25	16	9.2	7.2	26	61	16	5.6	2.9	7.5	5.0
26	33	23	16	9.1	7.1	45	56	15	5.0	2.5	21	5.3
27	95	22	15	9.1	7.0	81	73	12	5.2	2.1	9.2	5.0
28	107	21	15	9.1	6.8	51	68	9.7	4.1	2.2	5.2	6.2
29	75	21	14	9.0	---	36	48	8.8	4.9	19	3.6	8.2
30	45	19	14	9.0	---	35	37	8.8	40	8.6	2.7	7.5
31	34	---	14	9.1	---	53	---	8.6	---	5.0	2.5	---
TOTAL	836.5	934	1223	717.7	413.4	687.1	2854	617.5	338.2	129.2	112.3	118.3
MEAN	27.0	31.1	39.5	23.2	14.8	22.2	95.1	19.9	11.3	4.17	3.62	3.94
MAX	107	75	135	129	55	81	291	72	60	19	21	8.2
MTN	7.6	17	14	9.0	6.8	6.3	37	8.6	4.1	1.4	1.1	1.9
CFSM	2.76	3.18	4.04	2.37	1.51	2.27	9.71	2.03	1.15	.43	.37	.40
IN.	3.18	3.55	4.65	2.73	1.57	2.61	10.84	2.35	1.28	.49	.43	.45
CAL YR 1981	TOTAL	8569.3	MEAN	23.5	MAX	135	MIN	2.7	CFSM	2.40	IN	32.56
WTR YR 1982	TOTAL	8981.2	MEAN	24.6	MAX	291	MIN	1.1	CFSM	2.51	IN	34.12

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.--1,086 mi² (2,813 km²) including 249 mi² (645 km²) drained by Chamberlain Lake through Telos Canal.

PERIOD OF RECORD.--October 1902 to September 1982 (discontinued). Monthly discharge only for some periods, published in WSP 1301.

REVISED RECORDS.--WSP 1301: 1907-12, 1914-29(M). WDR ME-81-1: 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. No gage-height record Aug. 26 to Sept. 30. 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.--80 years, 1,949 ft³/s (55.19 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 (1914-82), 77 ft³/s (2.18 m³/s) Nov. 19, 1924.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 17,800 ft³/s (504 m³/s) Apr. 28, gage height, 11.79 ft (3.594 m); minimum daily, 319 ft³/s (9.03 m³/s) Aug. 23.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	5850	6560	2770	920	900	980	2920	10400	1830	856	459	565
2	5450	5870	2930	900	880	960	3690	9420	2000	765	415	545
3	5490	4680	3200	880	860	950	3530	8850	3580	687	386	670
4	5870	4150	3220	950	840	940	3370	8640	2890	652	367	765
5	5500	3900	3100	1050	1050	930	3220	8320	1940	621	375	700
6	5050	3760	2500	1400	2000	910	2640	8050	2120	595	400	630
7	4990	3850	3040	2400	1900	900	2530	7910	2120	575	418	600
8	6250	2690	3930	2200	1800	890	2400	7920	2020	552	409	560
9	6180	2230	3960	2100	1700	880	2210	7920	1360	531	396	725
10	5070	2080	3410	1950	1600	875	2080	7490	1090	513	497	750
11	4460	1960	2820	1850	1550	890	2010	7160	1010	495	598	573
12	4090	1890	2610	1750	1500	920	2010	6660	951	484	510	550
13	3830	2040	2160	1650	1450	980	2050	6070	896	477	446	525
14	3630	2050	1720	1590	1400	1080	2140	4800	880	923	427	510
15	3470	1980	1840	1500	1350	1500	2260	4340	900	1110	427	560
16	3340	1920	1730	1450	1300	1400	2450	4230	905	641	419	675
17	3210	1770	1890	1390	1260	1300	3070	4180	950	424	393	990
18	2310	2250	1980	1340	1230	1250	4840	4010	866	411	384	960
19	3430	3070	1640	1290	1200	1200	7790	3300	799	403	370	790
20	4170	3520	1500	1250	1180	1150	7680	3170	753	393	358	710
21	3270	3790	1400	1200	1150	1100	7280	3350	719	381	353	630
22	3060	5840	1300	1180	1120	1070	7980	2940	720	417	331	595
23	3180	5170	1200	1140	1100	1040	7940	2750	722	474	319	610
24	9790	4080	1150	1100	1070	1000	7690	2660	1110	430	320	600
25	11800	3710	1120	1060	1050	980	7910	2660	1160	397	330	600
26	9520	3330	1080	1300	1030	1020	10000	2690	929	381	1650	580
27	8170	3060	1030	1000	1000	1120	14100	2720	826	369	1880	565
28	7590	3140	1000	980	990	1400	17100	2570	772	363	1190	600
29	8430	3070	980	960	---	1700	13900	2140	796	542	930	755
30	8030	2880	960	940	---	2000	11800	1970	866	732	740	840
31	7180	---	940	920	---	2400	---	1900	---	550	625	---
TOTAL	171660	100290	64110	41590	35460	35715	170590	161190	38480	17144	17122	19728
MEAN	5537	3343	2068	1342	1266	1152	5686	5200	1283	553	552	658
MAX	11800	6560	3960	2400	2000	2400	17100	10400	3580	1110	1880	990
MTN	2310	1770	940	880	840	875	2010	1900	719	363	319	510
CAL YR 1981	TOTAL	983256	MEAN	2694	MAX	19000	MIN	653				
WTR YR 1982	TOTAL	873079	MEAN	2392	MAX	17100	MIN	319				

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. 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.--42 years, 5,791 ft³/s (164.0 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, 29,600 ft³/s (838 m³/s) Apr. 28, gage height, 9.47 ft (2.886 m); minimum daily, 2,200 ft³/s (62.3 m³/s) July 4.

DISCHARGE, IN CURIC FEET PER SECOND, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	13100	19200	7990	6300	5800	6200	5680	18300	6140	2950	3600	3300
2	13300	19100	8820	6080	5400	6200	8260	15800	6160	3000	3500	3650
3	13100	18000	7970	7060	5450	6500	8060	16200	7790	2600	3600	4000
4	12500	16200	8940	6530	5550	6100	8040	15200	7000	2200	3500	3700
5	12700	15000	8900	6520	6800	5800	8040	15100	6780	3500	3450	3850
6	11600	11700	8670	6890	6100	5800	7660	14400	6470	3800	3500	2550
7	12200	10900	9020	7070	6450	5400	7520	13800	6300	3450	3400	2800
8	13600	11600	10600	7260	5900	5800	7020	13700	6090	4100	2750	3700
9	13400	10900	10000	5880	6350	5350	6540	14100	5720	4400	2950	2700
10	12200	9230	9700	7740	6800	5750	6850	13500	5230	5000	3300	3500
11	11400	8280	8880	6000	6350	5400	6850	12900	5370	4200	3300	3400
12	10500	7070	8300	5900	6000	5150	6410	12700	4500	3650	3350	3500
13	9550	6890	7940	6100	6300	6600	7330	12400	4450	3450	2850	3350
14	9420	7190	6180	5900	6100	6300	7400	10000	4400	3000	3250	3400
15	8440	7500	6480	5600	5800	6000	7370	8980	4100	3250	3250	3400
16	9200	7370	6790	6100	6000	6090	7740	9140	4600	3500	3100	3450
17	8500	7830	7230	6300	6400	7030	8150	9230	5000	3750	3500	4700
18	7780	8590	7150	5500	6000	6290	11400	8820	4300	3700	3300	4700
19	9700	9250	7210	5000	6200	6350	14900	9580	4250	3200	2800	3800
20	10400	10700	6860	5600	6000	6860	14800	8590	4250	3350	3150	4150
21	9630	10400	6340	5200	6300	6590	14200	9830	4700	3350	3100	3000
22	8690	13100	7040	5500	5800	6030	15100	9170	4300	2750	3000	3800
23	9020	12200	6090	5450	5800	6680	14600	7600	4450	3400	3500	3150
24	17900	10600	5100	5420	5800	6130	14100	6580	4700	3700	2900	3700
25	23100	9660	4300	5400	5400	5950	13900	6860	4400	3400	3300	2600
26	19600	9560	4500	5550	5200	5550	15900	6240	2400	3500	4000	2700
27	17900	9030	4200	5800	6400	6390	21200	6380	2500	3450	4900	3300
28	19000	8490	4300	5450	5900	6620	27400	6810	2700	3800	4500	4000
29	20000	8580	5400	5400	---	5590	23500	5890	2600	3300	3600	4300
30	22100	7980	6470	5800	---	7200	20300	6130	2800	4200	3300	4000
31	19800	---	6270	5850	---	6630	---	5470	---	4000	3500	---
TOTAL	409330	322100	223640	186150	168350	190330	346220	329400	144450	108900	105000	106150
MEAN	13200	10740	7214	6005	6013	6140	11540	10630	4815	3513	3387	3538
MAX	23100	19200	10600	7740	6800	7200	27400	18300	7790	5000	4900	4700
MIN	7780	6890	4200	5000	5200	5150	5680	5470	2400	2200	2750	2550
CAL YR 1981 TOTAL	2583890			MEAN 7079	MAX 40500	MIN 2600						
WTR YR 1982 TOTAL	2640020			MEAN 7233	MAX 27400	MIN 2200						

01030500 MATTAWAMKEAG RIVER NEAR MATTAWAMKEAG, ME

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

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

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

REVISED RECORDS.--WSP 1501: Drainage area.

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

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

AVERAGE DISCHARGE.--48 years, 2,506 ft³/s (71.0 m³/s), 24.00 in/yr (610 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, 18,100 ft³/s (513 m³/s) Apr. 23, gage height, 11.09 ft (3.380 m); minimum, 70 ft³/s (1.98 m³/s) July 20.

DISCHARGE IN CURIC FEET PER SECOND, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	12600	10600	2720	1730	1660	1010	4320	15300	601	413	305	968
2	9990	8960	2860	1570	1640	980	5960	14000	652	440	284	828
3	8240	7470	3870	1570	1610	945	6650	12300	1400	429	239	800
4	7450	6260	4840	1760	1590	915	7210	10500	2280	387	204	1150
5	7070	5150	5310	1960	1720	900	7750	8840	2330	341	180	1600
6	6590	4360	5540	2640	2600	910	7850	7590	2000	300	175	1520
7	6070	4100	6420	3040	2880	930	7470	6570	1610	269	199	1290
8	6050	4030	7560	3400	2800	1000	6800	5630	1320	244	234	1100
9	6500	3960	8160	3570	2700	1120	6300	4820	1100	219	249	1000
10	6940	3730	7950	3590	2500	1200	5770	4220	962	204	244	921
11	6830	3400	7100	3430	2300	1210	5220	3790	840	204	249	823
12	6220	3100	6200	3230	2150	1200	4920	3440	731	199	290	725
13	5340	2800	5100	3080	2010	1290	4920	3070	646	194	325	641
14	4500	2530	4160	2790	1900	1500	4980	2740	596	185	325	563
15	3910	2330	3760	2670	1800	1850	5130	2460	552	175	341	541
16	3470	2210	3680	2580	1690	2060	5490	2210	535	170	330	663
17	3100	2430	3770	2450	1580	2060	6360	1970	552	170	310	939
18	2790	3400	3670	2350	1520	2060	8870	1750	541	165	300	1130
19	3000	4770	3360	2270	1450	2060	12400	1580	530	128	300	1170
20	3690	5620	2970	2200	1360	2070	14500	1460	498	90	264	1090
21	4200	6290	2750	2140	1290	2100	15800	1350	445	104	234	974
22	4320	7220	2630	2100	1240	2090	17300	1250	419	128	204	875
23	4120	7740	2640	2010	1210	2040	18000	1140	398	128	170	834
24	4800	7500	2580	1980	1170	1980	17600	1050	382	224	165	834
25	7030	6740	2480	1910	1130	1950	16800	992	377	264	209	823
26	9310	5710	2340	1840	1100	2090	16000	939	382	264	492	777
27	10500	4670	2160	1810	1060	2570	15700	904	382	234	1610	720
28	11600	4030	2020	1780	1040	3050	15900	834	361	204	2100	731
29	12700	3650	1970	1750	---	3380	16100	777	351	204	1840	811
30	12900	3060	1950	1710	---	3410	16000	714	377	214	1480	840
31	12100	---	1810	1690	---	3480	---	652	---	259	1180	---
TOTAL	213930	147820	124230	72600	48700	55410	304070	124842	24150	7153	15031	27681
MFAN	6901	4927	4007	2342	1739	1787	10140	4027	805	231	485	923
MAX	12900	10600	8160	3590	2880	3480	18000	15300	2330	440	2100	1600
MIN	2790	2210	1810	1570	1040	900	4320	652	351	90	165	541
CFSM	4.87	3.48	2.83	1.65	1.23	1.26	7.15	2.84	.57	.16	.34	.65
IN.	5.61	3.88	3.26	1.90	1.28	1.45	7.98	3.28	.63	.19	.39	.73

CAL YR 1981 TOTAL 1305600 MEAN 3577 MAX 21600 MIN 295 CFSM 2.52 IN 34.25
WTR YR 1982 TOTAL 1165617 MEAN 3193 MAX 18000 MIN 90 CFSM 2.25 IN 30.58

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.--298 mi² (772 km²).

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

REVISED RECORDS.--WSP 279: 1902. WSP 1201: 1903-17, 1918-30(M), 1934-35.
WSP 1301: 1909(M). WDR ME-81-1: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 358.47 ft (109.262 m) National Geodetic Vertical Datum of 1929. Prior to July 20, 1930, nonrecording gage at same site and datum. July 20, 1930 to Oct. 1, 1981, at datum 0.37 ft (0.113 m) lower.

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.--80 years, 602 ft³/s (17.05 m³/s), 27.43 in/yr (697 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)
Oct. 24	1300	* 9220 261	10.57 3.222	Apr. 18	2300	6820 193	8.94 2.725
Oct. 29	0200	4950 140	7.52 2.292	Apr. 27	1900	6650 188	8.82 2.688

Minimum discharge, 23 ft³/s (0.65 m³/s) Aug. 24, gage height, 1.59 ft (0.485 m).

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	792	1350	421	230	245	195	1450	2100	137	431	52	56
2	652	1120	498	230	240	195	2020	1830	416	270	46	52
3	608	938	731	230	240	195	1690	1650	1390	208	41	89
4	537	792	652	240	235	190	1600	1730	731	175	36	190
5	466	678	608	260	280	190	1430	1600	466	142	32	121
6	406	672	578	400	410	190	1060	1300	356	121	31	89
7	461	923	627	680	360	200	880	1100	289	104	30	74
8	572	792	602	600	320	230	785	938	234	93	29	67
9	504	646	526	540	300	260	715	806	202	81	31	59
10	441	560	466	500	280	240	680	799	175	72	43	53
11	383	498	426	470	260	220	680	878	154	67	64	51
12	343	461	392	450	240	210	799	757	137	61	59	52
13	313	397	330	425	230	220	900	640	124	56	51	46
14	289	378	326	410	225	280	1060	555	134	53	45	43
15	270	360	330	390	215	400	1120	482	169	51	41	69
16	259	378	351	375	210	350	1370	426	169	48	37	266
17	248	515	416	360	205	320	2410	383	187	46	33	245
18	238	870	360	350	205	240	5420	338	166	44	31	175
19	1390	1410	326	335	200	320	5560	305	139	44	31	126
20	1330	1030	310	325	200	280	4460	360	121	44	29	95
21	878	1380	290	315	200	240	4470	343	109	43	27	87
22	665	1700	280	305	200	210	4280	293	102	45	26	83
23	1160	1220	270	300	200	190	3030	259	114	46	25	87
24	7700	915	260	290	200	175	3050	234	301	46	25	98
25	5000	724	250	285	200	165	3730	234	259	44	26	100
26	2700	627	250	280	200	210	4810	224	231	40	266	85
27	2730	532	245	270	195	270	6000	199	199	37	266	77
28	3870	549	240	265	195	350	5550	181	157	34	148	85
29	4180	509	240	260	---	460	3560	160	151	44	100	98
30	2550	526	235	255	---	620	2560	151	584	59	75	87
31	1750	---	235	250	---	900	---	142	---	58	66	---
TOTAL	43685	23450	12071	10875	6690	8715	77129	21397	8103	2707	1842	2905
MEAN	1409	782	389	351	239	281	2571	690	270	87.3	59.4	96.8
MAX	7700	1700	731	680	410	900	6000	2100	1390	431	266	266
MIN	238	360	235	230	195	165	680	142	102	34	25	43
CFSM	4.73	2.62	1.31	1.18	.80	.94	8.63	2.32	.91	.29	.20	.33
IN.	5.45	2.93	1.51	1.36	.84	1.09	9.63	2.67	1.01	.34	.23	.36

CAL YR 1981 TOTAL 225096 MEAN 617 MAX 8080 MIN 35 CFSM 2.07 IN 28.10
WTR YR 1982 TOTAL 219569 MEAN 602 MAX 7700 MIN 25 CFSM 2.02 IN 27.41

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.--326 mi² (844 km²).

PERIOD OF RECORD.--October 1924 to September 1982 (discontinued).

REVISED RECORDS.--WSP 1171: 1936(M). WSP 1301: 1925. WDR ME-81-1: Drainage Area.

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.--58 years, 632 ft³/s (17.90 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, 4,580 ft³/s (130 m³/s) Apr. 22, gage height, 7.89 ft (2.405 m); minimum daily, 46 ft³/s (1.30 m³/s) Aug. 16.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	2130	2730	504	501	500	460	739	3330	213	311	119	58
2	1940	2480	509	502	500	460	764	3000	221	276	113	60
3	1870	2290	514	499	500	457	785	2710	229	268	106	65
4	1820	2140	519	499	496	454	808	2510	229	248	106	73
5	1750	2020	525	509	494	454	816	2390	232	229	108	71
6	1690	1910	562	517	494	451	824	1800	236	213	106	71
7	1640	1830	625	530	488	449	832	1480	276	202	103	71
8	1590	1740	637	552	487	449	832	1480	187	198	103	69
9	1520	1640	661	560	485	443	832	1480	83	191	103	69
10	1430	1540	662	565	484	443	832	1460	96	180	108	69
11	1340	1460	629	563	483	437	840	1450	111	170	106	69
12	1240	910	622	558	483	437	840	1400	121	166	132	71
13	1110	437	597	545	483	443	848	1360	124	166	58	71
14	985	437	563	542	483	438	863	1310	138	163	47	69
15	873	437	570	537	480	436	872	1260	150	141	47	79
16	780	438	588	528	477	433	880	1210	173	124	46	99
17	714	442	581	524	477	438	897	1140	187	124	47	119
18	638	450	559	513	477	594	974	816	209	130	47	116
19	779	456	562	512	474	701	1650	410	209	130	47	119
20	895	460	549	512	472	676	2840	432	217	127	49	500
21	904	471	534	512	471	646	3600	325	183	127	49	593
22	880	478	527	509	471	633	4480	209	180	130	47	191
23	930	483	526	506	466	612	4190	209	180	130	47	606
24	1530	484	523	506	466	567	3790	209	198	124	47	1250
25	1780	491	520	504	467	530	3600	209	191	124	49	1210
26	1860	494	518	503	465	524	3660	213	198	127	54	1170
27	2070	498	517	500	465	586	3900	209	187	124	55	1140
28	2520	501	509	500	463	633	4210	209	180	116	58	1100
29	3010	504	507	500	---	663	4050	209	198	119	58	1060
30	3130	505	506	500	---	690	3700	209	285	119	58	1040
31	2980	---	502	497	---	708	---	213	---	121	58	---
TOTAL	48328	31156	17227	16105	13451	16345	58748	34851	5621	5118	2281	11348
MEAN	1559	1039	556	520	480	527	1958	1124	187	165	73.6	378
MAX	3130	2730	662	565	500	708	4480	3330	285	311	132	1250
MIN	638	437	502	497	463	433	739	209	83	116	46	58
MEAN†	1603	785	556	711	314	293	2389	961	344	88.1	95.6	225
CFSM†	4.92	2.41	1.71	2.18	.96	.90	7.33	2.95	1.06	.27	.29	.69
IN ‡	5.67	2.69	1.97	2.51	1.00	1.04	8.18	3.40	1.18	.31	.34	.77
CAL YR 1981 TOTAL	263214		MEAN 721	MAX 3130	MIN 98	MEAN† 717	CFSM† 2.20	IN ‡ 29.85				
WTR YR 1982 TOTAL	260579		MEAN 714	MAX 4480	MIN 46	MEAN† 698	CFSM† 2.14	IN ‡ 29.06				

† Adjusted for change in contents in Sebec Lake.

01034000 PISCATAQUIS RIVER AT MEDFORD, ME

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

DRAINAGE AREA.--1,162 mi² (3,010 km²).

PERIOD OF RECORD.--June 1924 to September 1982 (discontinued).

REVISED RECORDS.--WSP 1231: 1936. WSP 1301: 1925-29(M). WDR ME-81-1: Drainage area.

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.--58 years, 2,356 ft³/s (66.72 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)
Oct. 25	0100	* 23800 674	9.70 2.957	Apr. 19	0700	16900 479	8.28 2.524
Oct. 29	0800	15800 447	8.05 2.454	Apr. 28	0800	20800 589	9.11 2.777

Minimum discharge, 170 ft³/s (4.81 m³/s) Aug. 23, 24, gage height 1.46 ft (0.445 m).

DISCHARGE, IN CURIC FEET PER SECOND, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	4980	7220	1790	990	720	920	4210	9410	814	1770	396	392
2	4260	6170	2120	980	710	890	5860	8170	1100	1330	367	368
3	4040	5410	3040	970	700	870	5640	7420	4230	1090	322	487
4	3890	4780	3110	980	700	850	5460	7120	3250	930	294	838
5	3590	4310	2770	1000	950	840	5450	7120	2190	817	293	774
6	3290	4070	2770	1200	1400	840	4550	6330	1690	709	290	591
7	3300	4430	3480	2500	2000	850	3710	5250	1420	638	274	505
8	3540	4290	3760	2300	1900	900	3360	4970	1260	592	260	446
9	3360	3800	3210	2100	1800	970	3170	4800	1000	555	263	400
10	3030	3400	2770	1900	1700	950	2970	4560	842	504	305	373
11	2740	3080	2470	1750	1600	900	2790	4470	765	454	381	347
12	2470	2760	2270	1650	1550	860	2970	4090	697	419	371	329
13	2260	1960	1990	1550	1500	900	3250	3620	650	405	361	351
14	2080	1780	1800	1400	1400	1100	3740	3260	661	388	314	358
15	1920	1720	1790	1350	1350	1500	4000	2960	709	378	296	381
16	1790	1720	1950	1250	1300	1400	4450	2740	800	339	299	727
17	1690	1890	2110	1200	1250	1250	6120	2550	883	318	274	1060
18	1590	2680	2150	1150	1200	1150	11900	2330	911	476	284	952
19	3870	4050	1730	1100	1150	1250	16300	1770	842	508	257	780
20	5590	3580	1500	1050	1150	1100	14800	1640	797	416	228	629
21	4110	4010	1400	1000	1100	1000	14200	1680	731	369	216	1110
22	3300	5150	1300	960	1100	900	16100	1420	670	369	193	743
23	3150	4180	1250	940	1050	810	13300	1250	643	392	178	615
24	16800	3310	1200	890	1050	750	11300	1140	785	364	190	1270
25	20500	2740	1150	860	1000	700	11800	1100	1070	335	202	1480
26	11500	2430	1130	840	980	800	14000	1080	1020	320	684	1450
27	9570	2130	1100	810	960	1000	16700	1010	951	300	1420	1410
28	12100	2130	1070	790	940	1500	20300	949	834	289	1100	1400
29	15300	2100	1030	770	---	1900	15900	902	751	381	770	1360
30	12000	1820	1010	750	---	2500	11500	853	1240	468	577	1330
31	8910	---	1000	730	---	3360	---	820	---	438	461	---
TOTAL	180520	103100	61620	37710	34210	35510	259800	106784	34206	17061	12120	23256
MEAN	5823	3437	1988	1216	1222	1145	8660	3445	1140	550	391	775
MAX	20500	7220	3880	2500	2000	3360	20300	9410	4230	1770	1420	1480
MIN	1590	1720	1000	730	700	700	2790	820	643	289	178	329
CAL YR 1981	TOTAL	986450	MEAN	2703	MAX	28500	MIN	450				
WTR YR 1982	TOTAL	905897	MEAN	2482	MAX	20500	MIN	178				

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.--6,671 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. WDR ME-81-1: 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.--80 years (water years 1903-82), 11,927 ft³/s (338 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, 67,200 ft³/s (1,900 m³/s) Apr. 28, gage height, 14.93 ft (4.551 m); minimum daily discharge, 3,310 ft³/s (93.7 m³/s) July 15.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982
 MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	34300	40500	13500	10500	12000	8900	23000	47500	7060	5610	5090	5710
2	31000	37900	14800	9550	11600	9200	24800	44000	8110	5670	4740	5580
3	28800	34000	17800	11500	11100	9100	29000	40100	12100	5400	4430	5830
4	27300	31100	19500	12100	11300	9600	27800	37500	14800	4380	4710	6490
5	26300	27800	20100	12400	11700	9400	27500	35600	12800	4170	4410	6730
6	24600	24300	19900	15400	12000	9200	26000	32500	11400	5070	4310	6460
7	23400	21800	22300	17600	12300	9400	23000	29900	10200	5140	4420	5490
8	24500	22300	25600	18100	12200	9200	21000	27900	9570	4740	4150	5770
9	26100	21100	25200	17600	12000	9600	21300	26700	8990	4830	3990	5460
10	24800	19400	24100	15500	11800	9500	22000	25100	7410	5340	3980	5060
11	23400	17100	22000	16600	11600	10200	19800	23700	7100	5910	4480	5470
12	21700	15400	19700	16000	11700	10000	18100	22700	6850	5520	4440	5350
13	19600	12200	17900	14600	10500	9900	18800	21700	6290	4440	4610	5290
14	17900	12900	15300	11500	9900	11600	20000	18500	6090	4290	4380	5330
15	16100	12500	13100	11700	10000	12300	20800	16900	6020	3310	4340	5000
16	14700	12400	14100	12500	8800	12300	21700	15700	6040	4110	4560	5830
17	14500	12500	14700	12600	8700	12500	24700	15100	6780	4310	4500	6810
18	13400	15200	15000	11600	8600	12800	34900	14300	6790	4880	4970	7860
19	15700	20000	14600	11700	8500	12000	48900	13400	6260	5160	4370	7460
20	23200	21900	13600	11600	8300	12400	52200	13000	5980	3990	3880	7080
21	21000	23400	10900	12000	8800	13000	51300	13300	5800	4270	4220	6990
22	18900	27100	10500	12100	9300	12700	55800	13500	6220	4510	4240	6050
23	17500	28900	9700	12000	9100	12500	54200	11300	5820	3960	4180	6210
24	33700	24800	11000	11800	8800	12500	50300	9960	6060	4390	4670	5690
25	54600	21900	11500	11900	8700	12200	47500	9490	6430	5040	4230	6580
26	45800	20500	10900	12000	8700	12000	49400	9390	6320	4480	5230	5810
27	42000	18100	10900	12300	8800	13000	54100	8200	4270	4600	8170	5720
28	46500	16600	9450	11800	8900	17000	64500	8820	4030	4380	9350	6560
29	51200	16000	10400	11100	---	16600	62400	8820	4080	4820	8290	6980
30	50500	14700	11500	11000	---	16000	53100	8050	4240	4800	6560	7160
31	45200	---	11500	11300	---	18500	---	7540	---	5260	6110	---
TOTAL	878200	644300	481050	399950	285700	365100	1067900	630170	219910	146780	154010	183810
MEAN	28330	21480	15520	12900	10200	11780	35600	20330	7330	4735	4968	6127
MAX	54600	40500	25600	18100	12300	18500	64500	47500	14800	5910	9350	7860
MIN	13400	12200	9450	9550	8300	8900	18100	7540	4030	3310	3880	5000
CAL YR 1981 TOTAL	5501160			MEAN 15070		MAX 88900		MIN 5000				
WTR YR 1982 TOTAL	5456880			MEAN 14950		MAX 64500		MIN 3310				

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.--7,764 mi² (20,109 km²), including 249 mi² (645 km²) drained by Chamberlain Lake through Telos Canal.

WATER-DISCHARGE RECORDS

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

REVISED RECORDS.--WDR ME-81-1: Drainage area.

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

REMARKS.--Records fair. Flow regulated by many reservoirs above station (Reservoirs in Penobscot River Basin). Stage generally affected by tide when discharge is less than 30,000 ft³/s (850 m³/s) after Aug. 5, 1982, stage generally affected by tide when discharge is less than 30,000 ft³/s (850 m³/s) and greater than 10,000 ft³/s (280 m³/s).

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

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 73,100 ft³/s (2,070 m³/s) Apr. 29, gage height, 16.06 ft (4.895 m); minimum daily, 3,800 ft³/s (108 m³/s) July 16.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	46900	52100	17100	11300	12200	9800	25000	59700	5030	6120	6200	6430
2	40900	48100	18100	11000	10600	10300	30400	54400	8020	6940	5700	5980
3	37400	44000	22500	11000	10800	9600	35500	49400	10800	6690	5200	6190
4	35100	40200	25000	14600	10600	9800	37800	46300	17100	6310	5000	6990
5	32700	35800	26100	15500	11400	10200	38600	42600	16100	4870	5200	7270
6	31000	32400	26500	15600	11800	9800	37800	39900	14000	5090	4600	7750
7	28900	28000	28700	19200	13000	9900	32400	36300	12400	6180	4700	7030
8	29400	27100	32600	20000	13200	9800	27600	32900	11100	5770	4500	6250
9	30600	26500	33700	19200	13000	10000	28000	30900	10100	5330	4300	6740
10	30200	25100	31900	16800	12500	9700	27400	29500	9590	5680	4000	6040
11	28100	23000	29800	17500	12000	9700	25900	27800	8280	6270	4720	6160
12	26600	20700	26800	17000	12100	10200	25000	26400	7820	6310	5250	6280
13	24600	17800	28700	14500	11000	10100	24800	25400	7560	5830	4970	6400
14	22900	15100	22400	11800	10500	11400	26900	23900	7040	4780	5190	6040
15	21000	15600	19100	12000	10200	12000	27500	20700	6850	4540	4910	6550
16	18600	15200	18600	13000	11000	12800	28200	18800	7040	3800	5050	6130
17	17900	15300	19300	13400	10300	13000	30900	17400	7200	4660	5110	7230
18	16700	18000	19000	12300	10300	13000	39500	17100	8120	4840	5080	8300
19	17000	23600	19300	12500	10200	12800	54200	15900	7760	6400	5540	8920
20	25400	26700	18300	12000	10200	12800	61100	15300	7170	5600	4690	8300
21	27500	28200	16200	12700	10700	13300	62000	14500	6940	4100	4330	7310
22	25000	31900	14000	13000	10600	13300	65100	15200	6880	5000	4770	6960
23	23000	35700	11000	12600	10400	12800	66800	14400	7370	5000	4800	6430
24	26200	33200	12000	12000	9200	12800	63500	11800	6820	4100	4660	6430
25	52700	29100	15000	12600	9200	12800	59700	10700	7300	5700	5280	6520
26	57400	26400	12600	12500	9200	13000	58400	10300	7560	5300	4770	6680
27	52500	24600	12500	13000	9700	14000	60700	10100	6460	4900	6460	6250
28	54500	22600	11400	12400	9000	16000	67300	9250	4510	4950	9200	6920
29	58600	21000	11300	11800	---	18000	71800	9690	5330	5500	9100	7470
30	60700	19400	11500	9800	---	17000	66200	9520	5400	5500	7920	7750
31	57700	---	11400	9800	---	18000	---	8850	---	5500	6430	---
TOTAL	1057700	822400	622400	422400	304900	377700	1306000	754910	253650	167560	167630	205700
MFAN	34120	27410	20080	13630	10890	12180	43530	24350	8455	5405	5407	6857
MAX	60700	52100	33700	20000	13200	18000	71800	59700	17100	6940	9200	8920
MIN	16700	15100	11000	9800	9000	9600	24800	8850	4510	3800	4000	5980
CAL YR 1981	TOTAL	6560650	MEAN	17970	MAX	97900	MIN	5120				
WTR YR 1982	TOTAL	6462950	MEAN	17710	MAX	71800	MIN	3800				

01036390 PENOBSCOT RIVER AT EDDINGTON, ME--Continued

WATER-QUALITY RECORDS

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

PERIOD OF DAILY RECORD.--

SPECIFIC CONDUCTANCE: April 1979 to current year.

pH: April 1979 to current year.

WATER TEMPERATURES: April 1979 to current year.

DISSOLVED OXYGEN: April 1979 to current year.

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

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

EXTREMES FOR PERIOD OF DAILY RECORD.--

SPECIFIC CONDUCTANCE: Maximum (water years 1979-80), 92 micromhos Mar. 17, 1980; minimum recorded, 28 micromhos Sept. 26, 1981.

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

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

DISSOLVED OXYGEN: Maximum, 14.8 mg/L Nov. 26, Dec 14, 1981, minimum, 6.5 mg/L July 17, 18, 1980.

EXTREMES FOR CURRENT YEAR.--

SPECIFIC CONDUCTANCE: Maximum, 82 micromhos Aug. 13; minimum 32 micromhos Apr. 29, 30.

pH: Maximum, 7.6 units July 5; minimum, 6.3 units Oct. 1, Feb. 8, Mar. 27.

WATER TEMPERATURES: Maximum, 26.5°C July 18-20; minimum, 0.0°C on many days during winter period.

DISSOLVED OXYGEN: Maximum, 14.8 mg/L Nov. 26, Dec 14; minimum, 6.6 mg/L July 20.

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982

DATE	TIME	STREAM- FLOW INSTAN- TANFOUS (CFS)	SPE- CIFIC CON- DUCT- ANCE (UMHOS)	SPE- CIFIC CON- DUCT- ANCE LAB (UMHOS)	PH (UNITS)	TEMPER- ATURE AIR (DEG C)	TEMPER- ATURE (DEG C)	TUR- BID- ITY (FTU)	OXYGEN, DIS- SOLVED (MG/L)	COLI- FORM, FECAL, 0.7 UM-MF (COLS./ 100 ML)	STREP- TOCOCCI FECAL, KF AGAR (COLS. PER 100 ML)
OCT 20...	1030	25000	43	38	6.7	8.5	8.5	25	12.0	K88	40
DEC 14...	0945	22400	40	32	6.7	7.5	7.5	1.7	15.2	75	K17
MAR 01...	1015	9800	50	46	6.6	-3.0	7.0	<1.0	13.4	160	29
APR 30...	1400	66000	30	20	6.5	9.0	5.5	4.0	13.2	31	--
JUL 16...	1230	3650	60	64	6.8	30.0	25.5	<1.0	7.9	460	1700
AUG 16...	0945	4940	64	68	6.9	26.0	21.0	1.2	8.7	K330	150

DATE	HARD- NESS AS CACO3	HARD- NESS NONCAR- BONATE (MG/L AS CACO3)	CALCIUM DIS- SOLVED (MG/L AS CA)	MAGNE- SIUM, DIS- SOLVED (MG/L AS MG)	SODIUM, DIS- SOLVED (MG/L AS NA)	POTAS- SIUM, DIS- SOLVED (MG/L AS K)	ALKA- LINITY LAB (MG/L AS CACO3)	SULFATE DIS- SOLVED (MG/L AS SO4)	CHLO- RIDE, DIS- SOLVED (MG/L AS CL)	FLUO- RIDE, DIS- SOLVED (MG/L AS F)	SILICA, DIS- SOLVED (MG/L AS SiO2)
OCT 20...	16	2.0	4.8	.9	3.6	.3	14	5.4	2.4	<.1	.1
DEC 14...	14	6.0	4.1	.8	1.8	.3	8.0	4.4	1.7	<.1	4.3
MAR 01...	18	7.0	5.3	1.1	2.8	.6	11	6.8	3.6	<.1	4.7
APR 30...	12	4.0	3.3	.8	1.4	.4	8.0	5.0	1.4	<.1	3.4
JUL 16...	17	5.0	5.0	1.1	4.3	.4	12	7.0	5.3	<.1	1.9
AUG 16...	20	5.0	5.9	1.2	4.3	.5	15	7.0	5.8	<.1	1.0

DATE	SOLIDS, RESIDUE AT 180 DEG. C DIS- SOLVED (MG/L)	SOLIDS, SUM OF CONSTITUENTS, DIS- SOLVED (MG/L)	SOLIDS, DIS- SOLVED (TONS PER AC-FT)	SOLIDS, DIS- SOLVED (TONS PER DAY)	NITRO- GEN, NO2+NO3 DIS- SOLVED (MG/L AS N)	NITRO- GEN, AMMONIA DIS- SOLVED (MG/L AS N)	NITRO- GEN, AMMONIA DIS- SOLVED (MG/L AS NH4)	NITRO- GEN,AM- MONIA + ORGANIC TOTAL (MG/L AS N)	PHOS- PHORUS, TOTAL (MG/L AS P)	PHOS- PHORUS TOTAL (MG/L AS P04)	PHOS- PHORUS, DIS- SOLVED (MG/L AS P)
OCT 20...	44	31	.06	2970	.16	<.070	.09	.54	.030	.09	<.010
DEC 14...	38	22	.05	2300	.12	<.010	.01	.24	.010	.03	.010
MAR 01...	32	32	.04	847	.18	.090	.12	.35	.020	.06	<.010
APR 30...	24	21	.03	4280	<.10	.040	.05	.55	.070	.21	.020
JUL 16...	48	33	.07	473	.23	.050	.06	.40	.050	.15	.030
AUG 16...	52	35	.07	694	.11	.060	.08	.40	.050	.15	.030

K RESULTS BASED ON COLONY COUNT OUTSIDE THE ACCEPTABLE RANGE (NON-IDEAL COLONY COUNT).

01036390 PENOBSCOT RIVER AT EDDINGTON, ME--Continued

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982

DATE	PHOS- PHORUS, ORTHO, DIS- SOLVED (MG/L AS P)	ARSENIC TOTAL (UG/L AS AS)	ARSENIC DIS- SOLVED (UG/L AS AS)	BARIUM, TOTAL RECOV- ERABLE (UG/L AS BA)	BARIUM, DIS- SOLVED (UG/L AS BA)	CADMIUM TOTAL RECOV- ERABLE (UG/L AS CD)	CADMIUM DIS- SOLVED (UG/L AS CD)	CHRO- MIUM, TOTAL RECOV- ERABLE (UG/L AS CR)	CHRO- MIUM, DIS- SOLVED (UG/L AS CR)	COBALT, TOTAL RECOV- ERABLE (UG/L AS CO)	COBALT, DIS- SOLVED (UG/L AS CO)
OCT 20...	<.020	1	1	100	40	<1	7	20	10	5	<1
DEC 14...	<.010	--	--	--	--	--	--	--	--	--	--
MAR 01...	.020	<1	1	<100	13	1	<1	10	<10	<1	<1
APR 30...	<.010	2	1	<100	8	<1	1	10	<10	<1	<1
JUL 16...	.020	--	--	--	--	--	--	--	--	--	--
AUG 16...	.030	1	1	<100	11	2	<1	20	10	4	1

DATE	COPPER, TOTAL 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, DIS- SOLVED (UG/L AS PB)	MANGA- NESE, TOTAL RECOV- ERABLE (UG/L AS MN)	MANGA- NESE, DIS- SOLVED (UG/L AS MN)	MERCURY TOTAL RECOV- ERABLE (UG/L AS HG)	MERCURY DIS- SOLVED (UG/L AS HG)	NICKEL, TOTAL RECOV- ERABLE (UG/L AS NI)
OCT 20...	7	2	350	120	9	5	30	12	.1	<.1	5
DEC 14...	--	--	--	--	--	--	--	--	--	--	--
MAR 01...	7	4	200	110	6	1	20	13	.1	.1	<1
APR 30...	6	3	300	69	5	2	30	11	.1	<.1	2
JUL 16...	--	--	--	--	--	--	--	--	--	--	--
AUG 16...	4	3	140	63	3	3	30	15	.8	.4	3

DATE	NICKEL, DIS- SOLVED (UG/L AS NI)	SELE- NIUM, TOTAL (UG/L AS SE)	SELE- NIUM, DIS- SOLVED (UG/L AS SE)	SILVER, TOTAL RECOV- ERABLE (UG/L AS AG)	SILVER, DIS- SOLVED (UG/L AS AG)	ZINC, TOTAL RECOV- ERABLE (UG/L AS ZN)	ZINC, DIS- SOLVED (UG/L AS ZN)	SEDI- MENT, SUS- PENDED (MG/L)	SEDI- MENT, DIS- CHARGE, SUS- PENDED (T/DAY)	SEN. SUSP. SIEVE DIAM. % FINER THAN .062 MM
OCT 20...	2	<1	<1	<1	<1	40	13	2	135	88
DEC 14...	--	--	--	--	--	--	--	5	302	100
MAR 01...	<1	<1	<1	<1	<1	20	7	8	212	100
APR 30...	2	<1	<1	<1	<1	30	<12	12	2140	61
JUL 16...	--	--	--	--	--	--	--	7	69	61
AUG 16...	1	<1	<1	<1	<1	40	<4	4	53	92

RADIOCHEMICAL ANALYSES, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982

DATE	GROSS ALPHA, DIS- SOLVED (UG/L AS U-NAT)	GROSS ALPHA, SUSP. TOTAL (UG/L AS U-NAT)	GROSS BETA, DIS- SOLVED (PCI/L AS CS-137)	GROSS BETA, DIS- SOLVED (PCI/L AS YT-90)	GROSS BETA, SUSP. TOTAL (PCI/L AS CS-137)	GROSS BETA, SUSP. TOTAL (PCI/L AS YT-90)	RADIUM 226, DIS- SOLVED, RADON METHOD (PCI/L)	URANIUM DIS- SOLVED, EXTRAC- TION (UG/L)
OCT 20...	<1.0	<.4	1.9	1.8	<.4	<.4	.04	.23
APR 30...	<.8	<.4	1.2	1.1	<.5	<.5	.05	.14

01036390 PENOBSCOT RIVER AT EDDINGTON, ME--Continued

SPECIFIC CONDUCTANCE (MICROMHOS/CM AT 25 DEG. C), WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
OCTOBER			NOVEMBER			DECEMBER			JANUARY			
1	35	35	35	36	35	35	41	40	40	48	47	47
2	36	35	36	36	36	36	41	40	41	48	47	47
3	36	35	36	37	36	37	42	40	41	48	47	47
4	37	36	36	37	37	37	42	39	40	48	47	47
5	37	36	37	38	37	38	39	39	39	48	46	47
6	37	37	37	38	38	38	39	38	39	46	45	46
7	39	37	38	39	38	38	38	38	38	46	45	46
8	39	38	38	40	39	39	38	36	37	46	46	46
9	39	38	38	40	40	40	37	36	36	47	47	47
10	39	38	38	40	39	40	36	35	36	47	47	47
11	38	38	38	40	40	40	36	35	36	47	47	47
12	39	38	39	42	40	41	36	36	36	48	48	48
13	39	39	39	43	41	42	37	36	37	49	48	48
14	40	39	39	42	41	41	38	37	37	50	48	49
15	40	40	40	43	42	42	38	37	38	50	50	50
16	41	40	41	42	41	42	40	38	39	51	51	51
17	42	41	42	42	41	41	40	39	39	53	53	51
18	42	41	42	42	41	41	42	40	41	54	52	52
19	42	41	42	42	41	41	41	41	41	54	52	53
20	43	41	42	41	40	40	42	41	41	54	53	53
21	42	41	42	40	38	39	44	42	43	54	53	54
22	41	41	41	38	37	38	44	43	43	54	53	54
23	42	41	42	38	37	37	44	43	43	56	55	55
24	43	41	42	37	36	37	48	43	45	56	51	54
25	41	35	38	37	36	37	44	42	43	56	53	54
26	35	34	34	38	37	38	43	42	43	54	53	54
27	36	35	36	38	38	38	44	43	44	55	54	54
28	37	36	37	39	38	39	46	44	45	55	52	54
29	37	36	36	39	39	39	46	44	45	56	52	53
30	36	35	35	40	40	40	46	45	45	58	54	58
31	35	35	35	---	---	---	46	45	46	59	58	58
MONTH	43	34	38	43	35	39	48	35	41	59	45	51

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
FEBRUARY			MARCH			APRIL			MAY			
1	59	57	58	---	---	---	48	45	47	34	33	34
2	57	53	52	---	---	---	45	43	44	33	33	33
3	58	54	55	---	---	---	43	42	42	34	33	34
4	58	55	56	---	---	---	42	41	42	35	34	34
5	57	54	55	---	---	---	41	40	41	35	35	35
6	54	51	52	---	---	---	41	41	41	35	34	35
7	53	51	52	---	---	---	42	41	42	36	35	35
8	53	52	53	---	---	---	43	42	42	36	35	36
9	53	51	52	---	---	---	45	44	44	35	35	35
10	51	51	51	---	---	---	45	44	45	35	35	35
11	51	50	51	---	---	---	46	45	45	36	35	36
12	---	---	---	---	---	---	45	44	45	36	36	36
13	---	---	---	---	---	---	45	44	45	36	35	36
14	---	---	---	---	---	---	---	---	---	37	36	36
15	---	---	---	---	---	---	---	---	---	37	36	37
16	---	---	---	---	---	---	---	---	---	38	37	37
17	---	---	---	---	---	---	---	---	---	38	37	37
18	---	---	---	---	---	---	---	---	---	44	43	43
19	---	---	---	---	---	---	40	37	38	44	43	43
20	---	---	---	---	---	---	37	34	36	44	43	43
21	---	---	---	---	---	---	35	34	34	45	43	44
22	---	---	---	---	---	---	35	35	35	45	44	44
23	---	---	---	---	---	---	35	35	35	45	44	44
24	---	---	---	52	51	52	35	35	35	45	43	44
25	---	---	---	52	52	52	36	35	35	45	44	45
26	---	---	---	53	52	52	36	35	36	47	44	45
27	---	---	---	53	50	51	36	35	36	50	45	46
28	---	---	---	51	50	51	35	33	34	49	45	47
29	---	---	---	51	50	50	33	32	32	48	45	47
30	---	---	---	50	48	49	33	32	33	47	45	46
31	---	---	---	48	47	48	---	---	---	49	46	47
MONTH	59	50	53	53	47	51	48	32	39	50	33	40

01036390 PENOBSCOT RIVER AT EDDINGTON, ME--Continued

SPECIFIC CONDUCTANCE (MICROMHOS/CM AT 25 DEG. C), WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
	JUNE			JULY			AUGUST			SEPTEMBER		
1	50	47	48	64	60	62	63	61	62	58	57	58
2	49	47	48	62	60	60	64	62	63	60	57	59
3	50	47	48	60	56	58	66	63	64	61	59	60
4	47	46	46	57	54	55	66	63	65	63	59	60
5	46	46	46	53	50	51	68	65	66	60	59	59
6	45	45	45	55	49	51	69	66	67	60	54	56
7	45	45	45	62	55	59	72	68	70	54	52	53
8	47	45	46	65	59	62	73	69	71	57	53	55
9	48	46	46	65	59	62	74	71	73	62	57	61
10	50	45	47	64	58	61	75	71	73	64	58	63
11	50	46	47	58	54	56	80	73	76	61	59	60
12	50	47	48	55	53	54	78	75	76	63	59	61
13	49	46	47	54	51	52	82	78	79	62	60	61
14	51	47	50	56	51	53	66	61	63	62	60	61
15	57	50	52	57	52	54	65	62	64	64	60	62
16	58	52	54	61	55	57	65	62	63	66	61	63
17	57	53	55	60	51	54	69	62	66	64	59	63
18	58	54	56	57	54	55	68	62	65	62	53	56
19	57	56	57	58	53	55	68	65	66	57	54	55
20	58	56	57	54	52	53	69	63	66	57	52	54
21	58	56	57	54	51	52	73	64	68	58	54	56
22	60	57	58	55	53	54	70	65	68	58	57	58
23	57	55	56	60	56	59	70	65	68	62	58	59
24	61	56	59	67	60	64	71	65	68	64	60	62
25	62	59	60	66	62	63	68	62	65	61	59	60
26	59	56	57	64	60	62	68	62	64	60	59	60
27	59	57	58	63	61	62	67	63	64	60	59	60
28	63	56	59	64	60	62	63	55	57	61	58	60
29	62	55	58	63	60	61	55	50	53	58	53	55
30	63	56	60	63	61	62	54	51	52	56	54	55
31	---	---	---	64	60	62	58	54	56	---	---	---
MONTH	63	45	52	67	49	58	82	50	66	66	52	59
YFAR	82	32	49									

PH (STANDARD UNITS), WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982

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

PH (STANDARD UNITS), WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982

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

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN			
	JUNE				JULY				AUGUST				SEPTEMBER		
1	7.1	6.8	7.0	6.8	6.7	6.8	6.9	6.8	6.8	6.9	6.9	6.9			
2	6.9	6.9	6.9	6.9	6.8	6.8	6.8	6.7	6.8	6.9	6.8	6.9			
3	7.0	6.8	6.9	7.0	6.8	6.9	6.9	6.7	6.8	6.9	6.8	6.9			
4	6.9	6.8	6.9	7.5	6.9	7.2	6.9	6.8	6.8	6.9	6.8	6.9			
5	6.9	6.8	6.8	7.6	7.1	7.3	6.9	6.8	6.8	6.9	6.8	6.9			
6	7.0	6.8	6.9	7.5	7.1	7.3	6.9	6.8	6.8	7.0	6.9	6.9			
7	6.9	6.8	6.9	7.3	7.0	7.2	6.9	6.8	6.9	7.0	6.9	7.0			
8	7.0	6.8	6.9	7.2	7.0	7.1	6.9	6.8	6.9	7.0	6.9	6.9			
9	7.0	6.8	6.9	7.1	6.9	7.0	6.9	6.8	6.8	7.0	6.9	7.0			
10	7.0	6.8	6.9	7.0	6.8	6.9	6.9	6.8	6.9	7.0	6.9	7.0			
11	7.0	6.8	6.9	6.9	6.8	6.9	6.9	6.8	6.8	7.0	6.9	6.9			
12	7.0	6.9	6.9	6.9	6.7	6.8	6.9	6.8	6.8	7.0	6.9	6.9			
13	7.0	6.9	6.9	6.9	6.7	6.8	6.9	6.8	6.8	7.0	6.9	6.9			
14	7.0	6.9	6.9	6.9	6.7	6.8	6.9	6.8	6.8	7.0	6.9	6.9			
15	7.0	6.9	6.9	6.9	6.7	6.8	7.0	6.8	6.9	6.9	6.8	6.9			
16	6.9	6.9	6.9	6.9	6.7	6.8	7.2	6.9	7.0	6.9	6.8	6.8			
17	6.9	6.8	6.8	6.9	6.7	6.8	7.3	7.0	7.1	7.0	6.8	6.9			
18	6.8	6.7	6.8	6.9	6.7	6.8	7.3	7.0	7.1	7.0	6.8	6.9			
19	6.8	6.7	6.7	6.8	6.7	6.7	7.1	6.9	7.0	7.1	6.9	7.0			
20	6.8	6.7	6.7	6.7	6.6	6.7	7.0	6.9	7.0	7.0	6.8	7.0			
21	6.8	6.7	6.8	6.7	6.6	6.7	7.1	7.0	7.0	6.9	6.9	6.9			
22	6.9	6.7	6.8	6.9	6.7	6.7	7.1	7.0	7.0	6.9	6.8	6.8			
23	6.8	6.7	6.7	6.8	6.7	6.8	7.1	7.0	7.0	6.8	6.7	6.8			
24	6.8	6.7	6.8	6.8	6.7	6.8	7.1	6.9	7.0	6.8	6.7	6.8			
25	6.8	6.7	6.8	6.8	6.7	6.8	7.0	6.9	6.9	6.8	6.7	6.7			
26	6.8	6.7	6.8	6.8	6.7	6.8	7.0	6.9	6.9	6.8	6.7	6.8			
27	6.8	6.7	6.8	6.8	6.7	6.8	7.0	6.9	7.0	6.8	6.7	6.7			
28	6.9	6.7	6.8	6.8	6.6	6.7	7.1	6.9	7.0	6.8	6.7	6.7			
29	6.9	6.7	6.8	6.8	6.7	6.8	7.1	6.9	7.0	6.8	6.7	6.8			
30	6.9	6.7	6.8	6.9	6.7	6.8	7.1	6.9	7.0	6.9	6.8	6.9			
31	---	---	---	6.9	6.8	6.8	7.0	6.9	6.9	---	---	---			
MONTH	7.1	6.7	6.8	7.6	6.6	6.9	7.3	6.7	6.9	7.1	6.7	6.9			
YEAR	7.6	6.3	6.7												

01036390 PENOBSCOT RIVER AT EDDINGTON, ME--Continued

TEMPERATURE, WATER (DEG. C), WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982

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

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
FEBRUARY			MARCH			APRIL			MAY			
1	.0	.0	.0	---	---	---	1.0	.0	.5	6.0	5.5	5.5
2	.0	.0	.0	---	---	---	.5	.0	.0	6.5	5.5	6.0
3	.0	.0	.0	---	---	---	.5	.0	.0	7.5	6.5	7.0
4	.0	.0	.0	---	---	---	.5	.0	.0	8.0	7.5	7.5
5	.0	.0	.0	---	---	---	.5	.0	.0	9.0	7.5	8.5
6	.0	.0	.0	---	---	---	.5	.0	.0	9.5	8.5	9.0
7	.0	.0	.0	---	---	---	.0	.0	.0	10.5	9.0	9.5
8	.0	.0	.0	---	---	---	.5	.0	.0	11.5	10.0	10.5
9	.0	.0	.0	---	---	---	1.0	.0	.5	11.5	11.0	11.5
10	.0	.0	.0	---	---	---	1.0	.0	.5	11.0	10.5	11.0
11	.0	.0	.0	---	---	---	1.0	.0	.5	10.5	10.0	10.0
12	---	---	---	---	---	---	1.0	.0	.5	10.5	9.5	10.0
13	---	---	---	---	---	---	.5	.0	.5	11.0	10.0	10.5
14	---	---	---	---	---	---	---	---	---	10.5	10.0	10.0
15	---	---	---	---	---	---	---	---	---	11.0	10.0	10.5
16	---	---	---	---	---	---	---	---	---	11.5	11.0	11.0
17	---	---	---	---	---	---	---	---	---	12.5	11.5	12.0
18	---	---	---	---	---	---	---	---	---	13.0	12.0	12.5
19	---	---	---	---	---	---	4.0	3.0	3.5	14.0	12.5	13.0
20	---	---	---	---	---	---	4.0	3.0	3.5	15.0	13.5	14.0
21	---	---	---	---	---	---	3.5	3.0	3.5	15.0	14.0	14.5
22	---	---	---	---	---	---	3.0	2.5	3.0	15.0	14.0	14.5
23	---	---	---	---	---	---	3.0	2.5	3.0	15.0	13.5	14.0
24	---	---	---	.0	.0	.0	4.5	3.0	4.0	14.0	13.5	14.0
25	---	---	---	.5	.0	.0	6.0	4.5	5.0	14.0	13.0	13.5
26	---	---	---	.5	.0	.0	7.0	6.0	6.5	16.0	13.5	14.5
27	---	---	---	.0	.0	.0	7.5	7.0	7.0	17.0	15.0	16.0
28	---	---	---	.0	.0	.0	7.0	5.5	6.5	18.0	15.5	16.5
29	---	---	---	.0	.0	.0	5.5	5.0	5.5	17.5	16.5	17.0
30	---	---	---	.5	.0	.0	5.5	5.0	5.5	18.0	17.0	17.5
31	---	---	---	.5	.0	.0	---	---	---	19.0	17.5	18.5
MONTH	.0	.0	.0	.5	.0	.0	7.5	.0	2.5	19.0	5.5	12.0

01036390 PENOBSCOT RIVER AT EDDINGTON, ME--Continued

TEMPERATURE, WATER (DEG. C), WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982

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

OXYGEN, DISSOLVED (DO), MG/L, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		OCTOBER			NOVEMBER			DECEMBER			JANUARY	
1	12.2	12.0	12.1	13.9	13.6	13.8	14.5	14.3	14.4	14.2	13.9	14.0
2	12.1	12.0	12.0	13.6	13.3	13.5	14.4	14.2	14.3	14.0	13.8	13.9
3	12.0	12.0	12.0	13.5	13.3	13.4	14.4	14.3	14.3	14.4	14.1	14.2
4	12.1	11.9	11.9	13.4	13.3	13.3	14.5	14.3	14.4	14.2	13.7	14.0
5	12.0	11.8	11.9	13.5	13.3	13.4	14.6	14.4	14.5	14.0	13.7	13.9
6	11.9	11.6	11.8	13.3	12.9	13.1	14.4	14.2	14.3	14.0	13.9	13.9
7	11.6	11.4	11.5	12.9	12.8	12.8	14.2	14.1	14.2	14.0	13.9	13.9
8	11.7	11.4	11.6	13.3	12.8	13.1	14.3	14.2	14.3	14.0	13.9	14.0
9	12.1	11.7	11.9	13.4	13.2	13.2	14.3	14.2	14.3	13.9	13.7	13.8
10	12.3	12.1	12.2	13.5	13.4	13.5	14.3	14.2	14.3	13.8	13.6	13.7
11	12.4	12.3	12.3	13.5	13.4	13.4	14.4	14.3	14.4	13.8	13.7	13.8
12	12.5	12.3	12.4	13.7	13.5	13.6	14.6	14.4	14.5	14.1	13.9	14.0
13	12.4	12.2	12.3	13.7	13.6	13.7	14.6	14.5	14.6	14.2	14.1	14.1
14	12.3	12.1	12.2	13.7	13.5	13.6	14.8	14.6	14.7	14.1	13.7	13.9
15	12.1	11.8	12.0	13.8	13.5	13.6	14.6	14.3	14.4	13.8	13.6	13.6
16	11.8	11.5	11.6	13.5	13.2	13.3	14.3	14.0	14.1	13.9	13.8	13.9
17	11.6	11.5	11.5	13.2	13.0	13.1	14.5	14.3	14.4	14.1	13.8	13.9
18	11.6	11.5	11.6	13.1	13.0	13.0	14.6	14.4	14.5	14.0	14.0	14.0
19	11.5	11.3	11.4	13.6	13.1	13.4	14.4	14.3	14.3	14.1	14.0	14.1
20	12.4	11.5	12.1	13.8	13.6	13.8	14.4	14.3	14.4	14.1	14.0	14.1
21	12.6	12.4	12.5	13.8	13.7	13.7	14.6	14.4	14.5	14.2	14.1	14.1
22	12.5	12.4	12.5	14.3	13.8	14.1	14.5	14.2	14.3	14.3	14.1	14.2
23	12.4	12.0	12.2	14.6	14.3	14.5	14.2	14.0	14.1	14.3	13.8	14.1
24	12.9	12.0	12.3	14.6	14.5	14.5	14.1	14.0	14.0	14.0	13.6	13.8
25	13.5	12.9	13.3	14.7	14.6	14.6	14.3	14.1	14.3	14.1	13.9	14.0
26	13.5	13.2	13.4	14.8	14.6	14.7	14.3	14.2	14.2	14.2	14.0	14.1
27	13.5	13.3	13.4	14.7	14.5	14.6	14.3	14.2	14.2	14.2	14.1	14.2
28	13.3	13.2	13.3	14.6	14.4	14.5	14.2	14.1	14.1	14.1	14.0	14.1
29	13.5	13.3	13.5	14.5	14.3	14.4	14.1	13.8	14.0	14.2	14.0	14.1
30	13.7	13.5	13.6	14.5	14.3	14.4	14.2	14.0	14.1	14.3	13.9	14.1
31	13.8	13.7	13.8	---	---	---	14.3	14.2	14.3	14.1	13.9	14.0
MONTH	13.8	11.3	12.3	14.8	12.8	13.7	14.8	13.8	14.3	14.4	13.6	14.0

OXYGEN, DISSOLVED (DO), MG/L, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
FEBRUARY				MARCH			APRIL			MAY		
1	14.1	13.8	13.9	---	---	---	14.1	14.0	14.0	12.6	12.1	12.2
2	14.3	14.0	14.0	---	---	---	14.4	14.0	14.2	12.5	11.7	12.0
3	14.0	13.6	13.8	---	---	---	14.5	14.3	14.4	12.2	11.5	11.7
4	13.8	13.6	13.7	---	---	---	14.1	13.9	14.0	12.1	11.2	11.4
5	13.9	13.7	13.9	---	---	---	14.3	14.0	14.2	11.3	11.0	11.2
6	13.8	13.6	13.7	---	---	---	14.3	14.0	14.2	11.7	10.6	10.9
7	13.9	13.7	13.8	---	---	---	13.9	13.8	13.8	10.8	10.4	10.6
8	14.1	13.7	13.8	---	---	---	13.9	13.8	13.8	10.6	10.0	10.3
9	13.9	13.7	13.8	---	---	---	14.0	13.7	13.8	10.2	9.7	9.8
10	13.9	13.6	13.8	---	---	---	13.8	13.7	13.7	9.9	9.8	9.8
11	14.0	13.9	13.9	---	---	---	13.8	13.7	13.8	10.2	9.9	10.0
12	---	---	---	---	---	---	13.7	13.5	13.6	10.2	10.0	10.1
13	---	---	---	---	---	---	13.6	13.3	13.5	10.2	10.0	10.1
14	---	---	---	---	---	---	---	---	---	10.2	9.9	10.1
15	---	---	---	---	---	---	---	---	---	10.1	9.8	10.0
16	---	---	---	---	---	---	---	---	---	9.9	9.6	9.8
17	---	---	---	---	---	---	---	---	---	9.6	9.3	9.5
18	---	---	---	---	---	---	---	---	---	9.4	9.3	9.4
19	---	---	---	---	---	---	13.9	13.6	13.8	9.3	9.0	9.2
20	---	---	---	---	---	---	13.8	13.7	13.7	9.0	8.8	8.9
21	---	---	---	---	---	---	13.7	13.5	13.6	8.9	8.8	8.9
22	---	---	---	---	---	---	13.8	13.5	13.7	9.1	8.9	9.0
23	---	---	---	---	---	---	13.7	13.4	13.6	9.1	8.5	8.8
24	---	---	---	14.7	14.5	14.7	13.3	13.1	13.2	8.6	8.3	8.4
25	---	---	---	14.5	14.4	14.5	13.0	12.6	12.9	8.6	8.4	8.5
26	---	---	---	14.3	14.1	14.2	12.5	12.2	12.4	8.7	8.1	8.5
27	---	---	---	14.3	14.1	14.1	12.2	12.1	12.1	8.4	8.1	8.3
28	---	---	---	14.6	14.3	14.5	12.4	12.0	12.2	8.4	8.0	8.2
29	---	---	---	14.6	14.4	14.5	12.6	12.4	12.5	8.3	8.1	8.2
30	---	---	---	14.5	14.4	14.4	12.6	11.8	12.8	8.3	7.9	8.1
31	---	---	---	14.4	14.2	14.3	---	---	---	8.1	7.5	7.9
MONTH	14.3	13.6	13.8	14.7	14.1	14.4	14.5	11.8	13.5	12.6	7.5	9.7
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
JUNE				JULY			AUGUST			SEPTEMBER		
1	7.5	7.3	7.4	8.2	7.9	8.0	8.0	7.8	7.8	9.0	8.7	8.9
2	8.0	7.5	7.7	8.4	8.0	8.2	7.9	7.6	7.8	8.8	8.6	8.7
3	8.5	8.1	8.4	8.7	8.0	8.4	7.9	7.6	7.8	8.6	8.5	8.6
4	8.9	8.6	8.8	9.1	8.3	8.7	7.9	7.7	7.8	8.7	8.4	8.6
5	8.7	8.1	8.4	9.1	8.5	8.8	7.7	7.4	7.6	8.8	8.5	8.7
6	8.6	8.3	8.4	9.0	8.5	8.7	7.9	7.6	7.8	9.0	8.6	8.8
7	8.8	8.6	8.7	8.8	8.3	8.6	8.1	7.8	7.9	9.0	8.6	8.8
8	8.8	8.6	8.7	8.5	8.0	8.2	8.1	7.9	8.0	8.7	8.4	8.5
9	8.8	8.5	8.6	8.1	7.7	7.9	8.1	7.9	8.0	8.7	8.4	8.6
10	8.6	8.2	8.4	7.9	7.5	7.7	8.1	7.9	8.0	8.7	8.5	8.6
11	8.4	8.2	8.3	7.9	7.4	7.7	8.3	7.9	8.1	8.7	8.5	8.6
12	8.4	7.8	8.0	7.9	7.5	7.7	8.3	8.2	8.2	8.6	8.4	8.5
13	8.4	7.9	8.2	8.1	7.6	7.9	8.2	8.1	8.1	8.5	8.3	8.4
14	8.6	8.4	8.6	8.3	7.7	8.0	8.4	8.1	8.2	8.4	8.2	8.3
15	8.7	8.3	8.5	8.2	7.7	7.9	8.5	8.3	8.4	8.4	8.1	8.2
16	8.4	8.2	8.4	7.8	7.1	7.5	8.9	8.3	8.6	8.4	8.2	8.3
17	8.3	8.1	8.2	7.4	6.8	7.1	8.8	8.3	8.6	8.8	8.3	8.5
18	8.2	8.0	8.1	7.2	6.8	7.0	8.6	8.2	8.4	9.1	8.4	8.8
19	8.1	7.9	8.0	7.0	6.7	6.8	8.5	8.0	8.3	9.2	8.9	9.1
20	8.1	7.8	8.0	6.8	6.6	6.7	8.3	8.0	8.2	9.4	8.9	9.2
21	8.1	7.9	8.0	7.1	6.7	6.9	8.3	7.9	8.1	9.2	8.9	9.0
22	8.2	7.9	8.0	7.5	7.2	7.3	8.5	8.0	8.3	9.0	8.9	9.0
23	8.1	7.9	8.0	7.9	7.5	7.8	8.6	8.2	8.5	9.0	8.9	9.0
24	8.2	7.9	8.1	8.1	7.9	8.0	8.7	8.4	8.5	9.1	8.9	9.0
25	8.2	8.0	8.1	8.2	7.9	8.0	8.6	8.4	8.4	9.2	9.0	9.1
26	8.2	7.9	8.1	8.1	7.8	8.0	8.6	8.3	8.4	9.2	9.0	9.1
27	8.3	8.0	8.1	8.1	7.8	8.0	8.6	8.4	8.5	9.1	8.7	8.9
28	8.2	8.1	8.2	7.9	7.6	7.7	9.4	8.4	9.0	9.0	8.6	8.8
29	8.2	7.9	8.0	7.8	7.5	7.7	9.7	9.3	9.5	9.3	8.9	9.1
30	8.2	7.9	8.0	8.1	7.7	7.9	10.0	9.7	9.8	9.5	9.2	9.3
31	---	---	---	8.0	7.8	7.9	9.8	8.9	9.3	---	---	---
MONTH	8.9	7.3	8.2	9.1	6.6	7.8	10.0	7.4	8.3	9.5	8.1	8.8
YEAR	14.8	6.6	11.2									

PENOBSCOT RIVER BASIN

Reservoirs in Penobscot River Basin

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

MONTHEND CONTENTS, IN MILLIONS OF CUBIC FEET, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982

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, 1981	51286	5867	2042
OCT. 31	57798	5805	2160
NOV. 30	52771	4985	1502
DEC. 31	47742	4985	1502
JAN. 31, 1982	39495	4403	2013
FEB. 28	30978	2877	1611
MAR. 31	21616	1328	985
APR. 30	42092	4903	2101
MAY 31	56386	4469	1665
JUNE 30	52430	3582	2072
JULY 31	44192	2484	1866
AUG. 31	38402	2462	1925
SEPT. 30	34113	3799	1529

* 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.

01038000 SHEEPSCOT RIVER AT NORTH WHITEFIELD, ME

LOCATION.--Lat 44°13'23", long 69°35'38", Lincoln County, Hydrologic Unit 01050003, on left bank 50 ft (15 m) upstream from highway bridge on State Route 126 at North Whitefield, at mouth of Finn Brook, and 0.3 mi (0.5 km) east of North Whitefield village.

DRAINAGE AREA.--145 mi² (376 km²), revised.

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

Specific conductance: July 1974 to September 1976.

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

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

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

AVERAGE DISCHARGE.--44 years, 247 ft³/s (6.995 m³/s), 22.66 in/yr (576 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)
Apr. 04	1500	* 2330 66.0	7.06 2.152	Apr. 18	2300	1260 35.7	5.34 1.628

Minimum discharge, 19 ft³/s (0.54 m³/s) Sept. 20,21 gage height, 1.89 ft (0.576 m).

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	51	662	239	189	145	130	1790	485	75	258	58	31
2	51	586	289	190	140	130	1840	447	298	199	54	38
3	52	506	515	195	140	125	1720	405	513	178	52	41
4	52	442	447	200	150	125	2230	378	284	159	50	36
5	49	390	422	210	165	130	2040	341	249	139	51	32
6	46	372	429	235	195	135	1730	303	234	123	50	30
7	52	419	482	270	210	145	1410	275	216	110	45	28
8	64	394	489	295	210	180	1270	255	191	100	43	26
9	75	344	460	300	205	195	1110	231	168	90	61	25
10	58	309	425	295	200	190	954	245	148	82	122	24
11	52	283	395	285	195	170	854	235	130	73	87	23
12	48	262	369	280	190	155	851	213	114	68	66	23
13	46	236	325	270	180	175	820	179	103	64	59	22
14	45	218	311	255	175	260	908	150	104	59	55	22
15	44	212	304	245	170	280	904	140	104	55	51	22
16	43	215	370	235	165	220	893	128	95	53	48	24
17	42	218	409	230	160	200	995	120	100	51	47	24
18	43	306	372	220	155	245	1200	109	104	49	59	22
19	423	423	346	210	150	300	1230	103	91	46	52	20
20	306	383	319	205	150	376	1190	120	86	56	47	19
21	198	498	296	200	145	421	1180	141	80	78	44	20
22	184	482	278	190	140	429	1180	115	73	65	40	23
23	195	438	267	185	140	416	1050	103	69	59	37	26
24	662	404	266	180	140	439	946	99	66	55	38	25
25	532	376	252	175	135	511	833	101	63	51	48	24
26	466	347	240	170	130	674	743	96	62	47	55	22
27	755	323	222	165	130	878	737	89	61	43	52	21
28	994	313	216	160	130	720	713	82	56	48	43	24
29	913	296	211	155	---	713	607	78	145	115	38	25
30	830	265	205	150	---	724	526	79	477	85	34	23
31	755	---	200	145	---	847	---	79	---	65	32	---
TOTAL	8126	10922	10470	6689	4540	10638	34454	5924	4559	2723	1618	765
MEAN	262	364	338	216	162	343	1148	191	152	87.8	52.2	25.5
MAX	994	662	515	300	210	878	2230	485	513	258	122	41
MTN	42	212	200	145	130	125	526	78	56	43	32	19
CFSM	1.81	2.51	2.33	1.49	1.12	2.37	7.92	1.32	1.05	.61	.36	.18
IN.	2.08	2.80	2.69	1.72	1.16	2.73	8.84	1.52	1.17	.70	.42	.20
CAL YR 1981	TOTAL	77856	MEAN	213	MAX	994	MIN	42	CFSM	1.47	IN	19.97
WTR YR 1982	TOTAL	101428	MEAN	278	MAX	2230	MIN	19	CFSM	1.92	IN	26.02

01040500 MOOSEHEAD LAKE AT EAST OUTLET, ME

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

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

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

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

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

REMARKS.--Lake is controlled by dams at East and West Outlets originally built prior to 1840. East Outlet partly rebuilt of concrete in 1947-48 with gate sills at elevation 7.0 ft (2.13 m). Remaining wooden section rebuilt of concrete in 1955-56. Lake outlet dredged in 1948 to permit drawing level down to elevation 10.0 ft (3.05 m) at a faster rate than formerly. Capacity, 23,735,000,000 ft³ (672,200,000 m³) between gage heights 10.0 ft (3.05 m) and 17.5 ft (5.33 m). Water is used primarily for power. Some water was diverted through gates in dam at West Outlet; monthly mean diversion, in cubic feet per second, during water year 1982 is given below:

October	70	February	180	June	70
November	70	March	140	July	50
December	60	April	90	August	40
January	70	May	80	September	30

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

EXTREMES FOR CURRENT YEAR.--Maximum gage height observed, 17.90 ft (5.456 m) Nov 22; minimum observed, 13.60 ft (4.145 m) Apr. 16, 17.

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

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

GAGE HEIGHT, IN FEET, AT 0700, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	17.71	17.74	17.66	17.16	16.86	15.50	14.28	16.70	17.66	17.55	16.44	15.10
2	17.71	17.74	17.64	17.18	16.84	15.46	14.35	16.87	17.66	17.55	16.40	15.10
3	17.72	17.64	17.75	17.20	16.80	15.46	14.28	17.01	17.75	17.52	16.36	15.07
4	17.71	17.74	17.71	17.20	16.78	15.40	14.40	17.25	17.74	17.54	16.28	15.05
5	17.71	17.73	17.68	17.27	16.77	15.38	14.30	17.38	17.70	17.56	16.24	14.96
6	17.69	17.70	17.70	17.26	16.74	15.35	14.18	17.44	17.70	17.54	16.20	14.93
7	17.70	17.70	17.80	17.26	16.70	15.30	14.24	17.50	17.70	17.52	16.16	14.94
8	17.70	17.74	17.80	17.26	16.65	15.30	14.18	17.60	17.68	17.48	16.10	14.90
9	17.70	17.76	17.78	17.26	16.57	15.30	14.14	17.62	17.65	17.48	16.00	14.86
10	17.67	17.76	17.76	17.28	16.54	15.30	13.99	17.65	17.56	17.42	16.00	14.82
11	17.60	17.76	17.74	17.26	16.48	15.25	13.92	17.70	17.52	17.40	15.94	14.80
12	17.58	17.76	17.74	17.23	16.40	15.22	13.82	17.70	17.52	17.34	15.90	14.78
13	17.58	17.76	17.70	17.19	16.37	15.18	13.72	17.76	17.52	17.28	15.86	14.74
14	17.56	17.76	17.65	17.17	16.28	15.15	13.62	17.76	17.53	17.22	15.80	14.69
15	17.56	17.76	17.61	17.17	16.16	15.15	13.65	17.74	17.48	17.20	15.78	14.65
16	17.56	17.76	17.63	17.14	16.12	15.11	13.60	17.68	17.46	17.16	15.74	14.65
17	17.55	17.76	17.57	17.14	16.06	15.07	13.60	17.66	17.46	17.10	15.69	14.61
18	17.54	17.78	17.54	17.11	16.00	15.04	13.70	17.60	17.45	17.06	15.69	14.60
19	17.64	17.78	17.50	17.10	15.92	15.00	13.88	17.65	17.44	17.02	15.62	14.59
20	17.64	17.80	17.48	17.08	15.89	14.91	14.06	17.69	17.34	16.98	15.60	14.56
21	17.66	17.88	17.39	17.04	15.82	14.87	14.20	17.69	17.34	16.94	15.53	14.54
22	17.74	17.90	17.36	17.04	15.75	14.82	14.42	17.69	17.34	16.92	15.48	14.50
23	17.74	17.88	17.36	17.00	15.69	14.78	14.60	17.69	17.32	16.82	15.43	14.46
24	17.78	17.84	17.36	17.00	15.69	14.68	14.80	17.69	17.42	16.78	15.43	14.38
25	17.82	17.82	17.32	16.98	15.64	14.64	14.98	17.71	17.48	16.70	15.36	14.36
26	17.72	17.80	17.28	16.96	15.60	14.58	15.24	17.70	17.51	16.66	15.44	14.30
27	17.72	17.76	17.24	16.94	15.54	14.62	15.52	17.70	17.56	16.60	15.40	14.20
28	17.76	17.72	17.23	16.92	15.50	14.60	15.86	17.63	17.57	16.54	15.36	14.22
29	17.80	17.70	17.20	16.88	---	14.50	16.24	17.61	17.54	16.54	15.30	14.20
30	17.80	17.69	17.16	16.84	---	14.46	16.46	17.63	17.58	16.52	15.23	14.13
31	17.78	---	17.14	16.78	---	14.38	---	17.65	---	16.46	15.18	---
MAX	17.82	17.90	17.80	17.28	16.86	15.50	16.46	17.76	17.75	17.56	16.44	15.10
MIN	17.54	17.64	17.14	16.78	15.50	14.38	13.60	16.70	17.32	16.46	15.18	14.13
†	24,642	24,351	22,572	21,413	17,308	13,742	20,385	24,221	23,994	20,385	16,287	12,949
‡	+194	-291	-1,779	-1,159	-4,105	-3,566	+6,643	+3,836	-227	-3,609	-4,098	-3,338

CAL YR 1981.† +1, 802

WTR YR 1982.† -11, 499

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

‡ Change in contents, in millions of cubic feet.

01041000 KENNEBEC RIVER AT MOOSEHEAD, ME

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

DRAINAGE AREA.--1,268 mi² (3,284 km²).

PERIOD OF RECORD.--October 1919 to September 1982 (discontinued).

REVISED RECORDS.--WSP 1301: 1928-50 (adjusted monthly runoff). WDR ME-81-1: 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 excellent. 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.--63 years, 1,957 ft³/s (55.42 m³/s).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 16,700 ft³/s (473 m³/s) May 3, 1974, Sept. 25, 1981, gage height, 9.76 ft (2.975 m); minimum, about 62 ft³/s (1.8 m³/s) Apr. 7-15, 1923.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 11,800 ft³/s (334 m³/s) Oct 24, gage height, 8.45 ft (2.576 m); minimum, 93 ft³/s (2.63 m³/s) Apr. 18, gage height, 2.05 ft (0.625 m).

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	3260	5960	1050	2440	2330	3210	3850	234	1410	1750	1900	2200
2	3260	6290	1050	2460	2330	3600	3820	234	2250	1080	1880	2180
3	3270	4820	1720	2460	2320	3810	2580	234	2800	1090	2030	2180
4	3260	3100	2310	2460	2330	3790	3050	1630	2780	1090	2360	2170
5	3200	2830	2300	2470	2580	3770	3790	3780	2410	1090	2350	1730
6	3110	2310	1620	2480	2770	3750	3760	4710	2240	1760	2340	1750
7	3110	2320	1330	2480	2760	3730	3750	4230	2250	1890	2320	1950
8	3120	2330	2400	2480	3150	3740	3700	5090	2540	1700	2290	1680
9	3770	2330	2400	2480	3540	3720	4360	5790	3130	1990	2280	1480
10	3710	2320	2860	2480	3520	3700	5180	6330	2630	2180	2280	1480
11	2600	2320	2900	2470	3480	3680	5070	7760	1760	2160	1950	1460
12	2310	1500	2660	2460	3440	3660	4970	8690	1480	2140	1750	1450
13	2310	1220	2650	2460	3400	3640	4850	8720	1480	2140	1740	1830
14	1700	1290	2630	2450	3380	3620	3760	8750	2350	2110	1740	2070
15	1300	1020	2600	2450	3330	3600	3020	8690	2470	2100	1730	2070
16	1310	1680	3020	2450	3300	3570	3020	7950	2180	2090	1710	1680
17	1310	2340	3290	2430	3260	3550	3020	7540	2180	2090	1700	1430
18	1920	2360	3230	2430	3230	3520	1320	5680	2170	2070	1700	1420
19	2800	2360	3230	2420	3200	3970	153	3900	2170	2060	1690	1410
20	2060	2350	3220	2410	3160	4370	234	3600	2160	2030	1680	1400
21	1040	2630	3190	2410	3120	4310	256	3600	2160	2030	1660	1400
22	860	3750	2530	2400	3100	4280	223	3580	2140	2020	1650	1990
23	1760	3370	2560	2400	3090	4220	223	3580	1980	2010	2380	2440
24	7530	3360	2680	2390	3070	4160	234	3580	440	1990	2090	2420
25	11000	3330	2250	2380	3050	4110	245	3570	309	1980	1620	1980
26	8470	3320	2240	2380	3030	3700	245	3720	309	2510	2030	2380
27	7590	3000	2220	2370	3020	3020	256	3700	315	2860	2280	2350
28	7320	3300	3180	2360	3000	3630	228	3100	779	2570	2280	2350
29	7290	2600	3870	2330	---	3980	234	1900	1790	1230	2250	2320
30	7280	1570	3860	2330	---	3930	234	1410	2540	1600	2240	2290
31	7270	---	3020	2320	---	3880	---	1410	---	1890	2220	---
TOTAL	120100	83280	80070	75190	85290	117220	69635	136692	57602	59300	62120	56940
MEAN	3874	2776	2583	2425	3046	3781	2321	4409	1920	1913	2004	1898
MAX	11000	6290	3870	2480	3540	4370	5180	8750	3130	2860	2380	2440
MTN	860	1020	1050	2320	2320	3020	153	234	309	1080	1620	1400

CAL YR 1981 TOTAL 691105 MEAN 1893 MAX 14800 MTN 191
WTR YR 1982 TOTAL 1003439 MEAN 2749 MAX 11000 MTN 153

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.--1,590 mi² (4,118 km²), revised.

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

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

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

REMARKS.--Records good except those for period of no gage-height record June 22 to August 20, which are fair. Flow regulated by Moosehead Lake (station 01040500), Brassua Lake, and Moxie, Indian, and First Roach Ponds (Reservoirs in Kennebec River Basin). Several observations of water temperature and specific conductance were made during the year.

AVERAGE DISCHARGE.--81 years, 2,607 ft³/s (73.83 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, 17,300 ft³/s (490 m³/s) Oct. 24, gage height, 9.16 ft (2.792 m); minimum daily, 190 ft³/s (5.38 m³/s) Aug. 22.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	3940	8960	2070	3280	2850	4070	5150	3220	2430	1150	215	2640
2	4270	8090	2270	3010	3250	3940	5300	3350	2390	825	2900	2820
3	4630	7360	2400	3110	3650	4010	4510	3160	2470	755	2950	2710
4	4180	3810	2390	3210	3100	3620	4260	3590	2650	615	2500	1160
5	4230	3680	2000	3570	3500	3840	5020	5820	2540	1600	2300	213
6	3930	3250	1250	3680	2300	3280	5590	4560	2660	2100	2450	1460
7	4020	3080	2500	2560	2350	3510	5400	5220	3490	2300	1590	2850
8	3490	3120	2910	2640	4250	4450	5020	8040	3220	2350	850	2170
9	4770	3500	2950	2550	4450	4540	5440	8380	3370	2300	2900	2120
10	3680	3300	3600	3400	5200	3500	5230	8360	2810	1110	2950	2120
11	3630	2370	3050	3420	3530	4030	5070	8950	2530	1740	2350	1160
12	4000	3380	2600	3200	3230	4260	5360	9840	1850	2060	2900	205
13	3850	1990	4000	3500	4230	3920	5220	9760	405	2950	3100	2650
14	3670	1730	3600	3800	4000	3530	5480	9770	3030	3450	1200	2190
15	2130	1880	3880	3200	3790	4410	4680	9800	2890	2100	290	2160
16	2340	2040	3720	1300	4630	4410	5060	9740	2310	700	3300	1790
17	825	2350	3810	580	3860	4830	4450	9070	2220	1200	2500	1780
18	424	2940	4080	3920	4600	5040	2140	6820	2760	1940	2500	1240
19	3960	3000	3830	3680	3860	4470	2130	5800	2200	2800	1750	391
20	1420	3800	3500	3100	3420	4460	3310	5620	838	2840	1800	2730
21	1840	3350	3680	3500	2020	4480	3710	5120	3040	2850	1140	2840
22	2390	5060	3650	2900	4390	4700	2930	2920	2050	3000	190	2810
23	2570	4900	3000	2000	3370	4210	2980	3170	2200	2900	2530	2290
24	11400	4220	2600	1290	3690	4100	3810	3910	660	1690	3050	3030
25	14200	3660	2310	4000	4450	4770	4110	4400	990	245	2900	1530
26	11100	3680	2970	3900	4660	4030	5380	3950	775	2400	2880	349
27	11100	4290	2380	2700	3280	3320	7240	4020	615	2800	2330	3020
28	11700	3960	4410	3200	2930	4280	8060	3360	2080	3800	1060	2850
29	12200	3620	4010	1700	---	6020	5420	2230	2280	3550	334	2540
30	11500	2710	5130	2500	---	5440	4170	1960	2970	2400	3170	1750
31	10700	---	3170	2400	---	5010	---	1890	---	1500	2750	---
TOTAL	168089	113080	97720	90800	102840	132480	141630	175800	66723	64020	65629	59568
MFAN	5422	3769	3152	2929	3673	4274	4721	5671	2224	2065	2117	1986
MAX	14200	8960	5130	4000	5200	6020	8060	9840	3490	3800	3300	3030
MTN	424	1730	1250	580	2020	3280	2130	1890	405	245	190	205
CAL YR 1981	TOTAL	976041	MEAN	2674	MAX	20700	MTN	260				
WTR YR 1982	TOTAL	1278379	MEAN	3502	MAX	14200	MTN	190				

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.--516 mi² (1,336 km²).

PERIOD OF RECORD.--October 1939 to September 1982 (discontinued). Monthly discharge only for October to December 1939, in WSP 1301.

REVISED RECORDS.--WDR ME-81-1: Drainage area.

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

REMARKS.--Records good. 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.--43 years, 857 ft³/s (24.27 m³/s), 22.55 in/yr (573 mm/yr).

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

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 8,800 ft³/s (249 m³/s) May 30, gage height, 9.37 ft (2.856 m); minimum daily, 6.3 ft³/s (0.18 m³/s) Mar. 27.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1941 TO SEPTEMBER 1982
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	32	1620	647	971	1430	1460	1680	35	263	558	1080	674
2	33	1060	640	970	1430	1630	1670	43	405	320	1220	669
3	34	853	910	971	1420	1710	1010	57	712	903	1290	800
4	37	814	1150	965	1230	1680	1030	330	1400	1190	1090	1100
5	37	785	1090	1020	1010	1640	1670	1180	1410	1160	966	1000
6	41	795	1090	1050	1010	1610	1650	1270	954	1150	955	1160
7	44	861	542	1050	1010	1590	1620	1380	742	962	945	1550
8	46	885	588	1050	1000	1560	1620	2330	720	319	934	1350
9	47	839	1150	1040	998	1270	1600	3840	699	782	926	813
10	49	804	1460	1040	994	1080	1570	5300	666	952	916	966
11	51	832	1240	1040	992	1080	1550	5340	623	954	369	1460
12	53	823	1050	1030	1090	1070	1530	4310	584	943	577	1360
13	55	753	1050	1020	1150	583	1510	2370	566	1250	922	1460
14	57	715	593	1600	1140	331	1480	1600	869	1410	944	1530
15	60	695	305	2060	1140	516	1470	1600	684	1320	1030	1390
16	58	686	306	2050	1120	636	1460	1600	465	921	1020	1080
17	59	628	443	2030	1120	1170	600	1580	437	1100	1420	916
18	103	664	614	2020	1110	1600	32	954	532	1270	1630	852
19	114	763	611	2010	1100	1790	8.1	454	1060	1260	1230	813
20	214	770	616	2100	1090	1820	8.4	375	1400	1250	966	747
21	275	895	614	2230	1080	1800	13	817	881	1240	972	710
22	314	953	614	2280	1150	1780	10	1040	576	1230	934	801
23	443	924	614	2200	1230	1760	8.3	2840	579	1220	1430	941
24	2920	883	613	2110	1220	1750	17	342	585	1200	1170	955
25	2400	835	610	2320	1210	1720	68	400	281	1180	321	853
26	1460	797	609	2400	1190	1090	117	761	102	1150	424	777
27	1590	760	608	2350	1380	6.3	202	830	130	1130	717	916
28	2590	751	608	2330	1480	1010	87	527	154	1120	708	976
29	3600	734	829	2300	---	1720	35	316	749	1120	700	899
30	3370	705	979	2290	---	1700	31	2640	1130	1110	693	833
31	2490	---	975	1760	---	1690	---	210	---	1090	682	---
TOTAL	22716	24882	23768	51657	32524	41852.3	25356.8	46671	20358	32764	29181	30351
MEAN	733	829	767	1666	1162	1350	845	1506	679	1057	941	1012
MAX	3600	1620	1460	2400	1480	1820	1680	5340	1410	1410	1630	1550
MIN	32	628	305	965	992	6.3	8.1	35	102	319	321	669
MEAN‡	1209	797	466	258	292	377	3620	2288	647	66	140	167
CFSM‡	2.34	1.54	.90	.50	.57	.73	7.02	4.43	1.25	.13	.27	.32
IN ‡	2.70	1.72	1.04	.58	.59	.84	7.83	5.11	1.40	.15	.31	.36
CAL YR 1981 TOTAL	260934.0			MEAN 715	MAX 3600	MIN 11	MEAN‡ 808	CFSM‡ 1.57	IN ‡ 21.26			
WTR YR 1982 TOTAL	382081.1			MEAN 1047	MAX 5340	MIN 6.3	MEAN‡ 861	CFSM‡ 1.67	IN ‡ 22.63			

‡ Adjusted for change in contents in Flagstaff Lake.

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.--2,715 mi² (7,032 km²).

PERIOD OF RECORD.--June 1907 to June 1910, October 1930 to current year.

Water-quality records: Water years 1966-78.

Specific conductance: October 1975 to September 1978.

Water temperatures: October 1975 to September 1978.

REVISED RECORDS.--WSP 1271: 1951(M). WSP 1301: 1936(M). WDR ME-81-1: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 330.20 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 except those for period of no gage-height record Dec.18 to Feb. 2, , which are fair. 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.--54 years (water years 1908-09, 1931-82), 4,433 ft³/s (125.5 m³/s).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 58,800 ft³/s (1,670 m³/s) Mar. 20, 1936, gage height, 14.44 ft (4.401 m), from rating curve extended above 30,000 ft³/s (850 m³/s) on basis of computations of flow at Wyman Dam plus inflow; minimum daily, 110 ft³/s (3.12 m³/s) Dec. 25, 1947.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 30,900 ft³/s (875 m³/s) Oct. 24, gage height, 12.21 ft (3.722 m); minimum daily, 2,610 ft³/s (73.9 m³/s) Oct. 17.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	4920	12300	3000	4500	5200	5400	8610	8910	3440	3270	2910	3090
2	5050	9900	3050	4600	5100	5350	8690	8810	3070	3100	3020	3100
3	5150	10100	3100	4500	4980	5250	8670	8730	3670	2910	3130	2940
4	5200	5440	3950	4480	4880	5250	8560	8730	5180	2990	3020	2940
5	5150	5070	3850	4450	5240	5210	8440	8700	5120	2990	3180	3110
6	4900	5150	3750	4350	4980	5330	8350	8620	4990	3050	3100	3110
7	4240	5010	4300	4400	5050	5220	8270	9810	5080	3210	3130	3030
8	4490	5080	4500	4400	4940	5340	8230	14100	4960	3240	3070	3170
9	4550	5050	4450	4400	5100	5340	8230	16500	4590	3300	3100	3160
10	4480	4930	4350	4400	4970	5550	8190	17400	3610	3350	3050	3100
11	4640	4940	4800	4550	5180	5170	8180	18000	3270	3520	2910	3120
12	4560	4080	4550	4600	5150	5280	8180	17300	3270	3440	2910	3150
13	3760	3860	4500	4500	5050	5230	8200	15500	3300	3350	3050	3100
14	2990	3400	4420	5000	4980	5100	8220	12400	3180	3470	3210	3160
15	2880	3300	4390	5050	5140	5700	8220	12600	3160	3520	3240	3050
16	3020	3100	4440	5200	4980	5830	8280	12300	3130	3380	3070	3130
17	2610	3000	4430	5400	5320	5790	8620	12200	3180	3410	3180	3180
18	2910	4750	4500	5000	5370	5900	9510	11400	3100	3700	3160	3060
19	3060	5400	4800	5100	5000	6150	9580	7210	3050	3410	3240	3040
20	2830	5050	4450	5100	4990	6240	9370	6630	3020	3350	3160	3220
21	2920	5150	4700	5050	4920	6160	9310	5890	3130	3700	3240	2970
22	3160	7800	4600	5300	4970	6170	9190	6370	3100	3500	3400	3050
23	4630	7000	4550	4900	4950	6140	8840	5820	3180	3580	3260	3120
24	18200	5300	4500	5100	4100	6200	8930	5780	4180	3550	3170	2850
25	22200	5200	4600	4600	4900	6240	9230	5820	3300	3270	3180	3000
26	14300	5550	4600	5300	5250	6640	9600	5370	2860	3520	3220	3320
27	15200	5500	4550	5200	5300	7210	10500	4900	2940	3670	3060	2990
28	17900	5650	4500	5050	5300	7300	18000	5080	2940	3470	2800	3210
29	20500	5450	4600	5400	---	7190	12600	4270	2990	3240	3030	3080
30	18600	4000	4550	5000	---	7270	9080	3950	3100	3180	3050	3080
31	15400	---	4550	5200	---	7710	---	3980	---	3130	3080	---
TOTAL	234400	165510	133880	150080	141290	183860	275880	293080	107090	103770	96330	92630
MEAN	7561	5517	4319	4841	5046	5931	9196	9454	3570	3347	3107	3088
MAX	22200	12300	4800	5400	5370	7710	18000	18000	5180	3700	3400	3320
MIN	2610	3000	3000	4350	4100	5100	8180	3950	2860	2910	2800	2850
CAL YR 1981 TOTAL	1525770			MEAN 4180		MAX 28000		MIN 1930				
WTR YR 1982 TOTAL	1977800			MEAN 5419		MAX 22200		MIN 2610				

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.--353 mi² (914 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 1231: 1904-07, 1928(M), 1932(M), 1936(M), 1938(M), 1944(M), 1950(M). WDR ME-81-1: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 303.3 ft (92.45 m) National Geodetic Vertical Datum of 1929. Nov. 1, 1901, to May 5, 1907, nonrecording gage 1 mi (2 km) upstream at different datum.

REMARKS.--Records good except those for winter period, which are fair. No gage-height record June 18 to July 22. Some regulation at low flows by mills above station. Several observations of water temperature and specific conductance were made during the year.

AVERAGE DISCHARGE.--61 years (water years 1902-06, 1926-82), 714 ft³/s (20.22 m³/s), 27.47 in/yr (698 mm/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 30,800 ft³/s (872 m³/s) Mar. 19, 1936, gage height, 21.17 ft (6.453 m); maximum gage height, 27.78 ft (8.467 m) Feb. 21, 1978 (ice jam); minimum discharge, 18 ft³/s (0.51 m³/s) Oct. 29, 1929, gage height, 2.02 ft (0.616 m).

EXTREMES FOR CURRENT YEAR.--Peak discharges above base of 6,000 ft³/s (200 m³/s) and maximum (*):

Date	Time	Discharge (ft ³ /s) (m ³ /s)	Gage height (ft) (m)	Date	Time	Discharge (ft ³ /s) (m ³ /s)	Gage height (ft) (m)
Oct. 24	1100	7220 204	9.65 2.941	Apr. 27	1500	* 10400 295	11.56 3.523

Minimum discharge, 59 ft³/s (1.67 m³/s) July 27, 28, gage height, 2.55 ft (0.777 m).

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	488	1160	626	305	230	190	1500	2990	334	480	112	136
2	435	945	614	310	230	190	2000	2560	780	350	102	129
3	403	744	656	320	230	185	1600	2420	1810	250	92	231
4	371	498	638	350	230	185	1100	2320	1040	210	87	262
5	341	463	592	400	255	180	1000	2020	778	180	91	185
6	313	498	561	475	310	180	850	1920	680	160	107	151
7	334	805	557	580	350	180	740	1860	540	145	93	131
8	416	725	531	575	335	175	720	1640	440	130	82	115
9	382	626	477	545	320	175	705	1710	380	120	109	106
10	352	556	441	515	300	175	700	1900	330	110	484	100
11	334	508	333	490	290	170	685	1410	280	105	291	91
12	323	488	320	465	280	170	675	1140	250	98	193	90
13	313	478	281	440	270	170	670	1100	240	92	154	113
14	268	540	309	425	260	250	660	1160	255	87	142	107
15	247	498	313	405	250	310	740	1000	270	83	152	132
16	241	503	339	390	245	275	950	942	255	80	134	229
17	238	656	358	365	240	250	1950	843	285	77	113	260
18	232	921	371	350	230	230	4600	721	260	75	100	218
19	1150	1470	367	340	225	220	5520	604	230	73	96	181
20	1090	1110	360	330	220	230	4560	863	220	71	87	153
21	855	1570	350	320	220	245	4500	829	205	70	79	143
22	712	1730	340	310	215	250	4120	603	195	75	73	150
23	855	1320	335	300	210	235	3010	488	220	73	69	151
24	5300	1020	330	290	205	210	3270	433	265	74	73	151
25	3470	833	325	280	205	225	4160	417	240	69	111	148
26	2270	725	320	275	200	260	5600	391	215	64	660	133
27	2590	656	315	265	195	700	8540	353	195	62	423	127
28	3390	626	310	255	195	1500	6660	282	180	67	265	157
29	2050	596	310	250	---	1200	4230	254	350	199	196	183
30	1480	614	305	240	---	1030	3350	245	720	199	157	161
31	1480	---	305	235	---	920	---	339	---	135	140	---
TOTAL	32723	23882	12589	11395	6945	10865	79365	35757	12442	4063	5067	4624
MEAN	1056	796	406	368	248	350	2646	1153	415	131	163	154
MAX	5300	1730	656	580	350	1500	8540	2990	1810	480	660	262
MIN	232	463	281	235	195	170	660	245	180	62	69	90
CFSM	2.99	2.26	1.15	1.04	.70	.99	7.50	3.27	1.18	.37	.46	.44
IN.	3.45	2.52	1.33	1.20	.73	1.14	8.36	3.77	1.31	.43	.53	.49

CAL YR 1981 TOTAL 225239 MEAN 617 MAX 5300 MIN 84 CFSM 1.75 IN 23.74
WTR YR 1982 TOTAL 239717 MEAN 657 MAX 8540 MIN 62 CFSM 1.86 IN 25.26

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.--45.8 mi² (118.6 km²).

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

REVISED RECORDS.--WDR ME-79-1: 1978(M). WDR ME-81-1: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 400.00 ft (121.920 m) National Geodetic Vertical Datum of 1929.

REMARKS.--Records good except those for winter period, which are fair. Flow regulated by Wilson Pond 3.7 mi (6.0 km) upstream. Several observations of water temperature and specific conductance were made during the year.

AVERAGE DISCHARGE.--5 years, 85.8 ft³/s (2.430 m³/s), 25.44 in/yr (646 mm/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 3,080 ft³/s (87.2 m³/s) Apr. 28, 1979, 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, 1,040 ft³/s (29.5 m³/s) Apr. 18, gage height, 11.57 ft (3.527 m); minimum daily, 3.9 ft³/s (0.11 m³/s) July 27.

DISCHARGE, IN CURIC FEET PER SECOND, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	79	148	81	51	26	29	269	182	24	62	11	7.9
2	70	130	112	52	26	29	301	156	316	44	7.9	12
3	64	113	113	52	47	29	226	144	382	36	9.2	40
4	56	100	105	54	66	28	276	124	181	29	7.9	33
5	48	91	99	59	63	28	216	107	120	25	19	24
6	44	112	101	63	60	28	158	98	99	22	12	19
7	71	144	99	70	58	28	138	91	81	20	8.8	16
8	73	118	92	76	55	35	123	96	71	18	7.5	13
9	60	100	86	80	53	33	110	95	60	16	61	12
10	51	88	81	73	50	31	106	81	51	14	65	11
11	45	82	77	67	48	30	115	53	44	13	38	11
12	43	78	74	60	46	32	145	47	38	12	27	12
13	39	71	70	55	44	42	155	46	35	12	22	11
14	37	68	68	51	42	56	186	42	42	11	20	9.7
15	35	67	66	47	41	53	209	39	38	9.7	17	29
16	34	77	64	44	40	49	292	38	42	9.2	15	63
17	33	101	62	42	38	44	522	38	43	9.7	13	57
18	33	136	61	40	37	42	924	33	42	9.2	13	39
19	112	181	60	38	36	44	789	33	35	8.3	11	29
20	83	145	59	36	35	47	597	40	33	9.2	9.7	23
21	68	331	58	35	35	56	600	33	29	8.8	8.8	25
22	65	285	57	33	34	54	485	29	28	7.5	7.9	27
23	207	205	56	32	33	45	346	26	33	7.1	7.5	28
24	800	156	55	31	32	46	338	23	34	5.9	14	26
25	407	127	55	30	32	50	356	24	28	4.8	17	23
26	290	110	54	29	31	110	398	22	33	4.2	32	20
27	503	105	54	29	30	271	544	20	30	3.9	18	19
28	522	102	53	28	30	230	470	18	26	12	14	23
29	343	97	53	28	---	164	309	18	38	23	12	21
30	234	87	52	27	---	153	226	23	99	9.7	9.7	18
31	179	---	52	27	---	171	---	27	---	7.5	8.3	---
TOTAL	4728	3755	2229	1439	1168	2087	9929	1846	2155	483.7	544.2	701.6
MEAN	153	125	71.9	46.4	41.7	67.3	331	59.5	71.8	15.6	17.6	23.4
MAX	800	331	113	80	66	271	924	182	382	62	65	63
MIN	33	67	52	27	26	28	106	18	24	3.9	7.5	7.9

CAL YR 1981 TOTAL 30184.6 MEAN 82.7 MAX 800 MIN 9.6
WTR YR 1982 TOTAL 31065.5 MEAN 85.1 MAX 924 MIN 3.9

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.--572 mi² (1,481 km²).

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

REVISED RECORDS.--WDR ME-81-1: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 133.9 ft (40.81 m) National Geodetic Vertical Datum of 1929.

REMARKS.--Records good except those for winter period, which are fair. Flow regulated by dam 0.4 mi (0.6 km) upstream, and by Great Moose and Sebasticook Lakes and Plymouth Pond, combined capacity about 2,345,000,000 ft³ (66,410,000 m³). Several observations of water temperature and specific conductance were made during the year.

AVERAGE DISCHARGE.--53 years (water years 1930-82), 955 ft³/s (27.05 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, 5,950 ft³/s (169 m³/s) Apr. 23, 8.04 ft (2.451 m); minimum daily, 30 ft³/s (0.85 m³/s) July 19.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1570	4260	1270	600	570	375	2640	3030	180	370	85	46
2	1390	3710	1300	620	560	370	3410	2750	313	317	80	45
3	1250	3210	1530	670	550	370	3800	2520	823	266	70	102
4	1120	2740	1680	740	560	365	4250	2190	942	246	54	110
5	1010	2340	1710	820	590	360	4500	1830	902	225	51	105
6	910	2040	1740	940	630	360	4380	1580	821	208	47	97
7	895	1890	1920	1100	660	360	4140	1380	731	138	47	34
8	879	1780	2140	1120	650	430	3610	1220	620	132	49	31
9	835	1680	2240	1100	630	470	3530	1090	542	176	68	32
10	783	1570	2200	1060	620	435	3090	1020	469	210	104	33
11	734	1470	2070	1020	590	405	2740	827	414	92	81	33
12	557	1380	1890	990	570	390	2570	624	366	66	76	33
13	399	1280	1700	960	550	470	2530	520	323	127	69	32
14	350	1140	1540	930	540	540	2650	381	309	106	44	32
15	331	1040	1440	900	520	530	2820	339	298	72	65	32
16	336	1050	1400	870	500	500	2980	320	290	106	56	31
17	334	1100	1400	840	480	480	3260	309	294	80	39	32
18	318	1220	1370	820	470	520	3870	294	290	69	44	32
19	841	1490	1320	790	460	620	4630	271	278	30	44	33
20	1340	1650	1230	770	445	650	5250	284	273	62	44	35
21	1450	1810	1150	740	430	680	5610	310	263	65	44	37
22	1470	2040	1060	710	425	700	5870	295	251	49	42	73
23	1460	2160	990	700	420	680	5900	265	238	48	37	81
24	2130	2130	910	690	410	680	5610	247	231	50	37	81
25	3180	2010	850	670	400	690	5140	243	222	50	38	83
26	3830	1870	790	650	395	1100	4630	233	224	50	38	84
27	4320	1720	730	630	390	1650	4240	225	230	51	38	119
28	4900	1590	680	620	380	1950	3980	210	219	45	38	118
29	5190	1480	650	610	---	2020	3650	196	231	77	40	89
30	5170	1380	610	590	---	2050	3320	189	372	92	45	137
31	4810	---	600	580	---	2150	---	189	---	85	44	---
TOTAL	54092	56230	42110	24850	14395	23350	118600	25381	11959	3760	1658	1862
MEAN	1745	1874	1358	802	514	753	3953	819	399	121	53.5	62.1
MAX	5190	4260	2240	1120	660	2150	5900	3030	942	370	104	137
MTN	318	1040	600	580	380	360	2530	189	180	30	37	31

CAL YR 1981 TOTAL 325622 MEAN 892 MAX 5190 MIN 165
WTR YR 1982 TOTAL 378247 MEAN 1036 MAX 5900 MIN 30

KENNEBEC RIVER BASIN

01049130 JOHNSON BROOK AT SOUTH ALBION, ME

LOCATION.--Lat 44°29'53", long 69°29'12", Kennebec County, Hydrologic Unit 01030003, on right bank approximately 0.8 mi (1.3 km) downstream from Dutton Pond and approximately 0.5 mi (0.8 km) southwest of Albion.

DRAINAGE AREA.--2.92 mi² (7.56 km²).

PERIOD OF RECORD.--May 1980 to current year.

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

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

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge 62 ft³/s (1.76 m³/s) Apr. 1, 1982, gage height 10.10 ft (3.078 m); minimum discharge, .01 ft³/s (.001 m³/s) many days during Aug., Sept. 1980.

EXTREMES FOR CURRENT YEAR.--Peak discharges above base 30 ft³/s (0.850 m³/s) and maximum (*):

Date	Time	Discharge (ft ³ /s) (m ³ /s)	Gage height (ft) (m)	Date	Time	Discharge (ft ³ /s) (m ³ /s)	Gage height (ft) (m)
Oct. 19	0315	31 0.88	9.52 2.902	Apr. 1	1545	* 62 1.76	10.10 3.078
Oct. 27	1345	35 0.99	9.69 2.954				

Minimum discharge, 0.07 ft³/s (0.002 m³/s) Sept. 20, 21, gage height, 7.88 ft (2.402 m).

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.96	17	3.3	2.2	1.2	1.3	56	5.3	.96	2.5	.32	.21
2	.96	14	2.8	2.2	1.2	1.3	54	4.7	2.5	2.3	.29	.26
3	.96	11	2.0	2.2	1.4	1.3	44	4.2	6.6	2.1	.29	.26
4	.91	9.3	2.0	2.6	2.5	1.3	49	3.9	6.4	1.9	.26	.23
5	.86	7.7	2.1	2.3	2.3	1.3	38	3.3	5.5	1.8	.32	.21
6	.86	2.0	2.2	2.0	2.1	1.4	29	2.9	4.4	1.6	.29	.18
7	1.2	2.8	2.1	2.2	2.0	1.5	22	2.7	3.5	1.3	.26	.16
8	1.2	2.2	2.7	2.3	1.9	3.5	19	2.4	2.9	1.1	.38	.14
9	1.1	6.5	2.2	5.5	1.4	1.2	16	2.3	2.3	.91	1.7	.14
10	1.0	5.6	6.4	4.8	1.2	1.7	15	2.3	2.1	.82	1.4	.12
11	1.0	5.0	5.7	4.2	1.7	1.2	13	2.3	1.9	.68	.82	.12
12	.96	4.6	5.2	3.8	1.7	2.0	14	2.2	1.7	.52	.73	.12
13	.96	4.1	4.7	3.3	1.6	2.4	14	2.0	1.5	.49	.73	.10
14	.91	3.9	4.0	3.0	1.6	3.9	18	1.9	1.5	.42	.64	.10
15	.91	3.7	3.9	2.7	1.5	3.7	17	1.8	1.5	.35	.60	.12
16	.96	3.5	5.3	2.4	1.5	3.7	18	1.7	1.4	.32	.52	.16
17	.86	4.8	5.7	2.2	1.5	4.3	21	1.6	1.5	.32	.49	.12
18	.91	2.6	5.0	2.0	1.5	5.0	25	1.5	1.5	.29	.49	.10
19	13	2.6	4.6	1.8	1.4	9.2	23	1.4	1.3	.26	.38	.10
20	7.4	2.7	4.1	1.7	1.4	11	21	2.1	1.3	.35	.35	.07
21	7.8	11	3.7	1.6	1.4	13	21	2.2	1.1	.38	.32	.14
22	6.9	9.7	3.5	1.5	1.4	12	18	2.0	.96	.35	.29	.21
23	6.6	2.8	3.2	1.5	1.4	12	15	1.9	.91	.35	.29	.21
24	19	2.4	3.1	1.4	1.4	11	13	1.7	.91	.29	.60	.16
25	16	6.2	2.9	1.4	1.3	13	11	1.7	.82	.26	.42	.14
26	17	5.3	2.8	1.4	1.3	18	9.3	1.5	.91	.21	.49	.14
27	27	4.7	2.7	1.3	1.3	23	9.0	1.3	.86	.16	.29	.18
28	32	4.6	2.6	1.3	1.3	23	2.1	1.1	.73	.32	.26	.26
29	30	4.4	2.5	1.3	---	22	7.0	.96	2.5	1.1	.23	.21
30	25	3.8	2.4	1.2	---	21	6.1	.96	3.5	.38	.21	.16
31	21	---	2.3	1.2	---	26	---	.96	---	.35	.21	---
TOTAL	246.08	212.5	154.7	92.5	44.4	258.3	643.5	68.78	71.46	24.48	14.87	4.83
MEAN	7.94	7.08	4.99	2.98	1.59	8.33	21.5	2.22	2.38	.79	.48	.16
MAX	32	17	9.0	9.3	2.5	26	56	5.3	8.5	2.5	1.7	.26
MIN	.86	3.5	2.3	1.2	1.2	1.3	6.1	.96	.73	.16	.21	.07
CFSM	2.72	2.43	1.71	1.02	.55	2.85	7.36	.76	.82	.27	.16	.06
IN.	3.13	2.71	1.97	1.18	.57	3.29	8.20	.88	.91	.31	.19	.06

CAL YR 1981 TOTAL 1614.44 MEAN 4.42 MAX 32 MIN .26 CFSM 1.51 IN 20.56
WTR YR 1982 TOTAL 1836.40 MEAN 5.03 MAX 56 MIN .07 CFSM 1.72 IN 23.39

01049265 KENNEBEC RIVER AT NORTH SIDNEY, ME
(National stream-quality accounting network station)

LOCATION.--Lat 43°28'25", long 69°41'08", Kennebec County, Hydrologic Unit 01030003, on right bank at North Sidney, 5.3 mi (8.5 km) downstream from Sebasticook River, and 11.5 mi (18.5 km) upstream from Cushnoc Dam at Augusta.

DRAINAGE AREA.--5,403 mi² (13,994 km²).

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--October 1978 to current year.

REVISED RECORDS.--WDR ME-81-1: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 14.97 ft (4.563 m) revised, National Geodetic Vertical Datum of 1929. Since July 10, 1980, auxiliary water-stage recorder 11.5 mi (18.5 km) downstream from base gage.

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

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 148,000 ft³/s (4,190 m³/s) Apr. 28, 1979, gage height, 26.40 ft (8.047 m), from rating curve extended above 50,000 ft³/s (1,400 m³/s) on basis of slope-area measurement of peak flow; minimum daily, 2,420 ft³/s (68.5 m³/s) Mar. 10, 1980.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 50,300 ft³/s (1424 m³/s) Oct. 24, gage height, 17.33 ft (5.282 m), backwater from Cushnoc Dam; minimum daily, 3,050 ft³/s (86.4 m³/s) Oct. 17.

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	10600	26400	8040	7500	7100	7400	24700	21400	5200	7990	4180	4060
2	9280	21500	7250	7300	7000	7300	27500	20300	6100	5880	4220	4250
3	8780	20600	10600	7200	7000	7200	25800	19100	12500	5280	4290	4620
4	8700	17200	11100	7500	7800	7100	26600	18900	11500	5170	4260	4840
5	8500	13300	10000	8500	8700	7100	26300	17900	9930	4760	4300	4510
6	8430	12600	9880	10200	9100	7000	24700	16900	8490	4390	4160	4300
7	7770	13700	9850	10000	9400	6900	22700	16600	8500	4210	4080	4040
8	7620	14000	10700	9600	9200	7000	21000	18200	8030	4050	3800	4040
9	7950	12700	10500	8500	9100	7300	20800	21400	7590	4110	4290	3930
10	7720	11900	10300	8400	9000	7400	19800	22200	6550	4120	4410	4060
11	7290	11400	9990	8300	8900	7400	18600	23500	5510	4790	4860	3920
12	7020	11700	9550	8200	8800	7300	18500	22500	5080	4850	4910	4040
13	7150	9740	9190	8100	8800	7200	19200	20500	4760	4710	4480	4070
14	6390	9690	8020	8100	8700	7100	19800	18700	5170	4820	4400	4070
15	5820	8570	8620	8000	8500	7500	21000	15400	5000	4790	4140	3990
16	3710	6850	9420	8000	8400	8000	22500	16400	4980	4530	4500	4840
17	3050	5570	9920	8000	8300	8200	27000	15500	4950	4660	4300	5150
18	5370	10600	9470	7600	8300	8500	36300	15300	4930	4560	4260	4970
19	7590	15000	9100	7700	8200	9200	41800	13500	4850	4460	4210	4660
20	11100	13800	8700	7500	8100	9800	34700	10000	4700	4640	4150	4340
21	8980	15100	8200	7500	8000	10500	33400	9760	4700	4360	3960	4250
22	7500	19500	8200	7400	7900	10200	33400	9120	4930	4190	4060	4380
23	8560	17300	8100	7400	7800	10000	28700	8780	4620	4760	4290	4850
24	32500	13800	8000	7400	7800	9800	26600	8190	5000	4570	4290	5070
25	43700	12000	7800	7300	7700	10000	28400	8330	5660	4530	4350	4510
26	32900	11200	7600	7300	7600	12200	30300	8230	5330	4590	4690	4300
27	32600	11500	7500	7300	7500	17300	32600	7210	4500	4470	5580	4260
28	40600	11100	7500	7200	7500	21400	38700	7840	4580	4460	4590	4280
29	41200	11100	7500	7200	---	20200	32800	6230	5020	5230	4140	4620
30	36500	10200	7500	7100	---	17900	24900	4790	7000	5050	4110	4460
31	30800	---	7500	7100	---	18300	---	5110	---	4760	4040	---
TOTAL	465680	399620	275600	244400	230200	309700	809100	447790	185660	147740	134300	131680
MEAN	15020	13320	8890	7884	8221	9990	26970	14440	6189	4766	4332	4389
MAX	43700	26400	11100	10200	9400	21400	41800	23500	12500	7990	5580	5150
MIN	3050	5570	7250	7100	7000	6900	18500	4790	4500	4050	3800	3920
CAL YR 1981	TOTAL	2977480	MEAN	8157	MAX	43700	MIN	3050				
WTR YR 1982	TOTAL	3781470	MEAN	10360	MAX	43700	MIN	3050				

01049265 KENNEBEC RIVER AT NORTH SIDNEY, ME--Continued

WATER-QUALITY RECORDS

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

PERIOD OF DAILY RECORD.--

SPECIFIC CONDUCTANCE: October 1978 to current year.

pH: October 1978 to current year.

WATER TEMPERATURES: October 1978 to current year.

DISSOLVED OXYGEN: October 1978 to current year.

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

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

EXTREMES FOR PERIOD OF DAILY RECORD.--

SPECIFIC CONDUCTANCE: Maximum, 174 micromhos July 13, 1979; minimum, 31 micromhos Apr. 28, 29, 1979.

pH: Maximum, 7.4 units Jan. 23, June 26, 29, July 13, 1979; minimum, 6.1 units Mar. 26, July 27, 1979, June 29, 1981.

WATER TEMPERATURES: Maximum, 27.5°C Aug. 8, 1980; minimum, 0.0°C on many days during winter periods.

DISSOLVED OXYGEN: Maximum, 14.7 mg/L Mar. 29, 1982; minimum, 4.7 mg/L Aug. 15, 1982.

EXTREMES FOR CURRENT YEAR.--

SPECIFIC CONDUCTANCE: Maximum, 88 micromhos Jan. 5; minimum, 34 micromhos Apr. 29, 30.

pH: Maximum, 7.1 units June 15, July 5; minimum, 6.4 units Apr. 28-30, May 9-11.

WATER TEMPERATURES: Maximum, 25.5°C July 19; minimum, 0.0°C on many days during winter period.

DISSOLVED OXYGEN: Maximum, 14.7 mg/L Mar. 29; minimum, 4.7 mg/L Aug. 15.

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982

DATE	TIME	DIS- CHARGE, IN CURIC FEET PER SECOND	SPE- CIFIC CON- DUCT- ANCE (UMHOS)	SPE- CIFIC CON- DUCT- ANCE LAB (UMHOS)	PH (UNITS)	TEMPER- ATURE AIR (DEG C)	TEMPER- ATURE (DEG C)	TUR- BID- ITY (FTU)	OXYGEN, DIS- SOLVED (MG/L)	COLI- FORM, FFCAL, 0.7 UM-MF (COLS./ 100 ML)	STREP- TOCOCCI FECAL, KF AGAR (COLS. PER 100 ML)
NOV 02...	1500	21500	51	45	6.8	11.0	8.0	1.8	12.2	>2000	K17
JAN 13...	1300	8100	64	59	6.8	10.0	.0	1.0	13.8	K470	K2200
FEB 22...	1330	7900	66	60	6.7	4.0	.0	1.9	13.7	130	110
APR 15...	1600	21000	57	51	6.8	20.0	1.5	<1.0	14.2	48	K17
JUN 25...	1200	5660	65	65	6.7	16.0	18.5	1.4	9.1	K700	640
AUG 26...	1830	4690	68	63	6.9	25.0	21.5	1.1	8.8	K160	65

DATE	HARD- NESS (MG/L AS CAC03)	HARD- NESS NONCAR- BONATE (MG/L AS CAC03)	CALCIUM DIS- SOLVED (MG/L AS CA)	MAGNE- SIUM, DIS- SOLVED (MG/L AS MG)	SODIUM, DIS- SOLVED (MG/L AS NA)	POTAS- SIUM, DIS- SOLVED (MG/L AS K)	ALKA- LITY (MG/L AS CAC03)	SULFATE DIS- SOLVED (MG/L AS SO4)	CHLO- RIDE, DIS- SOLVED (MG/L AS CL)	FLUO- RIDE, DIS- SOLVED (MG/L AS F)	SILICA, DIS- SOLVED (MG/L AS SiO2)
NOV 02...	18	4.0	5.3	1.2	2.9	.5	14	7.8	3.9	<.1	4.0
JAN 13...	16	.00	5.0	.9	4.0	.6	17	7.9	4.6	<.1	3.9
FEB 22...	18	5.0	5.1	1.2	4.9	.8	13	9.0	5.3	<.1	4.0
APR 15...	17	4.0	5.0	1.1	3.1	.6	13	7.0	4.1	<.1	4.1
JUN 25...	17	4.0	5.1	1.1	5.8	.6	13	7.0	6.2	<.1	3.9
AUG 26...	16	1.0	5.2	.8	4.8	.3	15	6.0	6.1	<.1	2.4

K RESULTS BASED ON COLONY COUNT OUTSIDE THE ACCEPTABLE RANGE (NON-IDEAL COLONY COUNT).

01049265 KENNEBEC RIVER AT NORTH SIDNEY, ME--Continued

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982

DATE	SOLIDS, RESIDUE AT 180 DEG. C DIS- SOLVED (MG/L)	SOLIDS, SUM OF CONSTITUENTS, DIS- SOLVED (MG/L)	SOLIDS, DIS- SOLVED (TONS PER AC-FT)	SOLIDS, DIS- SOLVED (TONS PER DAY)	NITRO- GEN, NO2+NO3 DIS- SOLVED (MG/L AS N)	NITRO- GEN, AMMONIA DIS- SOLVED (MG/L AS N)	NITRO- GEN, AMMONIA DIS- SOLVED (MG/L AS NH4)	NITRO- GEN,AM- MONIA + ORGANIC TOTAL (MG/L AS N)	PHOS- PHORUS, TOTAL (MG/L AS P)	PHOS- PHORUS, TOTAL (MG/L AS P04)	PHOS- PHORUS, DIS- SOLVED (MG/L AS P)
NOV 02...	42	34	.06	2440	.12	.010	.01	.31	.020	.06	<.010
JAN 13...	46	37	.06	1010	.19	.050	.06	.38	.110	.34	.070
FEB 22...	42	38	.06	896	.24	.080	.10	.16	.010	.03	<.010
APR 15...	47	33	.06	2670	.26	.040	.05	.42	.030	.09	.020
JUN 25...	58	38	.08	886	.25	.060	.08	.50	.020	.06	.020
AUG 26...	43	35	.06	545	.11	.050	.06	.50	.030	.09	.020

DATE	PHOS- PHORUS, ORTHO, DIS- SOLVED (MG/L AS P)	ARSENIC TOTAL (UG/L AS AS)	ARSENIC DIS- SOLVED (UG/L AS AS)	BARIUM, TOTAL RECOV- ERABLE (UG/L AS BA)	BARIUM, DIS- SOLVED (UG/L AS BA)	CADMIUM TOTAL RECOV- ERABLE (UG/L AS CD)	CADMIUM DIS- SOLVED (UG/L AS CD)	CHRO- MIUM, TOTAL RECOV- ERABLE (UG/L AS CR)	CHRO- MIUM, DIS- SOLVED (UG/L AS CR)	COBALT, TOTAL RECOV- ERABLE (UG/L AS CO)	COBALT, DIS- SOLVED (UG/L AS CO)
NOV 02...	.010	1	1	100	9	<1	2	10	<10	1	<1
JAN 13...	<.010	--	--	--	--	--	--	--	--	--	--
FEB 22...	.010	1	1	<100	7	1	1	10	<10	<1	<1
APR 15...	.010	1	1	<100	12	1	1	20	10	3	2
JUN 25...	<.010	--	--	--	--	--	--	--	--	--	--
AUG 26...	<.010	1	1	<100	<100	1	1	10	<10	<1	<1

DATE	COPPER, TOTAL 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 PR)	LEAD, DIS- SOLVED (UG/L AS PR)	MANGA- NESE, TOTAL RECOV- ERABLE (UG/L AS MN)	MANGA- NESE, DIS- SOLVED (UG/L AS MN)	MERCURY TOTAL RECOV- ERABLE (UG/L AS HG)	MERCURY DIS- SOLVED (UG/L AS HG)	NICKEL, TOTAL RECOV- ERABLE (UG/L AS NI)
NOV 02...	7	2	250	74	6	1	30	15	.1	<.1	2
JAN 13...	--	--	--	--	--	--	--	--	--	--	--
FEB 22...	6	2	220	96	6	2	30	18	.2	.2	1
APR 15...	38	18	340	61	16	11	30	18	<.1	<.1	2
JUN 25...	--	--	--	--	--	--	--	--	--	--	--
AUG 26...	6	3	190	10	7	1	30	10	.3	<.1	3

DATE	NICKEL, DIS- SOLVED (UG/L AS NI)	SILVER, TOTAL RECOV- ERABLE (UG/L AS SE)	SILVER, DIS- SOLVED (UG/L AS SE)	SILVER, TOTAL RECOV- ERABLE (UG/L AS AG)	SILVER, DIS- SOLVED (UG/L AS AG)	ZINC, TOTAL RECOV- ERABLE (UG/L AS ZN)	ZINC, DIS- SOLVED (UG/L AS ZN)	SEDI- MENT, SUS- PENDED (MG/L)	SEDI- MENT, DIS- CHARGE, SUS- PENDED (T/DAY)	SED. SUSP. SIEVE DIAM. % FINER THAN .062 MM
NOV 02...	1	<1	<1	<1	<1	40	5	5	290	100
JAN 13...	--	--	--	--	--	--	--	1	22	100
FEB 22...	<1	<1	<1	<1	<1	20	14	5	107	58
APR 15...	1	<1	<1	<1	<1	10	12	15	850	70
JUN 25...	--	--	--	--	--	--	--	10	153	63
AUG 26...	2	<1	<1	<1	<1	40	10	4	51	82

01049265 KENNEBEC RIVER AT NORTH SIDNEY, ME--Continued

SPECIFIC CONDUCTANCE (MICROMHOS/CM AT 25 DEG. C), WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
OCTOBER			NOVEMBER			DECEMBER			JANUARY			
1	54	51	53	48	46	47	58	54	59	57	55	56
2	56	54	55	48	46	47	69	51	64	58	56	58
3	57	55	56	49	48	48	72	68	65	61	59	60
4	57	55	56	51	48	49	68	59	61	65	61	62
5	58	55	57	55	51	53	62	55	57	88	70	78
6	73	57	61	61	55	51	62	57	59	71	66	68
7	61	58	59	61	59	60	65	62	68	66	63	65
8	60	58	59	59	56	58	66	63	70	62	60	61
9	68	58	62	58	56	57	64	57	66	61	60	61
10	68	59	61	58	57	57	58	56	62	64	61	62
11	62	60	61	57	56	57	65	58	61	64	61	62
12	61	60	60	57	55	56	64	61	62	63	62	63
13	68	59	62	58	56	57	65	61	63	65	63	64
14	67	58	61	60	56	58	67	63	64	65	64	65
15	63	58	60	59	57	58	67	62	64	65	64	65
16	67	64	65	65	58	61	72	65	69	65	63	64
17	73	64	68	69	64	61	70	64	67	64	64	64
18	75	70	73	74	68	71	66	65	66	64	62	64
19	83	71	78	69	57	61	66	64	65	63	61	62
20	78	63	70	59	55	56	65	62	63	62	61	61
21	64	59	61	60	55	56	64	62	62	62	61	61
22	63	61	62	55	51	53	65	61	63	61	60	61
23	68	63	65	51	50	50	65	61	63	61	59	60
24	72	47	60	51	49	50	66	62	64	61	59	60
25	46	40	43	52	50	51	66	62	64	62	60	62
26	47	40	43	53	51	52	61	57	58	65	62	63
27	54	47	51	54	52	53	59	54	56	64	63	64
28	51	47	49	55	52	54	58	54	55	64	62	63
29	46	43	44	55	53	54	62	57	59	63	62	63
30	44	43	43	54	51	53	61	53	56	63	60	62
31	45	43	44	---	---	---	58	56	57	62	60	61
MONTH	83	40	58	74	46	55	72	51	62	88	55	63

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
FEBRUARY			MARCH			APRIL			MAY			
1	63	61	62	64	62	64	68	62	64	46	43	44
2	63	62	63	65	62	63	61	56	58	45	44	45
3	73	62	64	63	62	63	56	55	55	47	44	46
4	87	74	79	63	61	62	60	58	59	55	45	49
5	80	69	72	75	61	65	59	56	57	56	48	50
6	68	63	65	73	67	69	58	56	57	52	46	49
7	66	63	64	70	66	67	57	55	56	50	46	48
8	67	64	65	81	68	74	58	57	58	47	43	45
9	66	63	64	79	69	72	59	57	58	43	40	41
10	65	64	64	73	67	69	60	58	59	41	39	40
11	64	63	64	69	64	66	61	58	60	42	41	41
12	64	62	63	66	62	64	61	59	60	---	---	---
13	64	62	63	69	64	66	61	59	59	---	---	---
14	64	61	62	75	66	70	61	59	60	---	---	---
15	66	62	63	76	67	70	59	57	59	---	---	---
16	68	61	64	72	64	68	58	57	57	---	---	---
17	66	64	65	68	64	65	58	53	55	---	---	---
18	65	63	64	72	68	69	53	46	50	---	---	---
19	65	63	64	77	71	74	45	41	42	---	---	---
20	70	63	66	81	71	75	44	41	43	---	---	---
21	71	68	69	77	70	71	46	44	45	---	---	---
22	74	66	71	85	72	77	45	44	45	---	---	---
23	72	66	70	77	68	72	47	45	46	---	---	---
24	69	64	66	75	67	72	48	46	47	---	---	---
25	64	63	64	77	68	72	49	47	48	---	---	---
26	64	63	63	76	69	73	47	43	45	---	---	---
27	65	63	64	73	67	70	44	40	43	---	---	---
28	66	62	64	66	60	62	40	34	37	---	---	---
29	---	---	---	68	60	64	40	34	37	---	---	---
30	---	---	---	65	62	63	43	40	42	---	---	---
31	---	---	---	66	62	64	---	---	---	---	---	---
MONTH	87	61	65	85	60	68	68	34	52	56	39	45

01049265 KENNEBEC RIVER AT NORTH SIDNEY, ME--Continued

SPECIFIC CONDUCTANCE (MICROMHOS/CM AT 25 DEG. C), WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
	JUNE			JULY			AUGUST			SEPTEMBER		
1	---	---	---	73	61	65	69	62	65			
2	---	---	---	63	60	61	70	62	66			
3	---	---	---	71	58	62	69	67	68			
4	---	---	---	73	68	71	71	66	68			
5	---	---	---	74	68	71	71	66	68			
6	---	---	---	70	67	68	70	65	67			
7	---	---	---	71	65	69	68	65	67			
8	---	---	---	67	63	65	70	66	68			
9	---	---	---	64	57	61	74	67	70			
10	---	---	---	64	58	61	78	72	75			
11	---	---	---	66	62	64	77	66	69			
12	---	---	---	72	63	66	69	62	64			
13	---	---	---	72	62	64	63	61	62			
14	---	---	---	64	62	63	69	61	66			
15	56	49	51	65	61	63	72	67	69			
16	57	52	54	66	62	64	---	---	---			
17	61	57	59	67	62	64	---	---	---			
18	64	60	62	64	62	63	---	---	---			
19	66	61	64	66	61	63	69	62	65			
20	63	61	62	68	63	65	64	60	62			
21	70	62	66	68	62	65	70	61	66			
22	74	69	71	64	62	63	64	63	64			
23	84	70	78	65	63	64	---	---	---			
24	81	66	72	63	60	61	---	---	---			
25	68	65	66	61	54	57	---	---	---			
26	67	60	64	60	54	56	---	---	---			
27	70	60	65	64	58	61	64	62	63			
28	67	60	63	70	62	64	64	57	61			
29	75	65	69	74	68	70	63	57	60			
30	79	69	74	69	60	63	67	63	65			
31	---	---	---	63	62	63	70	64	67			
MONTH	84	49	65	74	54	64	78	57	66			
YEAR	88	34	61									

PH (STANDARD UNITS), WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982

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

PH (STANDARD UNITS), WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982

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

01049265 KENNEBEC RIVER AT NORTH SIDNEY, ME--Continued

TEMPERATURE, WATER (DEG. C) * WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982

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

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

KENNEBEC RIVER BASIN

01049265 KENNEBEC RIVER AT NORTH SIDNEY, ME--Continued

TEMPERATURE, WATER (DEG. C), WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
	JUNE			JULY			AUGUST			SEPTEMBER		
1	---	---	---	19.0	18.0	18.5	23.5	22.0	23.0			
2	---	---	---	19.5	18.5	19.0	23.0	22.0	23.0			
3	---	---	---	20.0	18.5	19.0	23.0	21.5	22.0			
4	---	---	---	19.5	18.5	19.0	23.0	22.0	22.5			
5	---	---	---	21.0	18.5	19.5	22.5	21.5	22.0			
6	---	---	---	21.0	19.0	20.0	23.0	21.0	22.0			
7	---	---	---	21.5	20.0	20.5	23.0	21.5	22.5			
8	---	---	---	22.0	20.5	21.5	23.0	22.0	22.5			
9	---	---	---	23.5	21.5	22.5	22.5	21.0	22.0			
10	---	---	---	23.5	22.0	22.5	23.0	21.0	22.0			
11	---	---	---	23.5	22.0	23.0	23.0	22.0	22.5			
12	---	---	---	23.0	22.0	22.5	23.0	21.5	22.5			
13	---	---	---	24.0	22.0	23.0	22.5	21.5	22.0			
14	---	---	---	24.5	22.5	23.5	22.5	21.5	22.0			
15	18.0	16.0	17.0	24.5	23.0	23.5	23.0	21.5	22.0			
16	17.5	17.0	17.5	24.0	23.0	23.5	---	---	---			
17	18.0	17.0	17.5	24.5	23.0	23.5	---	---	---			
18	18.5	17.0	17.5	24.5	23.5	24.0	---	---	---			
19	18.0	17.0	17.5	25.5	24.0	24.5	23.0	21.5	22.0			
20	19.0	17.5	18.0	24.5	23.5	24.0	23.0	21.5	22.0			
21	18.5	17.5	18.0	24.5	22.5	23.5	22.5	21.5	22.0			
22	19.0	17.5	18.0	23.0	22.5	23.0	21.5	20.5	21.0			
23	18.5	18.0	18.5	23.5	22.0	22.5	---	---	---			
24	19.5	17.5	18.5	24.0	22.0	23.0	---	---	---			
25	18.5	18.0	18.0	23.0	22.5	23.0	---	---	---			
26	18.0	17.5	17.5	23.5	22.0	22.5	---	---	---			
27	20.0	17.5	18.5	23.5	22.5	23.0	21.0	20.5	20.5			
28	18.5	17.5	18.0	23.0	21.5	22.5	20.5	19.5	20.0			
29	18.0	17.5	17.5	22.5	21.0	21.5	20.0	19.0	19.5			
30	19.0	17.0	18.0	23.5	21.5	22.5	20.0	18.0	19.0			
31	---	---	---	23.0	22.5	22.5	20.0	19.0	19.5			
MONTH	20.0	16.0	18.0	25.5	18.0	22.0	23.5	18.0	21.5			
YEAR	25.5	.0	7.5									

OXYGEN, DISSOLVED (DO), MG/L, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
	OCTOBER			NOVEMBER			DECEMBER			JANUARY		
1	10.6	10.3	10.4	12.4	12.1	12.3	13.0	12.6	12.9	13.8	13.6	13.7
2	10.3	10.1	10.3	12.2	12.0	12.1	12.6	12.5	12.6	13.8	13.6	13.7
3	10.4	10.2	10.2	12.1	12.0	12.1	12.8	12.7	12.8	14.0	13.8	13.9
4	10.5	10.2	10.3	12.2	11.9	12.0	12.9	12.8	12.8	13.9	13.5	13.8
5	10.5	10.1	10.4	12.1	11.8	11.9	12.9	12.7	12.8	13.6	13.3	13.4
6	10.5	10.1	10.3	11.8	11.5	11.7	13.4	12.7	13.3	13.8	13.6	13.7
7	10.1	9.9	10.0	11.8	11.6	11.7	13.4	13.3	13.3	13.7	13.6	13.7
8	10.2	9.9	10.1	12.1	11.9	12.0	13.5	13.4	13.4	13.7	13.6	13.7
9	10.5	10.2	10.3	12.2	12.0	12.1	13.5	13.4	13.4	13.7	13.5	13.7
10	10.7	10.2	10.5	12.5	12.2	12.4	13.6	13.4	13.5	13.6	13.5	13.6
11	10.9	10.5	10.7	12.4	12.4	12.4	13.7	13.3	13.5	13.7	13.6	13.6
12	11.0	10.7	10.8	12.8	12.4	12.6	13.5	13.3	13.4	13.7	13.6	13.7
13	11.1	10.7	10.8	12.8	12.6	12.7	13.7	13.4	13.6	13.7	13.7	13.7
14	10.9	10.4	10.7	12.9	12.6	12.8	13.7	13.4	13.6	13.6	13.5	13.6
15	10.8	9.9	10.5	12.7	12.5	12.6	13.7	13.4	13.5	13.5	13.4	13.4
16	9.8	8.9	9.3	12.5	12.0	12.3	13.5	13.3	13.4	13.6	13.5	13.6
17	9.7	8.9	9.3	12.1	11.8	11.9	13.8	13.4	13.6	13.6	13.5	13.5
18	10.2	9.2	9.5	12.5	11.9	12.3	13.8	13.6	13.7	13.8	13.6	13.7
19	10.5	10.0	10.3	12.6	12.5	12.6	13.6	13.5	13.6	13.9	13.6	13.8
20	10.9	10.4	10.7	12.7	12.6	12.7	13.8	13.5	13.7	13.8	13.7	13.8
21	11.0	10.6	10.8	12.9	12.6	12.7	13.9	13.6	13.8	13.9	13.8	13.9
22	10.8	10.5	10.6	13.2	12.9	13.1	13.8	13.6	13.7	14.0	13.9	13.9
23	10.7	10.5	10.6	13.3	13.2	13.2	13.6	13.6	13.6	14.1	13.8	14.0
24	12.3	10.7	11.5	13.3	13.1	13.2	13.8	13.6	13.7	13.8	13.5	13.6
25	12.7	12.3	12.6	13.2	13.1	13.2	13.9	13.6	13.8	13.8	13.7	13.7
26	12.7	12.1	12.4	13.3	13.2	13.2	14.1	13.7	13.9	13.8	13.7	13.7
27	12.1	12.1	12.1	13.4	13.2	13.3	13.9	13.7	13.8	13.9	13.7	13.8
28	12.3	12.1	12.1	13.2	13.1	13.2	13.9	13.7	13.8	13.8	13.7	13.7
29	12.5	12.3	12.4	13.1	13.0	13.1	13.8	13.5	13.7	13.8	13.6	13.7
30	12.6	12.5	12.5	13.2	13.0	13.1	14.0	13.5	13.8	13.8	13.8	13.8
31	12.7	12.4	12.5	---	---	---	14.0	13.7	13.8	13.8	13.7	13.7
MONTH	12.7	8.9	10.8	13.4	11.5	12.6	14.1	12.5	13.5	14.1	13.3	13.7

OXYGEN, DISSOLVED (DO), MG/L, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982

[illegible]

KENNEBEC RIVER BASIN

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

AVERAGE DISCHARGE.--18 years (water years 1965-82), 2.01 ft³/s (0.057 m³/s), 29.35 in/yr (745 mm/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 195 ft³/s (5.52 m³/s) Dec. 17, 1973, gage height, 3.89 ft (1.186 m); maximum gage height, 5.52 ft (1.682 m) Jan. 22, 1979 (ice jam); minimum discharge, 0.05 ft³/s (0.001 m³/s) Aug. 21, 1970, Aug. 2, 16, 1975.

EXTREMES FOR CURRENT YEAR.--Peak discharges above base of 30 ft³/s (0.85 m³/s) and maximum (*):

Date	Time	Discharge (ft ³ /s) (m ³ /s)	Gage height (ft) (m)	Date	Time	Discharge (ft ³ /s) (m ³ /s)	Gage height (ft) (m)
Apr. 1	1630	* 35 0.99	4.69 1.430				

Minimum daily discharge, 0.10 ft³/s (0.003 m³/s) Aug. 31, Sept. 1.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.21	2.1	1.1	.96	.73	.62	23	1.2	.36	2.2	.31	.10
2	.21	1.9	6.1	.96	.73	.61	13	1.0	11	1.3	.25	.36
3	.24	1.7	4.4	.95	1.0	.61	9.1	.85	5.6	1.1	.22	.50
4	.22	1.5	2.8	3.1	1.8	.61	23	.79	1.7	.91	.26	.46
5	.20	1.4	2.1	24	2.7	.68	9.7	.73	1.3	.84	.61	.22
6	.19	3.2	2.0	15	2.5	.80	5.7	.53	1.2	.76	.53	.20
7	.74	3.7	2.1	3.6	1.7	.91	4.8	.53	1.1	.73	.29	.19
8	1.2	2.1	1.8	2.5	1.4	1.9	5.5	.58	.97	.60	.27	.18
9	.41	1.6	1.7	2.1	1.2	1.7	3.6	.58	.77	.51	.43	.17
10	.31	1.4	1.7	1.6	1.0	1.3	2.8	.73	.66	.41	1.4	.16
11	.28	1.3	1.6	1.3	.94	1.2	4.0	.63	.57	.36	.50	.49
12	.26	1.3	1.5	1.1	.88	1.2	5.3	.44	.53	.31	.26	.34
13	.24	1.2	1.3	1.0	.84	2.1	5.3	.40	.53	.28	.26	.22
14	.24	1.2	1.2	.96	.82	3.9	7.6	.36	1.2	.26	.25	.19
15	.25	1.3	1.3	.92	.79	3.7	5.8	.32	.36	.24	.19	.16
16	.29	1.5	4.1	.88	.76	2.2	6.0	.32	.44	.22	.17	.25
17	.29	1.7	3.1	.85	.74	2.2	7.9	.26	1.1	.20	.25	.20
18	.93	3.7	1.9	.82	.73	2.5	9.0	.26	.91	.19	.21	.17
19	15	4.2	1.8	.80	.71	3.4	5.3	.26	.44	.18	.19	.15
20	3.1	2.5	1.6	.78	.69	4.2	4.0	1.0	.68	.64	.17	.13
21	1.5	7.1	1.5	.76	.68	5.0	4.9	.91	.48	.45	.15	.15
22	1.2	4.3	1.3	.75	.67	3.2	4.0	.44	.40	.37	.13	.19
23	2.1	2.4	1.2	.74	.66	2.9	2.6	.32	.58	.32	.12	.35
24	16	1.8	1.2	.74	.65	3.7	2.2	.32	.58	.27	.19	.28
25	4.0	1.5	1.1	.73	.64	5.7	1.9	.44	.36	.24	.28	.22
26	3.7	1.5	1.1	.73	.63	11	1.7	.32	.48	.20	.34	.19
27	16	1.5	1.1	.73	.63	9.7	3.1	.20	.40	.18	.25	.14
28	11	1.6	1.0	.73	.62	6.0	2.2	.18	.29	.40	.19	.15
29	4.8	1.6	1.0	.73	---	7.9	1.4	.18	3.0	1.3	.14	.17
30	2.9	1.4	.98	.73	---	5.0	1.2	.36	10	.70	.12	.15
31	2.3	---	.97	.73	---	8.6	---	.48	---	.40	.10	---
TOTAL	90.31	65.2	57.65	72.28	27.84	101.04	185.6	15.92	47.99	17.07	9.03	6.83
MEAN	2.91	2.17	1.86	2.33	.99	3.26	6.19	.51	1.60	.55	.29	.23
MAX	16	7.1	6.1	24	2.7	11	23	1.2	11	2.2	1.4	.50
MIN	.19	1.2	.97	.73	.62	.61	1.2	.18	.29	.18	.10	.10
CFSM	3.13	2.33	2.00	2.51	1.07	3.51	6.66	.55	1.72	.59	.31	.25
IN.	3.61	2.61	2.30	2.89	1.11	4.04	7.42	.64	1.92	.68	.36	.27

CAL YR 1981	TOTAL	543.10	MEAN	1.49	MAX	16	MIN	.12	CFSM	1.60	IN	21.70
WTR YR 1982	TOTAL	696.76	MEAN	1.91	MAX	24	MIN	.10	CFSM	2.05	IN	27.84

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.--32.7 mi² (84.7 km²).

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

REVISED RECORDS.--ME-81-1: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 176.42 ft (53.773 m) National Geodetic Vertical Datum of 1929.

REMARKS.--Records good, except for period of no gage-height record Oct. 18 to Dec. 3, which are fair.
Several observations of water temperature and specific conductance were made during the year.

AVERAGE DISCHARGE.--5 years 53.3 ft³/s (1.509 m³/s), 22.13 in/yr (562 mm/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 381 ft³/s (10.8 m³/s) Mar. 26, 1979, gage height, 4.25 ft (1.295 m); minimum, 1.0 ft³/s (0.028 m³/s) Dec. 19, 1978, gage height, 0.99 ft (0.0302 m).

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 277 ft³/s (7.84 m³/s) Apr. 4, gage height, 3.55 ft (1.082 m); minimum, 3.0 ft³/s (0.085 m³/s) July 8, gage height, 1.18 ft (0.360 m).

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	31	130	62	51	39	26	182	87	22	21	15	14
2	31	115	73	52	37	27	221	83	34	27	15	14
3	31	105	85	51	40	26	226	79	51	25	15	14
4	31	94	85	53	43	26	260	75	52	23	17	14
5	29	78	84	63	44	27	265	71	51	22	17	14
6	27	82	77	69	46	27	247	67	55	21	17	13
7	29	85	75	72	46	27	240	64	53	22	17	13
8	27	83	73	73	45	29	219	62	46	23	17	11
9	26	77	72	72	44	29	201	60	42	24	17	12
10	25	68	70	71	44	29	184	59	39	24	16	16
11	24	62	69	67	43	29	172	56	37	23	16	16
12	22	57	67	65	42	30	164	54	34	21	16	16
13	21	52	64	62	42	32	166	51	33	21	16	15
14	21	47	61	62	41	36	190	49	32	22	15	14
15	20	45	63	60	39	37	237	46	29	22	15	14
16	20	47	66	58	39	38	230	42	28	21	15	11
17	19	51	65	56	37	40	242	39	29	21	14	13
18	45	62	65	53	35	41	257	41	29	21	13	15
19	100	82	65	51	34	45	252	63	30	20	14	14
20	120	93	63	50	35	50	250	59	30	19	14	13
21	105	97	60	48	34	57	235	51	22	18	13	12
22	95	96	58	46	33	69	223	46	17	17	13	11
23	82	93	58	46	32	72	207	42	15	17	13	11
24	83	88	59	47	31	73	190	39	15	17	17	11
25	92	82	56	45	30	77	176	36	14	17	17	11
26	105	76	54	42	29	96	159	34	15	15	16	11
27	120	70	54	41	29	126	157	31	15	15	16	11
28	135	66	54	40	28	126	116	27	15	16	16	10
29	140	62	53	38	---	122	95	25	20	15	15	8.8
30	145	58	51	37	---	124	91	24	20	15	14	7.2
31	140	---	50	37	---	136	---	24	---	15	14	---
TOTAL	1941	2303	2011	1678	1061	1729	6054	1586	924	620	475	380.0
MEAN	62.6	76.8	64.9	54.1	37.9	55.8	202	51.2	30.8	20.0	15.3	12.7
MAX	145	130	85	73	46	136	265	87	55	27	17	16
MIN	19	45	50	37	28	26	91	24	14	15	13	7.2
CFSM	1.91	2.35	1.99	1.65	1.16	1.71	6.18	1.57	.94	.61	.47	.39
IN.	2.21	2.62	2.29	1.91	1.21	1.97	6.89	1.80	1.05	.71	.54	.43
CAL YR 1981	TOTAL	15588.0	MEAN	42.7	MAX	145	MIN	10	CFSM	1.31	IN	17.73
WTR YR 1982	TOTAL	20762.0	MEAN	56.9	MAX	265	MIN	7.2	CFSM	1.74	IN	23.62

LOCATION.--Lat 44°11'04", long 69°59'48", Kennebec County, Hydrologic Unit 01030003, on right bank 100 ft (30 m) upstream from bridge on South Monmouth Road, at South Monmouth.

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

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 847 ft³/s (24.0 m³/s) Apr. 28, 1979, gage height, 8.94 ft (2.725 m); maximum gage height, 9.06 ft (2.761 m) Mar. 27, 1978 (ice jam); minimum discharge, 0.45 ft³/s (0.013 m³/s) Aug. 16-18, 27, 1980, gage height, 1.64 ft (0.500 m).

Date	Time	Discharge (ft ³ /s) (m ³ /s)		Gage height (ft) (m)		Date	Time	Discharge (ft ³ /s) (m ³ /s)		Gage height (ft) (m)	
Oct. 19	0300	249	7.05	5.29	1.612	Apr. 01	1600	* 300	8.50	*a 6.15	1.875
Oct. 24	1200	252	7.14	5.32	1.622						

Minimum discharge, 1.4 ft³/s) Aug. 23, 24, 31, Sept. 1, 2, gage height, 1.73 ft (0.527 m).

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	14	37	14	12	10	9.3	295	20	5.6	38	4.7	1.4
2	13	34	58	12	11	9.1	170	18	70	15	3.9	1.7
3	13	30	53	13	17	9.0	100	16	82	10	3.9	2.5
4	12	25	37	14	24	8.8	208	16	33	7.6	4.0	3.7
5	11	22	29	95	35	10	125	14	23	6.3	6.5	2.7
6	11	37	27	100	39	14	69	12	20	6.8	6.5	2.7
7	15	45	27	74	35	19	74	11	19	7.5	5.1	2.6
8	16	32	24	57	32	27	68	10	17	6.5	4.1	2.7
9	12	25	22	47	29	25	51	9.6	12	5.3	4.5	3.4
10	10	20	21	41	27	20	51	9.7	9.2	4.6	11	3.1
11	9.1	19	20	34	24	17	61	9.6	6.9	4.1	7.7	3.0
12	8.1	18	19	30	22	24	73	9.4	6.1	3.3	5.5	2.7
13	7.6	15	18	26	21	35	75	8.5	5.7	3.0	4.3	2.5
14	7.0	14	14	23	19	51	99	8.0	7.8	3.0	4.1	2.4
15	6.9	15	14	20	18	54	79	7.4	8.2	2.9	3.5	2.3
16	6.6	22	32	18	17	42	76	6.8	6.9	2.7	2.9	2.7
17	6.3	27	38	16	16	30	93	6.4	8.6	2.5	2.6	2.8
18	32	42	26	15	15	37	97	5.3	11	2.4	2.5	2.6
19	198	49	24	13	14	46	67	4.6	7.6	2.4	2.4	2.4
20	67	38	20	12	13	58	51	23	6.7	2.9	2.3	2.0
21	38	81	16	12	12	72	52	13	6.1	4.8	2.3	2.4
22	30	65	15	11	12	47	49	7.3	5.5	4.1	1.9	3.1
23	37	38	14	11	11	43	39	5.6	5.3	3.6	1.6	3.9
24	214	31	14	10	11	56	36	5.1	5.8	3.5	3.4	3.6
25	97	25	13	9.8	10	80	31	6.8	4.8	3.1	3.3	3.3
26	75	22	13	9.5	10	110	28	6.2	4.8	2.8	4.5	3.0
27	148	21	13	9.2	9.8	155	43	5.5	4.7	2.5	4.8	2.8
28	152	22	12	9.0	9.5	85	36	4.7	4.2	3.4	2.7	3.2
29	86	21	12	8.9	---	76	28	4.3	20	20	2.1	3.0
30	51	17	12	8.7	---	70	22	5.0	103	10	1.7	2.8
31	41	---	12	8.6	---	90	---	6.1	---	6.3	1.5	---
TOTAL	1444.6	909	683	779.7	523.3	1429.2	2346	294.9	530.5	200.9	121.8	83.0
MEAN	46.6	30.3	22.0	25.2	18.7	46.1	78.2	9.51	17.7	6.48	3.93	2.77
MAX	214	81	58	100	39	155	295	23	103	38	11	3.9
MIN	6.3	14	12	8.6	9.5	8.8	22	4.3	4.2	2.4	1.5	1.4
CFSM	3.40	2.21	1.61	1.84	1.37	3.37	5.71	.69	1.29	.47	.29	.20
IN.	3.92	2.47	1.85	2.12	1.42	3.88	6.37	.80	1.44	.55	.33	.23
CAL YR 1981	TOTAL	7795.4	MEAN	21.4	MAX	251	MIN	1.6	CFSM	1.56	IN	21.17
QTR YR 1982	TOTAL	9345.9	MEAN	25.6	MAX	295	MIN	1.4	CFSM	1.87	IN	25.38

01049500 COBBOSSECONTEE STREAM AT GARDINER, ME

LOCATION.--Lat 44°13'44", long 69°46'44", Kennebec County, Hydrologic Unit 01030003, on left bank 300 ft (91 m) upstream from Winter Street bridge in Gardiner, 0.4 mi (0.6 km) upstream from mouth, and 0.8 mi (1.3 km) downstream from Gardiner Water District dam.

DRAINAGE AREA.--217 mi² (562 km²).

PERIOD OF RECORD.--June 1890 to September 1964, October 1976 to current year.

REVISED RECORDS.--WSP 541: 1916-20. WSP 1201: Drainage area. WSP 1231: 1910-15. WSP 1701: 1956-59.

GAGE.--Water-stage recorder. Datum of gage is 20.00 ft (6.096 m) National Geodetic Vertical Datum of 1929. June 16, 1890, to Sept. 30, 1964, nonrecording gage at site 0.8 mi (1.3 km) upstream at different datum.

REMARKS. Records good. Flow regulated by Cobbosseecontee Lake (station 01049400) and several other lakes upstream.

AVERAGE DISCHARGE.--80 years (water years 1891-64, 1977-82), 342 ft³/s (9.68 m³/s).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 5,020 ft³/s (142 m³/s) Mar. 21, 1936; minimum, leakage only when all gates in dam were closed.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 1,640 ft³/s (46.4 m³/s) Apr. 4, gage height, 7.07 ft (2.155 m); minimum daily, 23 ft³/s (0.65 m³/s) May 6.

DISCHARGE, IN CURIC FEET PER SECOND, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	893	1100	725	345	330	357	1130	581	440	756	85	39
2	808	1030	646	349	330	205	1320	520	980	872	82	46
3	711	986	666	349	330	66	1380	428	1020	691	80	31
4	659	958	672	353	370	105	1600	336	968	329	79	34
5	374	925	661	392	405	65	1590	154	928	90	81	38
6	214	902	648	438	420	49	1250	23	876	86	83	42
7	140	916	642	474	420	50	1200	25	801	88	80	43
8	34	920	613	485	415	52	1120	26	332	89	80	48
9	189	906	601	481	400	61	1180	26	94	89	85	86
10	383	879	592	478	365	123	1120	28	105	89	84	102
11	377	852	566	450	372	217	1070	31	108	89	83	98
12	371	843	564	432	362	219	1050	35	106	89	77	153
13	368	817	551	417	353	278	1040	33	102	89	58	213
14	368	782	437	412	350	298	977	32	102	103	30	215
15	468	757	339	400	344	436	1020	32	98	113	31	207
16	565	728	339	395	348	598	1070	32	93	100	34	210
17	543	732	342	390	388	598	1100	32	93	98	34	214
18	533	732	346	385	374	597	1150	32	93	93	34	212
19	843	322	349	380	370	555	1150	32	91	92	33	204
20	930	247	350	375	365	558	1100	37	86	96	39	223
21	1110	621	349	370	366	577	1060	35	86	92	36	229
22	1110	1120	347	365	368	588	1030	35	86	112	36	229
23	1010	1020	347	360	358	576	1000	35	83	93	36	217
24	1120	944	347	355	345	573	941	37	73	88	40	271
25	1170	875	347	355	344	590	918	41	44	87	43	271
26	1130	821	347	350	356	658	578	37	41	84	50	269
27	1180	770	347	345	341	773	472	37	42	84	50	208
28	1270	724	347	345	339	827	589	37	42	87	42	186
29	1270	699	347	340	---	824	626	40	60	92	42	208
30	1200	655	345	340	---	817	622	60	316	102	37	217
31	1140	---	345	335	---	854	---	120	---	89	39	---
TOTAL	22481	24583	14464	12040	10228	13139	31453	2989	8389	5151	1723	4763
MEAN	725	819	467	388	365	424	1048	96.4	280	166	55.6	159
MAX	1270	1120	725	485	420	854	1600	581	1020	872	85	271
MIN	34	247	339	335	330	49	472	23	41	84	30	31
CAL YR 1981	TOTAL	121321	MEAN	332	MAX	1270	MIN	33				
WTR YR 1982	TOTAL	151403	MEAN	415	MAX	1600	MIN	23				

01049550 TOGUS STREAM AT TOGUS, MAINE

LOCATION.--Lat 44°15'57", long 69°41'55", Kennebec County, Hydrologic Unit 01030003, on right bank 100 ft (30 m) downstream from mouth of Chase Meadow stream and 600 ft (183 m) downstream from State Route 226 bridge, 1.5 mi (2.4 km) northeast of Chelsea.

DRAINAGE AREA.--23.7 mi² (61.4 km²).

PERIOD OF RECORD.--October 1981 to September 1982.

GAGE.--Water-stage recorder. Datum of gage 131.00 ft (39.929 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.

EXTREMES FOR CURRENT YEAR.--Peak discharges above base of 220 ft ³/s (6.23 m³/s) and maximum (*):

Date	Time	Discharge (ft ³ /s) (m ³ /s)	Gage height (ft) (m)	Date	Time	Discharge (ft ³ /s) (m ³ /s)	Gage height (ft) (m)
Apr. 01	2045	*317 8.98	5.14 1.567	Oct. 29	1630	228 6.46	4.53 1.380

Minimum discharge 5.1 ft³/s (0.121 m³/s) May 29, 30, July 20, 3.02 ft (0.920 m).

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	9.2	103	44	34	26	17	287	64	5.5	47	11	8.7
2	9.6	93	67	34	25	16	282	60	30	33	10	11
3	9.3	71	79	33	28	15	226	55	59	28	9.3	9.9
4	9.0	89	73	39	42	15	299	53	35	26	8.5	9.0
5	17	79	65	79	40	16	260	49	25	22	9.1	8.2
6	14	74	67	74	39	17	219	46	23	19	8.5	7.7
7	11	76	69	70	37	19	189	46	22	16	7.3	7.2
8	9.5	93	66	66	36	27	158	39	19	16	7.0	6.8
9	8.0	120	63	62	34	28	140	35	17	14	12	6.4
10	6.9	96	60	58	32	27	135	35	15	13	18	6.2
11	6.9	85	57	52	31	26	127	35	13	11	18	6.0
12	6.4	77	53	48	30	27	132	34	12	11	16	6.3
13	5.9	69	50	48	29	34	130	30	11	9.8	15	6.0
14	5.9	63	47	44	27	44	149	28	14	9.4	13	5.8
15	5.4	62	44	41	25	46	146	28	20	7.6	12	6.0
16	5.4	61	51	39	24	46	138	24	16	6.6	11	6.1
17	5.4	57	65	37	23	48	147	21	18	5.6	12	5.6
18	6.9	69	59	36	23	50	170	7.1	18	5.3	14	5.4
19	91	76	55	35	22	56	156	5.2	15	5.2	12	5.4
20	73	71	52	34	22	62	132	7.0	14	7.7	10	5.3
21	58	89	49	33	21	70	121	12	12	9.7	10	5.7
22	52	85	47	32	20	73	121	10	11	9.3	9.2	6.2
23	63	76	45	30	20	73	105	7.9	11	8.6	8.4	5.8
24	156	69	43	29	18	77	95	7.2	11	7.1	9.0	5.6
25	107	63	41	28	17	85	86	7.5	9.8	6.0	9.8	5.5
26	96	58	40	27	16	106	79	7.0	10	5.9	12	6.4
27	118	56	39	26	16	145	79	5.8	9.5	5.7	9.9	7.0
28	156	53	38	25	16	121	82	5.7	8.3	8.4	9.6	7.7
29	174	52	37	24	---	106	58	5.4	20	17	8.9	6.9
30	161	47	36	22	---	100	69	5.3	67	14	8.7	8.3
31	130	---	35	22	---	124	---	5.9	---	12	8.6	---
TOTAL	1586.7	2232	1636	1261	739	1715	4517	781.0	571.1	416.9	337.8	204.1
MEAN	51.2	74.4	52.8	40.7	26.4	55.3	151	25.2	19.0	13.4	10.9	6.80
MAX	174	120	79	79	42	145	299	64	67	47	18	11
MIN	5.4	47	35	22	16	15	58	5.2	5.5	5.2	7.0	5.3
CFSM	2.16	3.14	2.23	1.72	1.11	2.33	6.37	1.06	.80	.57	.46	.29
IN.	2.49	3.50	2.57	1.98	1.16	2.69	7.09	1.23	.90	.65	.53	.32

WTR YR 1982 TOTAL 15997.6 MEAN 43.8 MAX 299 MIN 5.2 CFSM 1.85 IN 25.11

Reservoirs in Kennebec River Basin

01038500 BRASSUA LAKE on Moose River, 4 mi (6 km) southwest of Rockwood, Maine, completed in 1928 for power, has usable capacity of 8,560,000,000 ft³ (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.70).

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 1981 TO SEPTEMBER 1982

DATE	BRASSUA LAKE	FIRST ROACH POND	INDIAN POND	MOXIE POND	FLAGSTAFF LAKE	WYMAN POND
SEPT. 30, 1981	9195	980	3330	730	11184	9080
OCT. 31	9410	938	3294	721	12460	9060
NOV. 30	9152	828	3114	712	12377	9020
DEC. 31	8358	369	3114	460	11570	8920
JAN. 31, 1982	5897	0	3114	0	7800	8990
FEB. 29	4463	0	2834	0	5695	8820
MAR. 31	352	0	3168	0	3090	8960
APR. 30	6044	801	3168	685	10284	9060
MAY 31	9238	938	3186	712	12377	8900
JUNE 30	9066	938	2970	685	12295	9100
JULY 31	8854	774	2970	640	9640	8980
AUG. 31	8812	664	3078	550	7494	8930
SEPT. 30	8938	570	3096	478	5304	9020

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.--152 mi² (394 km²).

PERIOD OF RECORD.--July 1941 to current year.
Water-quality records: Water year 1954.

REVISED RECORDS.--WDR ME-81-1: Drainage area.

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. No gage-height record Feb. 16 to Apr. 13. Several observations of water temperature and specific conductance were made during the year.

AVERAGE DISCHARGE.--41 years, 349 ft³/s (9.884 m³/s), 31.18 in/yr (792 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, 12.23 ft (3.728 m) Feb. 21, 1981, (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 maximum (*):

Date	Time	Discharge (ft ³ /s) (m ³ /s)	Gage height (ft) (m)	Date	Time	Discharge (ft ³ /s) (m ³ /s)	Gage height (ft) (m)
Apr. 18	1300	4040 114	7.73 2.356	Apr. 27	2300	* 4710 133	8.22 2.505

Minimum discharge, 26 ft³/s (0.74 m³/s) July 27, 28, gage height, 1.20 ft (0.366 m).

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	303	446	133	127	93	91	780	2200	180	363	81	47
2	267	390	157	130	91	90	925	2010	530	236	95	42
3	295	338	166	135	89	90	750	2130	717	380	101	70
4	344	300	189	150	105	90	940	2070	315	269	61	283
5	295	270	164	185	130	89	700	1840	244	190	114	142
6	241	271	119	230	170	89	490	2190	249	154	100	91
7	391	315	112	205	150	89	300	2450	245	132	63	67
8	497	272	178	185	135	89	260	2430	191	115	51	57
9	457	239	175	175	130	88	235	2680	158	100	48	50
10	342	219	169	165	120	88	210	2670	135	87	56	45
11	282	205	165	155	115	88	195	1510	119	77	49	40
12	247	195	150	145	110	95	185	1040	108	72	40	37
13	221	151	151	140	110	140	175	951	100	71	42	35
14	292	177	155	135	105	190	215	803	117	66	82	33
15	189	183	135	130	105	230	200	715	119	60	110	31
16	180	201	124	125	105	220	285	677	124	54	68	47
17	182	254	128	120	100	200	923	609	143	50	48	85
18	178	276	151	115	100	195	2830	529	109	59	42	74
19	595	281	168	110	99	205	2900	461	91	53	37	59
20	435	236	205	105	98	235	2040	886	97	46	34	50
21	318	223	257	105	97	275	2210	690	99	43	31	47
22	286	209	268	105	96	315	2260	507	163	38	29	49
23	306	184	248	100	95	275	1360	399	510	36	28	47
24	1020	165	229	100	95	260	1620	343	678	34	104	69
25	578	148	190	100	94	380	2330	322	318	31	106	70
26	516	147	153	98	93	570	3510	292	414	30	431	55
27	1310	152	151	98	92	880	4320	259	409	27	171	51
28	1650	165	138	97	92	730	3640	230	236	46	128	127
29	1450	144	133	96	---	640	2210	203	248	237	89	116
30	745	133	142	96	---	540	2010	192	674	187	63	85
31	540	---	136	95	---	650	---	195	---	89	53	---
TOTAL	14842	6889	5139	4057	3014	8206	41008	34483	7840	3432	2555	2101
MEAN	479	230	166	131	108	265	1367	1112	261	111	82.4	70.0
MAX	1650	446	268	230	170	880	4320	2680	717	380	431	283
MIN	178	133	112	95	89	88	175	192	91	27	28	31
CFSM	3.15	1.51	1.09	.86	.71	1.74	8.99	7.32	1.72	.73	.54	.46
IN.	3.63	1.69	1.26	.99	.74	2.01	10.04	8.44	1.92	.84	.63	.51

CAL YR 1981 TOTAL 138468 MEAN 379 MAX 3260 MIN 39 CFSM 2.49 IN 33.89
WTR YR 1982 TOTAL 133566 MEAN 366 MAX 4320 MIN 27 CFSM 2.41 IN 32.69

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.--1,046 mi² (2,709 km²).

PERIOD OF RECORD.--Discharge: January 1905 to current year. Prior to 1922, published as "at Errol Dam."
Water-quality records: Water years 1955, 1958-59.

REVISED RECORDS.--WDR ME-81-1: 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.--77 years, 1,905 ft³/s (53.95 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, 6,250 ft³/s (177 m³/s) May 12; minimum daily, 1150 ft³/s (32.6 m³/s) May 21.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1730	2720	2370	2510	2370	2820	1940	4550	2090	1710	1690	1680
2	1910	2300	2410	2500	2370	2820	1670	4420	2030	1700	1700	1670
3	1970	1950	2390	2460	2380	2820	1490	4430	1670	1690	1650	1650
4	1990	1900	2340	2420	2300	2820	1640	4360	1510	1630	1640	1640
5	2010	2140	2340	2410	2310	2810	1920	4290	1560	1620	1590	1670
6	2000	2010	2350	2390	2410	2810	1990	4190	1720	1630	1460	1700
7	2070	2090	2380	2200	2390	2790	2060	4150	1720	1650	1540	1700
8	2060	2090	2380	2160	2330	2780	2130	4420	1770	1680	1610	1700
9	2060	2160	2420	2280	2320	2770	2140	4670	1870	1760	1650	1700
10	2040	2280	2410	2370	2410	2780	2090	5450	1930	1750	1640	1560
11	2050	2190	2390	2400	2570	2750	2060	6110	1980	1740	1620	1840
12	2060	2600	2430	2430	2560	2730	2110	6250	1970	1730	1620	1710
13	2140	2450	2470	2430	2560	2710	2120	6140	2010	1740	1620	1720
14	2140	2910	2450	2390	2550	2700	2100	5430	2060	1760	1620	1710
15	2140	2370	2410	2350	2560	2570	2110	4430	2090	1750	1630	1700
16	2100	2190	2530	2340	2580	2750	1960	3550	2070	1740	1640	1640
17	2110	2710	2530	2350	2610	2620	1540	2400	2060	1740	1660	1590
18	2200	3320	2510	2370	2610	2590	1620	1570	2050	1730	1660	1590
19	2030	3310	2460	2380	2680	2560	2970	1510	2040	1720	1660	1630
20	1830	3310	2500	2380	2770	2560	3600	1430	2030	1690	1670	1680
21	1850	3270	2540	2370	2780	2550	3970	1150	2020	2060	1670	1670
22	1960	2990	2530	2370	2780	2520	4420	2080	2030	1610	1680	1670
23	1960	2450	2510	2380	2810	2440	4300	1900	1870	1860	1700	1660
24	1840	2370	2510	2390	2800	2360	3600	2140	1660	1750	1590	1650
25	1850	2370	2450	2380	2800	2110	3510	2010	1670	1750	1500	1630
26	1870	2350	2430	2360	2720	2140	4660	2450	1680	1740	1510	1630
27	2020	2350	2430	2380	2810	1580	5590	2250	1680	1740	1530	1660
28	2600	2340	2420	2370	2810	1750	6190	2240	1670	1760	1590	1630
29	2650	2340	2460	2370	---	2200	6000	2240	1680	1710	1640	1630
30	2710	2370	2510	2380	---	2110	5190	2230	1670	1670	1660	1660
31	2720	---	2530	2370	---	2010	---	2230	---	1680	1690	---
TOTAL	64670	74200	75790	73640	71950	78330	88690	106670	55860	53490	50330	49970
MEAN	2086	2473	2445	2375	2570	2527	2956	3441	1862	1725	1624	1666
MAX	2720	3320	2540	2510	2810	2820	6190	6250	2090	2060	1700	1840
MIN	1730	1900	2340	2160	2300	1580	1490	1150	1510	1610	1460	1560
CAL YR 1981	TOTAL	680058	MEAN	1863	MAX	6180	MIN	352				
WTR YR 1982	TOTAL	843590	MEAN	2311	MAX	6250	MIN	1150				

ANDROSCOGGIN RIVER BASIN

01054000 ANDROSCOGGIN RIVER NEAR GORHAM, NH

LOCATION.--Lat 44°26'10", long 71°11'27", Coos County, Hydrologic Unit 01040001, on right bank at Pulsifer Rips, 2.2 mi (3.5 km) downstream from Dead River, and 4.0 mi (6.4 km) upstream from Gorham.

DRAINAGE AREA.--1,361 mi² (3,525 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."

REVISED RECORDS.--WDR ME-81-1: Drainage area.

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. 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.--69 years, 2,465 ft³/s (69.81 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, 12,200 ft³/s (346 m³/s) Apr. 27, gage height, 8.18 ft (2.493 m); minimum daily, 1,780 ft³/s (50.4 m³/s) Aug. 7, 21, Sept. 11, 19.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	2340	3760	2640	2810	2660	3010	3040	7760	2500	2590	1950	1850
2	2280	3540	2760	2770	2580	3050	3250	6790	2920	2200	1910	1860
3	2440	2840	2790	2500	2660	3030	2650	6770	3460	2140	1920	1960
4	2400	2590	2840	2880	2800	3030	2480	6530	2320	2110	1840	1940
5	2410	2600	2730	2890	2730	3040	2570	6170	2090	1980	2360	1840
6	2380	2660	2710	2770	2910	3050	2610	6040	2330	1880	2080	1840
7	2400	2690	2710	2960	2900	3050	2240	6050	2590	1800	1780	1880
8	2510	2720	2730	2520	2840	3040	2550	6060	2360	1870	1810	1830
9	2540	2630	2720	2490	2730	3010	2840	6850	2250	1880	1860	1870
10	2480	2600	2740	2540	2720	3000	2820	7580	2230	1910	1910	1840
11	2430	2890	2750	2620	2810	3000	2630	7670	2230	1880	1900	1780
12	2410	2700	2750	2630	2890	3050	2720	7520	2210	1880	1810	1870
13	2410	3070	2730	2620	2840	3160	2760	7360	2190	1880	1810	1870
14	2470	3100	2750	2700	2840	3290	2760	6930	2270	1860	1840	1860
15	2430	3000	2700	2640	2830	3220	2730	5980	2360	1860	1820	1900
16	2410	2610	2780	2550	2880	3180	2980	4750	2310	1870	1800	2000
17	2320	3080	2830	2570	2870	3160	3680	4080	2390	1860	1810	1930
18	2400	3330	2850	2520	2860	3070	6250	2400	2410	1860	1820	1820
19	3090	3300	2640	2560	2870	3040	7040	2200	2290	1850	1790	1780
20	2830	3260	2590	2590	2990	3030	7200	2370	2290	1850	1820	1830
21	2500	3110	2580	2600	3060	3050	8380	2390	2270	1940	1780	1890
22	2410	3100	2930	2510	3070	3040	8700	1980	2240	2020	1800	1860
23	2480	2930	2850	2530	3080	2930	7440	2540	2570	1810	1810	1890
24	3380	2810	2860	2640	3070	2850	6790	2420	2720	1870	1980	1860
25	3290	2880	2820	2630	3040	2800	7600	2670	2250	1850	1830	1870
26	2990	2740	2750	2520	2860	2930	9390	2570	2120	1860	1900	1800
27	3910	2760	2720	2500	3010	2860	11500	2630	2110	1830	1890	1840
28	6190	2720	2730	2560	3040	2390	11300	2570	1990	1910	1800	1880
29	6100	2720	2720	2610	---	2810	9760	2570	1980	2060	1810	1880
30	4700	2680	2760	2520	---	2890	8360	2570	2950	1990	1810	1840
31	4030	---	2790	2620	---	2780	---	2590	---	1890	1840	---
TOTAL	91360	87420	85250	81370	80440	92840	157020	145360	71200	60040	57890	55960
MFAN	2947	2914	2750	2625	2873	2995	5234	4689	2373	1937	1867	1865
MAX	6190	3760	2930	2960	3080	3290	11500	7760	3460	2590	2360	2000
MIN	2280	2590	2580	2490	2580	2390	2240	1980	1980	1800	1780	1780
CAL YR 1981 TOTAL	892510		MEAN	2445	MAX	9300	MIN	1670				
WTR YR 1982 TOTAL	1066150		MEAN	2921	MAX	11500	MIN	1780				

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.--69.6 mi² (180 km²).

WATER-DISCHARGE RECORDS

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

REVISED RECORDS.--WDR ME-81-1: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 683.10 ft (208.209 m) National Geodetic Vertical Datum of 1929. Prior to Oct. 12, 1977, at site 180 ft (60 m) downstream on left bank at same datum.

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

AVERAGE DISCHARGE.--18 years, 178 ft³/s (5.041 m³/s), 34.73 in/yr (882 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 2,500 ft³/s (70.8 m³/s) revised, and maximum (*):

Date	Time	Discharge (ft ³ /s) (m ³ /s)	Gage height (ft) (m)	Date	Time	Discharge (ft ³ /s) (m ³ /s)	Gage height (ft) (m)
Apr. 17	2115	2630 74.5	6.70 2.042	Apr. 27	0330	* 4090 116	8.04 2.451

Minimum discharge, 15 ft³/s (0.425 m³/s) July 27, 28, Sept 14, 15, gage height 3.28 ft (1.000 m).

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	160	200	130	75	72	61	470	782	150	104	36	24
2	137	171	145	76	72	60	450	703	490	80	31	28
3	123	145	137	73	72	59	380	654	330	76	61	52
4	110	130	106	82	80	59	310	584	170	63	45	43
5	104	120	100	105	92	58	245	532	145	55	194	28
6	98	160	86	140	105	58	200	593	155	48	80	23
7	116	215	130	130	97	58	180	630	145	44	43	21
8	106	145	115	115	91	57	215	630	135	40	32	20
9	96	123	100	110	86	57	195	912	115	36	116	19
10	90	110	95	100	82	57	180	621	100	32	165	18
11	86	106	90	96	80	57	175	392	94	30	68	16
12	84	104	86	93	77	60	165	333	82	29	44	16
13	80	96	88	90	75	73	155	306	72	32	48	16
14	78	96	97	88	74	100	150	262	86	28	52	16
15	76	94	93	86	73	135	155	246	79	25	37	26
16	74	106	89	85	72	125	330	235	94	24	29	82
17	72	285	86	83	70	115	800	218	106	25	29	59
18	74	251	84	82	69	105	2020	194	102	24	37	36
19	405	215	83	81	68	110	836	171	86	21	27	29
20	194	171	89	80	67	130	1060	310	96	34	24	25
21	127	235	105	79	67	145	1340	215	82	43	21	35
22	106	209	100	77	66	140	755	160	80	28	20	39
23	246	150	94	76	66	135	525	135	230	24	18	37
24	922	120	88	76	65	130	1150	115	182	21	26	70
25	311	113	80	75	64	175	1600	110	113	19	32	45
26	285	113	78	74	63	270	1770	100	98	17	203	34
27	827	110	75	74	62	390	2770	96	84	16	61	39
28	746	104	75	73	62	340	1280	87	72	25	47	116
29	431	96	75	72	---	280	755	74	82	100	37	68
30	279	94	75	72	---	250	720	81	227	45	30	55
31	221	---	75	72	---	295	---	130	---	30	26	---
TOTAL	6864	4387	2949	2690	2089	4144	21336	10611	4082	1218	1719	1135
MEAN	221	146	95.1	86.8	74.6	134	711	342	136	39.3	55.5	37.8
MAX	922	285	145	140	105	390	2770	912	490	104	203	116
MIN	72	94	75	72	62	57	150	74	72	16	18	16
CFSM	3.18	2.10	1.37	1.25	1.07	1.93	10.2	4.91	1.95	.57	.80	.54
IN.	3.67	2.34	1.58	1.44	1.12	2.21	11.40	5.67	2.18	.65	.92	.61

CAL YR 1981 TOTAL 69257 MEAN 190 MAX 4000 MIN 15 CFSM 2.73 IN 37.02
WTR YR 1982 TOTAL 63224 MEAN 173 MAX 2770 MIN 16 CFSM 2.49 IN 33.79

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 since July 1964.

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 recorded 24.0°C Sept. 13; minimum recorded 0.0°C on many days during winter period.

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982

DATE	TIME	DIS- CHARGE, IN CURIC FEET PER SECOND	STREAM- FLOW, INSTAN- TANEOUS (CFS)	SPF- CIFIC CON- DUCT- ANCE (UMHOS)	SPF- CIFIC CON- DUCT- ANCE LAR (UMHOS)	PH (UNITS)	TEMPER- ATURE, AIR (DEG C)	TEMPER- ATURE (DEG C)	OXYGEN, DIS- SOLVED (MG/L)	COLI- FORM, FECAL, 0.7 UM-MF (COLS./ 100 ML)	STREP- TOCOCCI FECAL, KF AGAR (COLS. PER 100 ML)
OCT 26...	1230	--	246	20	17	6.3	7.0	6.0	12.2	K3	K6
DEC 21...	1200	105	--	20	15	6.6	4.0	.0	14.4	<1	K5
FEB 23...	1130	66	--	22	15	6.3	6.0	.0	14.2	<1	>100
APR 22...	1500	--	654	19	8	6.3	9.0	3.5	13.2	--	40
JUN 24...	1130	--	176	19	19	6.3	17.5	13.0	10.7	K4	27
AUG 25...	1145	--	24	21	32	6.7	16.0	17.0	9.4	K10	K110

DATE	HARD- NESS (MG/L AS CACO3)	HARD- NESS NONCAR- BONATE (MG/L AS CACO3)	CALCIUM DIS- SOLVED (MG/L AS CA)	MAGNE- SIUM, DIS- SOLVED (MG/L AS MG)	SODIUM, DIS- SOLVED (MG/L AS NA)	POTAS- SIUM, DIS- SOLVED (MG/L AS K)	ALKA- LINITY LAB (MG/L AS CACO3)	SULFATE DIS- SOLVED (MG/L AS SO4)	CHLO- RIDE, DIS- SOLVED (MG/L AS CL)	FLUO- RIDE, DIS- SOLVED (MG/L AS F)	SILICA, DIS- SOLVED (MG/L AS SiO2)
OCT 26...	5	.00	1.4	.4	1.0	.4	5.0	4.3	.7	<.1	.1
DEC 21...	5	3.0	1.4	.5	1.2	.3	2.0	4.9	.7	<.1	6.2
FEB 23...	6	.00	1.4	.6	1.4	.3	6.0	4.7	1.0	<.1	6.5
APR 22...	5	2.0	1.3	.5	.8	.3	3.0	4.0	.5	<.1	4.2
JUN 24...	5	.00	1.3	.4	.9	.2	5.0	4.0	.8	<.1	5.3
AUG 25...	6	.00	1.6	.6	1.4	.3	6.0	4.0	.7	<.1	8.0

K RESULTS BASED ON COLONY COUNT OUTSIDE THE ACCEPTABLE RANGE (NON-IDEAL COLONY COUNT).

01054200 WILD RIVER AT GILEAD, ME--Continued

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982

DATE	SOLIDS, RESIDUE AT 180 DEG. C DIS- SOLVED (MG/L)	SOLIDS, SUM OF CONSTITUENTS, DIS- SOLVED (MG/L)	SOLIDS, DIS- SOLVED (TONS PER AC-FT)	SOLIDS, DIS- SOLVED (TONS PER DAY)	NITRO- GEN, NO2+NO3 TOTAL (MG/L AS N)	NITRO- GEN, NO2+NO3 DIS- SOLVED (MG/L AS N)	NITRO- GEN, AMMONIA TOTAL (MG/L AS N)	NITRO- GEN, AMMONIA DIS- SOLVED (MG/L AS N)	NITRO- GEN, AMMONIA DIS- SOLVED (MG/L AS NH4)	NITRO- GEN, ORGANIC TOTAL (MG/L AS N)
OCT 26...	24	17	.03	15.9	.03	.10	.010	.020	.03	--
DEC 21...	22	16	.03	6.2	.03	.04	.010	.010	.01	.54
FEB 23...	7	20	.01	1.3	.06	.10	.040	.080	.10	.29
APR 22...	14	13	.02	24.7	<.10	<.10	.080	.090	.12	.23
JUN 24...	30	16	.04	14.3	<.10	<.10	.080	.080	.10	.02
AUG 25...	24	20	.07	3.2	.11	<.10	.010	<.010	.01	--

DATE	NITRO- GEN, ORGANIC DIS- SOLVED (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 PO4)	PHOS- PHORUS, DIS- SOLVED (MG/L AS P)
OCT 26...	.22	<.10	.24	--	.34	--	<.010	--	<.010
DEC 21...	.33	.55	.34	.58	.38	2.6	.020	.06	<.010
FEB 23...	.32	.33	.40	.39	.50	1.7	<.010	--	<.010
APR 22...	.05	.31	.14	--	--	--	.010	.03	<.010
JUN 24...	.12	.10	.20	--	--	--	<.010	--	<.010
AUG 25...	--	<.10	.20	--	--	--	<.010	--	<.010

DATE	CARBON, ORGANIC TOTAL (MG/L AS C)	CARBON, ORGANIC DIS- SOLVED (MG/L AS C)	CARBON, ORGANIC SUS- PENDE TOTAL (MG/L AS C)	CYANIDE TOTAL (MG/L AS CN)	SEDI- MENT, SUS- PENDE (MG/L)	SEDI- MENT, CHARGE, SUS- PENDE (T/DAY)	SED. SUSP. SIEVE DIAM. % FINER THAN .062 MM
OCT 26...	3.1	--	--	--	1	.66	100
DEC 21...	1.5	--	--	--	1	.28	100
FEB 23...	--	5.3	.4	--	5	.89	100
APR 22...	3.0	--	--	--	6	11	52
JUN 24...	3.4	--	--	--	2	.95	71
AUG 25...	--	2.1	.2	.06	2	.13	100

01054200 WILD RIVER AT GILEAD, ME--Continued

CHEMICAL ANALYSFS, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982

DATE	ARSENIC TOTAL (UG/L AS AS)	ARSENIC DIS- SOLVED (UG/L AS AS)	BARIUM, TOTAL RECOV- ERABLE (UG/L AS BA)	BARIUM, DIS- SOLVED (UG/L AS BA)	BERYL- LIUM, DIS- SOLVED (UG/L AS BE)	CADMIUM TOTAL RECOV- ERABLE (UG/L AS CD)	CADMIUM DIS- SOLVED (UG/L AS CD)	CHRO- MIUM, TOTAL RECOV- ERABLE (UG/L AS CR)	CHRO- MIUM, DIS- SOLVED (UG/L AS CR)	COBAL T, DIS- SOLVED (UG/L AS CO)
FEB 23...	<1	<1	<100	7	<1	1	2	10	6	<3
AUG 25...	1	<1	<100	9	<1	<1	<1	10	<1	<3

DATE	COPPER, TOTAL 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, DIS- SOLVED (UG/L AS PB)	LITHIUM DIS- SOLVED (UG/L AS LI)	MANGA- NESE, TOTAL RECOV- ERABLE (UG/L AS MN)	MANGA- NESE, DIS- SOLVED (UG/L AS MN)	MERCURY TOTAL RECOV- ERABLE (UG/L AS HG)
FEB 23...	6	<10	240	39	11	<30	9	10	3	.4
AUG 25...	8	<10	340	37	6	<10	<4	40	3	--

DATE	MERCURY DIS- SOLVED (UG/L AS HG)	MOLYB- DENUM, DIS- SOLVED (UG/L AS MO)	SELE- NIUM, TOTAL (UG/L AS SE)	SELE- NIUM, DIS- SOLVED (UG/L AS SE)	SILVER, TOTAL RECOV- ERABLE (UG/L AS AG)	SILVER, DIS- SOLVED (UG/L AS AG)	STRON- TIUM, DIS- SOLVED (UG/L AS SR)	VANA- DIUM, DIS- SOLVED (UG/L AS V)	ZINC, TOTAL RECOV- ERABLE (UG/L AS ZN)	ZINC, DIS- SOLVED (UG/L AS ZN)
FEB 23...	<.1	<10	<1	<1	<1	<1	13	7.0	30	12
AUG 25...	.1	<10	--	<1	<1	<1	15	<6.0	20	<4

01054200 WILD RIVER AT GILEAD, ME--Continued

PESTICIDE ANALYSES, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982

DATE	PCB, TOTAL (UG/L)	PCB, TOTAL IN ROT- TOM MA- TERIAL (UG/KG)	PCN, TOTAL IN ROT- TOM MA- TERIAL (UG/KG)	ALDRIN, TOTAL IN ROT- TOM MA- TERIAL (UG/L)	ALDRIN, TOTAL IN ROT- TOM MA- TERIAL (UG/KG)	CHLOR- DANE, TOTAL IN ROT- TOM MA- TERIAL (UG/L)	CHLOR- DANE, TOTAL IN ROT- TOM MA- TERIAL (UG/KG)	DDD, TOTAL IN ROT- TOM MA- TERIAL (UG/L)	DDD, TOTAL IN ROT- TOM MA- TERIAL (UG/KG)	DDE, TOTAL IN ROT- TOM MA- TERIAL (UG/L)	DDE, TOTAL IN ROT- TOM MA- TERIAL (UG/KG)
AUG 25...	<.10	<1	<1.0	<.01	<.1	<.10	<1.0	<.01	.1	<.01	.3

DATE	DDT, TOTAL (UG/L)	DDT, TOTAL IN ROT- TOM MA- TERIAL (UG/KG)	DI- AZINON, TOTAL (UG/L)	DI- ELDRIN, TOTAL (UG/L)	DI- ELDRIN, TOTAL IN ROT- TOM MA- TERIAL (UG/KG)	ENDO- SULFAN, TOTAL (UG/L)	ENDO- SULFAN, TOTAL IN ROT- TOM MA- TERIAL (UG/KG)	ENDRIN, TOTAL (UG/L)	ENDRIN, TOTAL IN ROT- TOM MA- TERIAL (UG/KG)	ETHION, TOTAL (UG/L)
AUG 25...	<.01	.5	<.01	<.01	<.1	<.01	<.1	<.01	<.1	<.01

DATE	HEPTA- CHLOR, TOTAL (UG/L)	HEPTA- CHLOR, TOTAL IN ROT- TOM MA- TERIAL (UG/KG)	HEPTA- CHLOR, EPOXIDE TOTAL (UG/L)	HEPTA- CHLOR, EPOXIDE TOTAL IN BOT- TOM MA- TERIAL (UG/KG)	LINDANE TOTAL (UG/L)	LINDANE TOTAL IN ROT- TOM MA- TERIAL (UG/KG)	MALA- THION, TOTAL (UG/L)	METH- OXY- CHLOR, TOTAL (UG/L)	METH- OXY- CHLOR, TOTAL IN BOT- TOM MA- TERIAL (UG/KG)	METHYL PARA- THION, TOTAL (UG/L)
AUG 25...	<.01	<.1	<.01	<.1	<.01	<.1	<.01	<.01	<.1	<.01

DATE	METHYL TRI- THION, TOTAL (UG/L)	MIREX, TOTAL (UG/L)	MIREX, TOTAL IN ROT- TOM MA- TERIAL (UG/KG)	NAPH- THA- LENES, POLY- CHLOR, TOTAL (UG/L)	PARA- THION, TOTAL (UG/L)	PER- THANE TOTAL (UG/L)	PER- THANE TOTAL IN BOT- TOM MA- TERIAL (UG/KG)	TOX- APHENE, TOTAL (UG/L)	TOXA- PHENE, TOTAL IN ROT- TOM MA- TERIAL (UG/KG)	TOTAL TRI- THION (UG/L)
AUG 25...	<.01	<.01	<.1	<.10	<.01	<.10	<1.00	<1	<10	<.01

RADIOCHEMICAL ANALYSES, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982

DATE	GROSS ALPHA, DIS- SOLVED (PCI/L AS U-NAT)	GROSS ALPHA, DIS- SOLVED (UG/L AS U-NAT)	GROSS ALPHA, SUSP. TOTAL (UG/L AS U-NAT)	GROSS BETA, DIS- SOLVED (PCI/L AS CS-137)	GROSS BETA, SUSP. TOTAL (PCI/L AS CS-137)	GROSS BETA, DIS- SOLVED (PCI/L AS YT-90)	GROSS BETA, SUSP. TOTAL (PCI/L AS YT-90)	RADIUM 226, DIS- SOLVED, RADON METHOD (PCI/L)	URANIUM DIS- SOLVED, EXTRAC- TION (UG/L)
AUG 25...	.6	.9	<.4	1.1	<.5	1.1	<.5	.09	.03

01054200 WILD RIVER AT GILEAD, ME--Continued

TEMPERATURE, WATER (DEG. C), WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982

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

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

TEMPERATURE, WATER (DEG. C), WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982

[illegible]

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.--130 mi² (337 km²).

PERIOD OF RECORD.--February 1963 to September 1982 (discontinued).

REVISED RECORDS.--WDR ME-81-1: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 620.00 ft (188.976 m) National Geodetic Vertical Datum of 1929 (levels by Corps of Engineers).

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

AVERAGE DISCHARGE.--19 years, 250 ft³/s (7.080 m³/s), 26.12 in/yr (663 mm/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 5,630 ft³/s (159 m³/s) Dec. 29, 1969, gage height, 19.23 ft (5.861 m); minimum, 12 ft³/s (0.34 m³/s) part or all of each day Aug. 20-22, 1975.

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

Date	Time	Discharge		Gage height		Date	Time	Discharge		Gage height	
		(ft ³ /s)	(m ³ /s)	(ft)	(m)			(ft ³ /s)	(m ³ /s)	(ft)	(m)
Apr. 18	2100	2530	71.6	15.02	4.578	Apr. 27	1300	*3410	96.6	16.67	5.081

Minimum discharge, 22 ft³/s (0.62 m³/s) July 28.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	315	456	160	132	100	110	405	1210	193	199	73	42
2	267	402	154	140	98	105	450	1080	416	137	62	43
3	228	352	179	135	100	105	361	1060	640	128	55	101
4	197	305	202	135	150	105	336	991	370	108	52	95
5	170	268	176	155	200	105	307	865	296	91	110	66
6	152	252	159	200	205	105	280	829	300	79	104	52
7	170	312	212	220	195	105	340	819	300	70	63	45
8	187	273	211	200	180	105	442	775	232	63	53	39
9	162	235	154	190	175	105	394	920	188	57	82	36
10	142	207	144	180	165	105	248	1090	157	51	267	33
11	130	186	127	170	160	105	201	708	133	46	148	30
12	119	178	120	160	150	105	238	574	117	43	96	34
13	109	157	129	150	150	140	254	509	105	43	96	32
14	102	150	146	145	145	180	262	463	113	40	121	29
15	98	145	117	140	140	200	289	424	113	38	115	55
16	94	153	132	135	135	180	382	399	107	35	87	264
17	91	264	137	135	130	170	686	373	127	33	68	193
18	89	314	131	130	130	170	1820	342	141	32	57	126
19	411	361	133	130	125	180	1930	312	108	31	49	93
20	369	308	145	125	125	200	1550	395	110	30	43	76
21	278	372	155	120	120	230	1820	359	107	30	39	77
22	228	415	165	120	120	240	1720	301	99	30	34	84
23	210	332	160	115	120	230	1100	267	182	30	32	77
24	782	273	155	115	115	220	1230	241	264	28	41	84
25	631	231	141	110	110	230	1790	228	153	26	60	77
26	481	202	128	110	110	260	2600	207	140	25	185	64
27	812	184	122	105	110	360	3130	185	131	23	126	59
28	1310	174	128	105	110	670	2550	166	104	26	81	92
29	1510	154	133	100	---	475	1640	150	100	96	62	84
30	784	115	130	100	---	411	1310	156	299	63	51	70
31	551	---	128	100	---	386	---	223	---	43	46	---
TOTAL	11179	7730	4613	4307	3873	6398	30065	16621	5845	1774	2558	2252
MEAN	361	258	149	139	138	206	1002	536	195	57.2	82.5	75.1
MAX	1510	456	212	220	205	670	3130	1210	640	199	267	264
MIN	89	115	117	100	98	105	201	150	99	23	32	29
CFSM	2.78	1.99	1.15	1.07	1.06	1.59	7.71	4.12	1.50	.44	.64	.58
IN.	3.20	2.21	1.32	1.23	1.11	1.83	8.60	4.76	1.67	.51	.73	.64

CAL YR 1981 TOTAL 90105 MEAN 247 MAX 2460 MIN 34 CFSM 1.90 IN 25.78
WTR YR 1982 TOTAL 97215 MEAN 266 MAX 3130 MIN 23 CFSM 2.05 IN 27.82

01054500 ANDROSCOGGIN RIVER AT RUMFORD, ME

LOCATION.--Lat 44°33'04", long 70°32'38", Oxford County, Hydrologic Unit 01040002, on right bank below lower power plant of Rumford Falls Power Co. in Rumford and 1,000 ft (305 m) upstream from Swift River.

DRAINAGE AREA.--2,069 mi² (5,359 km²).

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

REVISED RECORDS.--WSP 1001: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 420 ft (128.016 m) National Geodetic Vertical Datum of 1929. Aug. 1, 1937, to Nov. 19, 1979, nonrecording gages in pond above dam in tailrace of upper plant. Prior to Aug. 1, 1937, nonrecording gages in pond and tailrace of middle plant.

REMARKS.--Records good except those for period of no gage-height record, Aug 16 to Sept 30, which are fair. Several observations of water temperature and specific conductance were made during the year. Prior to Nov. 19, 1979, discharge computed from flow over upper dam and through wheels. Flow regulated by Rangeley, Mooselookmeguntic, Richardson, Umbagog, and Aziscohos Lakes (Reservoirs in Androscoggin River Basin), with final regulation at Errol Dam about 84 mi (135 km) upstream.

COOPERATION.--Prior to Nov. 19, 1979, records furnished by Rumford Falls Power Co.

AVERAGE DISCHARGE.--90 years, 3,713 ft³/s (105.0 m³/s).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 74,000 ft³/s (2,100 m³/s) Mar. 20, 1936; minimum daily, 625 ft³/s (17.7 m³/s) Mar. 27, 1911.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 27,100 ft³/s (767 m³/s) Apr. 27, gage height, 12.65 ft (3.856 m); minimum daily, 1,960 ft³/s (55.5 m³/s) Aug. 22.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	4130	6280	3470	3300	3010	3330	5250	13200	3920	4140	2490	2150
2	3780	5790	3850	3060	3000	3330	5690	12000	6220	3400	2550	2120
3	3210	5310	4290	2780	2950	3350	5010	11400	7400	3000	2580	2700
4	3350	4560	4250	2940	3100	3260	4570	11000	4700	2910	2630	2540
5	3110	4320	4090	3500	3450	3310	3810	10200	3710	2770	3040	2200
6	2980	4050	3830	3880	3560	3290	3650	9790	4190	2430	3700	2140
7	3230	4240	3180	3830	3480	3210	2650	10000	5620	2520	2730	2150
8	3280	4410	3240	3620	3460	3280	3040	9860	3820	2250	2360	2160
9	3250	4220	3240	3060	3350	3280	3760	10800	3410	2380	2550	2130
10	3220	3920	3020	3080	3310	3280	4150	13000	3020	2400	3770	2120
11	3080	3830	3420	2910	3200	3280	4010	10900	2890	2230	3050	2200
12	3030	3970	3480	3060	3230	3360	4350	10200	2830	2290	2750	2060
13	2950	3800	3220	2960	3290	3360	4190	9540	2700	2280	2880	2080
14	3020	4010	3240	3140	3300	3730	4100	9050	2980	2250	3030	2130
15	3040	4130	3470	3110	3310	3760	4280	8310	2940	2240	3110	2280
16	2820	4140	3340	3050	3310	3730	4780	7420	2980	2210	2180	2860
17	2850	4000	3160	3100	3270	3740	6670	6360	2940	2290	2140	2700
18	2840	4870	3310	2730	3230	3690	16900	5500	3260	2360	2080	2450
19	3700	5400	3150	2790	3270	3780	17000	3460	3060	2330	2100	2140
20	4730	5010	2880	2990	3280	3750	14400	3710	3010	2330	2040	2110
21	3860	5400	2600	2910	3320	3800	16500	4200	3010	2420	2030	2220
22	3350	5870	3180	2960	3370	3720	16600	3430	2930	2550	1960	2240
23	3330	5070	3250	2760	3400	3660	13200	3500	3210	2280	2020	2360
24	7180	4560	3160	2840	3400	3600	13300	3280	4330	2230	2160	2220
25	7350	4310	3530	3020	3400	3920	16200	3450	3710	2140	2280	2260
26	5670	4150	3340	2980	3160	4620	19400	3380	3190	2230	3040	2180
27	7810	4000	3270	2880	3190	5500	25500	3330	2990	2250	2640	2160
28	12000	4000	3170	2870	3300	4100	23700	3190	2870	2180	2260	2530
29	13300	3920	3230	2950	---	3800	17900	3210	2660	2770	2160	2480
30	9610	3690	3180	2950	---	4120	14600	3710	3960	2800	2130	2360
31	7160	---	3150	2950	---	4610	---	4250	---	2440	2120	---
TOTAL	146220	135230	104190	94960	91900	114550	299160	224630	108460	77300	78560	68430
MEAN	4717	4508	3361	3063	3282	3695	9972	7246	3615	2494	2534	2281
MAX	13300	6280	4290	3880	3560	5500	25500	13200	7400	4140	3770	2860
MIN	2820	3690	2600	2730	2950	3210	2650	3190	2660	2140	1960	2060
CAL. YR 1981	TOTAL	1422820	MEAN	3898	MAX	25400	MIN	1810				
WTR YR 1982	TOTAL	1543590	MEAN	4229	MAX	25500	MIN	1960				

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.--96.9 mi² (251 km²).

PERIOD OF RECORD.--June 1929 to current year.

REVISED RECORDS.--WSP 801: 1934(M). WSP 1301: 1937-38(M), 1942(M). WDR ME-81-1: Drainage area.

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.--53 years, 198 ft³/s (5.607 m³/s), 27.75 in/yr (705 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)
Oct. 28	1630	2690 76.2	5.83 1.777	Apr. 27	0700	* 5160 146	7.62 2.323

Minimum discharge, 11 ft³/s (0.31 m³/s) July 27, 28, gage height, 1.01 ft (0.308 m).

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	188	263	115	100	63	54	440	888	117	150	45	31
2	165	233	134	99	62	54	600	832	666	98	42	37
3	145	201	153	95	62	55	560	850	461	101	77	230
4	136	180	155	100	64	53	620	826	209	79	46	117
5	123	165	128	120	80	53	640	738	177	63	123	63
6	113	196	113	160	100	53	350	826	185	54	76	45
7	155	276	127	140	92	53	250	856	167	48	41	36
8	155	193	131	120	85	56	230	826	127	41	34	32
9	127	165	119	110	81	54	250	1020	103	34	224	29
10	111	148	116	100	78	53	220	900	87	31	299	27
11	101	139	112	96	75	54	200	504	76	27	113	28
12	96	134	107	92	72	56	185	392	68	26	61	31
13	91	115	116	87	70	80	167	365	65	29	49	27
14	87	119	121	84	68	115	168	317	89	26	123	24
15	84	117	110	81	66	150	181	293	84	23	138	121
16	82	130	109	78	65	140	306	279	86	21	71	218
17	79	254	107	76	64	130	780	248	101	19	44	153
18	79	283	101	75	63	125	2160	218	101	18	34	91
19	869	310	102	74	63	130	1110	190	72	18	30	66
20	327	215	110	73	62	145	1010	342	74	17	25	52
21	209	320	120	71	61	170	1190	242	69	18	22	68
22	170	257	125	70	60	180	871	172	72	16	20	74
23	296	196	120	69	59	170	586	143	239	19	19	65
24	1500	162	115	68	60	155	1070	132	224	18	52	77
25	500	145	110	67	58	150	1640	127	117	14	71	62
26	452	134	103	67	57	185	2030	119	113	13	421	50
27	1190	132	98	66	57	350	3550	109	96	12	130	53
28	1490	134	99	65	56	450	1620	94	71	21	69	96
29	856	119	102	64	---	430	926	84	98	160	48	72
30	443	107	98	64	---	380	844	96	373	59	39	59
31	317	---	100	63	---	370	---	150	---	33	34	---
TOTAL	10736	5542	3576	2694	1903	4653	24754	13178	4587	1306	2620	2134
MEAN	346	185	115	86.9	68.0	150	825	425	153	42.1	84.5	71.1
MAX	1500	320	155	160	100	450	3550	1020	666	160	421	230
MIN	79	107	98	63	56	53	167	84	65	12	19	24
CFSM	3.57	1.91	1.19	.90	.70	1.55	8.51	4.39	1.58	.43	.87	.73
IN.	4.12	2.13	1.37	1.03	.73	1.79	9.50	5.06	1.76	.50	1.01	.82

CAL YR 1981	TOTAL	74274	MEAN 203	MAX 3660	MIN 19	CFSM 2.10	IN 28.51
WTR YR 1982	TOTAL	77693	MEAN 213	MAX 3550	MIN 12	CFSM 2.20	IN 29.82

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.--169 mi² (438 km²).

PERIOD OF RECORD.--August 1941 to current year.

REVISED RECORDS.--WDR ME-81-1: Drainage area.

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.--41 years, 304 ft³/s (8.609 m³/s), 24.43 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)
Oct. 24	2300	2610 73.9	5.20 1.585	Apr. 19	0600	* 2720 77.0	5.28 1.609
Oct. 28	1100	2560 72.5	5.16 1.573				

Minimum discharge, 29 ft³/s (0.82 m³/s) Sept. 13, 14, gage height, 1.08 ft (0.329 m).

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	371	744	266	210	140	150	1000	533	163	473	60	45
2	296	602	363	205	135	150	1250	466	508	312	52	47
3	251	502	496	210	145	145	1110	416	1450	222	51	59
4	227	431	466	240	180	145	1260	386	923	192	58	62
5	200	377	412	290	270	145	1250	348	574	147	125	53
6	178	389	376	350	300	145	919	319	487	119	189	45
7	194	537	343	330	280	150	626	294	432	101	136	41
8	230	501	379	315	270	155	588	272	336	91	93	37
9	213	418	338	300	250	165	647	258	260	82	87	35
10	182	360	306	280	250	160	551	258	207	73	267	33
11	163	324	289	270	240	150	525	247	170	67	306	32
12	149	304	275	250	230	145	613	227	145	62	190	31
13	139	280	255	240	220	200	688	211	131	61	127	29
14	136	263	242	230	215	250	816	197	148	58	100	29
15	138	257	256	225	210	280	949	183	171	54	86	30
16	135	272	275	215	200	270	1110	171	156	50	73	38
17	132	324	290	210	195	250	1550	162	164	47	70	49
18	137	403	265	200	190	245	2330	150	199	45	76	51
19	478	544	250	190	185	260	2540	141	170	44	64	46
20	555	538	240	185	180	300	1970	170	148	53	57	42
21	412	777	220	180	180	325	1730	227	134	72	50	45
22	329	981	200	175	175	340	1540	199	121	67	44	49
23	389	787	200	170	170	320	1180	161	122	61	40	55
24	2020	613	210	165	165	320	966	144	152	55	52	59
25	2400	499	230	160	165	320	897	141	139	48	70	58
26	1570	414	220	160	160	450	843	138	122	44	107	53
27	1790	366	210	155	155	650	947	123	115	38	110	51
28	2480	339	200	150	150	966	1050	111	104	41	82	56
29	2030	321	200	150	---	836	831	105	125	91	67	57
30	1340	284	210	145	---	749	641	111	501	96	56	54
31	951	---	230	140	---	754	---	150	---	72	49	---
TOTAL	20215	13751	8712	6695	5615	9890	32917	7019	8577	3038	2994	1371
MEAN	652	458	281	216	201	319	1097	226	286	98.0	96.6	45.7
MAX	2480	981	496	350	300	966	2540	533	1450	473	306	62
MIN	132	257	200	140	135	145	525	105	104	38	40	29
CFSM	3.86	2.71	1.66	1.28	1.19	1.89	6.49	1.34	1.69	.58	.57	.27
IN.	4.45	3.03	1.92	1.47	1.24	2.18	7.25	1.55	1.89	.67	.66	.30

CAL YR 1981	TOTAL	104529	MEAN	286	MAX	2480	MIN	42	CFSM	1.69	IN	23.01
WTR YR 1982	TOTAL	120794	MEAN	331	MAX	2540	MIN	29	CFSM	1.96	IN	26.59

01056000 GULF ISLAND POND NEAR LEWISTON, ME

LOCATION.--Lat 44°08'50", long 70°12'25", Androscoggin County, Hydrologic Unit 01040002, on the upstream side 300 ft (91 m) from left edge of Gulf Island dam on the Androscoggin River, 4.0 mi (6.4 km) north of Lewiston, 5.0 mi (8.0 km) upstream from the mouth of the Little Androscoggin River.

DRAINAGE AREA.--2863 mi² (7415 km²).

PERIOD OF RECORD.--Water years 1981 to current year.

PERIOD OF DAILY RECORD.--

SPECIFIC CONDUCTANCE: July 1981 to current year.

pH: July 1981 to current year.

WATER TEMPERATURES: July 1981 to current year.

DISSOLVED OXYGEN: July 1981 to current year.

INSTRUMENTATION.--Water-quality monitor since July 1981.

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

EXTREMES FOR PERIOD OF DAILY RECORD.--

SPECIFIC CONDUCTANCE: Maximum, 162 micromhos Sept. 13, 1981, Aug. 4, 1982; minimum, 33 micromhos Apr. 28, 1982.

pH: Maximum, 7.0 units July 21, 1982; minimum, 6.0 units Aug. 17, 1981.

WATER TEMPERATURES: Maximum, 26.0°C July 21, 1982; minimum, 0.0°C on many days during winter periods.

DISSOLVED OXYGEN: Maximum, 13.7 mg/L Dec. 31, 1981; minimum, 2.3 mg/L July 28, 1982.

EXTREMES FOR CURRENT YEAR.--

SPECIFIC CONDUCTANCE: Maximum, 162 micromhos Aug. 4; minimum, 33 micromhos Apr. 28.

pH: Maximum, 7.0 units July 21; minimum, 6.2 units Apr. 28, July 14, Aug. 13-21, 23.

WATER TEMPERATURES: Maximum, 26.0°C July 21; minimum, 0.0°C on many days during winter period.

DISSOLVED OXYGEN: Maximum, 13.7 mg/L Dec. 31; minimum, 2.3 mg/L July 28.

SPECIFIC CONDUCTANCE (MICROMHOS/CM AT 25 DEG. C), WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
	OCTOBER			NOVEMBER			DECEMBER			JANUARY		
1	70	61	65	49	48	49	83	79	81	89	72	80
2	72	69	71	51	49	50	85	83	84	90	74	84
3	72	70	72	58	52	54	87	85	86	92	80	85
4	74	71	72	63	59	60	94	86	91	98	85	91
5	77	73	75	67	62	65	97	93	95	103	87	95
6	82	77	80	69	66	68	97	96	96	105	96	100
7	87	79	82	73	70	71	96	91	93	106	101	104
8	90	85	87	77	72	74	91	88	89	107	103	106
9	94	90	91	79	76	77	89	88	88	106	103	105
10	99	93	97	83	79	81	89	87	88	104	98	101
11	103	99	101	82	81	82	91	89	90	101	95	99
12	104	102	103	84	81	82	95	90	92	100	94	98
13	105	103	104	86	84	85	96	92	94	99	95	97
14	107	105	105	91	86	89	96	94	95	99	96	98
15	107	104	105	92	89	90	95	94	99	102	94	99
16	107	105	106	94	92	93	96	94	95	105	101	103
17	108	106	107	95	94	95	99	96	97	108	103	105
18	110	107	108	96	95	95	101	98	99	111	104	108
19	110	109	110	96	94	95	101	99	100	111	105	110
20	113	111	112	96	94	95	101	98	100	113	108	111
21	114	112	113	97	94	96	99	98	99	111	107	108
22	114	112	114	96	90	93	99	97	98	112	107	109
23	112	97	106	91	78	84	101	98	99	113	111	112
24	101	91	96	78	75	76	100	100	100	114	111	112
25	89	78	85	76	73	75	105	100	102	114	110	112
26	79	63	71	74	69	71	107	104	105	114	109	112
27	64	53	58	69	67	68	109	107	108	116	113	115
28	58	54	57	71	66	68	108	103	106	117	115	116
29	58	50	54	78	70	73	107	98	103	118	116	117
30	52	48	49	80	76	78	105	86	95	119	117	118
31	49	47	49	---	---	---	90	74	83	121	118	119
MONTH	114	47	87	97	48	78	109	74	95	121	72	104

01056000 GULF ISLAND POND NEAR LEWISTON, ME--Continued

PH (STANDARD UNITS), WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982

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

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

01056000 GULF ISLAND POND NEAR LEWISTON, ME--Continued

PH (STANDARD UNITS), WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982

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

TEMPERATURE, WATER (DEG. C), WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
	OCTOBER			NOVEMBER			DECEMBER			JANUARY		
1	12.5	12.0	12.0				---	---	---	.5	.5	.5
2	12.0	11.5	11.5				---	---	---	.5	.0	.5
3	12.0	11.5	11.5				---	---	---	.5	.5	.5
4	11.5	10.5	11.0				---	---	---	.5	.5	.5
5	10.5	10.0	10.5				.5	.5	.5	.5	.0	.5
6	10.0	10.0	10.0				.5	.5	.5	.5	.0	.5
7	10.5	10.0	10.0				.5	.5	.5	.5	.0	.5
8	10.5	10.0	10.0				.5	.5	.5	.5	.0	.0
9	10.5	10.0	10.5				.5	.5	.5	.5	.0	.5
10	10.5	10.0	10.5				.5	.5	.5	.5	.0	.0
11	10.5	10.0	10.0				.5	.5	.5	.5	.0	.5
12	10.5	10.0	10.0				.5	.5	.5	.5	.0	.0
13	10.0	10.0	10.0				.5	.5	.5	.5	.0	.5
14	10.0	9.5	10.0				.5	.5	.5	.5	.0	.5
15	10.0	9.0	9.5				.5	.5	.5	.5	.0	.0
16	10.0	9.0	9.5				.5	.5	.5	.5	.0	.5
17	10.0	9.5	10.0				.5	.5	.5	.5	.0	.0
18	10.0	9.5	9.5				.5	.5	.5	.5	.0	.0
19	10.0	9.5	9.5				.5	.5	.5	.5	.0	.5
20	9.5	9.5	9.5				.5	.0	.5	.5	.0	.5
21	9.5	9.0	9.5				.5	.0	.5	.5	.0	.0
22	9.5	9.0	9.5				.5	.5	.5	.5	.0	.0
23	9.5	9.0	9.0				.5	.0	.5	.5	.0	.0
24	9.5	9.0	9.5				.5	.5	.5	.5	.0	.5
25	9.0	8.5	9.0				.5	.5	.5	.5	.0	.0
26	8.5	8.0	8.5				.5	.0	.5	.5	.0	.0
27	8.0	6.5	7.5				.5	.0	.5	.5	.0	.5
28	---	---	---				.5	.0	.5	.5	.0	.5
29	---	---	---				.5	.0	.5	.5	.0	.5
30	---	---	---				.5	.0	.5	.5	.0	.5
31	---	---	---				.5	.0	.5	.5	.5	.5
MONTH	12.5	6.5	10.0				.5	.0	.5	.5	.0	.5

01056000 GULF ISLAND POND NEAR LEWISTON, ME--Continued

TEMPERATURE, WATER (DEG. C), WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982

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

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

01056000 GULF ISLAND POND NEAR LEWISTON, ME--Continued

OXYGEN, DISSOLVED (DO), MG/L, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
OCTOBER			NOVEMBER			DECEMBER			JANUARY			
1	9.8	9.6	9.7	11.5	11.4	11.4	12.7	12.5	12.6	13.6	13.3	13.5
2	9.7	9.5	9.6	11.6	11.4	11.5	12.7	12.7	12.7	13.6	13.0	13.3
3	9.6	9.5	9.5	11.5	11.0	11.2	12.9	12.8	12.8	13.4	13.0	13.2
4	9.8	9.6	9.7	11.0	10.7	10.8	13.0	12.5	12.8	13.3	12.9	13.1
5	9.9	9.8	9.8	10.8	10.6	10.7	12.7	12.5	12.6	13.3	12.9	13.0
6	10.0	9.7	9.9	10.7	10.4	10.5	12.6	12.4	12.5	13.2	12.9	13.1
7	9.9	9.6	9.7	10.5	10.5	10.5	12.5	12.4	12.4	13.3	13.1	13.2
8	9.7	9.5	9.6	10.6	10.5	10.5	12.7	12.6	12.6	13.1	12.9	13.0
9	9.8	9.5	9.7	10.6	10.5	10.5	12.8	12.5	12.6	13.1	12.9	13.0
10	9.8	9.6	9.7	10.6	10.5	10.6	12.5	12.4	12.5	13.2	12.9	13.1
11	9.8	9.7	9.7	10.7	10.5	10.6	12.6	12.4	12.5	13.3	12.9	13.1
12	9.7	9.5	9.6	11.0	10.8	10.9	12.8	12.6	12.7	13.3	13.1	13.2
13	9.7	9.5	9.6	11.1	11.0	11.1	12.8	12.7	12.7	13.4	13.1	13.3
14	9.8	9.5	9.7	11.3	11.1	11.2	12.9	12.7	12.8	13.3	13.1	13.2
15	9.9	9.5	9.7	11.2	11.1	11.2	12.9	12.8	12.8	13.2	12.9	13.0
16	9.8	9.5	9.7	11.4	11.3	11.3	13.0	12.6	12.8	13.2	13.0	13.1
17	9.8	9.6	9.7	11.6	11.4	11.5	13.1	12.9	12.9	13.1	12.8	12.9
18	9.6	9.5	9.5	11.7	11.5	11.6	13.2	13.0	13.1	13.1	12.8	13.0
19	9.6	9.5	9.5	11.8	11.7	11.7	13.2	12.9	13.1	13.2	13.0	13.1
20	9.7	9.5	9.6	11.8	11.6	11.7	13.1	12.9	13.0	13.2	12.9	13.1
21	9.6	9.5	9.6	11.6	11.3	11.5	13.3	13.0	13.1	13.0	12.8	12.9
22	9.6	9.4	9.5	11.3	11.1	11.2	13.4	13.2	13.2	13.1	12.7	12.9
23	9.7	9.4	9.6	11.5	11.1	11.3	13.5	13.1	13.3	13.2	12.8	13.0
24	9.8	9.5	9.7	11.6	11.5	11.5	13.5	13.3	13.4	13.2	12.8	13.1
25	10.1	9.9	10.0	11.8	11.6	11.7	13.5	13.2	13.3	13.2	12.9	13.0
26	10.4	10.0	10.2	12.0	11.8	11.9	13.4	13.3	13.4	13.1	12.8	13.0
27	11.5	11.0	10.8	12.2	12.0	12.1	13.4	13.1	13.3	13.0	12.8	12.9
28	11.5	11.3	11.4	12.3	12.2	12.2	13.4	13.2	13.3	13.0	12.8	12.9
29	11.3	11.2	11.2	12.6	12.3	12.4	13.4	13.0	13.3	13.0	12.5	12.7
30	11.5	11.3	11.3	12.6	12.5	12.5	13.6	13.1	13.3	12.6	12.4	12.5
31	11.4	11.3	11.3	---	---	---	13.7	13.4	13.5	12.6	12.4	12.5
MONTH	11.5	9.4	9.9	12.6	10.4	11.3	13.7	12.4	12.9	13.6	12.4	13.0

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
FEBRUARY			MARCH			APRIL			MAY			
1	12.7	12.4	12.5	12.6	12.2	12.4	13.3	13.1	13.2	---	---	---
2	12.8	12.5	12.7	12.6	12.3	12.5	13.0	12.7	12.8	---	---	---
3	12.8	12.6	12.7	12.7	12.5	12.5	12.8	12.6	12.7	---	---	---
4	12.9	12.7	12.8	12.8	12.5	12.7	12.8	12.6	12.7	---	---	---
5	12.8	12.6	12.7	12.8	12.7	12.8	12.8	12.7	12.7	---	---	---
6	12.8	12.5	12.7	12.8	12.6	12.7	13.0	12.7	12.9	---	---	---
7	12.8	12.6	12.7	12.6	12.5	12.5	12.7	12.4	12.5	---	---	---
8	12.7	12.5	12.6	12.5	12.3	12.4	12.7	12.4	12.5	---	---	---
9	12.8	12.6	12.7	12.4	12.3	12.3	12.9	12.7	12.8	---	---	---
10	12.8	12.6	12.7	12.3	12.2	12.2	12.8	12.6	12.7	---	---	---
11	12.9	12.6	12.8	12.3	12.2	12.3	12.8	12.6	12.7	---	---	---
12	12.9	12.7	12.9	12.3	12.3	12.3	12.7	12.6	12.6	---	---	---
13	12.9	12.7	12.8	12.4	12.3	12.3	12.8	12.6	12.7	---	---	---
14	12.8	12.6	12.7	12.5	12.2	12.3	12.8	12.6	12.7	---	---	---
15	12.7	12.6	12.7	12.3	12.2	12.2	12.9	12.7	12.8	---	---	---
16	12.7	12.6	12.7	12.4	12.2	12.3	13.0	12.8	12.9	---	---	---
17	12.9	12.6	12.7	12.4	12.3	12.3	13.0	12.8	12.9	---	---	---
18	12.8	12.6	12.7	12.5	12.3	12.4	12.9	12.4	12.7	10.2	9.8	10.0
19	12.8	12.7	12.7	12.6	12.4	12.5	12.9	12.2	12.5	9.9	9.4	9.7
20	12.8	12.7	12.8	12.6	12.5	12.6	13.3	12.9	13.2	9.6	9.2	9.4
21	12.8	12.6	12.7	12.6	12.5	12.5	13.2	12.6	12.9	9.5	8.7	9.1
22	12.7	12.5	12.6	12.5	12.5	12.5	12.7	12.5	12.5	9.2	8.4	8.8
23	12.8	12.6	12.7	12.5	12.4	12.4	13.0	12.7	12.9	9.0	8.2	8.6
24	12.6	12.3	12.4	12.6	12.4	12.5	13.1	12.9	13.0	8.7	8.2	8.5
25	12.3	12.0	12.2	12.7	12.6	12.6	12.9	12.6	12.8	8.5	7.5	8.2
26	12.4	12.0	12.1	12.7	12.5	12.6	12.5	12.2	12.4	7.8	6.6	7.3
27	12.4	12.2	12.3	12.6	12.2	12.4	12.3	12.1	12.2	7.7	6.9	7.3
28	12.4	12.2	12.3	12.3	12.0	12.1	---	---	---	7.6	6.7	7.2
29	---	---	---	12.8	12.3	12.5	---	---	---	7.8	6.8	7.2
30	---	---	---	13.2	12.8	13.0	---	---	---	7.7	6.6	7.1
31	---	---	---	13.3	13.2	13.2	---	---	---	7.6	6.5	7.1
MONTH	12.9	12.0	12.6	13.3	12.0	12.5	13.3	12.1	12.7	10.2	6.5	8.3

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.--75.8 mi² (196 km²).

PERIOD OF RECORD.--September 1913 to April 1924, October 1931 to current year.

REVISED RECORDS.--WSP 1301: 1915-23(M): WDR ME-81-1: Drainage area.

GAGE.--Water-stage recorder and concrete control. Datum of gage is 390.00 ft (118.872 m) National Geodetic Vertical Datum of 1929. Prior to Apr. 30, 1924, nonrecording gage at same site and datum. Apr. 30, 1924 to Apr. 19, 1982, water-stage recorder at same site and at datum 4.48 ft (1.366 m) higher.

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.--61 years (water years 1914-23, 1932-82), 139 ft³/s (3.936 m³/s), 24.90 in/yr (632 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, 1.0 ft³/s (0.028 m³/s) Aug. 16, 1914, Feb. 22 to Mar. 5, 1920.

EXTREMES FOR CURRENT YEAR.--Peak discharges above base of 1,000 ft³/s (28 m³/s) and maximum (*):

Date	Time	Discharge (ft ³ /s) (m ³ /s)		Gage height (ft) (m)		Date	Time	Discharge (ft ³ /s) (m ³ /s)		Gage height (ft) (m)	
Oct. 24	1400	1270	36.0	5.63	1.716	Apr. 18	2000	* 1380	39.1	5.83	1.777
Oct. 27	2100	1130	32.0	5.35	1.631	Apr. 27	1400	1280	36.2	9.69	2.954

Minimum discharge, 7.1 ft³/s (0.201 m³/s) July 27.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	155	286	115	94	71	64	388	301	67	130	16	22
2	131	250	160	90	70	63	455	262	268	85	15	21
3	124	218	205	95	69	63	364	232	390	62	27	32
4	110	192	191	105	85	63	471	209	215	51	34	34
5	96	172	165	125	115	63	401	185	179	43	181	25
6	87	190	145	140	130	63	301	165	224	38	118	21
7	133	268	158	150	125	65	198	150	198	33	63	19
8	140	215	147	145	120	69	241	134	143	29	45	16
9	113	180	135	140	115	71	225	141	105	25	150	14
10	96	155	125	135	110	69	196	179	84	22	373	13
11	86	144	116	125	105	67	197	150	67	20	175	12
12	79	135	110	120	100	65	255	131	57	18	102	12
13	74	120	101	120	99	85	288	119	52	15	70	11
14	71	113	102	115	96	122	316	109	58	10	62	10
15	68	112	98	110	93	110	371	98	76	12	52	11
16	67	120	107	105	90	99	480	92	74	11	40	26
17	65	163	119	105	87	98	748	87	82	9.9	42	35
18	66	208	101	100	84	100	1240	79	84	10	64	27
19	258	245	102	97	82	119	1220	74	62	12	44	23
20	208	205	99	94	80	135	973	112	60	11	34	20
21	152	398	96	90	76	156	1050	115	56	18	27	24
22	125	416	94	88	74	148	801	88	52	17	23	31
23	189	290	92	86	72	133	561	76	70	13	20	33
24	1050	226	92	83	70	127	607	70	93	11	29	35
25	701	187	100	82	68	151	672	71	66	9.2	40	30
26	473	159	99	80	66	278	700	66	60	8.4	119	26
27	796	147	96	79	66	432	1050	57	54	7.6	69	25
28	920	141	91	78	65	380	809	51	44	8.7	47	44
29	613	131	88	76	---	330	482	47	55	33	36	40
30	440	114	91	74	---	251	362	52	228	27	27	32
31	343	---	95	73	---	280	---	70	---	19	24	---
TOTAL	8029	5900	3635	3199	2483	4318	16422	3772	3323	818.8	2168	724
MEAN	259	197	117	103	88.7	139	547	122	111	26.4	69.9	24.1
MAX	1050	416	205	150	130	432	1240	301	390	130	373	44
MTN	65	112	88	73	65	63	196	47	44	7.6	15	10
CFSM	3.42	2.60	1.54	1.36	1.17	1.83	7.22	1.61	1.46	.35	.92	.32
IN.	3.94	2.90	1.78	1.57	1.22	2.12	8.06	1.85	1.63	.40	1.06	.36

CAL YR 1981 TOTAL 48931.0 MEAN 134 MAX 1050 MIN 15 CFSM 1.77 IN 24.01
WTR YR 1982 TOTAL 54791.8 MEAN 150 MAX 1240 MIN 7.6 CFSM 1.98 IN 26.89

01057510 PENNESSEEWASSEE LAKE OUTLET AT NORWAY, ME

LOCATION.--Lat 44°12'23", long 70°31'55", Androscoggin County, Hydrologic Unit 01040002, on left bank at Norway 30 ft (9 m) downstream from Rt 26 highway bridge, 0.6 mi (1 km) upstream from mouth.

DRAINAGE AREA.--30.3 mi² (78.5 km²).

PERIOD OF RECORD.--June 1981 to current year (seasonal records only).

GAGE.--Water-stage recorder. Altitude of gage is 375 ft (114 m), from topographic map.

REMARKS.--Records fair. Flow regulated by Pennesseewassee Lake.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 232 ft³/s (6.57 m³/s) Oct. 25, 1981, gage height, 9.04 ft (2.76 m); Minimum, 0.74 ft³/s (0.02 m³/s) Sept. 6, 1981, gage height, 5.17 ft (1.58 m).

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 232 ft³/s (6.57 m³/s) Oct. 25, gage height, 9.04 ft (2.76 m); minimum, 1.2 ft³/s (0.03 m³/s) July 15-17, gage height, 5.21 ft (1.59 m).

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	47	120	31			---	118	126	3.0	102	82	2.4
2	7.5	109	39			---	156	109	86	57	82	3.0
3	7.3	98	48			---	168	57	152	6.3	81	4.5
4	7.1	54	89			---	169	55	130	4.0	90	4.5
5	6.3	18	113			---	168	54	91	3.0	90	3.7
6	5.7	44	108			---	153	45	102	2.4	95	3.0
7	7.8	103	92			---	144	38	140	2.0	13	2.6
8	10	103	20			---	138	37	140	1.8	8.9	2.4
9	9.5	99	19			---	138	38	135	15	34	2.2
10	7.5	51	40			---	94	41	135	2.6	127	2.0
11	6.1	15	13			---	59	40	130	2.0	26	2.0
12	5.4	14	12			---	64	38	125	1.8	14	2.2
13	5.1	13	11			---	70	37	115	1.8	7.8	1.8
14	4.9	12	11			---	99	35	110	1.5	6.4	1.7
15	4.9	12	13			---	119	34	97	1.4	5.3	1.5
16	4.8	12	---			42	132	34	91	1.2	4.6	1.4
17	4.7	51	---			23	181	33	87	2.2	4.2	1.8
18	6.3	106	---			13	198	32	84	3.5	4.7	2.0
19	40	130	---			39	207	17	82	4.0	4.6	1.8
20	98	121	---			55	198	6.9	81	2.8	13	1.7
21	35	101	---			54	198	6.6	80	2.2	51	1.8
22	49	136	---			54	192	5.3	79	1.7	36	2.6
23	26	124	---			54	177	4.2	78	2.8	36	3.0
24	156	102	---			54	160	3.5	77	4.5	39	3.7
25	220	40	---			50	157	3.5	76	4.0	41	3.7
26	199	36	---			91	153	3.0	74	2.8	43	3.2
27	203	35	---			117	153	1.8	72	2.2	35	3.5
28	222	35	---			117	155	1.8	71	1.8	5.4	4.0
29	211	34	---			117	145	1.7	70	2.0	3.6	4.5
30	188	33	---			115	137	1.8	72	2.0	2.9	3.5
31	146	---	---			110	---	2.2	---	45	2.5	---
TOTAL	2010.8	1961	---			---	4399	942.3	2865.0	289.3	1068.9	81.7
MEAN	64.9	65.4	---			---	147	30.4	95.5	9.33	34.5	2.72
MAX	222	136	---			---	207	126	152	102	127	4.5
MIN	4.7	12	---			---	59	1.7	3.0	1.2	2.5	1.4

01058005 THOMPSON LAKE OUTLET AT OXFORD, ME

LOCATION.--Lat 44°08'07", long 70°29'28", Oxford County, Hydrologic Unit 01040002, on left bank at Oxford, 50 ft (15 m) upstream from State Highway 121 highway bridge and 0.2 mi (0.3 km) upstream from mouth.

DRAINAGE AREA.--47.7 mi² (123.5 km²).

PERIOD OF RECORD.--June to December 1975, February 1976 to September 1978, April 1981 to current year.

REVISED RECORDS.--WDR ME-77-1: 1975 (M), 1976. WDR ME 81-1: Drainage area.

GAGE.--Water-stage recorder. Altitude of gage is 320 ft (98 m), from topographic map.

REMARKS.--Records fair. Flow regulated by Thompson Lake (Reservoirs in Androscoggin River basin).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 546 ft³/s (15.5 m³/s) Mar. 17, 1977, gage height, 11.36 ft (3.463 m); minimum, 5.8 ft³/s (1.64 m³/s) Aug. 19, 1981, gage height, 7.73 ft (2.356 m).

EXTREMES FOR CURRENT YEAR.--Maximum discharge 484 ft³/s (13.7 m³/s) Nov. 1, gage height 10.86 (3.310 m); minimum 11 ft³/s (0.31 m³/s) May 8, 9, gage height 7.90 ft (2.408 m).

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982
MEAN VALUES

PROVISIONAL DATA

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	166	402	143	31	54	110	215	66	17	41	49	38
2	68	432	145	35	54	122	216	66	33	41	40	38
3	65	421	144	34	57	123	216	30	233	40	37	38
4	63	418	143	38	61	120	240	13	365	40	37	37
5	61	391	140	46	61	119	237	13	349	39	37	37
6	53	375	135	47	63	117	281	13	345	37	37	37
7	57	353	138	49	63	115	306	12	230	35	37	38
8	54	341	137	50	63	77	241	12	169	35	37	38
9	37	219	134	50	63	46	116	12	169	34	38	38
10	28	148	132	51	64	47	108	13	168	34	37	38
11	27	144	73	51	63	47	108	14	166	34	37	37
12	27	139	18	52	86	47	109	15	81	34	37	37
13	27	73	18	51	103	48	112	15	36	34	37	57
14	27	18	19	52	101	50	116	14	38	33	37	73
15	26	18	19	52	99	134	117	15	37	33	37	70
16	25	18	19	52	98	215	121	16	37	33	37	69
17	24	19	20	52	139	243	130	16	38	33	37	67
18	26	44	21	52	156	249	142	36	38	33	37	65
19	30	60	21	52	152	239	150	50	37	32	37	62
20	29	62	21	51	148	234	156	52	37	32	38	61
21	29	68	22	51	144	229	162	49	38	32	37	60
22	29	72	23	51	142	154	166	48	38	32	37	59
23	32	74	24	52	139	34	200	47	38	34	38	59
24	39	75	25	53	137	36	236	47	38	40	38	58
25	40	125	25	53	133	39	222	34	39	245	38	56
26	44	162	25	53	131	77	211	14	39	240	38	55
27	69	159	26	53	129	122	367	13	38	235	38	93
28	230	154	28	52	127	123	426	14	39	109	37	126
29	323	149	29	51	---	170	408	14	41	48	37	169
30	320	145	30	50	---	203	250	15	41	48	38	193
31	327	---	30	50	---	203	---	16	---	48	38	---
TOTAL	2402	5278	1927	1517	2830	3900	6085	804	3012	1818	1171	1903
MEAN	77.5	176	62.2	48.9	101	126	203	25.9	100	58.6	37.8	63.4
MAX	327	432	145	53	156	249	426	66	365	245	49	193
MIN	24	18	18	31	54	34	108	12	17	32	37	37
CFSM	1.63	3.69	1.30	1.03	2.12	2.64	4.26	.54	2.10	1.23	.79	1.33
IN.	1.87	4.12	1.50	1.18	2.21	3.04	4.75	.63	2.35	1.42	.91	1.48

WTR YR 1982 TOTAL 32647 MEAN 89.4 MAX 432 MIN 12 CFSM 1.87 IN 25.46

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.--3,263 mi² (8,451 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: WDR ME-81-1: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 109.18 ft (33.278 m) National Geodetic Vertical Datum of 1929.

REMARKS.--Records good. Considerable diurnal fluctuation and some regulation by powerplants above station. Flow regulated by Rangeley, Mooselookmeguntic, Richardson, Aziscohos, Umbagog, Auburn, and Thompson Lakes and Gulf Island Pond (Reservoirs in Androscoggin River Basin) with major regulation at Errol Dam 156 mi (219 km) upstream. Several observations of water temperature and specific conductance were made during the year.

AVERAGE DISCHARGE.--54 years, 6,131 ft³/s (173.6 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, 35,100 ft³/s (994 m³/s) Apr. 28, gage height, 11.39 ft (3.472 m); minimum daily, 1,050 ft³/s (29.7 m³/s) Aug. 21.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	8000	12700	5080	4590	4170	4320	11200	21300	4870	7280	1840	3070
2	7700	11000	5250	4680	4340	4470	13600	19100	7280	6240	2800	2950
3	7300	9640	7290	4610	4540	4500	13600	17700	14900	6110	3140	2940
4	3500	8580	6950	4410	5380	4990	14000	16700	12300	4300	3060	2320
5	4700	7870	6870	5220	4960	5290	12500	15600	8960	3820	3080	2310
6	5400	7780	5180	4510	4430	4940	10600	14400	7610	2390	3480	2310
7	5400	7900	6040	7270	5090	4800	8990	14100	7540	3060	3980	3010
8	5340	8170	6210	7190	4960	5030	8800	13900	7540	3130	3420	2920
9	5160	7810	6040	6070	5300	4840	7850	13900	7440	1060	3230	2650
10	5270	7500	5970	5220	5230	4750	7700	16500	6290	2240	3810	2550
11	2630	7330	5540	4500	5220	4730	7670	15900	5660	2940	5560	1820
12	4360	7190	5130	4840	4910	4730	7790	14100	4420	2960	4630	1670
13	4820	7090	5060	5030	4670	4800	8340	13400	1430	2820	3670	2460
14	3990	6760	5160	4700	4690	4890	9580	12600	4650	2820	3550	2620
15	4300	1980	5160	4870	4660	5080	10500	12100	4540	2820	2320	2640
16	4730	5590	6440	5160	4470	6040	11500	10800	4520	2820	3110	3120
17	3100	6650	5520	4800	4380	5590	14800	9520	4230	1750	3650	3630
18	2770	6930	5320	4190	4580	6040	25100	8130	4430	1330	3570	2770
19	6740	8800	5340	4590	4580	6240	32900	7280	4120	2300	3530	2430
20	7640	9190	4680	4680	4520	6290	28100	6940	3880	2680	3450	2900
21	7610	9870	4360	4590	4520	6560	27200	6650	4100	2660	1050	2810
22	7240	12200	3810	4250	4720	6770	28400	5720	4470	3020	1110	2810
23	7030	10700	4190	4040	4900	6540	24900	4650	4610	3150	2500	2970
24	13200	8860	4800	4190	4610	6790	21400	5470	4700	2170	2710	3370
25	19300	7690	5180	4120	4610	6870	22600	6470	5610	1750	2700	2620
26	15500	7300	4820	4140	4630	7270	25900	6080	4910	2520	2980	1930
27	16800	7170	4660	4300	4470	8730	30300	5030	3310	2530	3350	2970
28	24100	6830	4990	4500	4450	10900	34700	4670	4390	2630	3340	3000
29	25600	6680	4890	4410	---	9500	31200	4440	5000	2830	2250	3050
30	20700	6920	5360	3910	---	9350	25100	2920	6310	3270	2970	3360
31	15500	---	5110	3790	---	9720	---	3870	---	2350	3220	---
TOTAL	275430	240680	166400	149370	131990	191360	536820	329940	174020	93750	97060	81980
MEAN	8885	8023	5368	4818	4714	6173	17890	10640	5801	3024	3131	2733
MAX	25600	12700	7290	7270	5380	10900	34700	21300	14900	7280	5560	3630
MIN	2630	1980	3810	3790	4170	4320	7670	2920	1430	1060	1050	1670
CAL YR 1981	TOTAL	2205353	MEAN	6042	MAX	34800	MIN	812				
WTR YR 1982	TOTAL	2468800	MEAN	6764	MAX	34700	MIN	1050				

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.--3,434 mi² (8,894 km²).

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

PERIOD OF DAILY RECORD.--

SPECIFIC CONDUCTANCE: November 1975 to September 1981.

WATER TEMPERATURES: November 1975 to September 1981.

REVISED RECORDS.--WDR ME-81-1: Drainage area.

INSTRUMENTATION.--Water-quality monitor November 1975 to September 1981.

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

EXTREMES FOR PERIOD OF DAILY RECORD.--

SPECIFIC CONDUCTANCE: Maximum recorded, 251 micromhos Dec. 15, 1980; minimum, 36 micromhos Apr. 4, 1976.

WATER TEMPERATURES: Maximum (water years 1976-80), 29.5°C Aug. 5, 1979; minimum, 0.0°C on many days during winter periods.

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982

DATE	TIME	ESTI- MATED, DIS- CHARGE (CFS)	SPE- CIFIC CON- DUCT- ANCE (UMHOS)	SPE- CIFIC CON- DUCT- ANCE LAB (UMHOS)	PH (UNITS)	TEMPER- ATURE AIR (DEG C)	TEMPER- ATURE (DEG C)	TUR- BID- ITY (FTU)	OXYGEN, DIS- SOLVED (MG/L)	COLI- FORM, FECAL, 0.7 UM-MF (COLS./ 100 ML)	STREP- TOCOCCI FECAL, KF AGAR (COLS. PER 100 ML)
OCT 27...	1515	17700	67	56	6.8	11.5	8.5	4.5	12.9	--	380
DEC 23...	1330	4410	105	98	6.7	2.0	.5	2.7	13.2	300	K40
FEB 24...	0930	4850	108	110	6.6	-4.5	.0	3.5	13.8	K230	84
MAY 07...	1200	14800	52	47	6.7	20.0	9.5	2.3	12.1	120	88
JUN 23...	1500	4850	91	104	6.8	19.0	18.0	2.5	9.1	200	190
AUG 24...	1500	2850	117	111	7.0	30.0	20.5	1.7	9.2	220	K40

DATE	HARD- NESS (MG/L AS CaCO ₃)	HARD- NESS NONCAR- BONATE (MG/L AS CaCO ₃)	CALCIUM DIS- SOLVED (MG/L AS Ca)	MAGNE- SIUM, DIS- SOLVED (MG/L AS Mg)	SODIUM, DIS- SOLVED (MG/L AS Na)	POTAS- SIUM, DIS- SOLVED (MG/L AS K)	ALKA- LINEITY (MG/L AS CaCO ₃)	SULFATE DIS- SOLVED (MG/L AS SO ₄)	CHLO- RIDE, DIS- SOLVED (MG/L AS Cl)	FLUO- RIDE, DIS- SOLVED (MG/L AS F)	SILICA, DIS- SOLVED (MG/L AS SiO ₂)
OCT 27...	15	9.0	4.5	.9	6.7	1.1	6.0	10	9.5	<.1	5.8
DEC 23...	19	2.0	6.2	.9	13	1.0	17	11	12	<.1	5.3
FEB 24...	21	11	6.4	1.1	11	1.0	10	13	13	<.1	5.2
MAY 07...	11	3.0	3.4	.7	5.5	.6	8.0	7.0	5.6	<.1	4.7
JUN 23...	17	5.0	5.3	1.0	14	1.0	12	11	13	<.1	4.8
AUG 24...	19	1.0	6.1	.8	12	1.1	15	11	13	.1	4.0

K RESULTS BASED ON COLONY COUNT OUTSIDE THE ACCEPTABLE RANGE (NON-IDEAL COLONY COUNT).

01059400 ANDROSCOGGIN RIVER AT BRUNSWICK, ME--Continued

CHEMICAL ANALYSFS. WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982

DATE	SOLIDS, RESIDUE AT 180 DEG. C DIS- SOLVED (MG/L)	SOLIDS, SUM OF CONSTITUENTS, DIS- SOLVED (MG/L)	SOLIDS, DIS- SOLVED (TONS PER AC-FT)	SOLIDS, DIS- SOLVED (TONS PER DAY)	NITRO- GEN, NO2+NO3 DIS- SOLVED (MG/L AS N)	NITRO- GEN, AMMONIA DIS- SOLVED (MG/L AS N)	NITRO- GEN, AMMONIA DIS- SOLVED (MG/L AS NH4)	NITRO- GEN,AM- MONIA + ORGANIC TOTAL (MG/L AS N)	PHOS- PHORUS, TOTAL (MG/L AS P)	PHOS- PHORUS TOTAL (MG/L AS P04)	PHOS- PHORUS, DIS- SOLVED (MG/L AS P)
OCT 27...	53	42	.07	2530	.20	.070	.09	.47	.050	.15	.010
DEC 23...	70	60	.10	833	.26	.140	.18	.78	.050	.15	.020
FEB 24...	72	57	.10	943	.27	.170	.22	.42	.050	.15	<.010
MAY 07...	38	32	.05	1520	.32	.040	.05	.40	.030	.09	.020
JUN 23...	84	57	.11	1100	.37	.130	.17	.40	.050	.15	.030
AUG 24...	82	55	.11	631	.40	.040	.05	.30	.050	.15	.050

DATE	PHOS- PHORUS, ORTHO, DIS- SOLVED (MG/L AS P)	ARSENIC TOTAL (UG/L AS AS)	ARSENIC DIS- SOLVED (UG/L AS AS)	BARIUM, TOTAL RECOV- ERABLE (UG/L AS BA)	BARIUM, DIS- SOLVED (UG/L AS BA)	CADMIUM TOTAL RECOV- ERABLE (UG/L AS CD)	CADMIUM DIS- SOLVED (UG/L AS CD)	CHRO- MIUM, TOTAL RECOV- ERABLE (UG/L AS CR)	CHRO- MIUM, DIS- SOLVED (UG/L AS CR)	COBALT, TOTAL RECOV- ERABLE (UG/L AS CO)	COBALT, DIS- SOLVED (UG/L AS CO)
OCT 27...	<.010	1	0	100	10	<1	3	20	10	1	<1
DEC 23...	.020	--	--	--	--	--	--	--	--	--	--
FEB 24...	.030	1	1	<100	14	<1	2	10	<10	1	<1
MAY 07...	<.010	2	1	<100	13	2	<1	20	10	1	<1
JUN 23...	.020	--	--	--	--	--	--	--	--	--	--
AUG 24...	<.010	1	1	<100	<100	<1	<1	10	10	<1	<1

DATE	COPPER, TOTAL 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, DIS- SOLVED (UG/L AS PB)	MANGA- NESE, TOTAL RECOV- ERABLE (UG/L AS MN)	MANGA- NESE, DIS- SOLVED (UG/L AS MN)	MERCURY TOTAL RECOV- ERABLE (UG/L AS HG)	MERCURY DIS- SOLVED (UG/L AS HG)	NICKEL, TOTAL RECOV- ERABLE (UG/L AS NI)
OCT 27...	7	11	500	180	8	1	50	32	.2	.1	2
DEC 23...	--	--	--	--	--	--	--	--	--	--	--
FEB 24...	6	2	250	120	12	2	50	38	.2	<.1	<1
MAY 07...	8	5	180	62	14	5	40	31	.4	<.1	7
JUN 23...	--	--	--	--	--	--	--	--	--	--	--
AUG 24...	8	4	420	250	7	2	50	40	.3	<.1	3

DATE	NICKEL, DIS- SOLVED (UG/L AS NI)	SELE- NIUM, TOTAL (UG/L AS SE)	SELF- NIUM, DIS- SOLVED (UG/L AS SE)	SILVER, TOTAL RECOV- ERABLE (UG/L AS AG)	SILVER, DIS- SOLVED (UG/L AS AG)	ZINC, TOTAL RECOV- ERABLE (UG/L AS ZN)	ZINC, DIS- SOLVED (UG/L AS ZN)	SEDI- MENT, SUS- PENDE (MG/L)	SEDI- MENT, DIS- CHARGE, SUS- PENDE (T/DAY)	SED. SUSP. SIEVE DIAM. % FINER THAN .062 MM
OCT 27...	1	<1	<1	<1	<1	60	6	11	526	100
DEC 23...	--	--	--	--	--	--	--	7	83	55
FEB 24...	<1	<1	<1	<1	<1	20	13	5	65	100
MAY 07...	7	<1	<1	<1	<1	30	7	10	400	77
JUN 23...	--	--	--	--	--	--	--	10	131	91
AUG 24...	3	<1	<1	<1	<1	30	10	9	69	73

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, NH, used for power, has usable capacity of 3,080,160,000 ft³ (87,230,100 m³) between gage heights 5.5 ft (1.68 m) and 15.0 ft (4.57 m). Gage-height record furnished by Union Water Power Co.
- 01056000 GULF ISLAND POND on Androscoggin River, 3 mi (5 km) upstream from Lewiston, Maine, completed in 1928 for power, has capacity of 1,100,000,000 ft³ (31,150,000 m³) in top 10 ft (3 m) of pond below elevation 262.0 ft (79.86 m). Elevation record furnished by Central Maine Power Co.
- 01056500 LAKE AUBURN on outlet stream to Androscoggin River at East Auburn, Maine, used for storing water supply of Auburn and Lewiston, has usable capacity of 580,000,000 ft³ (16,430,000 m³) between elevations 254.7 ft (77.63 m) and 260.7 ft (79.46 m). Elevation record furnished by Auburn Water District.
- 01058000 THOMPSON LAKE on short outlet stream to Little Androscoggin River at Oxford, Maine, used for process water, has usable capacity of 950,000,000 ft³ (26,900,000 m³) between gage heights 95.0 ft (28.96 m) and 100.0 ft (30.48 m). Gage-height record furnished by Robinson Manufacturing Co.

MONTHEND CONTENTS IN MILLIONS OF CUBIC FEET, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982

DATE	RANGELEY LAKE	MOOSELOOKMEGUNTIC LAKE	UPPER AND LOWER RICHARDSON LAKES	AZISCOHOS LAKE
SEPT. 30, 1981	1282	6296	4844	9593
OCT. 31	1061	8010	5218	9965
NOV. 30	727	8010	4750	9717
DEC. 31	613	7080	1350	9655
JAN. 31, 1982	600	4608	1111	7993
FEB. 28	600	2498	1010	5834
MAR. 31	559	1665	537	3746
APR. 30	1450	5515	3124	6688
MAY 31	1313	8046	5425	9764
JUNE 30	1396	8154	4975	9562
JULY 31	1031	7366	4676	7761
AUG. 31	1004	6261	4066	6674
SEPT. 30	670	4368	3640	5948
DATE	UMBAGOG LAKE	GULF ISLAND POND	LAKE AUBURN	THOMPSON LAKE
SEPT. 30, 1981	2885	2484	628	1790
OCT. 31	2768	2493	652	1679
NOV. 30	1958	2191	652	1615
DEC. 31	1812	2397	616	1613
JAN. 31, 1982	1920	2434	604	1691
FEB. 28	1902	2449	532	1639
MAR. 31	940	2472	568	1563
APR. 30	2072	2486	616	1765
MAY 31	2592	2362	532	1900
JUNE 30	2534	2322	616	1898
JULY 31	2034	2359	556	1884
AUG. 31	1958	2372	520	1795
SEPT. 30	1488	2372	463	1638

NOTE.--Contents of Gulf Island Pond at 2400, Thompson Lake at 0800. Contents of all others at 0700 on first day of following month.

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.--13.8 mi² (35.7 km²).

PERIOD OF RECORD.--September 1964 to September 1982 (Discontinued).

REVISED RECORDS.--WDR ME-81-1: Drainage area.

GAGE.--Water-stage recorder. Altitude of gage is 180 ft (54.9 m), from topographic map.

REMARKS.--Records fair. No gage-height record Sept. 2-30. Several observations of water temperature and specific conductance were made during the year.

AVERAGE DISCHARGE.--18 years, 27.4 ft³/s (0.776 m³/s), 26.96 in/yr (685 mm/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 1,220 ft³/s (34.6 m³/s) Dec. 27, 1969, gage height, 3.48 ft (1.061 m); maximum gage height, 4.30 ft (1.311 m) Feb. 14, 1972, (backwater from ice); minimum daily discharge, 6.4 ft³/s (0.18 m³/s) Jan. 29, 1966.

EXTREMES FOR CURRENT YEAR.--Peak discharges above base of 175 ft³/s (4.96 m³/s) and maximums (*):

Date	Time	Discharge (ft ³ /s) (m ³ /s)	Gage height (ft) (m)	Date	Time	Discharge (ft ³ /s) (m ³ /s)	Gage height (ft) (m)
Feb. 4	1015	ice jam	* 3.65 1.113	Apr. 8	0545	301 8.52	2.28 0.695
Apr. 1	1900	213 6.03	2.04 0.622	June 2	1700	* 514 14.6	2.69 0.820

Minimum daily discharge, 10 ft³/s (0.283 m³/s) March 10-12.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	14	21	19	17	17	12	154	32	27	38	27	14
2	13	20	57	17	16	12	106	31	249	27	20	18
3	14	18	41	20	22	12	59	29	115	23	21	16
4	13	17	29	45	70	11	141	29	41	21	20	15
5	12	17	24	100	56	11	71	28	44	20	20	14
6	14	27	24	86	44	11	41	27	46	19	19	13
7	18	29	25	73	36	11	150	26	49	18	17	13
8	15	22	23	60	30	11	235	25	40	17	17	12
9	13	19	22	50	25	11	94	24	31	16	25	12
10	13	17	22	41	21	10	64	24	26	16	32	12
11	12	17	21	35	19	10	43	24	24	16	21	12
12	12	17	21	31	18	10	54	24	22	16	18	12
13	12	16	20	28	18	17	56	23	22	16	17	12
14	12	16	20	26	17	26	70	23	32	15	17	12
15	12	16	21	23	17	23	71	22	28	15	16	11
16	11	20	36	22	16	20	71	22	25	15	15	11
17	12	26	31	20	15	10	91	22	32	15	15	12
18	15	35	25	19	15	10	105	21	31	14	15	12
19	75	31	23	18	15	20	73	22	25	16	15	11
20	27	28	22	18	15	26	59	29	24	26	15	11
21	19	51	21	17	14	32	62	23	23	26	15	12
22	16	36	20	17	14	30	54	22	22	20	15	13
23	18	26	19	17	14	28	44	21	26	20	15	14
24	89	21	19	17	13	26	42	23	24	18	15	20
25	33	19	18	17	13	27	39	25	21	16	16	18
26	37	19	18	17	13	62	37	23	21	16	17	15
27	61	19	17	17	13	70	66	21	20	15	15	13
28	66	20	17	17	12	80	48	21	20	28	14	14
29	36	20	17	17	---	48	40	23	57	47	14	15
30	26	18	17	17	---	43	35	33	104	23	15	14
31	23	---	17	17	---	59	---	35	---	19	15	---
TOTAL	763	678	726	936	608	806	2275	777	1271	627	548	403
MEAN	24.6	22.6	23.4	30.2	21.7	26.0	75.8	25.1	42.4	20.2	17.7	13.4
MAX	89	51	57	100	70	80	235	35	249	47	32	20
MIN	11	16	17	17	12	10	35	21	20	14	14	11
CFSM	1.78	1.64	1.70	2.19	1.57	1.88	5.49	1.82	3.07	1.46	1.28	.97
IN.	2.06	1.83	1.96	2.52	1.64	2.17	6.13	2.09	3.43	1.69	1.48	1.09

CAL YR 1981 TOTAL 7479.4 MEAN 20.5 MAX 200 MIN 9.4 CFSM 1.49 IN 20.16
WTR YR 1982 TOTAL 10418.0 MEAN 28.5 MAX 249 MIN 10 CFSM 2.07 IN 28.08

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 East Main Street bridge in Yarmouth.

DRAINAGE AREA.--141 mi² (365 km²).

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

REVISED RECORDS.--WDR ME-81-1: Drainage area.

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.--33 years, 273 ft³/s (7.731 m³/s), 26.29 in/yr (668 mm/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 11,500 ft³/s (326 m³/s) Mar. 13, 1977, gage height, 8.46 ft (2.579 m), from rating curve extended above 5,200 ft³/s (150 m³/s); minimum, 2.3 ft³/s (0.07 m³/s) July 23, 24, 1980, gage height, 0.48 ft (0.146 m), caused by unusual regulation.

EXTREMES FOR CURRENT YEAR.--Peak discharges above base of 1,500 ft³/s (42 m³/s) and maximum (*):

Date	Time	Discharge (ft ³ /s) (m ³ /s)	Gage height (ft) (m)	Date	Time	Discharge (ft ³ /s) (m ³ /s)	Gage height (ft) (m)
Apr. 2	0300	* 2420 68.5	4.10 1.250	June 2	2000	2140 60.6	3.88 1.183

Minimum discharge not determined, occurred during period of backwater from debris; minimum daily, 36 ft³/s (1.020 m³/s) Sept. 16.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	94	317	150	148	203	125	1930	294	165	718	126	39
2	89	276	429	163	197	120	2270	260	1000	343	113	41
3	92	243	773	174	248	120	1460	237	1790	192	108	43
4	95	214	508	206	677	120	1890	215	923	138	102	40
5	87	193	355	943	763	120	1630	203	546	113	112	38
6	82	217	306	1010	679	115	877	185	496	99	97	38
7	97	418	282	746	588	115	393	169	558	90	82	38
8	111	376	259	545	503	115	471	158	497	82	91	38
9	95	285	241	443	417	115	482	150	338	74	317	38
10	87	226	222	385	357	110	473	149	241	67	240	37
11	79	198	207	343	320	110	511	142	185	63	136	37
12	72	187	196	304	292	110	720	133	153	63	103	37
13	70	167	168	270	262	165	799	127	139	60	90	37
14	66	153	151	235	242	240	917	121	171	55	79	37
15	65	153	177	236	218	310	984	113	199	55	71	38
16	64	178	300	221	200	260	886	107	163	55	67	36
17	63	243	437	203	180	240	996	103	176	50	64	40
18	63	358	366	199	170	235	1170	97	258	65	60	41
19	721	514	305	192	160	250	1040	96	190	75	56	40
20	876	423	385	203	160	290	750	141	167	100	54	39
21	408	658	335	197	150	325	646	146	142	135	52	42
22	260	771	199	175	145	330	631	114	124	104	50	46
23	199	483	177	173	140	310	493	100	118	90	49	54
24	727	341	174	173	135	290	415	99	126	73	47	55
25	1010	267	169	173	130	325	367	121	113	62	48	50
26	661	219	163	173	130	590	331	116	106	57	51	46
27	854	205	154	173	130	755	555	100	99	54	48	45
28	1120	204	151	173	130	860	623	89	92	86	46	49
29	969	204	151	189	---	670	455	88	179	338	43	51
30	603	179	153	203	---	600	348	129	902	178	41	48
31	398	---	148	203	---	889	---	205	---	116	40	---
TOTAL	10277	8870	8191	9174	7926	9329	25513	4507	10356	3850	2683	1258
MFAN	332	296	264	296	283	301	850	145	345	124	86.5	41.9
MAX	1120	771	773	1010	763	889	2270	294	1790	718	317	55
MIN	63	153	148	148	130	110	331	88	92	50	40	36
CFSM	2.36	2.10	1.87	2.10	2.01	2.14	6.03	1.03	2.45	.88	.61	.30
IN.	2.71	2.34	2.16	2.42	2.09	2.46	6.73	1.19	2.73	1.02	.71	.33

CAL YR 1981 TOTAL 74044 MEAN 203 MAX 1610 MIN 33 CFSM 1.44 IN 19.53
WTR YR 1982 TOTAL 101934 MEAN 279 MAX 2270 MIN 36 CFSM 1.98 IN 26.89

01064000 PRESUMPSCOT RIVER AT OUTLET OF SEBAGO LAKE, ME

LOCATION.--Lat 43°49'03", long 70°27'01", Cumberland County, Hydrologic Unit 01060001, at dam of hydroelectric plant at Eel Weir Falls 1.0 mi (1.6 km) downstream from lake outlet.

DRAINAGE AREA.--441 mi² (1,142 km²).

PERIOD OF RECORD.--January 1887 to current year.

REVISED RECORDS.--WSP 1301: 1920-50 (adjusted monthly runoff). WDR ME-81-1: Drainage area.

GAGES.--Nonrecording gages in forebay and tailrace of hydroelectric plant at Eel Weir Falls and at dam on outlet of Sebago Lake.

REMARKS.--Discharge computed from wheel ratings and from records of openings of two regulating gates at Eel Weir hydroelectric plant. Water wasted at rare intervals through gates in dam on outlet of Sebago Lake; flow computed from records of gate openings. Water diverted by Portland Water District and leakage through dam, totaling about 40 ft³/s (1.13 m³/s), not included in figures of daily discharge. Flow regulated by Long Lake and Sebago Lake, surface area, 45.6 mi² (118 km²), which have a combined usable capacity of 11,000,000,000 ft³ (312,000,000 m³). Records for water years 1978-80 are available in files of the Geological Survey.

COOPERATION.--Records furnished by S. D. Warren Co.

AVERAGE DISCHARGE.--95 years, 659 ft³/s (18.66 m³/s).

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	350	350	419	1000	988	988	313	1080	670	670	685	670
2	350	428	431	1000	988	988	313	1080	670	670	685	670
3	350	428	431	1000	1000	988	490	1080	670	685	670	670
4	350	437	431	1000	988	988	485	1080	670	670	670	670
5	350	437	431	1000	988	988	478	1080	670	685	670	670
6	350	437	431	1000	988	988	485	1080	670	685	670	670
7	350	437	431	988	1000	988	485	1080	670	685	685	670
8	350	423	431	988	988	988	485	1080	670	670	685	655
9	350	423	431	1000	988	988	525	1080	685	670	685	655
10	350	678	431	988	988	988	525	831	670	670	831	655
11	350	655	431	1050	988	988	525	831	670	670	831	655
12	350	655	431	1050	1000	988	525	831	670	670	831	655
13	350	678	431	1050	988	988	525	831	685	670	844	50
14	350	678	431	1050	988	988	525	831	685	670	831	50
15	343	678	431	1050	988	988	525	831	670	670	831	50
16	350	775	431	1050	988	988	525	831	670	670	831	50
17	350	831	431	1050	988	988	525	762	670	670	831	50
18	343	831	431	988	988	988	525	750	670	670	831	50
19	343	831	431	988	988	988	525	750	685	670	831	333
20	350	831	431	988	988	988	525	750	685	670	831	670
21	350	831	431	988	988	988	525	750	685	670	831	670
22	350	831	431	1000	988	988	1080	750	670	670	831	670
23	350	819	431	1000	988	988	1080	780	670	670	819	670
24	350	831	431	1000	988	988	1080	670	670	670	831	655
25	350	831	431	1000	988	988	1080	670	670	670	831	670
26	350	831	431	1000	988	988	1080	670	685	670	831	655
27	350	831	431	1000	988	988	1080	670	670	670	831	655
28	350	831	1000	1000	988	988	1080	670	670	670	831	670
29	350	831	990	1000	---	813	1080	670	670	670	831	670
30	350	831	978	1000	---	819	1080	670	670	670	831	670
31	350	---	990	1000	---	819	---	670	---	670	670	---
TOTAL	10829	20219	26383	31266	27700	30121	20079	26189	20205	20830	24051	15923
MEAN	349	674	851	1004	884	972	669	845	674	672	776	531
MAX	350	831	1000	1050	1000	988	1080	1080	685	685	844	670
MIN	343	350	219	988	988	819	313	670	670	670	670	50
CAL YR 1981 TOTAL	173723			MEAN 476	MAX 1000	MIN 131						
WTR YR 1982 TOTAL	273795			MEAN 750	MAX 1040	MIN 50						

PRESUMPCOT RIVER BASIN

01064140 PRESUMPCOT RIVER NEAR WEST FALMOUTH, ME
(National stream-quality accounting network station)

LOCATION.--Lat 43°43'28", long 70°18'12", Cumberland County, Hydrologic Unit 01060001, 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.--598 mi² (1,549 km²).

WATER-DISCHARGE RECORDS

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

REVISED RECORDS.--WRD ME-81-1: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 11.15 ft (3.399 m) National Geodetic Vertical Datum of 1929.

REMARKS.--Records fair. Flow regulated by Sebago Lake and many small powerplants upstream.

AVERAGE DISCHARGE.--7 years, 979 ft³/s (27.73 m³/s).

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, 4,520 ft³/s (128 m³/s) June 2, gage height, 11.99 ft (3.655 m); minimum daily, 121 ft³/s (3.43 m³/s) Sept. 17.

DISCHARGE, IN CURIC FEET PER SECOND, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	473	743	920	1100	1060	988	3000	1290	915	1180	700	729
2	467	720	1480	1120	1060	974	2440	1220	2710	918	690	699
3	520	739	1660	1210	1110	998	1450	1170	3000	799	706	690
4	496	751	1260	1350	1270	980	2680	1190	1430	743	819	717
5	492	675	1120	2530	1260	1020	1870	1200	1090	715	916	673
6	408	796	1130	1940	1270	1040	1260	1150	1260	677	859	697
7	495	937	1060	1670	1240	1040	917	1140	1520	733	715	686
8	503	952	1010	1400	1210	1140	1010	1150	1380	686	701	666
9	475	825	986	1310	1160	1150	1030	1120	1080	662	790	663
10	448	930	951	1230	1120	1140	1010	1110	988	686	1690	650
11	431	836	999	1170	1090	1140	1120	939	924	641	1190	671
12	460	878	995	1170	1100	1140	1390	914	849	657	935	696
13	449	851	978	1170	1090	1260	1460	935	820	638	852	320
14	440	890	959	1160	1070	1480	1540	933	810	632	891	197
15	449	854	1020	1160	1040	1500	1540	913	861	620	858	157
16	452	861	1250	1140	1040	1440	1400	906	823	625	838	141
17	405	1220	1280	1130	1050	1420	1530	1020	847	639	765	121
18	421	1250	1170	1190	1050	1370	1710	854	870	655	793	122
19	1070	1230	1120	1070	1030	1510	1510	743	837	627	826	215
20	805	1140	1030	979	1130	1660	1350	839	828	668	760	563
21	583	1510	989	1020	1090	1810	1160	810	786	665	766	601
22	502	1530	957	1040	1070	1740	1220	733	698	675	730	681
23	538	1230	938	1080	1060	1660	1250	673	708	725	772	710
24	1120	1010	937	1080	1050	1620	1460	803	780	705	807	653
25	933	1010	954	1030	1020	1910	1370	846	752	620	787	631
26	863	1030	926	1070	977	2470	1270	722	721	630	703	686
27	1490	986	904	1050	1070	2470	1640	705	683	682	805	662
28	1550	964	923	1010	1030	1790	1600	737	676	687	822	652
29	1230	995	1110	1030	---	1590	1400	702	898	1050	789	662
30	935	963	1100	1010	---	1500	1360	850	1790	829	764	606
31	815	---	1080	1010	---	1690	---	1030	---	694	686	---
TOTAL	20718	29306	33196	37629	30817	44640	44947	29347	32334	22163	25725	16617
MEAN	668	977	1071	1214	1101	1440	1498	947	1078	715	830	554
MAX	1550	1530	1660	2530	1270	2470	3000	1290	3000	1180	1690	729
MIN	405	675	904	979	977	974	917	673	676	620	686	121
CAL YR 1981	TOTAL	260141	MEAN	713	MAX	5760	MIN	278				
WTR YR 1982	TOTAL	367439	MEAN	1007	MAX	3000	MIN	121				

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, 21 micromhos July 28, 1982.

pH: Maximum, 9.4 units Dec. 7, 1977; minimum, 5.3 units May 22, 1978.

WATER TEMPERATURES: Maximum, 29.0°C July 21, 1977, Aug. 8, 9, 1980; minimum, 0.0°C on many days during winter periods.

DISSOLVED OXYGEN: Maximum, 14.2 mg/L Jan 19, Feb. 2, 1982; minimum, 4.4 mg/L Aug. 8, 1980.

EXTREMES FOR CURRENT YEAR.--

SPECIFIC CONDUCTANCE: Maximum, 233 micromhos Sept 19; minimum, 21 micromhos July 28.

pH: Maximum, 7.7 units Oct. 8, Sept 19; minimum, 6.5 units Jan. 5, 7, May 3, Sept. 13.

WATER TEMPERATURES: Maximum, 28.5°C July 19; minimum, 0.0°C on many days during winter period.

DISSOLVED OXYGEN.--Maximum, 14.2 mg/L Jan. 19, Feb. 2; minimum, 7.0 mg/L July 20.

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982

DATE	TIME	STREAM- FLOW, INSTAN- TANFOUS (CFS)	SPE- CIFIC CON- DUCT- ANCE (UMHOS)	SPF- CIFIC CON- DUCT- ANCE LAB (UMHOS)	PH (UNITS)	TEMPER- ATURE, AIR (DEG C)	TEMPER- ATURE (DEG C)	TUR- BID- ITY (FTU)	OXYGEN, DIS- SOLVED (MG/L)	COLI- FORM, FECAL, 0.7 UM-MF (COLS./ 100 ML)	STREP- TOCOCCI FECAL, KF AGAR (COLS. PER 100 ML)
OCT 27...	1145	1580	96	89	6.9	11.5	10.0	9.9	11.0	>3000	310
DEC 22...	1500	910	85	80	6.7	7.0	1.0	3.2	13.6	K730	--
FEB 24...	1330	1050	92	84	6.7	-3.0	1.0	3.9	13.4	390	80
APR 20...	1100	1350	75	67	6.7	14.5	7.5	2.8	11.9	80	K6600
JUN 23...	1200	698	100	103	6.9	17.0	19.0	3.2	8.1	<1200	<2000
AUG 24...	1200	809	67	65	6.8	22.0	21.0	1.3	8.8	200	85

DATE	HARD- NESS (MG/L AS CACO3)	HARD- NESS NONCAR- BONATE (MG/L AS CACO3)	CALCIUM DIS- SOLVED (MG/L AS CA)	MAGNE- SIUM, DIS- SOLVED (MG/L AS MG)	SODIUM, DIS- SOLVED (MG/L AS NA)	POTAS- SIUM, DIS- SOLVED (MG/L AS K)	ALKA- LINEITY LAB (MG/L AS CACO3)	SULFATE DIS- SOLVED (MG/L AS SO4)	CHLO- RIDE, DIS- SOLVED (MG/L AS CL)	FLUO- RIDE, DIS- SOLVED (MG/L AS F)	SILICA, DIS- SOLVED (MG/L AS SiO2)
OCT 27...	21	3.0	6.4	1.2	11	1.2	18	9.7	14	<.1	5.3
DEC 22...	15	.00	4.9	.8	11	.8	16	7.8	10	<.1	3.1
FEB 24...	17	4.0	5.2	.9	10	.8	13	8.4	11	<.1	2.9
APR 20...	15	1.0	4.5	.8	7.6	.6	14	6.0	9.2	<.1	3.6
JUN 23...	19	2.0	6.2	.9	13	.8	17	8.0	13	<.1	2.7
AUG 24...	14	.00	4.5	.7	7.4	.2	14	6.0	7.3	<.1	1.7

K RESULTS BASED ON COLONY COUNT OUTSIDE THE ACCEPTABLE RANGE (NON-IDEAL COLONY COUNT).

01064140 PRESUMPCOT RIVER NEAR WEST FALMOUTH, ME--Continued

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982

DATE	SOLIDS, RESIDUE AT 180 DEG. C DIS- SOLVED (MG/L)	SOLIDS, SUM OF CONSTITUENTS, DIS- SOLVED (MG/L)	SOLIDS, DIS- SOLVED (TONS PER AC-FT)	SOLIDS, DIS- SOLVED (TONS PER DAY)	NITRO- GEN, NO2+NO3 DIS- SOLVED (MG/L AS N)	NITRO- GEN, AMMONIA DIS- SOLVED (MG/L AS N)	NITRO- GEN, AMMONIA DIS- SOLVED (MG/L AS NH4)	NITRO- GEN,AM- MONIA + ORGANIC TOTAL (MG/L AS N)	PHOS- PHORUS, TOTAL (MG/L AS P)	PHOS- PHORUS TOTAL (MG/L AS P04)	PHOS- PHORUS, DIS- SOLVED (MG/L AS P)
OCT 27...	--	60	.04	256	.25	.060	.08	.58	.060	.18	<.010
DEC 22...	55	48	.07	135	.18	.040	.05	.63	.060	.18	.040
FEB 24...	52	47	.07	147	.20	.070	.09	.41	.070	.21	.030
APR 20...	52	41	.07	190	<.10	.050	.06	<.10	.030	.09	.010
JUN 23...	77	55	.10	145	.15	.090	.12	.30	.040	.12	.010
AUG 24...	35	35	.05	76.5	<.10	.060	.08	.30	.050	.15	.040

DATE	PHOS- PHORUS, ORTHO, DIS- SOLVED (MG/L AS P)	ARSENIC TOTAL (UG/L AS AS)	ARSENIC DIS- SOLVED (UG/L AS AS)	BARIUM, TOTAL RECOV- ERABLE (UG/L AS BA)	BARIUM, DIS- SOLVED (UG/L AS RA)	CADMIUM TOTAL RECOV- ERABLE (UG/L AS CD)	CADMIUM DIS- SOLVED (UG/L AS CD)	CHRO- MIUM, TOTAL RECOV- ERABLE (UG/L AS CR)	CHRO- MIUM, DIS- SOLVED (UG/L AS CR)	COBALT, TOTAL RECOV- ERABLE (UG/L AS CO)	COBALT, DIS- SOLVED (UG/L AS CO)
OCT 27...	.010	1	1	100	10	<1	3	10	<10	1	<1
DEC 22...	.030	--	--	--	--	--	--	--	--	--	--
FEB 24...	.070	1	2	<100	12	1	<1	10	<10	<1	<1
APR 20...	<.010	1	1	<100	13	1	<1	20	10	<1	<1
JUN 23...	<.010	--	--	--	--	--	--	--	--	--	--
AUG 24...	.020	1	1	<100	<100	<1	<1	10	<10	<1	<1

DATE	COPPER, TOTAL 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, DIS- SOLVED (UG/L AS PB)	MANGA- NESE, TOTAL RECOV- ERABLE (UG/L AS MN)	MANGA- NESE, DIS- SOLVED (UG/L AS MN)	MERCURY TOTAL RECOV- ERABLE (UG/L AS HG)	MERCURY DIS- SOLVED (UG/L AS HG)	NICKEL, TOTAL RECOV- ERABLE (UG/L AS NI)
OCT 27...	9	2	880	200	7	2	50	22	.2	<.1	2
DEC 22...	--	--	--	--	--	--	--	--	--	--	--
FEB 24...	6	2	180	37	8	<1	30	19	.2	.1	<1
APR 20...	11	5	340	85	8	2	30	19	<1.0	<.1	3
JUN 23...	--	--	--	--	--	--	--	--	--	--	--
AUG 24...	3	2	300	10	4	2	20	20	.2	<.1	2

DATE	NICKEL, DIS- SOLVED (UG/L AS NI)	SELE- NIUM, TOTAL (UG/L AS SE)	SELE- NIUM, DIS- SOLVED (UG/L AS SE)	SILVER, TOTAL RECOV- ERABLE (UG/L AS AG)	SILVER, DIS- SOLVED (UG/L AS AG)	ZINC, TOTAL RECOV- ERABLE (UG/L AS ZN)	ZINC, DIS- SOLVED (UG/L AS ZN)	SEDI- MENT, SUS- PENDE (MG/L)	SEDI- MENT, DIS- CHARGE, SUS- PENDE (T/DAY)	SED. SUSP. SIEVE DIAM. % FINER THAN .062 MM
OCT 27...	1	<1	<1	<1	<1	40	5	15	64	94
DEC 22...	--	--	--	--	--	--	--	12	29	39
FEB 24...	<1	<1	<1	<1	<1	20	12	9	26	100
APR 20...	3	<1	<1	<1	<1	10	5	11	40	64
JUN 23...	--	--	--	--	--	--	--	8	15	72
AUG 24...	2	<1	<1	<1	<1	10	10	13	28	24

01064140 PRESUMPCOT RIVER NEAR WEST FALMOUTH, ME--Continued

SPECIFIC CONDUCTANCE (MICROMHOS/CM AT 25 DEG. C), WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
OCTOBER			NOVEMBER			DECEMBER			JANUARY			
1	161	122	141	126	118	121	115	93	101	97	69	78
2	153	126	143	127	112	117	111	82	95	87	78	81
3	138	116	124	130	115	123	94	87	91	82	74	77
4	152	112	129	121	107	115	103	93	97	156	73	97
5	158	131	140	122	110	116	101	93	97	125	82	91
6	189	138	165	117	105	109	94	87	90	90	80	86
7	153	109	131	125	105	113	101	89	94	87	71	80
8	179	130	148	117	111	114	99	89	93	92	83	87
9	176	140	152	124	117	120	101	90	96	92	86	88
10	176	137	150	---	---	---	102	89	97	97	88	93
11	163	125	139	---	---	---	96	78	86	108	83	94
12	183	135	152	---	---	---	86	67	78	93	80	89
13	168	126	143	124	108	116	100	85	91	89	80	85
14	170	132	148	115	101	107	119	90	100	89	77	84
15	171	127	145	125	100	110	104	90	95	87	80	84
16	157	127	139	123	104	114	115	89	101	89	81	85
17	153	129	143	107	87	95	98	88	94	89	78	82
18	162	124	147	102	91	96	100	90	94	80	74	78
19	167	90	123	103	89	99	96	87	91	91	77	81
20	138	110	124	113	92	99	94	81	88	96	88	92
21	150	128	141	104	83	96	95	83	89	91	79	85
22	158	144	151	97	85	92	97	80	89	90	79	86
23	158	131	144	107	86	97	84	72	77	95	87	90
24	144	89	116	112	92	102	99	68	81	94	83	89
25	131	104	114	108	93	101	123	91	110	93	84	89
26	139	107	126	105	90	96	112	75	96	88	83	85
27	101	95	98	102	86	92	107	86	98	91	83	87
28	111	98	103	105	97	101	106	90	99	89	81	85
29	113	101	107	106	95	101	111	87	101	93	77	83
30	125	110	117	104	96	99	111	84	98	86	78	82
31	125	114	121	---	---	---	88	72	78	89	82	85
MONTH	189	89	134	130	83	106	123	67	93	156	69	86

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
FEBRUARY			MARCH			APRIL			MAY			
1	93	82	88	87	80	84	95	70	78	78	73	76
2	90	84	87	90	83	87	83	70	76	80	73	77
3	151	90	117	90	83	86	108	80	90	85	75	81
4	117	105	111	90	74	85	104	79	85	85	78	81
5	109	82	96	---	---	---	96	83	88	84	71	79
6	90	79	83	---	---	---	117	93	102	81	53	69
7	89	82	85	---	---	---	161	107	117	80	61	68
8	89	81	85	---	---	---	126	112	119	86	60	71
9	90	77	82	---	---	---	135	115	126	90	58	73
10	92	85	89	---	---	---	---	---	---	87	74	79
11	91	75	86	---	---	---	---	---	---	93	86	89
12	93	77	84	---	---	---	93	82	86	95	88	91
13	93	85	90	---	---	---	97	83	89	97	88	94
14	94	86	91	---	---	---	94	80	86	95	68	83
15	90	81	84	---	---	---	95	82	90	96	67	79
16	105	81	88	---	---	---	92	81	87	98	74	90
17	94	79	84	---	---	---	81	67	75	96	61	82
18	87	81	85	---	---	---	76	68	72	90	63	75
19	94	82	87	---	---	---	75	65	71	114	77	91
20	104	79	89	104	91	99	87	60	74	111	91	100
21	101	83	90	94	88	90	101	66	88	101	76	93
22	96	87	91	99	91	94	96	81	88	109	70	88
23	91	81	87	104	91	97	89	65	76	109	83	104
24	96	83	89	---	---	---	77	65	71	105	88	97
25	93	84	88	94	80	87	79	62	73	101	87	95
26	232	74	97	93	80	86	80	64	71	106	91	100
27	89	80	85	86	75	81	84	73	78	110	72	97
28	94	84	89	92	77	85	82	74	78	103	64	82
29	---	---	---	99	87	92	80	63	73	119	95	107
30	---	---	---	132	88	98	81	72	77	110	97	103
31	---	---	---	104	85	92	---	---	---	---	---	---
MONTH	232	74	90	132	74	90	161	60	85	119	53	86

PRESUMPCOT RIVER BASIN

01064140 PRESUMPCOT RIVER NEAR WEST FALMOUTH, ME--Continued

SPECIFIC CONDUCTANCE (MICROMHOS/CM AT 25 DEG. C), WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
	JUNE			JULY			AUGUST			SEPTEMBER		
1	---	---	---	109	84	104	97	88	92	106	71	88
2	---	---	---	109	78	96	93	85	90	105	93	99
3	---	---	---	114	76	92	113	76	94	106	98	102
4	---	---	---	116	72	95	91	69	80	97	85	89
5	---	---	---	116	79	94	115	72	88	100	91	95
6	---	---	---	115	70	91	90	72	84	102	85	93
7	---	---	---	97	64	80	98	81	90	106	92	99
8	---	---	---	91	63	75	100	79	88	116	90	104
9	---	---	---	115	71	94	123	80	96	103	87	94
10	---	---	---	111	70	96	84	62	71	101	88	96
11	---	---	---	121	69	107	77	71	74	95	81	90
12	---	---	---	117	71	104	87	72	79	94	57	77
13	---	---	---	125	75	108	89	76	83	109	65	85
14	---	---	---	89	75	81	88	75	83	118	90	104
15	---	---	---	91	40	78	89	77	85	142	85	113
16	110	92	105	96	38	73	92	82	88	141	87	121
17	118	96	106	91	59	83	97	85	91	160	117	137
18	106	95	100	86	53	71	96	91	94	210	156	180
19	108	98	102	105	41	85	92	79	84	233	125	196
20	104	93	99	137	52	109	93	68	83	119	74	92
21	118	98	107	109	71	99	95	81	87	83	63	74
22	116	104	111	127	67	105	92	81	85	92	71	81
23	123	98	111	114	96	103	90	76	83	93	81	87
24	102	90	96	104	83	96	89	65	76	105	90	99
25	109	96	101	125	96	110	108	83	96	124	103	114
26	111	96	102	131	39	101	103	95	98	109	93	101
27	116	100	108	106	23	45	94	79	85	109	91	99
28	118	88	103	119	21	70	90	83	86	114	86	101
29	126	96	111	109	59	76	102	86	93	124	93	105
30	---	---	---	100	81	91	99	89	93	131	108	122
31	---	---	---	115	83	98	108	100	105	---	---	---
MONTH	126	88	104	137	21	91	123	62	87	233	57	105
YFAR	233	21	96									

PH (STANDARD UNITS), WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982

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

PH (STANDARD UNITS), WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982

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

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

PRESUMPCOT RIVER BASIN

01064140 PRESUMPCOT RIVER NEAR WEST FALMOUTH, ME--Continued

TEMPERATURE, WATER (DEG. C), WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982

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

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

01064140 PRESUMPSCOT RIVER NEAR WEST FALMOUTH, ME--Continued

TEMPERATURE, WATER (DEG. C), WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
	JUNE			JULY			AUGUST			SEPTEMBER		
1	---	---	---	20.0	18.5	19.0	25.0	23.5	24.5	20.5	19.0	19.5
2	---	---	---	20.5	19.0	20.0	24.5	24.0	24.5	20.0	19.0	19.5
3	---	---	---	21.5	20.0	20.5	24.0	23.0	23.5	21.0	19.5	20.0
4	---	---	---	21.5	20.0	21.0	24.0	22.5	23.0	21.0	20.0	20.5
5	---	---	---	22.0	20.0	21.0	23.5	22.5	23.0	21.0	19.5	20.0
6	---	---	---	23.0	20.5	22.0	23.5	22.0	23.0	21.0	19.5	20.0
7	---	---	---	23.5	21.5	23.0	24.5	22.5	23.5	21.0	20.0	20.5
8	---	---	---	25.0	23.0	24.5	24.5	23.0	23.5	21.0	19.5	20.0
9	---	---	---	25.5	24.0	24.5	23.5	22.5	23.0	21.0	19.0	20.0
10	---	---	---	25.5	24.0	24.5	22.5	21.5	22.0	21.5	19.5	20.5
11	---	---	---	25.5	24.0	25.0	23.0	21.5	22.5	22.0	20.0	21.0
12	---	---	---	24.5	24.0	24.5	23.5	22.0	22.5	22.0	20.5	21.0
13	---	---	---	25.5	24.0	24.5	22.5	22.5	22.5	21.0	20.5	21.0
14	---	---	---	26.5	24.0	25.0	22.5	21.5	22.0	21.5	20.5	21.0
15	---	---	---	26.0	24.5	25.0	23.5	22.0	22.5	21.5	20.5	21.0
16	18.0	16.5	17.5	26.0	24.5	25.0	24.0	22.0	23.0	20.5	19.0	19.5
17	18.0	17.5	17.5	26.5	25.0	25.5	24.5	23.0	23.5	20.0	19.0	19.5
18	19.0	17.5	18.0	27.5	25.0	26.5	24.0	23.0	23.5	19.5	18.5	19.0
19	19.5	18.0	19.0	28.5	26.5	27.5	24.0	22.5	23.5	19.5	18.0	19.0
20	20.0	18.5	19.5	27.5	26.0	27.0	24.0	23.0	23.5	18.5	18.0	18.5
21	19.5	19.0	19.5	26.0	25.5	26.0	23.5	22.5	23.0	18.5	18.0	18.5
22	20.5	18.5	19.5	25.5	25.0	25.0	22.5	21.5	22.0	18.5	17.5	18.0
23	20.5	19.0	19.5	25.0	24.5	24.5	22.0	21.0	21.5	18.0	17.5	17.5
24	20.0	19.0	19.5	25.5	24.0	24.5	22.5	21.0	21.5	18.0	17.0	17.5
25	20.0	19.0	19.5	26.0	24.0	25.0	22.0	21.5	22.0	18.0	17.0	17.5
26	20.0	19.5	19.5	26.0	24.5	25.5	22.0	20.5	21.5	18.5	17.5	18.0
27	21.0	19.0	20.0	26.0	24.5	25.5	22.5	20.5	21.5	17.5	17.0	17.5
28	20.5	19.5	20.0	25.5	22.5	24.5	22.0	21.0	21.5	18.0	17.5	17.5
29	20.0	18.5	19.0	23.0	21.5	22.5	21.0	20.0	20.5	18.0	17.5	17.5
30	---	---	---	24.0	21.5	23.0	20.5	19.0	20.0	18.5	17.5	18.0
31	---	---	---	25.0	23.0	23.5	21.0	19.5	20.0	---	---	---
MONTH	21.0	16.5	19.0	28.5	18.5	24.0	25.0	19.0	22.5	22.0	17.0	19.5
YEAR	28.5	.0	10.5									

OXYGEN, DISSOLVED (DO), MG/L, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
	OCTOBER			NOVEMBER			DECEMBER			JANUARY		
1	9.9	9.4	9.7	11.3	11.1	11.2	12.7	12.5	12.6	13.7	13.3	13.5
2	10.0	9.4	9.7	11.4	11.1	11.3	12.7	12.2	12.6	13.7	13.3	13.5
3	10.3	9.9	10.1	11.5	11.3	11.4	12.9	12.6	12.7	13.9	13.6	13.8
4	10.3	9.9	10.0	11.5	11.3	11.5	12.7	12.6	12.6	13.8	13.3	13.7
5	10.3	9.8	10.1	11.6	11.4	11.5	12.6	12.4	12.5	14.0	13.7	13.8
6	---	---	---	11.5	11.2	11.4	12.6	12.4	12.5	14.1	13.9	14.0
7	---	---	---	11.5	11.3	11.4	12.8	12.5	12.7	14.1	13.8	13.9
8	---	---	---	11.8	11.5	11.7	12.8	12.7	12.7	13.9	13.6	13.8
9	---	---	---	11.9	11.7	11.8	12.7	12.6	12.7	13.8	13.5	13.7
10	---	---	---	---	---	---	12.9	12.7	12.8	13.6	13.4	13.5
11	---	---	---	---	---	---	13.0	12.9	12.9	13.8	13.6	13.7
12	---	---	---	---	---	---	13.1	13.0	13.0	14.0	13.7	13.9
13	---	---	---	11.9	11.7	11.9	13.3	13.1	13.2	14.0	13.9	13.9
14	---	---	---	12.0	11.8	11.9	13.4	13.2	13.3	13.9	13.5	13.7
15	---	---	---	11.8	11.4	11.7	13.4	13.1	13.2	13.5	13.3	13.4
16	9.6	9.3	9.5	11.5	11.4	11.4	13.1	12.8	12.9	13.7	13.5	13.6
17	9.6	8.7	9.3	11.5	11.3	11.4	13.4	13.1	13.3	13.9	13.5	13.6
18	9.5	8.7	9.1	11.3	11.1	11.2	13.4	13.2	13.3	14.0	13.7	13.9
19	9.8	8.3	9.3	11.5	11.2	11.3	13.3	13.2	13.3	14.2	13.9	14.0
20	9.9	9.7	9.8	11.5	11.4	11.4	13.5	13.2	13.4	13.9	13.7	13.8
21	9.9	9.3	9.7	11.7	11.3	11.4	13.6	13.5	13.5	14.0	13.7	13.9
22	9.8	9.1	9.6	11.9	11.7	11.8	13.5	13.4	13.5	14.1	13.9	14.0
23	9.6	9.3	9.5	12.0	11.8	11.9	13.5	13.2	13.3	14.1	13.7	13.9
24	9.9	9.3	9.6	12.1	11.9	12.0	13.5	13.3	13.4	13.7	13.4	13.5
25	10.3	10.0	10.2	12.3	12.1	12.2	13.3	13.2	13.3	13.7	13.4	13.5
26	10.3	10.1	10.2	12.4	12.2	12.4	13.4	13.3	13.4	13.9	13.7	13.8
27	10.4	10.1	10.3	12.4	12.1	12.2	13.3	13.0	13.2	14.0	13.9	13.9
28	10.4	10.1	10.2	12.3	12.1	12.2	13.5	13.1	13.3	14.0	13.7	13.8
29	10.6	10.5	10.6	12.4	12.2	12.3	13.4	13.2	13.3	13.9	13.7	13.8
30	11.0	10.8	10.9	12.5	12.3	12.4	13.7	13.3	13.5	13.9	13.7	13.8
31	11.2	11.0	11.1	---	---	---	13.8	13.7	13.7	13.8	13.6	13.7
MONTH	11.2	8.3	9.9	12.5	11.1	11.7	13.8	12.2	13.1	14.2	13.3	13.8

01064140 PRESUMPSCOT RIVER NEAR WEST FALMOUTH, ME--Continued

OXYGEN, DISSOLVED (DO), MG/L, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
FEBRUARY				MARCH			APRIL			MAY		
1	13.8	13.6	13.7	13.7	13.5	13.6	12.5	12.2	12.4	11.0	10.8	10.9
2	14.2	13.9	14.1	13.4	13.2	13.3	12.6	12.2	12.4	10.9	10.7	10.8
3	14.0	13.6	13.8	13.3	13.1	13.2	12.2	11.8	12.1	10.9	10.5	10.8
4	14.0	13.4	13.7	13.4	12.9	13.2	12.1	11.8	12.0	10.8	10.6	10.7
5	14.1	13.9	14.0	---	---	---	12.1	12.0	12.1	10.7	10.5	10.6
6	13.8	13.6	13.7	---	---	---	---	---	---	10.7	10.2	10.4
7	13.8	13.6	13.7	---	---	---	---	---	---	11.2	10.1	10.7
8	13.7	13.6	13.6	---	---	---	---	---	---	11.0	10.4	10.7
9	13.8	13.6	13.7	---	---	---	---	---	---	10.8	10.4	10.6
10	13.7	13.5	13.6	---	---	---	---	---	---	10.8	10.4	10.7
11	13.9	13.7	13.8	---	---	---	---	---	---	11.3	10.5	10.9
12	13.9	13.7	13.8	---	---	---	12.7	12.3	12.5	11.1	10.6	10.9
13	13.8	13.5	13.7	---	---	---	12.6	12.4	12.5	10.6	10.3	10.5
14	13.7	13.5	13.6	---	---	---	12.4	12.2	12.3	10.7	10.3	10.5
15	13.8	13.6	13.7	---	---	---	13.2	12.0	12.7	10.3	9.9	10.1
16	13.7	13.5	13.6	---	---	---	13.1	12.3	12.6	10.1	9.6	9.9
17	13.8	13.6	13.7	---	---	---	12.3	11.3	11.6	9.9	9.5	9.7
18	13.9	13.7	13.8	---	---	---	11.3	11.0	11.2	9.8	8.4	9.5
19	13.8	13.6	13.7	---	---	---	11.4	11.0	11.1	9.6	8.4	9.2
20	13.6	13.5	13.6	12.3	11.8	12.0	11.8	10.7	11.5	9.2	8.0	8.7
21	13.5	13.4	13.4	12.3	12.2	12.3	12.1	11.5	11.7	9.0	8.7	8.9
22	13.5	13.4	13.5	---	---	---	12.2	11.4	11.6	9.2	8.7	8.9
23	13.6	13.4	13.5	---	---	---	11.7	11.0	11.3	9.0	8.7	8.9
24	13.4	13.3	13.3	---	---	---	11.3	11.0	11.1	9.2	8.9	9.1
25	13.5	13.4	13.4	12.7	12.0	12.5	11.1	10.7	10.9	9.5	9.2	9.4
26	13.7	12.3	13.2	12.6	12.3	12.5	10.8	10.6	10.7	9.2	8.7	9.1
27	13.7	13.5	13.6	12.6	12.5	12.6	10.7	10.5	10.6	9.0	8.7	8.9
28	13.6	13.5	13.6	12.8	12.4	12.7	10.9	10.5	10.7	9.3	8.7	9.0
29	---	---	---	12.8	12.6	12.7	11.1	10.9	11.0	8.9	8.6	8.8
30	---	---	---	12.7	12.3	12.5	11.0	10.8	10.9	8.9	8.6	8.8
31	---	---	---	12.5	12.3	12.4	---	---	---	---	---	---
MONTH	14.2	12.3	13.7	13.7	11.8	12.7	13.2	10.5	11.7	11.3	8.0	9.9
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
JUNE				JULY			AUGUST			SEPTEMBER		
1	---	---	---	9.1	8.9	9.0	7.9	7.6	7.8	9.0	8.6	8.9
2	---	---	---	8.9	8.6	8.8	8.5	7.7	8.1	9.0	8.8	8.9
3	---	---	---	8.8	8.4	8.6	8.4	8.0	8.2	9.2	8.6	8.7
4	---	---	---	8.7	8.5	8.6	8.6	8.3	8.5	8.9	8.6	8.8
5	---	---	---	8.7	8.5	8.6	8.6	8.4	8.5	9.0	8.7	8.8
6	---	---	---	8.7	8.3	8.5	8.8	8.5	8.6	8.9	8.6	8.8
7	---	---	---	8.6	8.1	8.4	8.6	8.2	8.4	8.9	8.6	8.7
8	---	---	---	8.2	7.8	8.0	8.3	8.0	8.2	8.9	8.6	8.8
9	---	---	---	7.9	7.7	7.8	8.2	7.8	8.1	9.8	8.7	8.9
10	---	---	---	8.0	7.7	7.8	8.8	8.2	8.6	9.0	8.8	8.9
11	---	---	---	7.9	7.6	7.8	8.6	8.3	8.4	8.9	8.7	8.8
12	---	---	---	7.9	7.6	7.8	8.8	8.3	8.7	9.1	8.6	8.8
13	---	---	---	8.1	7.6	7.9	8.8	8.5	8.6	8.7	8.3	8.5
14	---	---	---	7.8	7.6	7.7	8.8	8.5	8.7	8.4	8.0	8.2
15	---	---	---	8.0	7.5	7.8	8.6	8.5	8.6	8.3	7.9	8.1
16	9.3	9.0	9.2	8.0	7.6	7.8	8.6	8.4	8.5	8.2	7.8	7.9
17	9.1	9.0	9.1	7.9	7.5	7.7	8.5	8.3	8.4	8.8	7.9	8.1
18	9.2	8.8	9.0	7.8	7.4	7.6	8.4	8.2	8.3	8.1	7.9	8.0
19	8.8	8.6	8.7	7.5	7.2	7.4	8.5	8.3	8.4	8.8	8.0	8.2
20	8.7	8.5	8.6	7.3	7.0	7.1	8.4	8.1	8.3	9.4	8.8	9.1
21	8.6	8.4	8.5	7.7	7.1	7.5	8.3	8.1	8.2	9.4	8.9	9.1
22	8.6	8.4	8.5	7.9	7.5	7.7	8.6	8.2	8.4	9.3	9.0	9.2
23	8.6	8.4	8.6	8.2	7.8	8.0	8.8	8.4	8.6	9.4	9.1	9.2
24	8.9	8.6	8.7	8.1	7.8	8.0	9.0	8.5	8.7	9.5	9.1	9.3
25	8.7	8.6	8.7	7.7	7.5	7.6	---	---	---	9.4	9.2	9.3
26	8.7	8.6	8.6	7.5	7.2	7.4	---	---	---	9.5	9.2	9.3
27	8.8	8.5	8.6	7.6	7.2	7.4	8.8	8.2	8.7	9.3	9.0	9.2
28	8.9	8.5	8.7	7.7	7.2	7.3	8.7	8.4	8.6	9.4	9.0	9.1
29	8.9	8.7	8.8	8.3	7.5	8.0	8.8	8.6	8.7	9.4	9.1	9.2
30	---	---	---	8.3	7.8	8.1	9.1	8.7	8.9	9.3	9.0	9.1
31	---	---	---	7.9	7.6	7.8	9.6	8.5	8.7	---	---	---
MONTH	9.3	8.4	8.7	9.1	7.0	7.9	9.6	7.6	8.5	9.8	7.8	8.8
YEAR	14.2	7.0	10.9									

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.--385 mi² (997 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 1301: 1908-09. WDR ME-81-1: Drainage area.

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 periods of no gage height record Oct. 1 to Nov. 3, Mar. 3 to Apr 19, June 6 to July 6, which are fair. Several observations of water temperature and specific conductance were made during the year.

AVERAGE DISCHARGE.--59 years (water years 1904-09, 1930-82), 931 ft³/s (26.37 m³/s), 32.84 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 maximum (*):

Date	Time	Discharge (ft ³ /s) (m ³ /s)	Gage height (ft) (m)	Date	Time	Discharge (ft ³ /s) (m ³ /s)	Gage height (ft) (m)
Apr. 18	--	9640 273	a 8.30 2.530	Apr. 27	0900	* 12,000 340	9.06 2.761

a from peak stage indicator.

Minimum discharge, 117 ft³/s (3.31 m³/s) Sept. 14, gage height, 2.00 ft (0.610 m).

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1300	1700	660	423	210	200	1200	3910	1040	720	321	233
2	1250	1500	922	379	210	200	780	3710	2390	520	323	237
3	1230	1300	913	401	450	200	660	3450	2610	580	396	290
4	1180	1140	914	428	900	200	590	3220	1380	520	369	301
5	1450	1050	742	596	600	200	560	2770	1400	480	332	251
6	1300	1090	702	996	500	200	540	2860	1550	460	335	226
7	1150	1360	650	568	400	210	540	3100	1200	440	286	199
8	1050	1080	620	479	360	210	520	3220	1050	421	264	188
9	980	958	600	478	340	205	1300	3540	900	392	412	196
10	960	883	560	425	310	200	500	3000	800	366	959	189
11	920	841	540	400	300	200	450	2210	700	341	569	183
12	860	801	530	370	290	270	420	1970	660	332	414	184
13	840	742	534	350	280	420	400	1830	620	337	358	178
14	840	721	512	340	270	460	390	1660	640	315	344	168
15	830	703	549	330	270	400	380	1550	600	293	321	180
16	820	720	520	310	250	270	1300	1550	580	285	289	311
17	800	1340	500	300	250	270	3000	1430	600	287	266	299
18	1000	1560	480	290	250	270	9000	1320	580	273	247	252
19	3000	1300	470	280	250	280	4600	1140	520	260	233	223
20	1500	1100	450	270	250	290	4970	1850	560	341	222	209
21	1300	1460	400	260	260	320	6380	1570	510	512	218	230
22	1200	1470	410	250	250	300	5140	1100	490	353	206	254
23	1600	1140	420	250	240	270	3600	932	900	302	202	246
24	3600	1040	440	250	230	270	4360	852	800	272	320	338
25	2100	940	420	240	220	300	5750	820	620	251	274	330
26	2100	872	420	230	220	900	7130	791	560	239	615	265
27	6600	860	410	230	210	1140	11500	734	540	221	456	260
28	4500	822	410	220	210	900	8040	674	500	261	328	448
29	2800	776	400	220	---	500	4930	641	600	583	295	391
30	2400	717	344	220	---	420	4120	828	900	448	264	331
31	2100	---	356	210	---	470	---	1430	---	331	246	---
TOTAL	53560	32016	16448	10993	8790	10445	93040	59662	26800	11736	10684	7590
MEAN	1728	1037	532	355	314	353	3101	1925	893	379	345	253
MAX	6600	1700	913	996	600	1140	11500	3910	2610	720	959	448
MIN	800	703	356	210	210	200	380	641	490	221	202	168
CFSM	4.49	2.77	1.40	.92	.42	.92	8.06	5.00	2.32	.98	.90	.66
IN.	5.18	3.09	1.61	1.06	.85	1.06	8.99	5.76	2.59	1.13	1.03	.73

CAL YR 1981 TOTAL 410401 MEAN 1125 MAX 12800 MIN 210 CFSM 2.92 IN 39.69
WTR YR 1982 TOTAL 342464 MEAN 938 MAX 11500 MIN 168 CFSM 2.44 IN 33.09

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. Flow regulated by Ossipee and Silver Lakes and Pine River Pond, combined capacity, 1,430,000,000 ft³ (40,500,000 m³). Several observations of water temperature and specific conductance were made during the year.

AVERAGE DISCHARGE.--40 years, 689 ft³/s (19.51 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, 3,610 ft³/s (102 m³/s) Apr. 22, gage height, 7.83 ft (2.387 m); minimum, 22 ft³/s (0.62 m³/s) Feb. 26; minimum daily, 177 ft³/s (5.01 m³/s) Oct. 22.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	769	1970	764	428	502	453	1140	2860	507	1170	235	254
2	634	1630	875	430	499	450	1450	2570	830	1140	306	254
3	536	1370	946	430	499	447	1640	2320	1210	1090	351	254
4	534	1250	858	433	501	443	1810	2030	1220	1040	348	255
5	617	1060	791	661	607	442	1920	1800	1210	1010	349	254
6	666	877	796	706	689	441	1840	1630	1200	713	429	254
7	658	848	796	593	692	440	1760	1410	1200	438	482	253
8	649	870	795	597	691	439	1660	1280	1190	332	479	252
9	640	868	793	597	690	439	1610	1200	1170	273	339	251
10	629	838	795	583	689	438	1520	1000	1140	237	488	250
11	618	813	693	549	682	437	1320	918	901	236	649	250
12	605	781	615	546	676	436	1260	915	774	237	667	250
13	594	616	614	545	668	437	1250	892	764	237	492	248
14	584	515	611	542	660	438	1280	867	593	237	362	247
15	574	515	666	539	653	491	1310	837	496	238	359	247
16	565	518	739	537	642	542	1380	807	498	226	353	257
17	553	526	735	535	637	542	1580	749	381	218	352	320
18	545	803	661	531	626	539	2170	712	298	218	293	319
19	370	993	609	529	534	535	3040	527	301	217	254	316
20	235	994	605	528	472	521	3400	229	306	218	259	314
21	211	1090	600	525	471	533	3520	328	293	265	264	314
22	177	1200	490	525	481	623	3570	331	264	330	263	313
23	181	1200	413	524	473	663	3400	333	268	221	262	311
24	494	1190	416	523	475	665	3150	389	288	225	261	311
25	910	959	419	522	469	669	2990	457	452	229	261	311
26	1210	811	420	521	355	725	2920	405	536	225	259	319
27	1520	935	422	518	460	843	3090	337	528	227	259	424
28	2380	1130	423	516	457	936	3490	340	514	221	259	423
29	2710	1100	426	512	---	996	3470	342	565	224	257	421
30	2540	889	427	509	---	1020	3190	430	1050	231	257	418
31	2280	---	427	504	---	1040	---	502	---	231	256	---
TOTAL	26188	29159	19640	16538	15950	18063	67130	29747	20947	12354	10704	8864
MEAN	845	972	634	533	570	583	2238	960	698	399	345	295
MAX	2710	1970	946	706	692	1040	3570	2860	1220	1170	667	424
MIN	177	515	413	428	355	436	1140	229	264	217	235	247
CAL YR 1981	TOTAL	245240	MEAN	672	MAX	3660	MIN	177				
WTR YR 1982	TOTAL	275284	MEAN	754	MAX	3570	MIN	177				

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.--452 mi² (1,171 km²).

PERIOD OF RECORD.--July 1916 to current year.

REVISED RECORDS.--WSP 1301: 1927-29(M). WDR ME-81-1: Drainage area.

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, which are fair. Flow partly regulated by mill at Kezer 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.--66 years, 876 ft³/s (24.81 m³/s).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 17,200 ft³/s (487 m³/s) Mar. 21, 1936, gage height, 16.32 ft (4.974 m) present datum, from rating curve extended above 7,500 ft³/s (210 m³/s); minimum daily, 65 ft³/s (1.84 m³/s) Sept. 8, 1929.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 4,380 ft³/s (124 m³/s) Apr. 21, gage height, 7.03 ft (2.143 m); minimum daily, 260 ft³/s (7.36 m³/s) Sept. 14.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	828	2350	977	580	600	560	1950	3360	690	1520	318	278
2	779	2080	1220	575	600	560	2260	3030	1360	1380	334	292
3	602	1700	1440	570	610	560	2320	2730	2020	1300	453	296
4	529	1550	1300	660	620	570	2760	2480	1670	1220	453	289
5	602	1400	1100	850	630	580	2820	2220	1600	1150	517	278
6	708	1220	1090	1000	670	580	2540	2010	1640	1010	517	278
7	726	1140	1070	950	700	590	2330	1790	1660	639	570	274
8	715	1150	1050	900	730	600	2200	1610	1590	444	560	271
9	696	1110	1040	865	760	600	2040	1550	1500	410	580	274
10	685	1060	1030	830	820	600	1920	1440	1410	330	604	267
11	670	1030	985	810	820	600	1830	1210	1250	311	811	267
12	655	989	832	790	800	600	1840	1170	961	307	766	267
13	640	889	806	775	775	620	1850	1130	936	307	706	267
14	624	681	804	755	755	640	1900	1100	942	300	462	260
15	622	674	813	740	730	665	2010	1040	722	292	436	264
16	609	688	950	730	720	690	2150	999	675	292	423	267
17	594	853	969	720	700	720	2570	961	685	274	410	267
18	594	1000	933	700	690	750	3410	869	575	267	394	330
19	754	1310	806	690	670	790	3940	863	503	264	315	330
20	454	1290	850	680	655	820	4210	517	489	307	303	326
21	372	1560	925	670	635	870	4340	536	475	374	307	342
22	298	1720	880	655	620	890	4320	517	440	440	300	342
23	342	1580	770	645	600	930	4090	498	480	315	300	342
24	1260	1510	740	640	590	990	3790	512	484	281	300	342
25	1410	1380	695	635	580	1050	3570	644	498	274	300	334
26	1630	1070	670	630	570	1100	3430	609	664	271	300	330
27	1990	1070	645	620	560	1200	3670	484	649	264	292	346
28	2880	1360	625	620	560	1280	4020	466	624	307	289	458
29	3290	1350	600	620	---	1380	4040	475	722	453	285	449
30	2970	1230	600	610	---	1440	3730	570	1480	358	281	440
31	2640	---	590	600	---	1540	---	701	---	311	278	---
TOTAL	32228	37994	27905	22115	18770	25365	87850	38091	29394	15972	13164	9367
MEAN	1040	1266	897	713	670	818	2928	1229	980	515	425	312
MAX	3290	2350	1440	1000	820	1540	4340	3360	2020	1520	811	458
MIN	298	674	590	570	560	560	1830	466	440	264	278	260
CAL YR 1981 TOTAL	313190		MEAN 858	MAX 4870	MIN 225							
WTR YR 1982 TOTAL	358115		MEAN 981	MAX 4340	MIN 260							

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.--1,293 mi² (3,349 km²).

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--June 1916 to current year.

REVISED RECORDS.--WSP 1301: 1917-18(M), 1936(M). WDR ME-81-1: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 263.48 ft (80.309 m) National Geodetic Vertical Datum of 1929. Prior to Oct. 30, 1919, nonrecording gage on bridge downstream at different datum.

REMARKS.--Records good except those for winter period, which are fair. Flow partly regulated by powerplants above station and by Ossipee, Silver, Conway, and Kezar Lakes, and Moose, Hancock, Pine River, Bickford, and Colcord Ponds, combined capacity, 3,400,000,000 ft³ (96,000,000 m³).

AVERAGE DISCHARGE.--66 years, 2,705 ft³/s (76.61 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, 244 ft³/s (6.91 m³/s) Oct. 7, 1964.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 15,900 ft³/s (450 m³/s) Apr. 29, gage height, 10.74 ft (3.274 m); minimum daily, 609 ft³/s (17.2 m³/s) Sept. 14.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	3330	7390	2950	1990	1550	1620	5640	13800	2230	3230	1110	888
2	3090	6820	3320	1990	1550	1620	6120	12200	3540	3010	1110	901
3	2810	6010	3570	1940	1550	1600	6170	10800	4320	2850	1240	858
4	2660	5430	3390	1930	1600	1600	7270	9840	4140	2650	1250	814
5	2450	4960	3160	2050	1650	1580	7150	8960	4180	2540	1330	804
6	2500	4510	3100	2150	1820	1580	6760	8140	4340	2300	1330	808
7	2470	4260	3020	2350	2000	1580	6010	7370	4440	1830	1370	802
8	2380	4100	2950	2500	2150	1590	5570	6710	4360	1620	1340	797
9	2290	3880	2880	2400	2200	1600	5560	6350	4140	1500	1400	773
10	2220	3710	2780	2300	2220	1640	5480	6190	3830	1350	1570	701
11	2150	3540	2710	2200	2210	1680	5280	5810	3530	1260	1950	620
12	2030	3270	2510	2150	2200	1700	5350	5570	3060	1180	1900	619
13	1820	3110	2420	2050	2150	1740	5310	5270	2870	1130	1840	619
14	1900	2790	2310	1950	2100	1820	5440	4860	2670	1080	1630	609
15	1770	2680	2330	1900	2080	1890	5540	4560	2500	980	1820	617
16	1760	2630	2450	1900	2020	1950	5600	4220	2230	884	1460	617
17	1710	2940	2430	1850	2000	2030	6280	3980	2240	871	1340	689
18	1680	3180	2340	1800	1960	2120	7900	3710	2100	865	1230	805
19	2010	3620	2160	1750	1900	2250	8960	3490	1970	853	1090	807
20	1970	3710	2160	1750	1870	2400	10200	3100	1910	896	1030	801
21	2050	4230	2160	1700	1820	2500	11700	2950	1800	1090	967	780
22	1960	4500	1970	1700	1800	2650	12700	2900	1760	1210	915	696
23	2110	4370	1870	1650	1780	2800	13100	2780	1800	1080	890	727
24	3920	4240	1760	1600	1730	3000	12800	2650	1830	986	903	775
25	4150	4020	1750	1600	1710	3250	12100	2600	1900	941	915	815
26	4540	3610	1860	1600	1700	3450	11500	2420	2020	903	915	806
27	5500	3500	1840	1550	1680	3650	12100	2220	1980	872	960	822
28	7090	3640	1910	1550	1650	3850	13700	2050	1870	909	763	954
29	7720	3560	1880	1550	---	4090	15600	2000	1950	1090	934	940
30	7810	3360	2040	1550	---	4400	15400	2100	2990	1030	890	1050
31	7760	---	2120	1550	---	4730	---	2200	---	1050	887	---
TOTAL	99610	121570	76100	58500	52650	73960	258290	161800	84500	44040	38279	23314
MEAN	3213	4052	2455	1887	1880	2386	8610	5219	2817	1421	1235	777
MAX	7810	7390	3570	2500	2220	4730	15600	13800	4440	3230	1950	1050
MIN	1680	2630	1750	1550	1550	1580	5280	2000	1760	853	763	609
CAL YR 1981	TOTAL	1013972	MEAN	2778	MAX	17300	MIN	700				
WTR YR 1982	TOTAL	1092613	MEAN	2993	MAX	15600	MIN	609				

01066000 SACO RIVER AT CORNISH, ME--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 1954, 1975 to current year.

PERIOD OF DAILY RECORD.--

SPECIFIC CONDUCTANCE: July 1975 to September 1981.

WATER TEMPERATURES: July 1975 to September 1981.

INSTRUMENTATION.--Water-quality monitor July 1975 to September 1981.

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.

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982

DATE	TIME	STREAM- FLOW, INSTAN- TANFOUS (CFS)	SPE- CIFIC CON- DUCT- ANCE (UMHOS)	SPE- CIFIC CON- DUCT- ANCE LAB (UMHOS)	PH (UNITS)	TEMPER- ATURE, AIR (DEG C)	TEMPER- ATURE, WATER (DEG C)	TUR- BID- ITY (FTU)	OXYGEN, DIS- SOLVED (MG/L)	COLI- FORM, FECAL, 0.7 UM-MF (COLS./ 100 ML)	STREP- TOCOCCI FECAL, KF AGAR (COLS. PER 100 ML)
OCT 29...	1045	7690	30	22	6.2	9.0	8.5	2.0	12.4	45	38
DEC 22...	1130	2110	38	31	6.5	-1.0	.0	.80	13.4	K2	<1
FEB 23...	1600	1780	38	35	6.3	3.0	.0	2.5	13.9	K5	K100
APR 19...	1130	10000	28	23	6.4	12.0	3.5	3.6	13.8	K4	25
JUN 22...	1015	1760	38	37	6.5	19.5	18.0	1.0	9.1	K19	>200
AUG 31...	1330	884	37	20	6.6	21.0	19.0	<1.0	9.2	21	>100

DATE	HARD- NESS (MG/L AS CACO3)	HARD- NESS NONCAR- BONATE (MG/L AS CACO3)	CALCIUM DIS- SOLVED (MG/L AS CA)	MAGNE- SIUM, DIS- SOLVED (MG/L AS MG)	SODIUM, DIS- SOLVED (MG/L AS NA)	POTAS- SIUM, DIS- SOLVED (MG/L AS K)	ALKA- LITY LAR (MG/L AS CACO3)	SULFATE DIS- SOLVED (MG/L AS SO4)	CHLO- RIDE, DIS- SOLVED (MG/L AS CL)	FLUO- RIDE, DIS- SOLVED (MG/L AS F)	SILICA, DIS- SOLVED (MG/L AS SiO2)
OCT 29...	7	2.0	2.2	.5	2.4	.4	5.0	5.4	3.1	.3	6.4
DEC 22...	9	5.0	2.6	.5	3.1	.5	4.0	4.9	3.5	.3	6.8
FEB 23...	10	7.0	2.7	.7	3.1	.5	3.0	4.5	4.1	.3	7.5
APR 19...	6	1.0	1.9	.3	2.3	.3	5.0	3.0	2.5	.2	5.2
JUN 22...	8	.00	2.6	.5	3.3	.4	8.0	9.0	3.7	.3	6.0
AUG 31...	2	.00	.1	.4	3.2	.3	7.0	4.0	3.8	.3	5.0

K RESULTS BASED ON COLONY COUNT OUTSIDE THE ACCEPTABLE RANGE (NON-IDEAL COLONY COUNT).

SACO RIVER BASIN

01066000 SACO RIVER AT CORNISH, ME--Continued

CHEMICAL ANALYSIS, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982

DATE	SOLIDS, RESIDUE AT 180 DEG. C DIS- SOLVED (MG/L)	SOLIDS, SUM OF CONSTITUENTS, DIS- SOLVED (MG/L)	SOLIDS, DIS- SOLVED (TONS PER AC-FT)	SOLIDS, DIS- SOLVED (TONS PER DAY)	NITRO- GEN, NO2+NO3 DIS- SOLVED (MG/L AS N)	NITRO- GEN, AMMONIA DIS- SOLVED (MG/L AS N)	NITRO- GEN, AMMONIA DIS- SOLVED (MG/L AS NH4)	NITRO- GEN,AM- MONIA + ORGANIC TOTAL (MG/L AS N)	PHOS- PHORUS, TOTAL (MG/L AS P)	PHOS- PHORUS, TOTAL (MG/L AS P04)	PHOS- PHORUS, DIS- SOLVED (MG/L AS P)
OCT 29...	68	24	.09	1410	.10	.020	.03	.62	.020	.06	.020
DEC 22...	33	25	.04	188	.15	.030	.04	.39	<.010	--	<.010
FEB 23...	26	25	.04	125	.21	.060	.08	.13	<.010	--	<.010
APR 19...	28	19	.04	756	.10	.040	.05	.24	.030	.09	<.010
JUN 22...	39	31	.05	185	.12	.040	.05	.40	<.010	--	.020
AUG 31...	34	24	.05	81.2	<.10	.010	.01	.10	.010	.03	<.010

DATE	PHOS- PHORUS, ORTHO, DIS- SOLVED (MG/L AS P)	ARSENIC TOTAL (UG/L AS AS)	ARSENIC DIS- SOLVED (UG/L AS AS)	BARIUM, TOTAL RECOV- ERABLE (UG/L AS BA)	BARIUM, DIS- SOLVED (UG/L AS BA)	CADMIUM TOTAL RECOV- ERABLE (UG/L AS CD)	CADMIUM DIS- SOLVED (UG/L AS CD)	CHRO- MIUM, TOTAL RECOV- ERABLE (UG/L AS CR)	CHRO- MIUM, DIS- SOLVED (UG/L AS CR)	COBALT, TOTAL RECOV- ERABLE (UG/L AS CO)	COBALT, DIS- SOLVED (UG/L AS CO)
OCT 29...	<.010	1	0	100	8	<1	3	10	<10	2	<1
DEC 22...	<.010	--	--	--	--	--	--	--	--	--	--
FEB 23...	<.010	1	<1	<100	8	1	3	10	<10	1	<1
APR 19...	<.010	1	1	<100	11	<1	<1	20	10	<1	<1
JUN 22...	<.010	--	--	--	--	--	--	--	--	--	--
AUG 31...	<.010	1	<1	<100	<100	3	1	10	10	<1	<1

DATE	COPPER, TOTAL 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, DIS- SOLVED (UG/L AS PB)	MANGA- NESE, TOTAL RECOV- ERABLE (UG/L AS MN)	MANGA- NESE, DIS- SOLVED (UG/L AS MN)	MERCURY TOTAL RECOV- ERABLE (UG/L AS HG)	MERCURY DIS- SOLVED (UG/L AS HG)	NICKEL, TOTAL RECOV- ERABLE (UG/L AS NI)
OCT 29...	7	2	470	120	5	1	60	24	<.1	<.1	2
DEC 22...	--	--	--	--	--	--	--	--	--	--	--
FEB 23...	5	2	680	170	9	2	50	23	.2	.1	2
APR 19...	13	6	670	61	10	<1	40	17	<.1	<.1	4
JUN 22...	--	--	--	--	--	--	--	--	--	--	--
AUG 31...	3	2	270	90	6	1	10	10	.1	<.1	2

DATE	NICKEL, DIS- SOLVED (UG/L AS NI)	SELE- NIUM, TOTAL (UG/L AS SE)	SELE- NIUM, DIS- SOLVED (UG/L AS SE)	SILVER, TOTAL RECOV- ERABLE (UG/L AS AG)	SILVER, DIS- SOLVED (UG/L AS AG)	ZINC, TOTAL RECOV- ERABLE (UG/L AS ZN)	ZINC, DIS- SOLVED (UG/L AS ZN)	SEDI- MENT, SUS- PENDED (MG/L)	SEDI- MENT, CHARGE, SUS- PENDED (T/DAY)	SEN- SUSP. SIEVE DIAM. % FINER THAN .062 MM
OCT 29...	<1	<1	<1	<1	<1	50	6	13	270	100
DEC 22...	--	--	--	--	--	--	--	2	11	60
FEB 23...	<1	<1	<1	<1	<1	30	18	18	87	64
APR 19...	3	<1	<1	<1	<1	10	8	61	1650	49
JUN 22...	--	--	--	--	--	--	--	18	86	26
AUG 31...	1	<1	<1	<1	<1	20	10	1	2.4	100

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	165	555	281	247	210	225	620	563	239	399	213	76
2	152	452	350	260	215	210	780	500	487	421	212	54
3	144	372	503	250	220	205	1000	449	1210	360	225	116
4	129	335	529	261	230	190	1310	367	1110	308	205	181
5	127	311	472	350	240	180	1370	282	803	279	146	42
6	185	301	449	516	250	170	1180	277	699	216	151	36
7	236	307	427	462	260	155	849	282	705	226	174	78
8	207	314	398	420	270	155	771	281	693	213	182	221
9	184	305	383	400	285	165	746	281	593	200	189	204
10	166	290	362	375	300	170	719	274	473	170	213	35
11	153	277	335	360	295	175	698	242	396	156	289	30
12	143	265	315	340	290	185	734	169	342	147	290	29
13	140	254	293	325	290	190	787	187	297	105	255	27
14	152	242	281	315	275	195	787	190	299	59	239	11
15	171	232	291	300	270	210	888	184	310	58	235	8.6
16	190	268	320	290	265	220	924	182	306	57	165	7.3
17	194	363	337	280	255	235	1020	144	331	56	97	34
18	207	377	346	270	250	245	1280	74	399	55	156	191
19	282	400	340	260	250	255	1450	57	403	80	155	178
20	342	414	304	250	250	270	1340	101	369	84	155	139
21	355	467	270	245	265	285	1150	147	321	19	147	31
22	327	506	264	235	254	300	1030	170	305	52	137	28
23	292	495	281	230	249	320	892	172	288	181	128	27
24	356	446	289	225	244	340	768	174	273	204	85	62
25	477	411	279	220	219	355	657	175	262	180	37	178
26	516	394	265	210	179	395	576	175	251	177	33	178
27	572	333	262	205	240	425	631	173	240	175	31	62
28	700	315	263	200	230	455	750	172	233	167	30	31
29	789	311	262	200	---	485	738	175	232	151	30	27
30	759	296	255	200	---	510	650	193	306	212	30	19
31	659	---	250	205	---	560	---	250	---	212	30	---
TOTAL	9471	10608	10256	8906	7040	8435	27095	7062	13175	5379	4664	2340.9
MEAN	306	354	331	287	251	272	903	228	439	174	150	78.0
MAX	789	555	529	516	300	560	1450	563	1210	421	290	221
MIN	127	232	250	200	179	155	576	57	232	19	30	7.3
CAL YR 1981	TOTAL	92014.0	MEAN	252	MAX	2120	MIN	35				
WTR YR 1982	TOTAL	114431.9	MEAN	314	MAX	1450	MIN	7.3				

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.--99.0 mi² (256.4 km²), revised.

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.--43 years, 180 ft³/s (5.098 m³/s).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 3,540 ft³/s (100 m³/s) Mar. 14, 1977, gage height, 5.82 ft (1.774 m); minimum daily, 0.40 ft³/s (0.011 m³/s) Nov. 10, 15, 16, 1964.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 1,110 ft³/s (31.4 m³/s) June 3, gage height, 3.06 ft (0.933 m); minimum daily, 6.2 ft³/s (0.176 m³/s) Sept. 1.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	85	264	180	175	172	168	722	390	177	187	186	6.2
2	65	252	284	177	171	168	843	358	561	185	184	97
3	74	237	394	177	170	168	766	273	916	133	161	110
4	79	230	324	188	168	168	915	243	626	192	144	11
5	65	196	284	408	170	168	784	230	557	199	105	11
6	52	180	288	398	179	171	629	222	554	198	242	11
7	101	131	241	350	185	172	503	215	637	146	220	120
8	91	174	230	294	187	171	521	211	651	191	297	87
9	98	187	230	262	188	173	503	215	536	78	179	122
10	113	177	216	242	194	174	478	296	426	29	484	106
11	113	125	210	225	197	174	447	262	300	30	592	10
12	153	144	203	233	195	183	468	229	253	108	476	11
13	98	174	200	223	189	188	503	213	228	99	437	118
14	72	171	206	228	187	190	484	205	249	114	375	110
15	139	162	220	222	187	190	508	201	254	184	337	11
16	150	136	234	215	187	191	514	201	233	124	241	11
17	74	180	300	216	186	193	547	196	234	29	159	11
18	12	264	249	204	184	194	649	193	262	30	103	11
19	193	288	227	202	176	222	591	193	253	18	91	11
20	180	256	203	199	79	335	565	192	254	12	84	116
21	177	288	193	195	104	387	532	66	213	12	78	94
22	168	296	206	192	171	410	463	17	199	12	67	45
23	105	260	215	190	171	398	414	66	180	12	65	69
24	230	230	214	190	171	378	385	204	150	12	70	61
25	288	210	196	190	170	413	366	208	188	43	80	69
26	260	200	180	189	168	528	352	233	186	93	136	76
27	324	174	177	180	168	639	480	222	185	76	185	68
28	412	200	177	174	168	473	501	187	190	97	182	129
29	375	193	177	174	---	404	474	174	190	195	131	138
30	316	184	129	174	---	385	436	177	189	210	123	175
31	284	---	174	174	---	422	---	177	---	189	102	---
TOTAL	4946	6163	6961	6860	4842	8598	16343	6469	10031	3237	6316	2025.2
MEAN	160	205	225	221	173	277	545	209	334	104	204	67.5
MAX	412	296	394	408	197	639	915	390	916	210	592	175
MIN	12	125	129	174	79	168	352	17	150	12	65	6.2
†	363	352	340	317	317	401	502	501	518	485	468	432

CAL YR 1981 TOTAL 57340.2 MEAN 157 MAX 1520 MIN 7.1
WTR YR 1982 TOTAL 82791.2 MEAN 227 MAX 916 MIN 6.2

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

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, except those for doubtful gage-height record Apr. 15 to May 31, which are fair. Flow regulated by Great East and Lovell Lakes and Horn, Wilson, and Milton (also controls Northeast and Town House) Ponds, combined usable capacity, 1,280,000,000 ft³ (36,250,000 m³). Several observations of water temperature and specific conductance were made during the year.

AVERAGE DISCHARGE.--14 years, 198 ft³/s (5.607 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, 798 ft³/s (22.6 m³/s) Apr. 19, gage height, 4.59 ft (1.399 m); from telemark, minimum daily, 47 ft³/s (1.33 m³/s) July 19-20.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	281	373	139	158	181	161	443	269	151	310	109	53
2	219	242	150	158	182	161	541	285	362	222	125	53
3	173	140	285	158	235	158	562	232	649	153	140	53
4	173	155	356	158	500	119	562	170	624	144	156	52
5	167	165	349	174	297	86	619	150	498	131	190	49
6	161	181	333	198	289	88	603	114	696	118	182	49
7	161	217	308	221	285	88	485	126	591	106	221	66
8	161	219	285	224	281	88	404	129	502	97	200	78
9	161	221	277	232	273	88	378	134	513	86	193	72
10	161	209	261	235	257	88	384	164	468	79	380	71
11	160	194	254	232	246	88	384	269	322	73	506	66
12	158	194	237	208	239	91	385	293	230	71	406	65
13	158	192	218	198	228	150	389	206	232	67	297	64
14	155	178	212	194	218	150	399	156	180	64	220	64
15	118	176	211	191	207	172	399	161	156	61	193	65
16	84	158	211	188	198	218	438	164	173	53	175	67
17	84	142	211	185	240	228	525	150	185	49	164	72
18	84	161	211	182	269	239	656	131	264	48	145	74
19	92	269	211	179	235	254	775	101	326	47	124	75
20	102	324	211	173	218	265	767	90	298	47	108	75
21	102	301	197	167	198	273	692	124	206	48	86	83
22	102	305	194	158	188	318	642	126	163	52	85	90
23	106	313	194	159	191	326	423	129	156	56	84	93
24	109	343	179	160	191	325	330	129	152	57	84	95
25	131	315	173	174	173	330	343	129	128	58	84	96
26	239	282	173	180	164	341	352	129	103	59	82	98
27	309	265	173	164	161	373	380	129	107	57	82	105
28	402	258	173	148	161	394	444	129	99	59	82	109
29	515	249	173	160	---	399	470	129	94	94	82	119
30	492	188	169	178	---	388	400	129	212	112	67	113
31	423	---	158	162	---	384	---	129	---	112	53	---
TOTAL	5943	6929	6886	5656	6305	6831	14574	4905	8840	2790	5105	2284
MEAN	192	231	222	182	225	220	486	158	295	90.0	165	76.1
MAX	515	373	356	235	300	399	775	293	696	310	506	119
MIN	84	140	139	148	161	86	330	90	94	47	53	49
CAL YR 1981	TOTAL	60400	MEAN 165	MAX 1180	MIN 47							
WTR YR 1982	TOTAL	77048	MEAN 211	MAX 775	MIN 47							

DISCHARGE MEASUREMENTS MADE AT MISCELLANEOUS SITES DURING WATER YEAR 1982

Stream	Tributary to	Location	Drainage area (mi ²)	Measured previously (water years)	Measurements	
					Date	Discharge (ft ³ /s)
PENOBSCOT RIVER BASIN						
Pine Island Brook	Pleasant River	Lat 44°41'50", long 67°49'39", Washington County, at a point 50 ft (15 m) upstream from mouth near southeastern tip of Pine Island, in Columbia.	--	1981	05-08-82 06-16-82 08-18-82	0.54 .39 .25
Unnamed Tributary	Pleasant River	Lat 44°41'52", long 60°49'22", Washington County, at a point approximately 30 ft (9 m) upstream from the mouth and about 0.2 mi (0.3 km) downstream from Pine Island Brook.	--	1981	08-18-82	.01
Unnamed Tributary	Pleasant River	Lat 44°41'49", long 67°49'17", Washington County, at a point approximately 20 ft (6 m) upstream from the mouth and about 0.35 mi (.56 km) downstream from Pine Island Brook.	--	1981	06-16-82 08-18-82	.16 .11
Unnamed Tributary	Pleasant River	Lat 44°42'10", long 67°47'49", Washington County, at a point approximately 30 ft (9 m) upstream from the mouth and about 0.5 mi (0.8 km) upstream from Pleasant River gage near Epping.	--	1981	06-17-82 08-19-82	.02 .01
Unnamed Tributary	Pleasant River	Lat 44°42'09", long 67°47'57", Washington County, at a point approximately 50 ft (15 m) upstream from mouth and about 0.55 mi (0.88 km) upstream from the Pleasant River gage near Epping.	--	1981	06-17-82 08-19-82	.14 .11
Unnamed Tributary	Pleasant River	Lat 44°41'59", long 67°49'07", Washington County, at a point approximately 20 ft (6 m) upstream from the mouth and about 0.7 mi (1.1 km) upstream from the Pleasant River gage near Epping.	--	1981	06-17-82 08-19-82	.03 .01
Dogpit Brook	Pleasant River	Lat 44°43'47", long 67°48'40", Washington County, at a point 0.7 mi (1.1 km) upstream of the mouth and 3.3 mi (5.3 km) northwest of Epping.	--	1980-81	05-19-82 07-14-82	.65 .84
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.	--	1979	08-18-82	37.6
KENNEBEC RIVER BASIN						
West Outlet Stream	Kennebec River	Lat 45°39'36", long 69°44'43", Somerset County, just downstream from West Outlet dam at Moosehead Lake near Rockwood.	--	many	04-23-82 07-01-82 08-20-82	45.1 45.3 34.7
Austin Stream	Kennebec River	Lat 45°03'25", long 69°53'10", Somerset County, at mouth, at Bingham.	90.3	many	06-15-82	57.8
ANDROSCOGGIN RIVER BASIN						
Swift River	Androscoggin River	Lat 44°33'17", long 70°32'43", Oxford County, downstream side of U.S. Route 2 bridge at Rumford.	125	many	04-22-82	1210
Webb River	Androscoggin River	Lat 44°35'55", long 70°28'20", Oxford County, just west of private road 0.4 mi (0.6 km) upstream of the falls near Dixfield.	116	1980-81	08-03-82 08-04-82 08-05-82	30.2 25.7 49.0
Dead River	Androscoggin River	Lat 44°20'54", long 70°04'06", 10 ft (3 m) downstream from the dam of outlet of Pocasset Lake at Wayne.	59.0	1981	08-03-82 08-04-82 08-05-82	15.2 13.8 17.3

WATER QUALITY DATA, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982

DATE	TIME	STRFAM- FLOW. INSTAN- TANEOUS (CFS)	TEMPER- ATURE (DEG C)	TEMPER- ATURE, AIR (DEG C)	SPF- CIFIC CON- DUCT- ANCE (UMHOS)	DATE	TIME	STRFAM- FLOW. INSTAN- TANEOUS (CFS)	TEMPER- ATURE (DEG C)	TEMPER- ATURE, AIR (DEG C)	SPF- CIFIC CON- DUCT- ANCE (UMHOS)
01010000 - ST. JOHN RIVER AT NINEMILE BRIDGE, ME (LAT 46 42 00 LONG 069 42 59)											
OCT. 1981						MAY. 1982					
01...	1600	5150	7.0	13.0	33	19...	0915	3520	9.5	13.5	27
FER. 1982						JUL					
16...	1345	408	.0	-4.5	67	29...	1430	239	19.0	17.0	66
01010500 - ST. JOHN RIVER AT DICKEY, ME (LAT 47 06 44 LONG 069 05 25)											
FER. 1982						JUN. 1982					
11...	1030	745	.0	-15.0	78	08...	1145	1840	20.0	24.0	54
MAR						JUL					
30...	1000	2880	.0	11.0	76	28...	1730	439	21.0	20.0	78
MAY											
05...	1030	29600	8.0	4.0	31						
01011000 - ALLAGASH RIVER NEAR ALLAGASH, ME (LAT 47 04 14 LONG 069 04 51)											
FER. 1982						JUN. 1982					
10...	1730	669	.0	-3.0	66	08...	0745	1290	17.0	16.0	46
MAR						JUL					
30...	1300	945	.0	12.0	65	28...	1400	528	22.0	21.0	55
MAY											
05...	1115	11900	4.0	8.0	39						
01013500 - FISH RIVER NEAR FORT KENT, ME (LAT 47 14 14 LONG 068 34 56)											
MAR. 1982						JUN. 1982					
31...	0900	611	.0	3.0	80	08...	1345	1180	17.0	24.0	60
MAY						JUL					
05...	1645	8060	5.0	8.0	58	28...	1110	293	19.5	20.5	68
01014000 - ST. JOHN RIVER BELOW FISH R. AT FORT KENT, ME (LAT 47 15 27 LONG 068 35 35)											
MAR. 1982						JUL. 1982					
30...	1930	4910	.0	8.0	70	28...	1400	1680	23.5	22.0	75
JUN											
08...	1600	5480	19.0	24.0	65						
01015800 - AROOSTOOK RIVER NEAR MASARDIS, ME (LAT 46 31 21 LONG 068 22 23)											
FER. 1982						JUN. 1982					
11...	1730	321	.0	-7.0	53	07...	1055	785	18.0	21.0	51
APR						JUL					
01...	1115	1090	.0	5.0	48	26...	1115	124	22.0	24.0	65
MAY											
04...	1030	8590	4.5	8.0	35						
01016500 - MACHIAS RIVER NEAR ASHLAND, ME (LAT 46 37 42 LONG 068 26 07)											
MAR. 1982						JUN. 1982					
31...	1630	327	.0	4.5	58	07...	1245	199	19.0	23.0	55
MAY						JUL					
04...	1100	2770	4.5	8.0	34	26...	1440	33	21.0	22.0	76
01017000 - AROOSTOOK RIVER AT WASHBURN, ME (LAT 46 46 36 LONG 068 09 29)											
FER. 1982						JUN. 1982					
09...	1530	1100	.0	-6.0	166	07...	1810	1250	21.0	25.0	88
MAR						JUL					
29...	1600	1460	.0	2.0	60	27...	1050	174	21.0	21.0	92
MAY											
06...	1030	14000	8.0	8.0	196						
01017900 - MARLEY BROOK NEAR LUDLOW, ME (LAT 46 08 42 LONG 068 03 42)											
FER. 1982						JUN. 1982					
09...	1030	.76	.0	-7.0	85	09...	1230	.26	14.0	22.0	106
MAR						JUL					
29...	1045	4.0	.0	1.5	71	30...	1330	.31	16.5	23.0	119
MAY											
06...	1515	3.8	8.5	13.0	63						

WATER QUALITY DATA, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982

DATE	TIME	STREAM- FLOW, INSTAN- TANEOUS (CFS)	TEMPER- ATURE (DEG C)	TEMPER- ATURE, AIR (DEG C)	SPECIFIC CON- DUCT- ANCE (UMHOS)	DATE	TIME	STREAM- FLOW, INSTAN- TANEOUS (CFS)	TEMPER- ATURE (DEG C)	TEMPER- ATURE, AIR (DEG C)	SPECIFIC CON- DUCT- ANCE (UMHOS)
01018000 - MEDUXNEKEAG RIVER NEAR HOULTON, ME (LAT 46 06 17 LONG 067 52 00)											
FEB , 1982						JUN , 1982					
09...	1115	191	.0	-5.0	120	09...	0945	75	18.0	19.0	134
MAR						JUL					
29...	1135	470	.0	2.0	135	30...	0815	71	19.0	18.0	160
MAY											
06...	1400	636	10.5	13.0	92						
01018500 - ST. CROIX RIVER AT VANCEBORO, ME (LAT 45 34 08 LONG 067 25 47)											
DEC , 1981						JUN , 1982					
16...	1300	1810	7.5	3.0	29	16...	1200	798	17.0	13.0	26
MAR , 1982						AUG					
03...	1130	690	1.0	-2.0	31	17...	1145	654	22.0	27.0	27
APR											
27...	1630	1230	5.0	12.5	25						
01019000 - GRAND LAKE STREAM AT GRAND LAKE STREAM, ME (LAT 45 10 23 LONG 067 46 06)											
OCT , 1981						APR , 1982					
22...	1000	150	11.0	13.0	26	29...	0830	1460	4.5	7.0	24
DEC						JUN					
15...	1230	1150	3.5	-1.0	24	16...	1500	364	16.0	18.0	25
MAR , 1982						AUG					
03...	1415	580	1.0	-2.0	21	17...	1630	502	22.0	19.5	24
01020000 - ST. CROIX RIVER NEAR BAILEYVILLE, ME (LAT 45 15 55 LONG 067 28 36)											
DEC , 1981						JUN , 1982					
15...	1600	5530	2.0	2.0	25	16...	1645	1600	17.0	21.0	29
MAR , 1982						AUG					
03...	1530	3020	1.0	-2.0	29	17...	1830	1840	21.0	22.0	29
APR											
28...	1600	8700	7.5	5.5	23						
01021000 - ST. CROIX RIVER AT BARING, ME (LAT 45 08 12 LONG 067 19 05)											
APR , 1982						AUG , 1982					
28...	1200	8500	8.0	5.0	53	18...	1000	1760	22.0	25.0	135
JUN											
17...	1000	1680	17.5	17.0	147						
01021200 - DENNY'S RIVER AT DENNYVILLE, ME (LAT 44 54 03 LONG 067 14 56)											
MAR , 1982						JUN , 1982					
04...	1300	134	1.0	-4.0	34	17...	1500	138	16.5	17.0	34
APR						AUG					
29...	1220	753	6.0	10.0	26	18...	1630	64	22.0	22.5	36
01022250 - TAYLOR BROOK AT THE GREAT HEATH (SW SITE 3) (LAT 44 42 51 LONG 067 51 16)											
OCT , 1981						MAY , 1982					
20...	1415	26	9.0	10.5	20	18...	1145	8.9	13.0	15.5	18
APR , 1982						JUN					
19...	1645	67	7.0	5.5	18	15...	1350	6.0	18.0	23.0	21
20...	1445	44	7.0	16.5	18	JUL					
30...	1055	39	6.0	9.0	14	13...	1245	2.6	17.0	22.5	20
MAY											
12...	1450	11	13.0	15.0	16						
01022260 - PLEASANT RIVER NEAR EPPING, ME (SW SITE 13) (LAT 44 41 52 LONG 067 47 16)											
OCT , 1981						MAY , 1982					
21...	1310	157	10.0	20.0	30	19...	1525	89	15.0	14.0	24
21...	1410	156	10.0	20.0	--	JUN					
JAN , 1982						15...	1610	77	16.0	22.0	24
25...	1420	104	.0	-14.0	24	JUL					
APR						14...	1450	33	20.0	23.0	30
20...	1720	497	10.0	8.0	18	AUG					
21...	1015	493	9.5	9.5	18	03...	1735	54	19.0	23.0	30
29...	1550	428	9.0	12.0	13	18...	1510	48	22.0	25.5	30

WATER QUALITY DATA, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982

DATE	TIME	STREAM- FLOW. INSTAN- TANEOUS (CFS)	TEMPER- ATURE (DEG C)	TEMPER- ATURE, AIR (DEG C)	SPE- CIFIC CON- DUCT- ANCE (UMHOS)	DATE	TIME	STREAM- FLOW. INSTAN- TANEOUS (CFS)	TEMPER- ATURE (DEG C)	TEMPER- ATURE, AIR (DEG C)	SPE- CIFIC CON- DUCT- ANCE (UMHOS)
01024200 - GARLAND BROOK NEAR MARIAVILLE, ME (LAT 44 43 17 LONG 068 24 40)											
DEC . 1981						JUN . 1982					
14...	1200	24	.5	1.5	25	18...	1300	7.9	18.5	23.5	34
MAP . 1982						AUG					
04...	1900	63	.0	-2.0	33	19...	1330	1.7	20.0	22.0	47
APR											
30...	0930	36	6.0	5.0	23						
01029500 - EAST BRANCH PENOBSCOT RIVER AT GRINDSTONE, ME (LAT 45 43 49 LONG 068 35 22)											
DEC . 1981						JUN . 1982					
17...	0745	1920	.0	-4.5	35	29...	1000	833	18.0	18.0	34
FEB . 1982						AUG					
18...	0845	1270	.0	-10.5	42	17...	1445	392	22.5	19.0	38
APR											
19...	1720	8330	.0	10.0	28						
01030000 - PENOBSCOT RIVER NEAR MATTAWAMKEAG, ME (LAT 45 34 01 LONG 068 24 10)											
DEC . 1981						JUN . 1982					
16...	1515	6230	.0	1.0	42	28...	1915	3980	18.0	20.0	41
FEB . 1982						AUG					
18...	1115	8080	.5	-4.5	42	17...	1230	3330	22.0	23.5	47
APR											
19...	1830	14900	2.0	3.5	34						
01030500 - MATTAWAMKEAG RIVER NEAR MATTAWAMKEAG, ME (LAT 45 30 18 LONG 068 18 07)											
DEC . 1981						JUN . 1982					
16...	1330	3660	.0	1.0	41	29...	1745	346	18.0	18.0	57
FEB . 1982						AUG					
18...	1400	1520	.5	-4.0	58	18...	0900	300	21.0	17.0	67
APR											
20...	1215	14500	3.0	12.5	35						
01031500 - PISCATAQUIS RIVER NEAR DOVER-FOXCROFT, ME (LAT 45 10 31 LONG 069 18 55)											
DEC . 1981						JUN . 1982					
17...	1345	402	.0	-1.0	44	30...	1745	704	18.0	16.0	38
FEB . 1982						AUG					
16...	1730	209	.0	-2.0	52	19...	1015	29	21.5	20.5	63
APR											
22...	1215	4300	2.5	7.5	33						
01033000 - SEBEC RIVER AT SEBEC, ME (LAT 45 16 12 LONG 069 06 44)											
DEC . 1981						JUN . 1982					
17...	1230	581	.5	-2.0	29	30...	1315	285	20.0	20.0	26
FEB . 1982						AUG					
17...	0910	477	.5	-4.5	30	19...	0815	47	22.5	18.5	27
APR											
21...	1845	3600	1.5	2.5	28						
01034000 - PISCATAQUIS RIVER AT MEDFORD, ME (LAT 45 15 40 LONG 068 52 07)											
DEC . 1981						JUN . 1982					
17...	1115	2010	.0	-2.5	37	30...	1200	1200	21.0	18.0	36
FEB . 1982						AUG					
17...	1215	1250	.0	-4.0	41	18...	1545	289	24.5	23.5	41
APR											
21...	1445	14200	3.5	7.5	26						
01034500 - PENOBSCOT RIVER AT WEST ENFIELD, ME (LAT 45 14 12 LONG 068 38 56)											
DEC . 1981						JUN . 1982					
16...	1130	14400	.0	2.5	56	28...	1045	4040	20.5	21.0	60
FEB . 1982						AUG					
17...	1745	8660	.0	-5.0	91	17...	1115	4290	23.5	25.0	60
APR											
19...	1030	48900	3.5	8.0	43						

MISCELLANEOUS TEMPERATURE AND SPECIFIC CONDUCTANCE DETERMINATIONS.--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982

DATE	TIME	STREAM- FLOW, INSTAN- TANEOUS (CFS)	TEMPER- ATURE (DEG C)	TEMPER- ATURE, AIR (DEG C)	SPE- CIFIC CON- DUCT- ANCE (UMHOS)	DATE	TIME	STREAM- FLOW, INSTAN- TANEOUS (CFS)	TEMPER- ATURE (DEG C)	TEMPER- ATURE, AIR (DEG C)	SPE- CIFIC CON- DUCT- ANCE (UMHOS)
01038000 - SHEEPSCOT RIVER AT NORTH WHITEFIELD, ME (LAT 44 13 23 LONG 069 35 3A)											
OCT . 1981						APR . 1982					
08...	0945	60	10.0	7.0	--	28...	1515	683	10.0	5.0	39
NOV						JUN					
03...	1300	509	8.0	13.0	46	04...	1100	284	16.0	21.0	45
24...	1700	402	3.5	5.0	44	30...	1030	502	15.5	23.0	--
DEC						AUG					
01...	1115	220	1.0	10.0	15	02...	1600	52	22.0	23.0	47
30...	1000	206	1.0	-8.0	50	SEP					
JAN . 1982						08...	1515	26	19.0	19.0	54
27...	1415	165	.0	-1.0	53						
FEB											
24...	1530	138	.0	1.0	57						
01041000 - KENNEBEC RIVER AT MOOSEHEAD, ME (LAT 45 35 08 LONG 069 43 05)											
DEC . 1981						JUL . 1982					
17...	1615	3260	.5	-3.0	33	01...	0815	1090	14.0	9.5	32
FEB . 1982						AUG					
16...	1430	3260	1.0	-1.5	34	19...	1515	1650	19.5	20.0	31
APR											
23...	0630	212	1.0	3.0	32						
01042500 - KENNEBEC RIVER AT THE FORKS, ME (LAT 45 20 25 LONG 069 57 48)											
OCT . 1981						MAY . 1982					
06...	1145	5110	11.5	16.0	32	19...	1845	6980	8.0	16.0	31
DEC						JUL					
14...	1315	6600	1.0	2.5	26	15...	0845	308	13.5	15.0	32
FEB . 1982						AUG					
02...	1530	4840	.0	-6.0	31	20...	1015	193	19.5	20.0	34
APR											
06...	1430	7450	1.5	-2.0	34						
01043500 - DEAD RIVER NEAR DEAD RIVER, ME (LAT 45 13 48 LONG 070 11 58)											
OCT . 1981						APR . 1982					
08...	1500	42	10.5	12.0	37	08...	1330	1600	2.0	-2.0	45
DEC						JUN					
04...	1530	1140	.5	2.5	31	11...	1330	624	20.0	17.0	27
FEB . 1982						AUG					
04...	1400	1020	2.0	1.0	39	04...	1430	996	23.5	24.0	30
01046500 - KENNEBEC RIVER AT RINGHAM, ME (LAT 45 03 06 LONG 069 53 12)											
OCT . 1981						APR . 1982					
06...	1500	5430	12.5	16.0	35	06...	1530	8350	1.0	-2.0	37
DEC						JUL					
14...	1145	5640	2.0	-1.0	25	22...	1600	6140	20.5	19.0	32
FEB . 1982											
02...	1615	5750	1.0	3.0	34						
01047000 - CARRABASSETT RIVER NEAR NORTH ANSON, ME (LAT 44 52 09 LONG 069 57 20)											
OCT . 1981						APR . 1982					
08...	1200	430	10.0	12.0	38	28...	1215	6530	4.5	5.0	23
DEC						JUN					
04...	1245	612	6.0	2.0	28	11...	1100	286	18.0	17.0	36
FEB . 1982						JUL					
04...	1115	230	.0	8.0	44	22...	1245	72	22.0	18.5	47
APR											
08...	1215	714	.0	-3.0	47						
01047730 - WILSON STREAM AT EAST WILTON, ME (LAT 44 36 55 LONG 070 11 42)											
OCT . 1981						JUN . 1982					
07...	1500	75	11.5	17.0	57	16...	1430	45	18.0	25.0	56
DEC						AUG					
04...	1015	103	2.0	5.0	45	05...	1000	20	18.3	17.5	71
FEB . 1982											
03...	1430	48	.0	3.0	57						

MISCELLANEOUS TEMPERATURE AND SPECIFIC CONDUCTANCE DETERMINATIONS.--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982

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01049000 - SEBASTICOOK RIVER NEAR PITTSFIELD, ME (LAT 44 43 00 LONG 069 24 56)											
OCT . 1981						JUN . 1982					
15...	1100	331	11.0	17.0	130	16...	1000	283	19.0	18.0	84
FEB . 1982						AUG					
02...	1215	563	.0	1.0	116	04...	1045	57	23.0	20.0	102
APR											
06...	1030	4410	1.5	-1.0	65						
01049300 - NORTH BRANCH TANNING BROOK NEAR MANCHESTER, ME (LAT 44 21 00 LONG 069 51 07)											
OCT . 1981						MAR . 1982					
08...	1645	.66	8.0	8.0	108	26...	1445	12	.5	6.0	50
28...	1440	13	10.0	12.0	50	APR					
DEC						01...	1600	23	1.5	5.0	37
03...	1030	3.5	1.5	7.0	50	AUG					
08...	0830	1.8	.0	-1.0	48	03...	1300	.22	20.0	19.5	81
FEB . 1982						SEP					
01...	1000	8.5	.0	-6.0	68	08...	0915	.15	13.0	17.0	99
01049373 - MILL STREAM AT WINTHROP, ME (LAT 44 18 24 LONG 069 58 18)											
OCT . 1981						APR . 1982					
08...	1500	27	11.0	12.5	78	01...	1315	188	4.0	4.5	77
09...	1415	26	15.0	13.0	65	29...	1045	96	5.0	7.0	69
DEC						JUN					
03...	1415	87	5.0	5.0	59	07...	1200	51	16.0	18.0	64
FEB . 1982						AUG					
01...	1145	42	.0	3.0	69	03...	1330	13	25.5	27.0	62
01049396 - JOCK STREAM AT SOUTH MONMOUTH, ME (LAT 44 11 04 LONG 069 59 48)											
OCT . 1981						APR . 1982					
08...	1100	15	8.0	7.0	46	01...	1200	296	1.0	8.0	49
DEC						05...	1545	120	2.5	-1.0	62
03...	1515	50	6.0	1.5	69	29...	1230	29	10.0	9.0	74
08...	1300	29	.0	2.0	54	JUN					
FEB . 1982						04...	1545	30	16.5	15.0	68
01...	1230	13	.0	3.0	95	07...	1300	21	13.0	16.6	79
26...	1100	10	.0	-10.5	108	AUG					
MAR						05...	1320	9.8	18.5	23.5	106
29...	0900	76	.0	4.0	72						
30...	1500	70	1.0	7.0	70						
01049500 - CORBOSSECONTEF STREAM AT GARDINER, ME (LAT 44 13 15 LONG 069 47 25)											
NOV . 1981						MAR . 1982					
03...	1500	1070	9.0	13.0	73	29...	1700	834	.0	10.0	80
24...	1400	922	5.0	6.0	73	APR					
DEC						05...	1400	1670	2.0	-1.0	70
01...	1200	795	1.0	6.0	106	28...	1630	609	10.5	7.0	67
08...	1030	595	2.0	3.0	65	JUN					
JAN . 1982						03...	1430	1040	17.5	22.0	63
27...	1000	345	.0	-18.0	77	JUL					
FEB						30...	1330	243	24.0	31.0	73
01...	1430	332	.0	3.0	75	SEP					
24...	1100	333	.5	-5.0	85	08...	1030	52	20.0	18.0	83
01049550 - TOGUS STREAM AT TOGUS, ME (LAT 44 15 57 LONG 069 41 55)											
OCT . 1981						APR . 1982					
09...	1230	8.1	10.5	8.0	110	05...	1130	251	1.5	-2.0	52
28...	0950	183	8.5	11.0	56	09...	1100	138	1.5	1.0	48
NOV						29...	1415	73	13.0	10.0	42
24...	1115	72	2.5	-.5	49	JUN					
DEC						03...	1615	52	6.5	8.0	49
30...	0945	35	1.0	-5.0	65	AUG					
JAN . 1982						02...	1245	11	22.0	23.5	47
27...	1230	29	.0	-4.0	55	SEP					
FEB						08...	1430	6.2	18.0	20.0	47
24...	1215	18	.5	-1.0	70						
MAR											
24...	1645	84	2.0	4.0	68						
01052500 - DIAMOND RIVER NEAR WENTWORTH LOCATION, NH (LAT 44 52 40 LONG 071 03 25)											
FEB . 1982						JUN . 1982					
03...	1315	89	.0	1.0	40	17...	1115	146	14.0	14.0	34
APR											
13...	1025	239	.0	3.5	39						

MISCELLANEOUS TEMPERATURE AND SPECIFIC CONDUCTANCE DETERMINATIONS.--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982

DATE	TIME	STREAM- FLOW, INSTAN- TANEOUS (CFS)	TEMPER- ATURE (DEG C)	TEMPER- ATURE, AIR (DEG C)	SPE- CIFIC CON- DUCT- ANCE (UMHOS)	DATE	TIME	STREAM- FLOW, INSTAN- TANEOUS (CFS)	TEMPER- ATURE (DEG C)	TEMPER- ATURE, AIR (DEG C)	SPE- CIFIC CON- DUCT- ANCE (UMHOS)
01053500 - ANDROSCOGGIN RIVER AT ERROL, NH (LAT 44 46 57 LONG 071 07 46)											
DEC , 1981						APR , 1982					
08...	0955	2360	1.0	-1.0	55	13...	0850	2110	3.0	3.0	40
FEB , 1982						JUN					
03...	1010	2390	.0	1.0	35	17...	0940	2060	17.0	15.0	24
01054000 - ANDROSCOGGIN RIVER NEAR GORHAM, NH (LAT 44 26 10 LONG 071 11 27)											
DEC , 1981						APR , 1982					
08...	0730	2560	.5	-6.5	80	13...	0735	2760	4.0	5.0	84
FEB , 1982						JUN					
03...	0740	2630	.0	-4.0	70	16...	1715	2270	20.0	19.0	72
01054300 - ELLIS RIVER AT SOUTH ANDOVER, ME (LAT 44 35 37 LONG 070 44 01)											
OCT , 1981						FEB , 1982					
12...	1420	120	6.5	11.0	41	02...	1410	98	.0	-1.0	14
DEC						APR					
07...	1435	208	.0	.0	48	12...	1315	240	3.0	6.0	35
01054500 - ANDROSCOGGIN RIVER AT RUMFORD, ME (LAT 44 32 33 LONG 070 32 50)											
APR , 1982						JUN , 1982					
12...	0850	4470	.5	2.0	79	16...	0915	3090	20.0	19.0	93
01055000 - SWIFT RIVER NEAR ROXBURY, ME (LAT 44 38 32 LONG 070 35 17)											
OCT , 1981						APR , 1982					
17...	1240	99	6.5	11.0	30	12...	1130	185	.0	4.0	29
DEC						JUN					
07...	1345	139	.0	4.5	32	16...	1035	77	15.0	20.0	26
FEB , 1982						JUL					
02...	1120	61	.0	-8.0	29	19...	1530	17	26.0	26.0	25
01055500 - NEZINSOT RIVER AT TURNER CENTER, ME (LAT 44 16 10 LONG 070 13 49)											
OCT , 1981						FEB , 1982					
01...	1100	375	8.0	7.5	50	25...	1145	163	.0	-9.0	70
NOV						MAR					
03...	1000	512	6.0	8.0	46	29...	1045	800	.5	2.0	44
30...	1025	270	2.0	2.0	90	APR					
DEC						12...	0655	596	.0	2.0	50
29...	1050	213	.0	-1.5	58	22...	1230	1630	6.0	8.0	31
JAN , 1982						JUN					
27...	1600	153	.0	-12.0	69	08...	1015	343	15.0	17.0	41
01057000 - LITTLE ANDROSCOGGIN RIVER NEAR SOUTH PARIS, ME (LAT 44 17 08 LONG 070 32 16)											
FEB , 1982						JUL , 1982					
25...	1530	67	.0	-10.0	51	19...	1300	10	26.0	26.0	62
MAR											
29...	1500	285	1.0	4.0	44						
01058500 - LITTLE ANDROSCOGGIN RIVER NEAR AUBURN, ME (LAT 44 03 49 LONG 070 16 28)											
OCT , 1981						JUN , 1982					
07...	1140	352	11.0	16.5	35	08...	1230	1060	14.0	19.0	55
NOV						JUL					
30...	1325	681	2.0	5.0	85	21...	1100	155	24.0	23.0	101
APR , 1982											
22...	1845	2730	4.5	5.5	43						
01059000 - ANDROSCOGGIN RIVER NEAR AUBURN, ME (LAT 44 04 20 LONG 070 12 31)											
OCT , 1981						APR , 1982					
07...	1515	5670	11.0	11.0	--	22...	1715	29100	6.0	6.0	45
NOV						JUN					
30...	1210	6950	2.0	5.0	125	08...	1050	7670	15.0	17.0	47
FEB , 1982						JUL					
25...	1715	4770	.0	9.0	92	21...	0930	2650	24.0	19.0	92
MAR											
29...	0945	8410	1.0	-1.0	60						

WATER QUALITY DATA, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982

DATE	TIME	STREAM- FLOW, INSTAN- TANEOUS (CFS)	TEMPER- ATURE (DEG C)	TEMPER- ATURE, AIR (DEG C)	SPE- CIFIC CON- DUCT- ANCE (UMHOS)	DATE	TIME	STREAM- FLOW, INSTAN- TANEOUS (CFS)	TEMPER- ATURE (DEG C)	TEMPER- ATURE, AIR (DEG C)	SPE- CIFIC CON- DUCT- ANCE (UMHOS)
01059800 - COLLYER BROOK NEAR GRAY, ME (LAT 43 55 03 LONG 070 19 02)											
OCT , 1981						JUN , 1982					
07...	1110	21	10.0	6.5	21	08...	1145	39	14.0	18.0	85
NOV						JUL					
04...	1010	18	5.0	11.5	98	21...	1210	23	17.0	22.0	98
30...	1428	18	2.0	10.0	150						
MAR , 1982											
29...	1010	60	.0	9.0	109						
01060000 - ROYAL RIVER AT YARMOUTH, ME (LAT 43 47 57 LONG 070 10 45)											
NOV , 1981						JUL , 1982					
30...	1605	174	2.0	8.0	120	21...	1315	146	23.5	23.0	90
MAR , 1982						SEP					
29...	1530	718	.0	8.5	59	13...	1230	37	19.0	21.0	109
APR											
20...	1255	758	8.5	14.5	48						
01065500 - OSSIPEE RIVER AT CORNISH, ME (LAT 43 48 26 LONG 070 47 55)											
OCT , 1981						APR , 1982					
29...	1140	3380	9.5	9.0	34	19...	1520	4080	4.5	16.0	30
FEB , 1982											
25...	1200	591	.0	-10.0	43						
01066500 - LITTLE OSSIPEE RIVER NEAR SOUTH LIMINGTON, ME (LAT 43 41 22 LONG 070 40 15)											
OCT , 1981						JUL , 1982					
29...	1310	784	8.0	9.0	42	20...	1400	73	24.0	22.0	39
FEB , 1982						AUG					
25...	1400	249	.0	-8.0	46	31...	1820	26	19.0	23.0	41
APR											
19...	1740	1500	9.0	10.5	28						
01069500 - MOUSAM RIVER NEAR WEST KENNEBUNK, ME (LAT 43 25 04 LONG 070 39 32)											
OCT , 1981						APR , 1982					
29...	1535	357	9.0	7.0	72	20...	0825	583	8.5	13.0	48
FEB , 1982											
25...	1515	171	.5	-5.0	85						

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), June 1976 reported depth 45 ft (13.7 m), screened 42 to 45 ft (12.8 to 13.7 m). November 1982 measured depth 40 ft (12.2 m).

DATUM.--Altitude of land-surface datum is 310 ft (94 m). Measuring point: Top of casing at land-surface datum, which is 2.2 ft (0.67 m) above the general land surface. Previously reported without a land-surface correction.

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 1981 TO SEPTEMBER 1982

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 01	7.27	DEC 18	6.32	FEB 23	6.58	APR 26	5.01	JUN 30	6.11	JUL 27	6.83
23	7.17	JAN 27	6.79	MAR 30	6.39	MAY 27	5.87	JUL 19	6.52	AUG 24	6.80
NOV 24	6.28									SEP 29	7.37

440730070035303. Local number, An 988B.

LOCATION.--Lat 44°07'23", long 70°04'02", Hydrologic Unit 01040002, on Bowdoin Road, 0.4 mi (0.6 km) east of State Highway 126 in Sabattus.

Owner: U.S. Geological Survey.

AQUIFER.--Glacial sand of Pleistocene age.

WELL CHARACTERISTICS.--Wash-bored observation artesian well, diameter 1.5 in. (0.04 m), October 1976 reported depth 100 ft (30.5 m), screened 95-100 ft (29.0 to 30.5 m), November 1982 measured depth 90 ft (27.4 m).

DATUM.--Altitude of land-surface datum is 220 ft (67 m). Measuring point: Top of casing 4.35 ft (1.33 m) above land-surface datum.

PERIOD OF RECORD.--November 1976 to current year. Water levels prior to November 1981 have not been published, but are available in the files of the Geological Survey.

EXTREMES OF PERIOD OF RECORD.--Highest water level measured, 0.45 ft (0.14 m) below land-surface datum, Oct. 28, 1981; lowest measured, 5.96 ft (1.82 m) below land-surface datum.

WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 28	0.45	DEC 28	3.34	FEB 23	3.43	APR 26	2.55	JUL 19	3.26S	AUG 24	3.51
NOV 25	2.87	JAN 27	3.29	MAR 30	2.44	MAY 27	2.89	20	3.21	SEP 08	3.55
						JUN 30	2.39	27	3.50	09	3.62

S - Nearby well pumping

440730070035304. Local number, An 988C.

LOCATION.--Lat 44°07'23", long 70°04'02", Hydrologic Unit 01040002, on Bowdoin Road, 0.4 mi (0.6 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 43 ft (13.1 m), screened 38 to 43 ft (11.6 to 13.1 m).

DATUM.--Altitude of land-surface datum is 220 ft (67 m). This altitude supersedes the previously reported datum at 200 ft (61 m). Measuring point: Top of pipe at land-surface datum, which is 2.7 ft (0.82 m) above the general land surface. Previously reported without a land-surface correction.

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, 6.34 ft (1.93 m), below land-surface datum, Jan. 27, 1981.

WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 28	4.32	JAN 27	4.91	MAR 30	4.60	MAY 27	4.90	JUL 20	5.27	AUG 24	5.36
NOV 25	4.90	FEB 23	5.29	APR 26	4.73	JUN 30	4.23	23	5.26	SEP 08	5.36
DEC 28	5.10					JUL 19	5.94S	27	5.31	29	5.42

S = 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), November 1942 measured depth 11 ft (3.4 m), open end. May 1958 measured depth 8 ft (2.4 m), installed driven point depth 11 ft (3.4 m), screened 8 to 11 ft (2.4 to 3.4 m). May 1968 and November 1982 measured depth 8 ft (2.4 m).

DATUM.--Altitude of land-surface datum is 930 ft (283 m). Measuring point: Top of pipe 1.75 ft (0.53 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 1981 TO SEPTEMBER 1982

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 13	1.77	DEC 15	2.95	FEB 12	8.05E	APR 13	2.45	JUN 15	7.20	AUG 13	F
29	0.85	30	4.35	25	9.50E	28	1.50	JUL 01	F	30	F
NOV 13	3.73	JAN 13	5.25	MAR 12	F	MAY 12	2.29	14	F	SEP 14	6.15
25	2.45	29	7.00	29	3.95	28	5.05	29	F	29	6.45

E - Estimated
F - Dry

GROUND-WATER LEVELS
AROOSTOOK COUNTY --Continued

464807068284401. Local number, Ar 1A.

LOCATION.--Lat 46°48'07", long 68°28'44", Hydrologic Unit 01010003, on State Highway 11 about 3.1 mi (5.0 km) north of village of Portage Lake.

Owner: William Condon

AQUIFER.--Bedrock of Ordovician age.

WELL CHARACTERISTICS.--Drilled observation artesian well, diameter 6 in.(0.15 m), depth 81 ft (24.7 m), open hole. There is a 1.5 in.(0.04 m) pipe in the center, depth 24 ft (7.3 m).

DATUM.--Land-surface datum is 713.08 ft (217.347 m) above mean sea level (Maine Department of Transportation bench mark). Measuring point: Top of 1.5 in.(0.04 m) pipe coupling, at land-surface datum.

PERIOD OF RECORD.--November 1975 to current year. Records prior to October 1981 have not been published, but are available in the files of the Geological Survey.

EXTREMES FOR PERIOD OF RECORD.--Highest water level, overflowed, Jan. 27, 1976, Mar. 14, 1977, and Apr. 27, 1978; lowest measured 10.10 ft (3.08 m) below land-surface datum, Jan. 13, 1976 and Feb. 25, 1977.

WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 13	2.67	DEC 15	2.20	FEB 12	5.84	APR 28	0.75	JUN 15	3.50	AUG 13	5.00
29	1.90	30	3.25	25	6.45	MAY 12	2.34	Jul 1	3.85	30	3.08
NOV 13	2.50	JAN 13	5.80	MAR 12	6.10	28	3.40	14	6.00	SEP 14	3.30
25	2.02	29	4.70					29	3.67	29	2.76

460728067513201. Local number, Ar 61.

LOCATION.--Lat 46°07'28", long 67°51'32", Hydrologic Unit 01010005, near entrance to gravel pit located west of Meduxnekeag River, about 0.6 mi (1.0 km) southwest of U.S. Highway 2 in Houlton.

Owner: Houlton Water Company.

AQUIFER.--Glacial sand and gravel (ice-contact deposits) of Pleistocene age.

WELL CHARACTERISTICS.--Drilled observation water-table well, diameter 18 in.(0.46 m), depth 42 ft (12.8 m), screened 33 to 42 ft (10.1 to 12.8 m).

DATUM.--Altitude of land-surface datum is about 380 ft (116 m). Measuring point: Top of casing at land-surface datum, which is 4.4 ft (1.34 m) below the general land surface. Previously reported without a land-surface correction.

PERIOD OF RECORD.--September 1980 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 1.86 ft (0.57 m) below land-surface datum, Apr. 26, 1982; lowest measured, 5.62 ft (1.71 m) below land-surface datum, Sep. 15, 1980.

WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 15	3.32	DEC 14	2.69	FEB 16	3.64	APR 15	2.38	JUN 15	3.44	AUG 16	4.02
28	3.02	26	3.04	24	3.76	26	1.86	25	3.51	26	3.68
NOV 16	3.27	JAN 14	3.14	MAR 15	3.71	MAY 14	2.53	JUL 15	3.89	SEP 15	4.20
25	3.95	27	3.41	25	3.54	25	3.16	26	3.99	26	4.03

GROUND-WATER LEVELS
AROOSTOOK COUNTY--Continued

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471457068353001. Local number, Ar 890.

LOCATION.--Lat 47°14'57", long 68°35'30", Hydrologic Unit 01010003, 0.25 mi (0.40 km) southeast of the intersection of State Highways 11 and 161 and U.S. Highway 1, 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), November 1976 constructed depth 50 ft (15.2 m), open end. November 1982 measured depth 48 ft (14.6 m).

DATUM.--Altitude of land-surface datum is 530 ft (162 m). Measuring point: Floor of recorder shelter at land-surface datum, which is 3.0 ft (0.91 m) above the general land surface. Previously reported without a land-surface correction.

REMARKS.--Water levels, October 1979 to September 1981, were incorrectly reported from land surface. They should be referenced from land-surface datum.

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

EXTREMES FOR PERIOD OF RECORD.--Highest water level, 2.23 ft (0.68 m) below land-surface datum, May 1, 1979; lowest, 15.28 ft (4.66 m) below land-surface datum, Jan. 22 and 23, 1979.

WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	9.02	5.88	6.92	---	---	---	11.33	3.56	6.48	9.20	11.30	11.80
10	8.62	6.09	6.61	---	---	---	11.26	2.83	7.04	9.70	11.49	11.69
15	8.73	6.41	6.79	8.24	10.25	10.45	11.34	3.40	7.68	10.12	11.69	11.85
20	8.97	6.58	6.85	---	---	---	10.41	4.32	8.02	10.49	11.87	11.87
25	8.53	6.58	7.16	9.00	10.70	11.65	7.43	5.11	8.42	10.79	12.05	11.89
FOU	6.33	6.72	7.85	---	---	11.72	3.45	5.96	8.56	11.07	11.83	11.94
WTR YR 1982	HIGH		2.83	MAY 10, 11			LOW		12.05	AUG 25		

463642069344601. Local number, Ar 891.

LOCATION.--Lat 46°36'42", long 69°34'46", Hydrologic Unit 01010002, about 2.7 mi (4.3 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 80 ft (24.4 m), open hole.

DATUM.--Altitude of land-surface datum is 1,050 ft (320 m). Measuring point: Electric tape gage index at land-surface datum, which is 2.8 ft (0.85 m) above the general land surface. Previously reported without a land-surface correction.

REMARKS.--Water levels, October 1979 to September 1981, were incorrectly reported from land surface. They should be referenced from land-surface datum.

PERIOD OF RECORD.--July 1978 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level, 7.94 ft (2.42 m) below land-surface datum, Sep. 25, 1981; lowest, 16.62 ft (5.07 m) below land-surface datum, Aug. 23, 1982.

WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	11.71	12.50	14.00	14.27	---	15.37	13.20	9.61	14.25	15.65	16.33	14.51
10	10.94	12.94	13.99	14.42	---	15.15	13.23	9.56	14.89	15.83	16.32	14.53
15	12.55	13.72	14.33	14.66	---	14.53	13.21	11.00	15.24	16.10	16.49	14.80
20	11.73	13.75	14.33	14.77	14.98	14.57	10.05	12.56	15.51	16.27	16.51	14.55
25	11.09	14.04	14.38	---	15.08	14.68	9.31	13.57	15.05	16.42	16.51	14.89
FOU	11.00	13.78	14.69	---	15.33	13.86	8.76	14.36	15.35	16.21	15.95	14.76
WTR YR 1982	HIGH			8.47 APR 28			LOW		16.62 AUG 23			

GROUND-WATER LEVELS
CUMBERLAND COUNTY

435453070013601. Local number, C 26.

LOCATION.--Lat 43°54'53", long 70°01'36", Hydrologic Unit 01060001, 0.3 mi (0.5 km) northwest of the intersection of Durham Road and U.S. Highway 1 in 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), reported depth 101 ft (30.8 m) in 1953, screened 81 to 101 ft (24.7 to 30.8 m). November 1982 measured depth 96 ft (29.3 m).

DATUM.--Altitude of land-surface datum is 139 ft (42.4 m). Measuring point: Electric tape gage index 2.93 ft (0.89 m) above land-surface datum.

REMARKS.--Water levels, October 1979 to September 1981, are incorrectly referenced from land surface. They should be referenced from land-surface datum.

PERIOD OF RECORD.--April 1958 to current year.

REVISIONS.--The maximum for January 1981 has been revised to 32.12 ft (9.79 m), superseding the value previously published. The February 1981 mean, maximum, and minimum have been revised to 32.22 ft (9.82 m), 32.28 ft (9.84 m), and 32.07 ft (9.77 m) respectively, superseding those previously published. In addition, the following tables supersede values previously published.

WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978
MEAN VALUES

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
NOV 25	28.20	DEC 05	27.90	DEC 10	27.97	DEC 15	27.88	DEC 20	27.85	DEC 31	27.29
30	28.08										

WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981
MEAN VALUES

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
JAN 31	32.12	FEB 05	32.18	FEB 10	32.27	FEB 15	32.27	FEB 20	32.28

EXTREMES FOR PERIOD OF RECORD.--Highest water level, 27.10 ft (8.26 m) below land-surface datum, Jan. 8, 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 1981 TO SEPTEMBER 1982
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	32.76	---	---	31.93	31.86	31.97	30.94	30.18	30.38	30.36	30.57	30.83
10	32.74	---	---	31.76	31.79	32.13	30.50	30.20	30.36	30.35	30.57	30.90
15	32.74	---	---	31.76	31.87	32.09	30.36	30.25	30.34	30.40	30.61	30.95
20	32.72	---	---	31.70	31.85	31.93	30.16	30.25	30.32	30.43	30.63	31.01
25	32.67	---	---	31.61	31.97	31.68	30.13	30.32	30.41	30.47	30.65	31.06
FROM	---	---	32.06	31.76	32.01	31.25	30.12	30.41	30.31	30.51	30.75	31.13

WTR YR 1982 HIGH 30.12 APR 23, 27, and 30 LOW 32.79 OCT 1,2

GROUND-WATER LEVELS
HANCOCK COUNTY

157

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: Forrest J. Webber (formerly 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, 0.65 ft (0.20 m) below land-surface datum. It is 1.4 ft (0.43 m) above the general land surface.

Previously reported without a land-surface correction.

REMARKS.--Water levels, October 1979 to September 1981, were incorrectly reported from land surface. They should be referenced from land-surface datum.

PERIOD OF RECORD.--November 1943 to current year. Records for May 15-30, 1979; April 26-30, 1981; and the monthly summary for January 1981 are unreliable and should not be used.

REVISIONS.--The minimum for the 1981 water year has been revised to 3.45 ft (1.05 m). It occurred on November 30, 1980. The annual mean for the 1981 water year has been revised to 6.15 ft (1.87 m). In addition, the following values have been revised in that water year.

WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

	DEC	FEB	APR	MAY	JUN	JUL
MEAN	4.65	4.18	4.39	5.33	6.76	8.63
MAX	5.68	4.39			7.44	
MIN				4.99	5.87	7.53

These values supersede those previously published.

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. 27, 1965. Well goes dry frequently.

WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	5.80	4.70	3.77	4.30	M	M	---	4.72	---	9.79	11.65	11.87
10	6.04	4.87	3.64	4.28	M	---	---	5.22	---	10.22	11.87	12.10
15	6.31	5.11	4.35	4.82	M	---	---	---	---	10.68	12.13	12.42
20	6.22	4.40	4.49	M	M	---	---	---	9.16	11.06	12.34	12.63
25	5.82	4.17	4.98	M	M	---	---	---	9.63	11.32	12.51	12.76
END	4.19	4.73	5.57	M	M	---	4.24	---	9.72	11.48	11.96	12.89

WTR YR 1982 HIGH 3.26 APR 21 LOW 12.89 SEP 30

M - Frozen

GROUND-WATER LEVELS
HANCOCK COUNTY--Continued

441440068182701. Local number, H 137.

LOCATION.--Lat 44°14'40", long 68°18'27", Hydrologic Unit 01050002, Seawall Campground of Acadia National Park, 1.3 mi (2.1 km) south of Southwest Harbor.

Owner: National Park Service.

AQUIFER.--Bedrock of Devonian age.

WELL CHARACTERISTICS.--Drilled observation artesian well, diameter 6 in. (0.15 m), depth 175 ft (53.3 m), open hole.

DATUM.--Altitude of land-surface datum is 40 ft (12.2 m). Measuring point: Top of casing 1.3 ft (0.40 m) above land-surface datum.

PERIOD OF RECORD.--June 1981 to current year. Water levels prior to October 1981 have not been published but are available in the files of the Geological Survey.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 7.5 ft (2.29 m) below land-surface datum, May 6, 1982; lowest measured, 9.9 ft (3.02 m) below land-surface datum, Sept. 17, 1981.

WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 01	7.7	DEC 03	7.7	FEB 04	8.3	APR 01	7.8	JUN 03	7.7	AUG 05	8.5
15	9.7	17	8.3	18	8.6	15	8.3	17	8.4	19	8.3
NOV 05	9.2	JAN 07	7.6	MAR 04	9.8	MAY 06	7.5	JUL 01	7.8	SEP 02	8.7
19	9.0	21	9.4	18	8.4	20	7.9	15	8.9	16	9.3

GROUND-WATER LEVELS

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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 shelter house floor 0.07 ft (0.02 m) below land-surface datum.

PERIOD OF RECORD.--December 1960 to current year.

REVISIONS.--The means for September 30, 1978 and November 25, 1980 have been revised to 13.97 ft (4.26 m), and 5.04 ft (1.54 m) respectively. In addition, the following means for the 1979 water year have been revised.

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	JUN	JUL	AUG	SEP
5	14.28	15.31	15.49	6.57	5.02	5.67	---	---	---	---	---
10	14.52	15.40	15.37	5.98	5.49	5.97	---	---	---	---	---
15	14.78	15.49	15.24	5.71	5.97	4.77	---	---	---	---	---
20	15.00	15.58	15.13	---	6.48	4.95	---	---	8.65	---	9.63
25	15.14	15.60	14.94	5.49	6.37	4.67	4.87	7.20	8.90	9.75	---
EOM	15.23	15.61	14.55	4.40	6.18	4.75	---	---	---	---	---

These values supersede those previously published.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 3.42 ft (1.04 m) below land-surface datum, Mar. 28, 1975; lowest, 15.61 ft (4.76 m) below land-surface datum, Nov. 28-30, 1978.

WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	5.93	---	---	4.37	6.56	---	---	5.21	5.12	5.90	7.69	---
10	5.80	---	---	---	6.14	---	---	5.60	5.41	6.40	7.74	---
15	5.93	---	---	---	---	---	---	5.94	5.92	6.93	7.72	---
20	4.04	---	---	---	---	---	---	6.27	6.14	7.36	7.72	---
25	4.17	4.51H	---	---	7.01H	---	---	6.30	6.51	7.58	7.63H	---
EOM	---	---	5.92	6.95	---	4.30	4.84	6.53	---	7.68	---	9.20

WTR YR 1982 HIGH 3.69 APR 1 LOW 9.20 SEP 30

H-Tape Measurement

442023069553801. Local number, K 88.

LOCATION.--Lat 44°20'21", long 69°55'37", 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), April 1962 measured depth (partially obstructed) 298 ft (90.8 m), open hole. November 1982 measured depth 436 ft (132.9 m).

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 1981 TO SEPTEMBER 1982

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 28	35.42	MAR 30	42.55	APR 27	40.49	JUL 01	49.52	JUL 27	52.44	SEP 29	55.17
NOV 25	38.70			MAY 27	47.48			AUG 25	53.64		

GROUND-WATER LEVELS
KENNEBEC COUNTY--Continued

440918069564001. Local number, K 766.

LOCATION.--Lat 44°09'18", long 69°56'40", Hydrologic Unit 01030003, 690 ft (210 m) northeast of the intersection of Hallowell Neck Road, Libby Road, and Plains Road, Litchfield.

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 62 ft (18.9 m), cased to 59 ft (18.0 m), open end.

DATUM.--Altitude of land-surface datum is 300 ft (91 m). Measuring point: Floor of recorder shelter at land-surface datum, which is 2.7 ft (0.82 m) above the general land surface. Previously reported without a land-surface correction.

REMARKS.--Water levels, October 1979 to September 1981, were incorrectly reported from land surface. They should be referenced from land-surface datum.

PERIOD OF RECORD.--June 1976 to current year. Records for March 31 to April 26, 1981 are unreliable and should not be used.

EXTREMES FOR PERIOD OF RECORD.--Highest water level, 39.91 ft (12.16 m) below land-surface datum, Apr. 29, 1979; lowest, 51.46 ft (15.68 m) below land-surface datum, Sept. 21-24, 1981.

WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	50.93	49.50	48.46	49.43	49.43	---	45.38	45.68	46.41	46.53	47.40	---
10	50.73	49.36	48.98	49.43	49.43	---	46.00	45.84	46.56	46.75	47.51	---
15	50.51	49.20	49.11	49.43	49.43	---	45.51	45.98	46.68	46.93	47.57	---
20	50.24	49.03	49.23	49.43	---	---	45.51	46.14	46.78	47.06	47.72	---
25	49.93	48.84	49.36	49.43	---	---	45.55	46.29	46.93	47.19	47.85	---
END	49.35	48.96	49.43	49.43	---	47.99	45.56	46.48	46.43	47.27	---	48.92
WTR YR 1982				HIGH	45.37	APR 3 AND 4		LOW	51.13	OCT 1		

GROUND-WATER LEVELS
KENNEBEC COUNTY--Continued

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440810069553601. Local number, K 872 A.

LOCATION.--Lat 44°08'17", long 69°55'36", Hydrologic Unit 01030003, on Small Road, 0.40 mi (0.64 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, which is 2.2 ft (0.67 m) above the general land surface. Previously reported without a land-surface correction.

REMARKS.--Water levels, October 1979 to September 1981, were incorrectly reported from land surface. They should be referenced from land-surface datum.

PERIOD OF RECORD.--November 1978 to current year.

REVISIONS.--The monthly maximum for January 1980 has been revised to 12.31 (3.75 m). The monthly mean for January 1980 has been revised to 11.55 ft (3.52 m). The 1980 water year mean and minimum have been revised to 11.26 ft (3.43 m) and 19.09 ft (5.82 m) respectively. These values supersede those previously published.

EXTREMES FOR PERIOD OF RECORD.--Highest water level, 6.44 ft (1.96 m) below land-surface datum, Apr. 28, 1979; lowest, 19.11 ft (5.82 m) below land-surface datum, Oct. 4, 1980.

WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	10.92	10.19	9.56	8.77	10.94	---	7.89	10.47	10.49	10.95	12.86	14.03
10	11.22	10.15	10.14	9.77	10.95	---	9.38	10.87	10.92	11.94	12.23	15.18
15	11.55	10.49	10.52	10.43	10.96	---	8.55	11.23	11.34	12.63	12.34	15.95
20	9.13	9.82	10.26	10.80	10.97	---	9.31	11.42	11.45	13.06	12.86	16.42
25	8.46	9.78	10.64	11.04	11.00	---	9.89	11.59	11.95	13.20	13.36	16.72
FORM	9.32	10.31	10.87	11.30	11.00	8.29	9.96	11.89	10.08	12.69	13.76	16.78
WTR YR 1982				HIGH	6.77 APR 1		LOW	16.78 SEP 30				

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: Land surface at land-surface datum.

Prior to October 1981 it was incorrectly reported as top of casing, 2.0 ft (0.61 m) above land-surface datum.

REMARKS.--Prior to 1973 well was used for domestic supply.

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

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 0.4 ft (0.12 m) above land-surface datum, Apr. 11, 1976; lowest measured, 12.2 ft (3.72 m) below land-surface datum, Oct. 9, 16, 23, 1966.

WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 04	4.5	NOV 29	3.2	JAN 31	5.3	APR 04	6.0	MAY 30	2.7	AUG 01	5.0
11	4.7	DEC 06	3.3	FEB 07	4.8	11	5.7	JUN 06	2.5	08	6.0
18	4.8	13	3.9	14	4.8	18	4.9	20	3.3	15	6.0
25	3.8	20	4.2	21	5.0	25	4.5	27	3.7	22	6.0
NOV 01	1.2	27	4.2	28	5.3	MAY 02	1.6	JUL 05	3.8	29	5.7
08	2.5	JAN 03	4.3	MAR 07	5.3	09	1.0	11	4.2	SEP 12	5.8
15	2.9	17	4.9	21	5.7	16	1.3	18	4.3	19	5.8
22	2.5	24	4.8	28	5.8	23	1.5	25	4.8	26	6.0

GROUND-WATER LEVELS
OXFORD COUNTY --Continued

440642070583401. Local number, O 615.

LOCATION.--Lat 44°06'41", long 70°58'32", Hydrologic Unit 01060002, at intersection of State Highway 113 and road to Fish Street, 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 40 ft (12.2 m), which is screened 35 to 40 ft (10.7 to 12.2 m).

DATUM.--Altitude of land-surface datum is 390 ft (119 m). Measuring point: Top of casing at land-surface datum, which is 2.9 ft (0.88 m) above the general land surface. Previously reported without a land-surface correction.

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 1981 TO SEPTEMBER 1982

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 04	8.20	DEC 12	7.70	FEB 14	8.70	APR 11	5.90	JUN 13	9.00	JUL 11	8.90
NOV 21	6.46	JAN 19	8.65	MAR 15	8.65	MAY 09	6.50	30	8.10	AUG 23	9.30
										SEP 25	9.65

442515070481001. Local number, O 616.

LOCATION.--Lat 44°25'15", long 70°48'11", Hydrologic Unit 01040002, at Bethel Airport, Bethel.

Owner: U.S. Geological Survey.

AQUIFER.--Glacial sand and gravel (outwash) of Pleistocene age.

WELL CHARACTERISTICS.--Wash-bored observation water-table well, diameter 1.5 in. (0.04 m), August 1978 constructed depth 21 ft (6.4 m), screened 16 to 21 ft (4.9 to 6.4 m). November 1982 measured depth 20 ft (6.1 m).

DATUM.--Altitude of land-surface datum is 650 ft (198 m). Measuring point: Top of casing 0.6 ft (0.18 m) below land-surface datum, which is 2.0 ft (0.61 m) above the general land surface. Previously reported without a land-surface correction.

PERIOD OF RECORD.--August 1978 to current year.

REVISIONS.--Water levels have been revised for the following water years, superseding those previously published.

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
MAR 03	10.5	APR 16	7.7	MAY 29	7.3	AUG 16	10.5	SEP 29	11.5
28	8.3	MAY 15	7.3	JUL 15	9.5	30	10.7		

WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
FEB 15	10.7	JUN 30	10.5	AUG 28	11.5	SEP 15	11.7	SEP 29	11.8

WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 30	10.6	DEC 16	11.2	MAR 27	9.6	JUN 16	9.5	AUG 31	10.5
NOV 17	11.8	JAN 16	11.5	MAY 14	9.6	29	9.5	SEP 16	10.8
		MAR 16	9.5	31	9.5			28	9.7

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 7.3 ft (2.23 m) below land-surface datum, May 15, 29, 1979; lowest measured, 12.6 ft (3.84 m) below land-surface datum, Nov. 16, 1978.

WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 16	10.0	DEC 15	9.5	FEB 17	9.5	APR 14	9.8	JUN 28	9.8	AUG 16	10.8
28	9.5	28	9.5	27	9.5	28	7.6	30	10.0	23	9.9
NOV 15	9.3	JAN 16	9.5	MAR 16	10.9	MAY 16	7.9	JUL 15	10.6	SEP 16	10.9
30	9.3	29	9.5	29	10.8	27	8.8	30	10.6	30	11.1

GROUND-WATER LEVELS
OXFORD COUNTY--Continued

440823070291501. Local number, O 1214.

LOCATION.--Lat 44°08'23", long 70°29'15", Hydrologic Unit 01040002, on State Highway 121, about 0.1 mi (0.2 km) east of intersection with Skeetfield Road, in Oxford.

Owner: U.S. Geological Survey.

AQUIFER.--Stratified sand (outwash) of Pleistocene age.

WELL CHARACTERISTICS.--Drilled observation water-table well, diameter 6 in.(0.15 m), September 1980 constructed depth 39 ft (11.9 m), cased with 6 in.(0.15 m) steel to 35 ft (10.7 m), screened 35 to 39 ft (10.7 to 11.9 m). November 1982 measured depth 38 ft (11.6 m).

DATUM.--Elevation of measuring-point datum is 334.04 ft (101.815 m). This elevation supercedes the previously reported datum at 333.95 ft (101.788 m). Measuring point: Mark on electric tape gage, which is 1.2 ft (0.37 m) above the general land surface. Previously reported without a land-surface correction.

REMARKS.--Test hole adjacent to this well shows a depth to bedrock of 174 ft (53.0 m). Water levels, September 1980 to September 1981, were incorrectly reported below land surface. They should be referenced from the measuring-point datum.

PERIOD OF RECORD.--September 1980 to current year.

REVISIONS.--The minimum and mean for January 1981 have been revised to 9.61 ft (2.93 m) and 9.79 ft (2.98 m) respectively, superseding those previously published. In addition, the minimum for the 1981 water year has been revised to 9.00 ft (2.74 m), which occurred on April 17-20, and 24, 1981, superseding the value previously published.

EXTREMES FOR PERIOD OF RECORD.--Highest water level, 6.71 ft (2.05 m) below measuring-point datum, Apr. 30, and May 1, 1982; lowest, 10.13 ft (3.09 m) below measuring-point datum, Oct. 23-25, 1980.

WATER LEVEL, IN FEET BELOW MEASURING-POINT DATUM, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	---	8.51	8.38	8.76	9.00	9.23	8.03	6.82	7.03	7.51	8.13	8.62
10	9.80	8.57	8.43	8.71	9.03	9.26	7.85	6.94	7.10	7.64	8.18	8.75
15	9.87	8.64	8.51	8.80	9.07	9.26	7.65	7.09	7.26	7.78	8.23	8.84
20	9.86	8.69	8.59	8.85	9.11	9.15	6.95	7.19	7.36	7.89	8.32	8.92
25	9.50	8.43	8.68	8.90	9.15	9.03	6.80	7.34	7.49	7.99	8.42	9.00
END	8.61	8.39	8.78	8.99	9.19	8.56	6.71	7.39	7.48	8.09	8.53	9.07
WTR YR 1982	HIGH 6.71 APR 30 AND MAY 1						LOW	9.92 OCT 18				

GROUND-WATER LEVELS
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 (0.40 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 23 ft (7.0 m), cased with rock to 23 ft (7.0 m), open end.

DATUM.--Altitude of land-surface datum is 410 ft (125 m). Measuring point: Painted nail in north side of windlass housing 0.07 ft (0.02 m) below land-surface datum, which is 2.7 ft (0.82 m) above the general land-surface. Previously reported without a land-surface correction.

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

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 2.55 ft (0.78 m) below land-surface datum, Mar. 15, 1979; lowest measured, 15.78 ft (4.81 m) below land-surface datum, Oct. 15, 1978.

WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 12	5.63	DEC 13	4.52	FEB 14	6.87	APR 11	4.09	JUN 13	8.39	AUG 15	12.73
25	3.75	26	5.38	27	7.75	25	4.30	30	9.66	29	13.42
NOV 14	5.42	JAN 10	4.72	MAR 14	6.95	MAY 15	6.05	JUL 14	10.62	SEP 12	14.38
29	4.77	23	6.18	28	3.91	29	7.86	31	11.92	30	14.32

445319068560101. Local number, Pe 456.

LOCATION.--Lat 44°53'19", long 68°56'01", Hydrologic Unit 01020005, on Kenduskeag-Levant Road, 2.5 mi (4.0 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 98 ft (29.9 m), open hole.

DATUM.--Altitude of land-surface datum is 190 ft (57.9 m). Measuring point: Floor of fiberglass shelter 0.36 ft (0.11 m) above land-surface datum, which is 4.3 ft (1.31 m) above the general land surface. Previously reported without a land-surface correction.

REMARKS.--Water levels, September 1979 to October 1981, were incorrectly reported from land surface. They should be referenced from land-surface datum.

PERIOD OF RECORD.--April 1978 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level, 15.62 ft (4.76 m) below land-surface datum, Apr. 5, 1982; lowest, 26.33 ft (8.03 m) below land-surface datum, Nov. 17-19, 1978.

WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	21.22	19.17	19.39	---	---	22.55	15.62	19.32	22.13	23.53	24.72	25.61
10	21.17	19.73	18.25	---	---	22.51	16.66	19.94	22.41	23.74	24.87	25.73
15	21.29	20.17	18.70	---	---	21.49	17.11	20.50	22.68	23.95	25.03	25.84
20	21.25	19.88	---	---	22.06	20.20	17.57	20.98	22.93	24.15	25.16	25.93
25	20.66	19.26	---	---	22.28	19.28	18.03	21.42	23.17	24.34	25.31	26.04
END	18.89	19.72	20.48	---	22.40	17.64	18.62	21.90	23.37	24.56	25.45	26.12
WTR YR 1982				HIGH	15.62 APR 5				LOW	26.12 SEP 30		

PENOBSCOT COUNTY--Continued

451955068344501. Local number, Pe 457.

LOCATION.--Lat 45°19'55", long 68°34'45", Hydrologic Unit 01020005, in Lincoln about 0.2 mi (0.3 km), southeast of U.S. Highway 2 in South Lincoln on road toward Pollack Brook (South Lincoln Station).

Owner: Lincoln Water District.

AQUIFER.--Glacial sand and gravel (ice-contact deposits) of Pleistocene age.

WELL CHARACTERISTICS.--Wash-bored observation water-table well, diameter 2.5 in. (0.06 m), depth 39 ft (11.9 m), cased with iron pipe, open hole.

DATUM.--Altitude of land-surface datum is 200 ft (61.0 m). Measuring point: Top of casing 3.6 ft (1.10 m) above land-surface datum.

REMARKS.--Water levels may be affected by pumping from nearby municipal well.

PERIOD OF RECORD.--July to September 1982.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 23.40 ft (7.13 m) below land-surface datum, July 29, 1982; lowest measured, 24.50 ft (7.47 m) below land-surface datum, Sept. 17, 1982.

WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
JUL 29	23.40	AUG 17	23.45	SEP 17	24.50
		24	23.70	28	24.39

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), November 1942 measured depth 14 ft (4.3 m), cased with rock to 14 ft (4.3 m), open end. November 1982 measured depth 12 ft (3.7 m).

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, 0.72 ft (0.22 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. Well has been dry occasionally.

WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 11	6.85	DEC 10	5.00	FEB 12	5.66	APR 11	4.26	JUN 12	5.64	AUG 10	8.39
26	4.82	26	5.44	25	6.00	26	4.42	26	6.30	25	9.14
NOV 10	4.97	JAN 12	5.25	MAR 10	6.04	MAY 11	4.93	JUL 11	6.85	SEP 11	9.70
27	4.88	26	5.70	25	4.77	26	4.82	26	7.98	26	9.94

GROUND-WATER LEVELS
SOMERSET COUNTY--Continued

450234069525701. Local number, Sm 48.

LOCATION.--Lat 45°02'34", long 69°52'57", Hydrologic Unit 01030003, 500 ft (152 m) west of State Highway 16, 0.6 mi (1.0 km) south of the end of the Bingham-Concord bridge, and 1.0 mi (1.6 km) south of Bingham.

Owner: Bingham Water District.

AQUIFER.--Stratified sand and gravel (ice-contact deposits) of Pleistocene age.

WELL CHARACTERISTICS.--Drilled observation water-table well, diameter 2.5 in. (0.06 m), depth 45 ft (13.7 m), cased with iron pipe, open end.

DATUM.--Altitude of land-surface datum is 350 ft (107 m). Measuring point: Top of casing 0.6 ft (0.18 m) above land-surface datum.

REMARKS.--Water levels may be affected by pumping of nearby municipal well.

PERIOD OF RECORD.--July 1981 to current year. Water levels prior to October 1981 have not been published, but are available in the files of the Geological Survey.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 3.70 ft (1.13 m) below land-surface datum, Mar. 29, 1982; lowest measured, 11.05 ft (3.37 m) below land-surface datum, Aug. 15, 1982.

WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 21	8.50	DEC 14	8.06	FEB 15	10.00	APR 15	10.10	JUN 14	9.80	AUG 15	11.05
NOV 01	8.04	JAN 07	9.80	24	10.10	28	5.80	29	10.30	30	10.10
18	7.80	13	9.50	MAR 18	10.22	MAY 11	6.10	JUL 14	10.60	SEP 20	11.00
DEC 04	8.32	FEB 02	9.90	29	3.70	28	8.00	AUG 01	10.90		

454105070170201. Local number, Sm 49.

LOCATION.--Lat 45°41'05", long 70°17'02", Hydrologic Unit 01030001, in Dennistown, about 0.6 mi (1.0 km) north of road to Crocker Pond, on U.S. Highway 201.

Owner: Stephen C. Coleman.

AQUIFER.--Glacial till of Pleistocene age.

WELL CHARACTERISTICS.--Dug observation water-table well, diameter 36 in. (0.91 m), depth 15.0 ft (4.6 m), cased with field stone to 15 ft (4.6 m), open end.

DATUM.--Altitude of land-surface datum is 1430 ft (436 m). Measuring point: Top of board cover at land-surface datum.

PERIOD OF RECORD.--May 1981 to current year. Water levels prior to October 1981 have not been published, but are available in the files of the Geological Survey.

EXTREMES FOR PERIOD OF RECORD.--Highest water level, overflowed, Apr. 28 and May 13, 1982; lowest, dry, Sept. 15, 1981, Aug. 14, 27, Sept. 14, 27, 1982.

WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 14	6.90	DEC 14	10.60	FEB 13	13.38	APR 15	4.30	JUN 13	11.20	AUG 14	F
27	3.20	24	11.50	27	14.09	28	Q	29	12.30	27	F
NOV 15	3.59	JAN 14	12.24	MAR 15	13.40	MAY 13	Q	JUL 14	13.10	SEP 14	F
29	8.02	26	12.30	29	11.48	26	3.10	26	13.70B	27	F

B - Pumped recently
F - Dry
Q - Flowing

454105070170202. Local number, Sm 49A.

LOCATION.--Lat 45°41'05", long 70°17'02", Hydrologic Unit 01030001, in Dennistown, about 0.6 mi (0.96 km) north of road to Crocker Pond, on U.S. Highway 201.

Owner: Stephen C. Coleman.

AQUIFER.--Glacial till of Pleistocene age.

WELL CHARACTERISTICS.--Dug observation water-table well, diameter 36 in. (0.91 m) depth 14 ft (4.3 m), cased with field stone to 14 ft (4.3 m), open end.

DATUM.--Altitude of land-surface datum is 1440 ft (439 m). Measuring point: Chiseled square on top of board set across well 0.5 ft (0.15 m) above land-surface datum.

PERIOD OF RECORD.--June 1981 to current year. Water levels prior to October 1981 have not been published, but are available in the files of the Geological Survey.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 1.04 ft (0.32 m) below land-surface datum, Apr. 15, 1982; lowest measured, 6.95 ft (2.12 m) below land-surface datum, Aug. 14, 1982.

WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 14	2.59	DEC 14	1.60	FEB 13	2.00	APR 15	1.04	JUN 13	1.74	AUG 14	6.95
27	1.59	24	1.60	27	1.98	28	1.10	29	1.70	27	6.50
NOV 15	1.44	JAN 14	1.76	MAR 15	2.00	MAY 13	1.33	JUL 14	3.34	SEP 14	6.30
29	1.58	26	2.00	29	1.49	26	1.40	26	5.00B	27	6.50

B - Pumped recently

WALDO COUNTY

442858068593201. Local number, Wo 78.

LOCATION.--Lat 44°28'58", long 68°59'32", Hydrologic Unit 01050002, near intersection of Smart and Achorn Roads in Belfast.

Owner: Belfast Water District.

AQUIFER.--Glacial sand and gravel (ice-contact deposits) of Pleistocene age.

WELL CHARACTERISTICS.--Drilled water-table production well, diameter 18 in. (0.45 m) depth 42 ft (12.8 m), screened 27 to 42 ft (8.2 to 12.8 m).

DATUM.--Altitude of land-surface datum is 200 ft (61 m). Measuring point: Base of pump 1.4 ft (0.43 m) above land-surface datum.

REMARKS.--Water levels may be affected by pumping.

PERIOD OF RECORD.--February 1980 to current year. Water levels prior to the October 1981 have not been published, but are available in the files of the Geological Survey.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 9.2 ft (2.80 m) below land-surface datum, Apr. 13, 1982; lowest measured, 15.9 ft (4.85 m) below land-surface datum, July 14, 1981.

WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 06	10.1	DEC 01	9.4	FEB 02	9.8	APR 06	9.4	JUN 02	11.0	AUG 03	13.1
13	9.9	08	9.5	10	9.6	13	9.2	08	11.1	10	12.4
20	9.9	15	9.4	17	9.3	21	9.4	15	11.9	17	12.7
27	9.8	22	9.8	24	9.8	28	9.5	22	12.2	24	12.8
NOV 03	9.6	29	9.5	MAR 02	9.8	MAY 04	9.7	29	12.6	31	12.8
10	9.8	JAN 05	9.4	09	9.8	11	9.9	JUL 06	12.4	SEP 07	12.0
18	9.5	12	9.8	16	10.1	17	10.4	13	12.8	14	13.4
24	9.5	20	9.6	23	9.8	25	10.8	20	13.4	21	12.8
		26	9.6	31	9.9			27	13.1	28	13.2

GROUND-WATER LEVELS
WALDO COUNTY--Continued

442858068593202. Local number, Wo 79.

LOCATION.--Lat 44°28'58", long 68°59'32", Hydrologic Unit 01050002, near intersection of Smart and Achorn Roads in Belfast.

AQUIFER.--Glacial sand and gravel (ice-contact deposits) of Pleistocene age.

WELL CHARACTERISTICS.--Wash-bored observation water-table well, diameter 2 in. (0.05 m), July 1955 constructed depth 54 ft (16.5 m), cased with iron pipe. November 1982 measured depth 39 ft (11.9 m).

DATUM.--Altitude of land-surface datum is 200 ft (61 m). Measuring point: Top of casing 1.1 ft (0.34 m) above land-surface datum.

REMARKS.--Water levels maybe affected by pumping of nearby municipal well.

PERIOD OF RECORD.--February 1980 to current year. Water levels prior to October 1981 have not been published, but are available in the files of the Geological Survey.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 5.7 ft (1.74 m) below land-surface datum, Apr. 13, 1982; lowest measured 14.6 ft (4.45 m) below land-surface datum, Dec. 22, 1980.

WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 06	6.7	DEC 01	5.9	FEB 02	6.1	APR 06	5.9	JUN 02	7.3	AUG 03	9.7
13	6.4	08	5.8	10	6.0	13	5.7	08	7.7	10	9.0
20	6.7	15	6.1	17	5.9	21	5.9	15	8.4	17	9.3
27	6.2	22	6.3	24	6.1	28	6.0	22	8.7	24	9.4
NOV 03	6.3	29	6.1	MAR 02	6.1	MAY 04	6.1	29	9.1	31	9.3
10	6.3	JAN 05	6.1	09	6.1	11	6.3	JUL 06	9.1	SEP 07	8.8
18	6.1	12	6.1	16	6.4	17	6.8	13	9.4	14	9.9
24	6.0	20	6.1	23	6.1	25	7.2	20	9.8	21	9.5
		26	6.2	31	6.4			27	9.4	28	9.5

WASHINGTON COUNTY

444240067283501. Local number, W 1.

LOCATION.--Lat 44°42'39", long 67°28'39", 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), July 1958 reported depth 54 ft (16.5 m), open hole. November 1982 measured depth 72 ft (21.9 m).

DATUM.--Altitude of land-surface datum is 140 ft (43 m). Measuring point: Top of 1 inch hole in well cover at land-surface datum, which is 1.5 ft (0.46 m) above the general land surface. Previously reported without a land-surface correction.

REMARKS.--Well is infrequently used for stock supply.

PERIOD OF RECORD.--July 1958 to August 1973, October 1974 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 1981 TO SEPTEMBER 1982

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 02	9.10	DEC 15	7.81	FEB 01	10.85	MAR 31	6.77	JUN 01	10.23	JUL 30	10.66
31	7.91	30	10.02	18	10.14	APR 16	6.65	17	11.30	AUG 31	10.17
NOV 17	8.56	JAN 18	10.07	MAR 03	11.11	MAY 02	8.11	30	9.79	SEP 18	11.08
30	9.11			16	6.95	18	10.32	JUL 19	11.25	29	11.26

444955067000501. Local number, W 2.

LOCATION.--Lat 44°49'53", 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), July 1957 constructed depth 50 ft (15.2 m), screened 40 to 50 ft (12.5 to 15.5 m). July 1958 measured depth 45 ft (13.7 m). November 1982 measured depth 37 ft (11.3 m).

DATUM.--Altitude of land-surface datum is 50 ft (15 m). Measuring point: Top of casing at land-surface datum, which is 1.6 ft (0.49 m) above the general land surface. Previously reported without a land-surface correction.

PERIOD OF RECORD.--July 1958 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 8.02 ft (2.44 m) below land-surface datum, Jan. 27, 1982; 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 1981 TO SEPTEMBER 1982

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 25	15.01	DEC 28	15.65	MAR 26	8.26	APR 29	9.84	JUN 25	12.65	AUG 26	13.98
NOV 26	14.95	JAN 27	8.02	APR 25	9.70	MAY 25	11.29	JUL 26	13.22	SEP 26	14.91

450713067162801. Local number, W 796.

LOCATION.--Lat 45°07'13", long 67°16'28", Hydrologic Unit 01050001, in Calais, on Charlotte Road, about 2.25 mi (3.62 km) south of U.S. Highway 1.

Owner: U.S. Government (Moosehorn National Wildlife Refuge).

AQUIFER.--Bedrock of Devonian age.

WELL CHARACTERISTICS.--Drilled observation artesian well, diameter 6 in. (0.15 m), September 1967 reported depth 150 ft (45.7 m), cased with steel to 21 ft (6.4 m), open hole. November 1982 measured depth 146 ft (44.5 m).

DATUM.--Altitude of land-surface datum is about 130 ft (39.6 m). Measuring point: Top of casing at land-surface datum, which is 0.8 ft (0.24 m) above the general land surface. Previously reported without a land-surface correction.

PERIOD OF RECORD.--September 1980 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level observed, overflowed Feb. 14, Sept. 25, and Dec. 16, 1981, and Apr. 16, 1982; lowest measured, 5.34 ft (1.63 m) below land-surface datum, Sept. 16, 1980.

WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 16	3.19	DEC 16	Q	MAR 25	1.11	MAY 19	2.75	JUN 25	2.89	AUG 16	3.70
25	1.57	27	0.87	APR 16	Q	26	3.09	JUL 21	2.49	27	3.01
NOV 16	2.49	MAR 16	0.54	30	0.69	JUN 15	3.29	27	2.63	SEP 18	4.49
27	1.37									28	3.18

Q- Flowing

GROUND-WATER LEVELS

YORK COUNTY

434822070482501. Local number, Y 1.

LOCATION.--Lat 43°48'19", long 70°48'28", Hydrologic Unit 01060002, on Maple 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), November 1943 measured depth 24 ft (7.3 m), cased with brick to 24 ft (7.3 m), open end. November 1982 measured depth 21 ft (6.4 m).

DATUM.--Altitude of land-surface datum is 370 ft (113 m). Measuring point: Upper edge of notch in house floor 0.67 ft (0.20 m) above land-surface datum.

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

EXTREMES FOR PERIOD OF RECORD.--Highest water level, 7.25 ft (2.21 m) below land-surface datum, Mar. 17, 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 1981 TO SEPTEMBER 1982
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	13.96	9.43	9.97	---	13.47	13.28	8.38	9.30	8.89	---	12.38	14.44
10	13.88	10.43	9.88	---	12.40	13.56	8.78	9.80	8.98	10.77	12.53	14.90
15	13.91	10.95	10.41	---	12.33	12.98	8.68	10.40	9.38	11.43	12.29	15.31
20	14.05	11.16	10.87	---	12.55	9.88	8.58	10.86	9.91	11.83	12.63	15.63
25	12.03	9.34	---	12.31	12.88	8.69	8.93	11.39	10.43	12.31	13.11	15.87
EOM	8.78	9.53	---	13.06	13.13	8.63	9.06	11.78	---	12.39	13.89	16.10

WTR YR 1982 HIGH 8.38 APR 4 and 5 LOW 16.10 SEP 30

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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 2.54×10^{-2}	millimeters (mm) 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 4.047×10^{-1} 4.047×10^{-3}	square meters (m ²) square hectometers (hm ²) 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 3.785×10^0 3.785×10^{-3}	liters (L) cubic decimeters (dm ³) cubic meters (m ³)
million gallons	3.785×10^3 3.785×10^{-3}	cubic meters (m ³) cubic hectometers (hm ³)
cubic feet (ft ³)	2.832×10^1 2.832×10^{-2}	cubic decimeters (dm ³) cubic meters (m ³)
cfs-days	2.447×10^3 2.447×10^{-3}	cubic meters (m ³) cubic hectometers (hm ³)
acre-feet (acre-ft)	1.233×10^3 1.233×10^{-3} 1.233×10^{-6}	cubic meters (m ³) cubic hectometers (hm ³) cubic kilometers (km ³)
<i>Flow</i>		
cubic feet per second (ft ³ /s)	2.832×10^1 2.832×10^1 2.832×10^{-2}	liters per second (L/s) cubic decimeters per second (dm ³ /s) cubic meters per second (m ³ /s)
gallons per minute (gal/min)	6.309×10^{-2} 6.309×10^{-2} 6.309×10^{-5}	liters per second (L/s) cubic decimeters per second (dm ³ /s) cubic meters per second (m ³ /s)
million gallons per day	4.381×10^1 4.381×10^{-2}	cubic decimeters per second (dm ³ /s) 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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