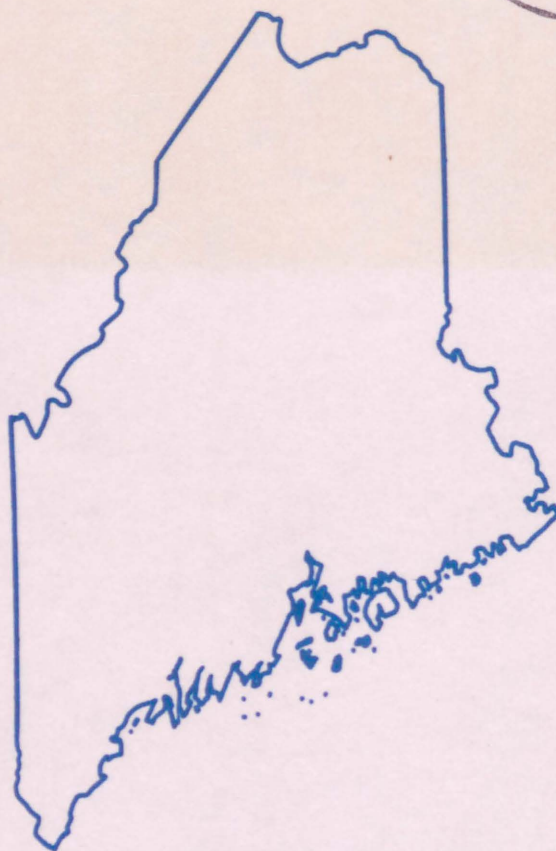
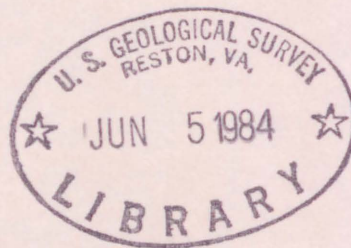


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Water Resources Data Maine Water Year 1983



U.S. GEOLOGICAL SURVEY WATER-DATA REPORT ME-83-1
Prepared in cooperation with the State of Maine
and with other agencies

CALENDAR FOR WATER YEAR 1983

1982

OCTOBER

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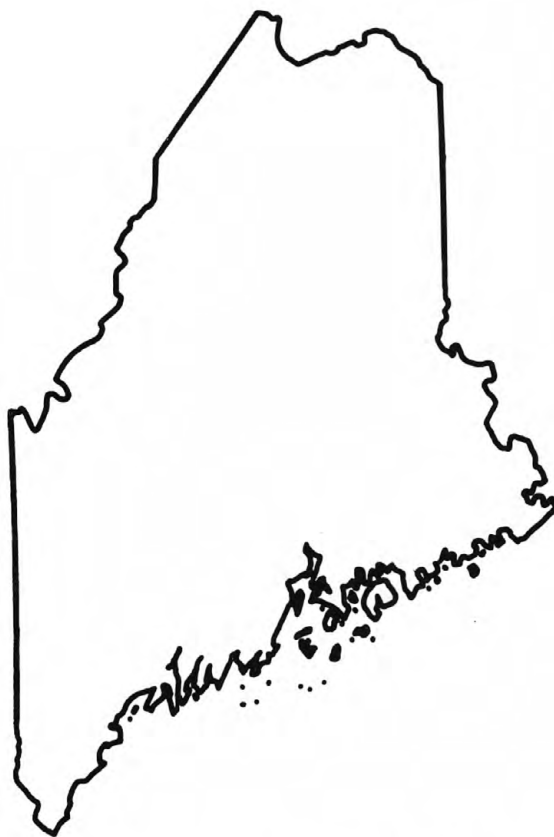
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Water Resources Data Maine

Water Year 1983

by R.A. Morrill, C.R. Haskell, J.T. Adamik, and W.B. Higgins



U.S. GEOLOGICAL SURVEY WATER-DATA REPORT ME-83-1
Prepared in cooperation with the State of Maine
and with other agencies

UNITED STATES DEPARTMENT OF THE INTERIOR

WILLIAM P. CLARK, Secretary

GEOLOGICAL SURVEY

Dallas L. Peck, Director

For additional information write to
Chief Maine Office
Water Resources Division
U.S. Geological Survey
26 Ganneston Drive
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:

Richard A. Fontaine
Gordon R. Keezer
Robert G. Lippert

Thomas J. Maloney
Mary A. Morgan

Gloria L. Morrill typed the text of the report.

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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GAGING STATIONS, IN DOWNSTREAM ORDER, FOR WHICH
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Letter after station name designates type of data: (d) discharge, (c) chemical
(b) biological, (m) microbiological, (t) water temperature, (e) elevation, stage,
or contents

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INTRODUCTION

Water resources data for the 1983 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 56 gaging stations; stage only records for 2 gaging stations; contents for 17 lakes and reservoirs; water quality for 11 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-83-1." 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.
Cobboossee Watershed District, T. U. Gordon, Executive Director.
Town of Wilton, N. U. Gould, 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:

Bangor Hydro-Electric Company
Boise Cascade
Central Maine Power Company
Georgia - Pacific Corporation
Great Northern Paper Company
Kennebec Water Power Company
Maine Public Service Company
S.D. Warren Company
Swift River 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."

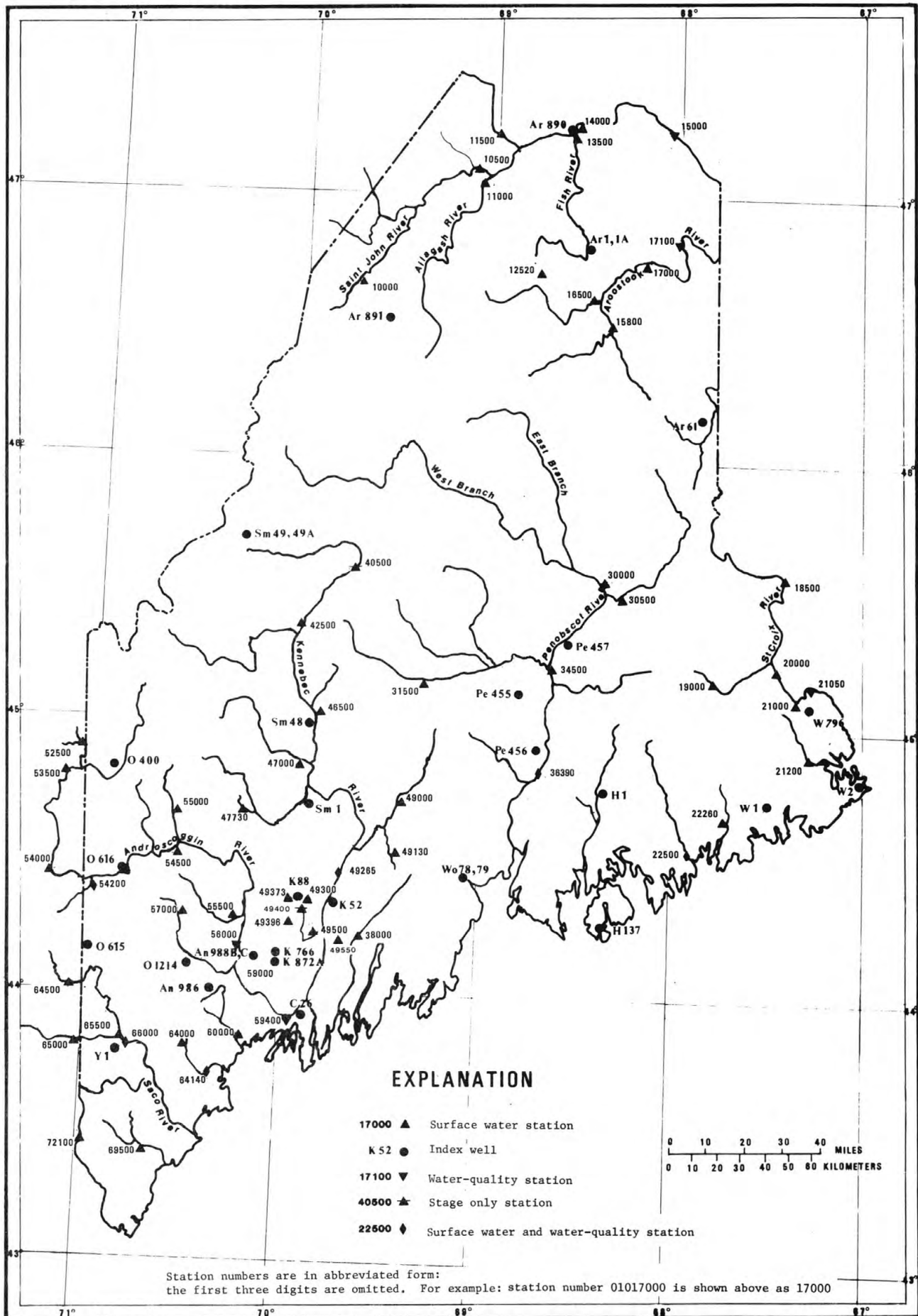


Figure 1. Location of stations

SUMMARY OF HYDROLOGIC CONDITIONS

The 1983 water year was characterized by above-normal precipitation, and by runoff that was 10 to 25 percent above normal 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.

Dry conditions prevailed at the start of the water year. October precipitation was only 38 percent of normal. Ground-water levels were below normal and streamflows ranged from far below normal in central Maine to near normal elsewhere. Cooler temperatures and above-normal precipitation during November caused increases in streamflow and ground-water levels. By December, streamflows were normal to excessive. Ground-water levels were in the normal range except in southwestern Maine where they remained below normal. Near-normal precipitation occurred during January, much of which was rain. As a result, streamflows were above normal over most of the State and above-normal ground-water levels were observed in the southwest. By the end of February, however, hydrologic conditions were in their normal ranges.

Precipitation from March through May was appreciably above normal. By April, there were flooded lowlands in the St. John, Aroostook, Penobscot, and Kennebec River basins. New peak flow of record occurred at the long-term gaging stations on Allagash River near Allagash, Aroostook River near Masardis, Aroostook River at Washburn, Kennebec River at the Forks, and Mousam River near West Kennebunk and at the short-term gaging stations on Pleasant River near Epping, Penobscot River at Eddington, Johnson Brook at South Albion, Mill Stream at Winthrop, Jock Stream at South Monmouth, and Togus Stream at Togus. Ground-water levels responded to the above-normal amounts of precipitation and rose to the above-normal range in southern and northern Maine. By May, streamflows were near normal and ground-water levels remained in, or rose into, the above-normal range, except in northeastern and extreme western Maine, where they were near normal.

June and September precipitation totals were below normal, while July and August amounts were above normal. Ground-water levels and streamflow ranged from normal to above normal in June and declined in July. Runoff in July was in the normal range statewide, but ground-water levels remained above normal in the north and southwest. The declines of streamflow and ground-water levels which occurred through August caused below-normal conditions over the northern half of the State. Noteworthy exceptions were the persistent above-normal ground-water levels in the southwest. The recession of hydrologic conditions continued during September. Conditions were below normal over most of the State at the end of the water year except in the west and in coastal areas where they were near normal.

Usable storage in seven reservoir systems in Maine totaled $81 \times 10^9 \text{ ft}^3$ at the end of October 1982. This was 57 percent of capacity, and 58 percent of normal for that date. Storage increased to $101 \times 10^9 \text{ ft}^3$ by the end of December, about normal for the date. By the end of February, storage had declined to $88 \times 10^9 \text{ ft}^3$, but then increased to a maximum amount of $180 \times 10^9 \text{ ft}^3$ by the end of May. Storage declined to the end of the water year, and at the end of September had dropped to $100 \times 10^9 \text{ ft}^3$: which was 56 percent of capacity and 96 percent of normal.

Figure 2 shows a comparison of the monthly and yearly mean discharges for the 1983 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.

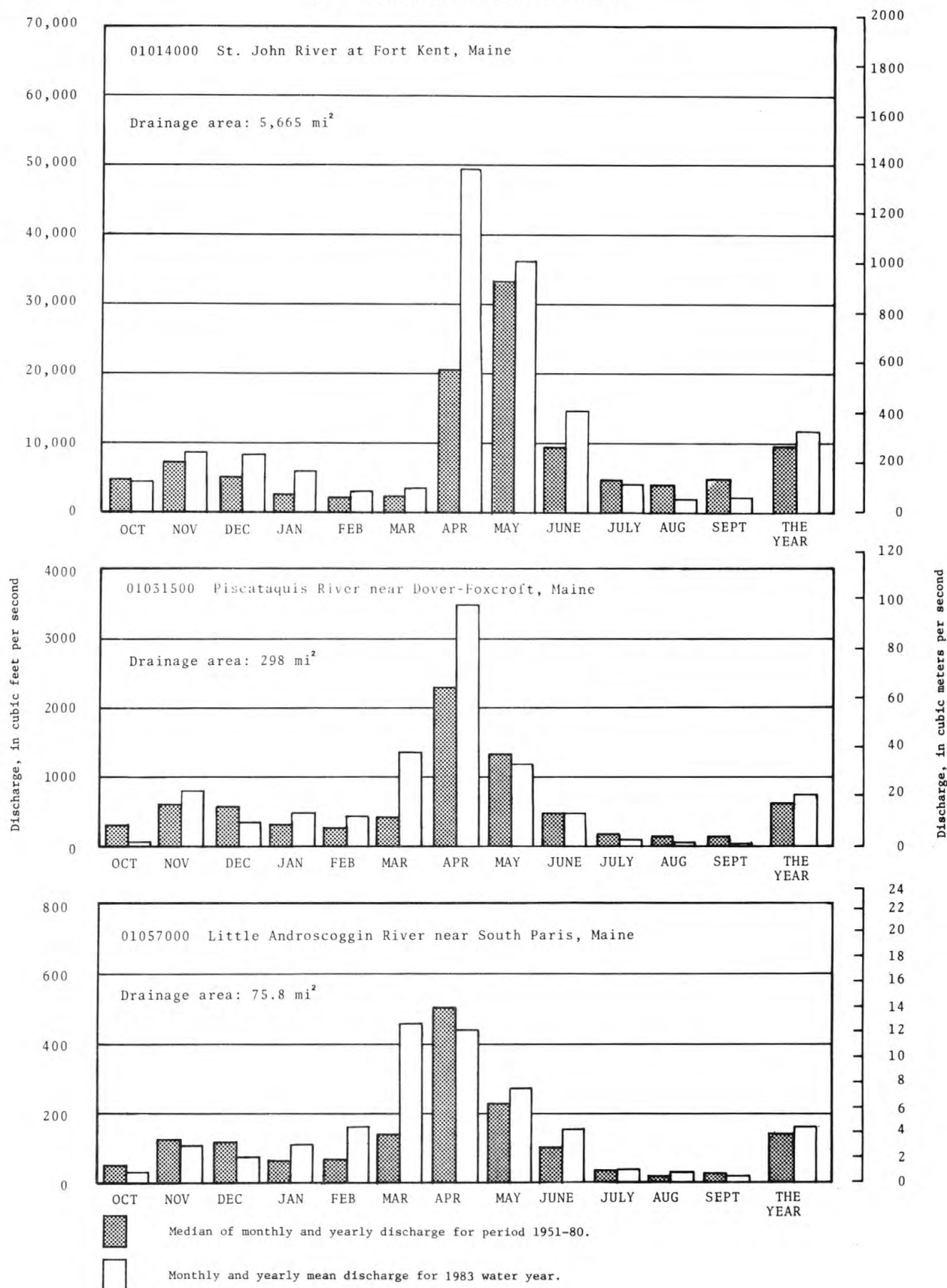


Figure 2.-- Comparison of discharge at three long-term index gaging stations during 1983 water year with median discharge for period 1951-80.

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 .02832 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 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.

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).

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.

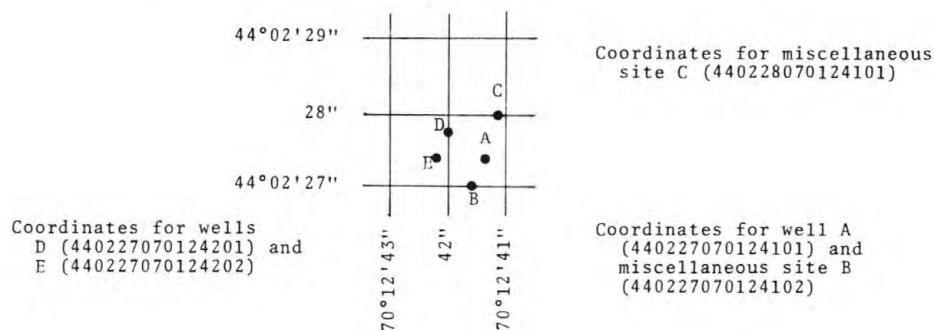


Figure 3.--System for numbering wells and miscellaneous sites (latitude and longitude)

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.

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.

Revisions

If errors in published water-quality records are discovered after publication, appropriate updates are made to the Water-Quality File in the U.S. Geological Survey's computerized data system, WATSTORE, and subsequently by monthly transfer of update transactions to the U.S. Environmental Protection Agency's STORET system. Because the usual volume of updates makes it impractical to document individual changes in the State data-report series or elsewhere, potential users of U.S. Geological Survey water-quality data are encouraged to obtain all required data from the appropriate computer file to insure the most recent updates.

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.

ACCESS TO WATSTORE DATA

The National WATER Data STORAGE and RETrieval System (WATSTORE) was established for handling water data collected through the activities of the U.S. Geological Survey and to provide for more effective and efficient means of releasing the data to the public. The system is operated and maintained on the central computer facilities of the Survey at its National Center in Reston, Virginia.

WATSTORE can provide a variety of useful products ranging from simple data tables to complex statistical analyses. A minimal fee, plus the actual computer cost incurred in producing a desired product, is charged to the requester. Information about the availability of specific types of data, the acquisition of data or products, and user charges can be obtained locally from each of the Water Resources Division's district offices (see address given on the back of the title page).

General inquiries about WATSTORE may be directed to:

Chief Hydrologist
U.S. Geological Survey
437 National Center
Reston, Virginia 22092

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. Ehlke, 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. I. 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", Aroostook County, Hydrologic Unit 01010001, on right bank in T. 12, R. 15, 0.1 mi downstream from Ninemile Brook, 0.4 mi downstream from site of Ninemile Bridge, and 11 mi northwest of Clayton Lake Post Office.

DRAINAGE AREA.--1,341 mi².

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.

REVISED RECORDS.--WDR ME-82-1: Drainage area.

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

REMARKS.--Records good except those for winter period, which are fair. No gage-height record Nov. 21 to Feb 16. Several observations of water temperature and specific conductance were made during the year.

AVERAGE DISCHARGE.--33 years, 2,326 ft³/s (23.55 in/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 44,400 ft³/s May 1, 1974, gage height, 12.63 ft; maximum gage height, 20.01 ft Apr. 2, 1976 (backwater from ice); minimum, 59 ft³/s Sept. 5, 1953; minimum gage height, 0.25 ft Sept. 5, 1953, Sept. 11, 12, 1960.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 32,500 ft³/s Apr. 27, gage height, 10.64 ft; minimum discharge 98 ft³/s Aug. 29, gage height, 0.38 ft.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1490	560	3500	1950	570	205	1400	18900	11600	293	347	168
2	1750	1100	6500	1650	560	205	1300	19900	10400	281	324	160
3	2310	2750	6000	1400	550	210	1200	18900	7650	358	1040	204
4	2100	6200	5200	1230	560	210	1150	19200	5600	470	1340	224
5	1680	4900	4600	1050	600	205	1100	19600	4300	392	964	189
6	1340	3700	3250	950	620	200	1130	16100	3550	332	660	159
7	1090	2800	2400	860	640	195	1250	12500	3850	319	504	152
8	966	2300	2100	800	590	190	1450	9520	4750	294	405	143
9	1350	2000	1800	820	510	190	1800	8580	4160	264	384	131
10	2300	1800	1580	900	460	185	2500	10700	3290	241	375	128
11	2200	1900	1420	1250	420	185	4000	9810	2650	238	485	127
12	1830	2350	1320	1800	380	240	5400	7840	2210	213	429	122
13	1550	3200	1220	2600	350	235	6000	6400	1890	200	336	122
14	1390	4890	1150	2450	325	225	6300	5830	1670	184	279	120
15	1320	4840	1350	2150	305	215	6500	5640	1550	180	237	111
16	1330	3800	1700	1900	290	205	6700	5300	2010	233	209	104
17	1320	2950	1600	1750	275	200	8000	4850	2550	503	190	103
18	1250	2480	1450	1500	265	190	10500	4130	2910	466	174	104
19	1100	2040	1350	1350	255	210	15200	3440	2950	360	168	136
20	1000	1720	1270	1200	245	350	21200	3030	2350	276	207	230
21	920	2400	1200	1100	240	550	22300	4680	1750	264	218	322
22	850	3400	1150	1000	230	900	18500	6000	1310	829	193	391
23	790	3200	1100	920	225	1500	14700	4930	994	2370	160	792
24	730	2750	1070	850	220	2450	13900	4230	785	1800	139	1260
25	685	2050	1120	800	220	2700	19300	4250	632	1380	123	957
26	640	1450	1250	780	215	2600	31600	4020	531	1140	115	691
27	600	1350	1400	770	210	2450	31100	3470	464	814	108	528
28	580	1380	1750	720	210	2250	24300	3630	417	648	101	426
29	550	1480	2150	680	---	2000	19700	4780	370	570	103	361
30	530	1900	2500	630	---	1750	19200	4510	329	488	106	312
31	510	---	2350	590	---	1520	---	8220	---	408	139	---
TOTAL	39051	79640	67800	38400	10540	24920	318680	262890	89472	16808	10562	8977
MEAN	1227	2655	2187	1239	376	804	10620	8480	2982	542	341	299
MAX	2310	6200	6500	2600	640	2700	31600	19900	11600	2370	1340	1260
MIN	510	560	1070	590	210	185	1100	3030	329	180	101	103
CFSM	.92	1.98	1.63	.92	.28	.60	7.92	6.32	2.22	.40	.25	.22
IN.	1.06	2.21	1.88	1.07	.29	.60	8.84	7.29	2.48	.47	.29	.25

CAL YR 1982 TOTAL 839264 MEAN 2299 MAX 30000 MIN 96 CFSM 1.71 IN 23.28
WTR YR 1983 TOTAL 966740 MEAN 2649 MAX 31600 MIN 101 CFSM 1.98 IN 26.82

ST. JOHN RIVER BASIN

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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 downstream from Little Black River, and 2.8 mi upstream from Allagash River.

DRAINAGE AREA.--2,680 mi².

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

REVISED RECORDS.--WDR ME-82-1: Drainage area.

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

AVERAGE DISCHARGE.--37 years (water years 1947-83), 4,781 ft³/s (24.23 in/yr).

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

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

Date	Time	Discharge (ft ³ /s)	Gage height (ft)	Date	Time	Discharge (ft ³ /s)	Gage height (ft)
Apr. 18	0900	ice jam	* 21.97	Apr. 26	2200	82,100	18.18
Apr. 19	0200	* 85,600	18.52				

Minimum discharge 196 ft³/s Aug. 27, gage height, 3.56 ft.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	2900	913	3430	3700	1600	630	3000	40200	19800	940	940	293
2	2730	1130	6300	3300	1530	620	2800	42500	19800	848	861	494
3	3270	2850	12100	2900	1500	610	2650	40900	15500	785	797	687
4	3730	9300	11600	2500	1520	600	2550	39700	11900	748	1130	1030
5	3220	11700	10500	2250	1580	600	2450	42500	9330	810	1870	912
6	2590	9100	8040	2050	1700	605	2350	34600	7670	900	1460	724
7	2130	7140	5600	1950	1800	600	2380	26300	7340	810	1110	565
8	1870	5800	5000	1830	2100	585	2500	20100	8480	736	887	511
9	1810	4790	4250	1780	2000	580	2750	17100	8260	736	713	501
10	2520	4040	3750	1900	1750	575	3300	20900	6860	701	601	494
11	3700	4190	3300	2200	1600	570	4300	22200	5650	633	538	491
12	3350	6800	3000	2900	1450	690	8000	17900	4850	590	518	488
13	2800	7570	2750	4000	1350	800	9400	14600	4130	569	590	461
14	2460	6300	2600	5000	1250	770	9800	12700	3570	558	518	387
15	2300	5040	2500	4800	1170	730	10300	12000	3220	579	461	328
16	2300	4070	2800	4400	1100	680	11000	11200	2970	954	394	291
17	2300	3440	3200	3800	1040	640	12500	10100	3480	822	342	267
18	2260	2950	3100	3400	990	620	53500	8750	5370	689	317	265
19	1870	2780	2950	3000	950	640	76200	7460	8520	835	301	385
20	1520	2780	2850	2750	890	720	67200	6610	6330	772	263	462
21	1410	3270	2700	2500	840	1000	54500	7270	4400	724	242	496
22	1330	5060	2600	2300	800	1700	42900	11100	3200	995	221	748
23	1240	6300	2450	2200	760	2800	32800	10500	2430	2680	271	1450
24	1170	5570	2350	2050	730	4000	28800	9260	1970	4340	263	1860
25	1110	4430	2300	2000	700	5000	38200	9330	1620	3380	235	2150
26	1070	2950	2450	2020	680	4900	74600	9330	1360	2800	208	1630
27	1040	2610	2800	2000	670	4800	78100	8180	1230	2200	228	1210
28	992	2680	3300	1930	650	4450	59600	8370	1230	1680	249	967
29	964	2870	4000	1800	---	4000	43900	11500	1200	1380	249	790
30	928	2920	4500	1750	---	3600	40500	11000	1070	1220	235	669
31	900	---	4200	1650	---	3300	---	13100	---	1070	242	---
TOTAL	63784	141343	133270	82610	34700	52415	782830	557260	182740	37484	17254	22006
MEAN	2058	4711	4299	2665	1239	1691	26090	17980	6091	1209	557	734
MAX	3730	11700	12100	5000	2100	5000	78100	42500	19800	4340	1870	2150
MIN	900	913	2300	1650	650	570	2350	6610	1070	558	208	265
CFSM	.77	1.76	1.60	.99	.46	.63	9.74	6.71	2.27	.45	.21	.27
IN.	.89	1.96	1.85	1.15	.48	.73	10.87	7.74	2.54	.52	.24	.31

CAL YR 1982	TOTAL	1675307	MEAN	4590	MAX	62700	MIN	286	CFSM	1.71	IN	23.25
WTR YR 1983	TOTAL	2107696	MEAN	5775	MAX	78100	MIN	208	CFSM	2.16	IN	29.26

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 upstream from mouth and village of Allagash.

DRAINAGE AREA.--1,229 mi², not including 249 mi² 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 1231: 1911. WDR ME-82-1: Drainage area.

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

REMARKS.--Records good except those for winter period, which are fair. Some regulation for recreational purposes since May 1969 by Churchill Lake, usable capacity, about 3.4 billion ft³, 58 mi upstream. Several observations of water temperature and specific conductance were made during the year.

AVERAGE DISCHARGE.--52 years (water years 1932-83), 1,942 ft³/s (21.35 in/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 36,900 ft³/s Apr. 18, 1983, gage height, 13.68 ft; maximum gage height, 19.48 Apr. 18, 1983 (backwater from ice); minimum discharge, 87 ft³/s Sept. 11, 1960.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 36,900 ft³/s Apr. 18, gage height, 13.68 ft; maximum gage height, 19.48 ft Apr. 18 (backwater from ice); minimum discharge, 409 ft³/s Sept. 17, gage height, 2.26 ft.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1210	486	1920	1300	750	380	1550	13200	7070	1160	1100	1320
2	1680	474	1860	1320	740	370	1470	12700	6750	1100	1090	1290
3	1850	508	1900	1270	735	380	1400	12600	6180	1080	1060	1160
4	1650	590	2520	1160	740	380	1300	12500	5680	1080	1010	1030
5	1470	966	3330	1050	760	375	1250	12200	5210	1080	954	867
6	1320	3680	3320	1000	790	355	1260	11000	4810	1170	905	749
7	1190	3570	3380	960	800	345	1240	10000	6260	1280	924	698
8	1120	3180	3100	920	810	335	1270	8570	6570	1170	957	860
9	1220	2910	2630	890	790	330	1330	7200	5560	1090	846	777
10	1350	2530	1980	890	760	325	1550	6650	4900	1000	771	694
11	1280	2240	1750	910	730	320	1950	5970	4290	953	711	646
12	1200	2050	1600	950	700	325	2450	5270	3790	933	667	601
13	1140	2280	1420	1020	660	335	2800	4820	3450	926	633	552
14	1110	3130	1300	1100	640	350	3100	4560	3170	1160	605	495
15	1090	2960	1250	1230	620	350	3400	4350	3020	1180	594	457
16	1090	2740	1240	1400	590	335	4500	4180	2940	1380	583	429
17	1060	2490	1280	1370	565	330	12300	3890	2870	1250	565	420
18	966	2260	1270	1300	545	330	32100	3570	3290	1050	554	460
19	882	2050	1230	1230	525	350	28000	3420	3420	928	535	571
20	814	1910	1170	1180	500	425	21500	3360	3230	879	515	615
21	771	1840	1130	1140	485	560	17900	3820	2920	932	495	619
22	727	1970	1080	1100	470	650	15100	4050	2650	4060	468	1050
23	664	2300	1030	1030	450	900	12800	3870	2480	4140	467	2390
24	629	2730	980	980	440	1200	11500	3860	2290	2650	463	1930
25	603	2900	950	950	425	1400	15400	4030	2000	2500	449	1550
26	584	2610	920	950	420	1550	22800	3690	1780	2230	440	1310
27	561	2270	910	940	405	1600	21400	3380	1640	1780	485	1190
28	537	1880	925	910	395	1650	18300	3870	1540	1630	513	1100
29	526	1960	960	870	---	1700	14600	4520	1380	1520	474	1010
30	517	1990	1030	825	---	1670	13300	4140	1260	1370	474	941
31	503	---	1160	780	---	1620	---	6280	---	1190	558	---
TOTAL	31314	65454	50525	32925	17240	21530	288820	195520	112400	45851	20865	27781
MEAN	1010	2182	1630	1062	616	695	9627	6307	3747	1479	673	926
MAX	1850	3680	3380	1400	810	1700	32100	13200	7070	4140	1100	2390
MIN	503	474	910	780	395	320	1240	3360	1260	879	440	420
CFSM	.82	1.78	1.33	.86	.50	.57	7.83	5.13	3.05	1.20	.55	.75
IN.	.95	1.98	1.53	1.00	.52	.65	8.74	5.92	3.40	1.39	.63	.84

CAL YR 1982 TOTAL 707765 MEAN 1939 MAX 19800 MIN 360 CFSM 1.58 IN 21.42
WTR YR 1983 TOTAL 910225 MEAN 2494 MAX 32100 MIN 320 CFSM 2.03 IN 27.55

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

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

DRAINAGE AREA.--524 mi².

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

REVISED RECORDS.--WDR ME-82-1: Drainage area.

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

REMARKS.--Records excellent.

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

AVERAGE DISCHARGE.--32 years, 895 ft³/s (23.19 in/yr).

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

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 12,200 ft³/s Apr. 21, gage height, 13.77 ft; minimum, 133 ft³/s Aug. 30, Sept. 20, gage height, 2.35 ft.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	298	179	431	498	319	236	638	8530	1920	356	296	144
2	298	176	425	516	312	242	608	8250	1970	341	291	144
3	290	173	420	514	320	241	567	8070	1910	330	280	177
4	285	179	436	495	325	232	548	7840	1800	315	277	187
5	281	209	476	475	333	221	535	7690	1650	310	293	180
6	276	258	590	460	340	222	538	7260	1520	312	305	167
7	258	307	717	433	358	217	521	6310	1460	296	315	164
8	251	407	795	414	400	210	539	5440	1430	285	317	165
9	253	502	920	394	405	208	600	4770	1390	278	307	156
10	248	541	769	376	412	205	699	4340	1330	261	297	155
11	240	546	704	375	403	203	931	4230	1260	250	278	153
12	239	538	647	399	395	202	1140	4110	1170	238	271	151
13	243	544	594	431	382	216	1290	3880	1060	244	258	149
14	243	534	547	475	367	213	1380	3590	989	243	240	149
15	246	528	517	515	352	211	1440	3240	929	235	223	152
16	243	528	503	555	339	212	1560	2950	870	243	214	145
17	238	510	510	570	326	207	1990	2670	812	235	202	142
18	230	494	483	564	315	206	3860	2390	747	225	199	144
19	233	471	459	539	304	200	7970	2140	714	219	191	143
20	229	448	437	513	294	220	11600	1930	680	212	183	136
21	227	432	425	492	284	240	11900	1780	649	208	177	136
22	221	418	411	469	277	322	10900	1660	616	228	157	175
23	217	412	394	438	270	423	9300	1550	581	254	160	202
24	216	429	378	433	267	527	7930	1500	545	304	151	201
25	212	443	378	414	265	600	7450	1490	515	358	149	203
26	205	468	387	409	259	681	8700	1520	484	375	144	200
27	195	487	391	391	251	703	11100	1500	456	372	145	203
28	188	469	393	365	242	728	11300	1510	429	367	141	193
29	184	449	410	349	---	731	10100	1570	399	349	139	187
30	189	441	433	339	---	710	8990	1720	367	332	134	183
31	185	---	467	327	---	682	---	1870	---	313	135	---
TOTAL	7361	12520	15747	13937	9116	10725	136624	117300	30652	8888	6869	4986
MEAN	237	417	508	450	326	346	4554	3784	1022	287	222	166
MAX	298	546	820	570	412	731	11900	8530	1970	375	317	203
MIN	184	173	378	327	242	202	521	1490	367	208	134	136
CFSM	.45	.80	.97	.86	.62	.66	8.69	7.22	1.95	.55	.42	.32
IN.	.52	.89	1.12	.99	.65	.76	9.70	8.33	2.18	.63	.49	.35
CAL YR 1982 TOTAL	280518	MEAN	769	MAX	7820	MIN	139	CFSM	1.47	IN	19.91	
WTR YR 1983 TOTAL	374725	MEAN	1027	MAX	11900	MIN	134	CFSM	1.96	IN	26.60	

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 west from logging route 42, 1.0 mi west of its intersection with the Carr Pond Road, and 18 mi west of Portage.

DRAINAGE AREA.--13.9 mi².

PERIOD OF RECORD.--July 1982 to current year.

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

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

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 409 ft³/s Apr. 18, 1983, gage height, 14.47 ft; minimum discharge, 0.10 ft³/s Aug. 9, 1982, gage height, 9.27 ft.

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

Date	Time	Discharge (ft ³ /s)	Gage height (ft)	Date	Time	Discharge (ft ³ /s)	Gage height (ft)
Apr. 18	1200	* 409	14.47	Jun. 01	0300	124	12.16
Apr. 26	--	215	--	Jul. 22	0330	123	12.15

Minimum discharge, 0.53 ft³/s Aug. 26, 27, gage height, 10.04 ft.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	20	7.4	32	9.5	3.4	3.4	23	115	123	4.3	31	22
2	25	7.5	30	8.7	3.6	3.5	20	100	112	4.9	32	19
3	25	9.5	30	8.0	3.4	3.4	18	110	95	6.2	31	18
4	24	10	43	7.3	4.0	4.7	17	95	78	5.7	27	17
5	22	30	52	6.7	5.2	4.2	17	84	63	10	23	15
6	21	61	56	6.5	7.0	4.0	16	79	53	25	20	13
7	18	69	57	6.0	8.4	3.4	18	70	58	25	18	13
8	16	67	52	5.8	7.9	3.4	28	60	54	22	17	13
9	19	60	45	5.5	7.3	3.2	36	57	46	20	15	12
10	19	51	37	5.2	6.7	3.0	46	59	39	17	13	11
11	18	44	31	15	6.2	3.2	53	57	34	14	11	11
12	17	38	27	43	5.8	4.0	70	52	30	12	9.4	9.7
13	16	52	25	32	5.2	6.0	73	53	27	10	8.0	7.5
14	17	66	20	24	4.9	9.5	80	58	24	9.3	7.0	3.2
15	19	66	15	19	4.6	11	84	56	21	8.6	6.1	2.8
16	19	61	18	16	4.4	9.4	87	52	19	8.3	5.2	2.4
17	18	53	23	14	4.0	9.3	155	46	18	7.6	4.5	2.5
18	17	46	33	12	3.8	9.0	369	41	18	6.5	4.1	2.9
19	15	39	19	10	3.6	8.4	269	37	17	5.4	3.8	3.0
20	14	34	16	9.0	3.5	12	208	35	15	4.7	3.4	3.0
21	13	31	13	7.8	3.4	17	175	36	13	6.3	2.9	3.0
22	12	35	12	7.0	3.2	25	140	36	12	92	2.6	16
23	11	44	12	6.5	3.1	35	112	35	11	78	2.3	28
24	11	58	11	7.1	3.0	53	99	45	9.8	75	1.9	28
25	9.9	62	11	8.0	2.9	53	156	57	8.4	77	1.2	27
26	9.4	59	14	6.8	2.9	49	205	57	7.4	65	.59	26
27	8.9	52	20	5.8	2.8	44	200	53	6.7	53	3.6	24
28	8.6	43	15	5.2	2.7	39	170	73	6.4	48	4.2	22
29	8.2	38	13	4.9	---	37	150	82	5.7	42	4.2	19
30	8.0	35	12	4.5	---	32	130	81	4.9	37	3.6	17
31	7.6	---	11	4.1	---	27	---	114	---	32	11	---
TOTAL	486.6	1328.4	805	330.9	127.4	530.3	3224	1985	1029.3	831.8	327.59	411.0
MEAN	15.7	44.3	26.0	10.7	4.55	17.1	107	64.0	34.3	26.8	10.6	13.7
MAX	25	69	57	43	8.4	53	369	115	123	92	32	28
MIN	7.6	7.4	11	4.1	2.7	3.0	16	35	4.9	4.3	.59	2.4
CFSM	1.13	3.19	1.87	.77	.33	1.23	7.70	4.60	2.47	1.93	.76	.99
IN.	1.30	3.55	2.15	.89	.34	1.42	8.63	5.31	2.75	2.23	.88	1.10
WTR YR 1983	TOTAL	11417.29	MEAN	31.3	MAX	369	MIN	.59	CFSM	2.25	IN	30.55

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 downstream from logging route 42, 0.3 mi west of its intersection with the Carr Pond Road and 18 mi west of Portage.

DRAINAGE AREA.--1.69 mi².

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

CAGE.--Water-stage recorder. Altitude of gage is 820 ft, from topographic map.

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

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 198 ft³/s Apr. 17, 1983, gage height, 7.57 ft; minimum, 0.05 ft³/s July 17, 1982, gage height, 4.35 ft.

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

Date	Time	Discharge (ft ³ /s)	Gage height (ft)	Date	Time	Discharge (ft ³ /s)	Gage height (ft)
Apr. 17	2215	* 198	7.57	May 31	0810	25	5.35
Apr. 25	2315	49	5.80	Jul. 22	0925	40	5.65

Minimum discharge, 0.11 ft³/s Feb. 3, gage height, 4.41 ft.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1.1	.34	2.1	.84	.14	.19	1.4	8.4	15	.36	1.3	2.5
2	3.6	.37	1.9	.74	.13	.19	1.3	8.9	10	.59	1.2	.94
3	1.9	1.1	2.2	.64	.13	.22	1.2	12	7.3	.93	1.1	.67
4	1.3	.80	5.4	.57	1.0	.27	1.1	10	5.9	.48	.85	.44
5	1.0	4.9	6.5	.53	3.3	.25	1.5	9.8	5.0	.63	.75	.30
6	.86	11	5.0	.48	2.1	.23	2.3	8.4	4.3	1.9	.69	.24
7	.77	5.2	5.0	.45	1.7	.21	4.0	7.1	6.7	.97	.88	.42
8	.91	3.5	3.5	.43	1.5	.20	6.1	6.4	5.7	.54	.66	.66
9	2.0	3.1	2.5	.41	1.4	.19	7.8	6.6	3.9	.48	.57	.35
10	1.5	2.5	1.8	.39	1.3	.18	13	7.8	3.1	.34	.44	.33
11	1.1	2.0	1.4	.64	1.1	.22	12	6.9	2.7	.31	.37	.30
12	.93	2.0	1.3	5.8	.92	.20	14	6.0	2.4	.28	.33	.28
13	.87	4.7	1.1	4.6	.74	1.3	13	6.5	2.2	.46	.29	.20
14	1.3	6.9	1.0	3.0	.61	7.4	13	8.1	2.0	.55	.24	.18
15	2.0	4.2	.92	2.1	.52	6.0	12	6.5	2.1	.50	.22	.17
16	1.5	3.1	1.3	1.5	.45	5.2	14	6.1	1.8	.56	.21	.16
17	1.2	2.6	4.6	1.1	.39	4.6	81	5.5	1.6	.36	.20	.21
18	.99	2.3	3.0	.88	.34	4.2	88	4.2	1.7	.25	.20	.49
19	.85	2.0	2.0	.72	.30	4.0	25	2.9	1.5	.20	.19	.42
20	.74	1.8	1.3	.60	.28	6.0	24	2.9	1.2	.23	.16	.33
21	.69	1.8	.90	.53	.26	8.5	18	3.6	1.0	.56	.15	.25
22	.64	3.1	.68	.48	.24	12	13	3.5	.85	25	.14	2.4
23	.54	5.1	.54	.45	.23	18	12	3.1	.75	10	.16	4.6
24	.51	6.5	.46	.52	.22	13	9.4	6.0	.66	5.3	.14	1.5
25	.49	5.5	.50	.58	.21	8.4	37	8.5	.58	5.0	.14	.86
26	.47	3.3	1.4	.50	.21	6.0	32	5.7	.50	3.4	.12	.69
27	.43	3.2	4.5	.35	.20	4.0	16	4.5	.64	2.4	1.1	.57
28	.44	6.2	3.3	.27	.20	3.0	12	10	.59	2.3	.59	.50
29	.42	5.2	2.0	.22	---	2.4	11	9.5	.44	1.9	.29	.44
30	.40	2.9	1.4	.19	---	2.0	9.4	7.4	.37	1.7	.22	.41
31	.38	---	1.0	.16	---	1.6	---	19	---	1.4	1.3	---
TOTAL	31.83	107.21	70.50	30.67	20.12	120.23	505.5	221.8	92.48	69.88	15.20	21.81
MEAN	1.03	3.57	2.27	.99	.72	3.88	16.9	7.15	3.08	2.25	.49	.73
MAX	3.6	11	6.5	5.8	3.3	18	88	19	15	25	1.3	4.6
MIN	.38	.34	.46	.16	.13	.18	1.1	2.9	.37	.20	.12	.16
CFSM	.61	2.11	1.34	.59	.43	2.30	10.0	4.23	1.82	1.33	.29	.43
IN.	.70	2.36	1.55	.67	.44	2.64	11.12	4.88	2.03	1.54	.33	.48
CAL YR 1982	TOTAL	972.33	MEAN	2.66	MAX	43	MIN	.06	CFSM	1.57	IN	21.39
WTR YR 1983	TOTAL	1307.23	MEAN	3.58	MAX	88	MIN	.12	CFSM	2.12	IN	28.76

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 north from logging route 42, 0.3 mi west from its intersection with the Carr Pond Road and 18 mi west of Portage.

DRAINAGE AREA.--1.04 mi².

PERIOD OF RECORD.--November 1981 to current year.

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

REMARKS.--Records good except those for winter period, which are fair. No gage height record Jan. 14 to Apr. 7.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 125 ft³/s Apr. 18, 1983. Maximum gage height, 7.60 ft Mar. 27, 1982 (backwater from ice); minimum daily discharge, 0.04 ft³/s June 27, 1983.

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

Date	Time	Discharge (ft ³ /s)	Gage height (ft)	Date	Time	Discharge (ft ³ /s)	Gage height (ft)
Apr. 18	--	* 125	--	Jul. 22	0445	41	* 6.38

Minimum daily discharge, 0.04 ft³/s June 27.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	3.4	.60	2.2	.41	.17	.16	1.5	5.2	4.5	.06	.96	3.1
2	8.4	.78	2.0	.34	.16	.16	1.2	5.6	3.0	.13	.91	1.5
3	5.3	1.9	4.0	.30	.15	.16	1.1	8.2	2.2	.21	.85	.83
4	4.0	1.7	9.2	.28	.90	.19	.98	7.0	2.1	.17	.70	.60
5	3.4	5.7	7.8	.26	2.5	.18	.93	6.0	1.9	.40	.61	.50
6	1.9	5.3	6.4	.24	1.9	.17	2.0	4.9	1.9	.81	.54	.37
7	1.7	3.1	6.1	.23	1.5	.16	3.5	4.0	3.7	.50	.53	.43
8	2.1	2.7	4.6	.22	1.2	.15	6.0	3.6	2.4	.29	.45	.50
9	4.5	2.4	3.5	.21	1.1	.14	14	4.4	1.6	.25	.40	.36
10	3.9	2.1	2.1	.20	1.0	.35	13	5.2	1.1	.18	.34	.41
11	2.8	1.9	1.6	1.0	.92	.80	9.9	3.8	1.1	.16	.27	.33
12	2.3	1.9	1.3	6.0	.78	1.5	12	3.3	.93	.15	.25	.30
13	2.1	5.2	1.0	4.5	.67	3.5	12	4.2	.90	.31	.25	.23
14	3.1	4.1	.83	3.0	.57	7.0	12	4.2	1.3	.43	.23	.18
15	4.9	2.8	.73	1.8	.48	6.0	11	3.4	2.0	.49	.21	.15
16	4.1	2.4	1.5	1.2	.40	5.0	12	3.3	.98	.54	.22	.13
17	3.1	2.2	5.0	.95	.35	4.1	57	2.5	.75	.41	.22	.11
18	2.4	2.1	2.1	.78	.30	3.3	70	2.3	.65	.25	.21	.34
19	2.0	1.9	1.2	.63	.27	3.1	10	2.1	.54	.20	.21	.29
20	1.5	1.8	.82	.54	.25	5.0	9.8	2.2	.38	.23	.18	.24
21	.93	2.3	.68	.48	.24	7.0	8.6	2.6	.42	1.0	.34	.19
22	.89	4.3	.57	.42	.22	10	7.9	2.5	.29	23	.17	.75
23	.79	6.8	.48	.40	.21	15	4.7	2.4	.22	8.8	.17	3.8
24	.74	8.8	.40	.43	.20	12	2.9	5.5	.12	5.8	.17	2.1
25	.71	6.7	.45	.50	.19	9.0	22	6.5	.08	5.5	.17	1.0
26	.71	4.5	1.7	.43	.18	7.0	18	3.9	.05	3.8	.18	.48
27	.66	3.8	7.6	.35	.18	5.4	14	3.0	.04	2.7	1.2	.40
28	.68	3.7	2.8	.29	.17	4.0	12	8.3	.08	2.7	1.1	.35
29	.66	3.0	1.5	.25	---	2.8	8.3	6.1	.05	2.2	.75	.31
30	.65	2.4	.80	.22	---	2.2	6.0	5.1	.05	1.8	.55	.28
31	.64	---	.51	.19	---	1.8	---	7.6	---	1.3	1.9	---
TOTAL	74.96	98.88	81.47	27.05	17.16	117.34	364.31	138.9	35.33	64.77	15.24	20.56
MEAN	2.42	3.30	2.63	.87	.61	3.79	12.1	4.48	1.18	2.09	.49	.69
MAX	8.4	8.8	9.2	6.0	2.5	15	70	8.3	4.5	23	1.9	3.8
MIN	.64	.60	.40	.19	.15	.14	.93	2.1	.04	.06	.17	.11
CFSM	2.33	3.17	2.53	.84	.59	3.64	11.6	4.31	1.14	2.01	.47	.66
IN.	2.68	3.53	2.91	.97	.61	4.19	13.02	4.96	1.26	2.31	.54	.73
CAL YR 1982	TOTAL	794.66	MEAN	2.18	MAX	33	MIN	.05	CFSM	2.09	IN	28.47
WTR YR 1983	TOTAL	1055.97	MEAN	2.89	MAX	70	MIN	.04	CFSM	2.78	IN	37.73

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 upstream from Fox Brook Tote Road and 20 mi west of Portage.

DRAINAGE AREA.--70.3 mi².

PERIOD OF RECORD.--July 1982 to current year.

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

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

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 1650 ft³/s Apr. 18, 1983, gage height, 9.93 ft; minimum discharge 2.5 ft³/s July 25, 1982, gage height, 1.26 ft.

EXTREMES FOR CURRENT YEAR.--Peak discharges above base of 550 ft³/s (revised) and maximum (*):

Date	Time	Discharge (ft ³ /s)	Gage height (ft)	Date	Time	Discharge (ft ³ /s)	Gage height (ft)
Apr. 18	1015	* 1650	9.93	May 31	1500	823	6.81
Apr. 26	0615	1240	8.47	Jul. 22	1430	554	5.70
May 28	1945	573	5.70				

Minimum discharge, 2.8 ft³/s August 26, gage height, 1.29 ft.

DISCHARGE IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	61	29	150	95	19	19	130	663	772	24	56	36
2	127	29	149	85	17	17	115	627	669	24	52	24
3	102	37	149	68	16	20	105	673	565	26	47	22
4	87	38	225	53	45	25	98	655	487	24	42	30
5	78	110	282	45	120	23	120	628	416	30	37	20
6	72	403	260	39	100	21	155	579	361	63	33	16
7	66	305	264	34	80	19	210	519	417	46	33	14
8	63	264	230	31	73	17	270	461	374	35	29	19
9	86	243	190	29	70	16	360	434	310	33	27	17
10	81	212	170	28	65	15	490	460	264	28	24	16
11	72	185	155	70	61	17	430	419	227	25	21	17
12	66	169	140	245	56	20	490	383	198	23	19	16
13	62	231	125	200	52	54	430	372	173	23	17	14
14	64	313	120	140	49	170	425	386	154	22	15	12
15	71	268	116	100	45	150	437	352	148	21	14	10
16	69	246	124	86	42	140	481	330	127	21	13	8.6
17	64	219	191	74	39	130	845	296	112	20	12	7.7
18	59	196	155	63	36	125	1550	262	108	17	11	13
19	54	176	125	55	33	140	1310	233	97	16	10	17
20	50	157	110	49	31	180	1140	218	84	15	8.1	15
21	48	148	98	44	29	260	1020	234	72	17	7.0	13
22	46	176	90	39	28	370	884	226	63	404	4.5	65
23	42	211	84	36	26	500	777	213	55	320	4.3	107
24	40	264	82	40	24	410	719	302	49	204	3.8	55
25	41	265	87	45	23	340	1010	415	43	197	3.5	40
26	39	215	130	41	22	290	1210	377	38	157	3.1	34
27	36	190	194	36	21	250	1040	335	36	120	14	30
28	34	175	167	32	19	210	868	485	34	105	16	27
29	33	165	140	28	---	185	786	523	30	89	8.5	23
30	32	160	120	25	---	165	731	468	27	77	6.5	22
31	30	---	105	22	---	145	---	760	---	65	14	---
TOTAL	1875	5799	4727	1977	1241	4442	18636	13288	6510	2291	605.3	760.3
MEAN	60.5	193	152	63.8	44.3	143	621	429	217	73.9	19.5	25.3
MAX	127	403	282	245	120	500	1550	760	772	404	56	107
MIN	30	29	82	22	16	15	98	213	27	15	3.1	7.7
CF5M	.86	2.75	2.16	.91	.63	2.03	8.83	6.10	3.09	1.05	.28	.36
IN.	.99	3.07	2.50	1.05	.66	2.35	9.86	7.03	3.44	1.21	.32	.40

WTR YR 1983 TOTAL 62151.6 MEAN 170 MAX 1550 MIN 3.1 CF5M 2.42 IN 32.89

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 downstream from Fish River.

DRAINAGE AREA.--5,665 mi², not including 249 mi² drained by Chamberlain Lake through Telos Canal.

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

REVISED RECORDS.--WDR ME-82-1: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 488.9 ft, 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.--57 years, 9,734 ft³/s (23.33 in/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 151,000 ft³/s Apr. 30, 1979, gage height, 27.31 ft; minimum daily, 510 ft³/2 Mar. 13-15, 1948.

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

Date	Time	Discharge (ft ³ /s)	Gage height (ft)	Date	Time	Discharge (ft ³ /s)	Gage height (ft)
Apr. 19	0100	*141,000	26.33	Apr. 27	0300	133,000	25.56

Minimum discharge not determined, occurred during period of no gage-height record; minimum daily, 1210 ft³/s Aug. 27.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	5720	2400	7730	7400	3600	1620	6900	77900	32800	3820	3720	1600
2	5530	2330	7770	6800	3450	1580	6400	78600	34700	3550	3480	2470
3	6180	2360	7990	6100	3350	1520	6000	77600	30400	3400	3400	3060
4	6780	2480	10300	5400	3400	1500	5900	74500	25800	3300	3230	2940
5	6350	3530	14800	4850	3550	1520	5700	76500	22300	3310	3970	2830
6	5590	8620	18400	4450	3750	1520	5750	69200	19900	3600	4010	2470
7	4920	16100	17300	4150	4000	1490	5900	57400	20700	3640	3520	2220
8	4450	15400	15700	4000	4200	1450	6250	46900	21900	3360	3310	2120
9	4340	13200	13100	3850	4400	1380	6900	39800	20800	3240	3070	2140
10	4680	11400	8090	3900	4150	1370	7700	39800	18400	3040	2600	2050
11	5870	9900	7450	4300	3950	1380	9200	41400	16200	2890	2420	1960
12	6010	8810	6650	5500	3650	1470	11500	36400	14400	2750	2360	1960
13	5410	8490	6200	7000	3400	1620	14000	31200	13000	2720	2220	1830
14	4970	10000	5760	8500	3200	1580	15200	27800	11800	2820	2100	1680
15	4760	13000	5520	10000	3000	1470	16000	25800	10900	2980	2130	1530
16	4700	12400	5900	9500	2850	1400	17500	24300	10200	3170	1940	1410
17	4650	10900	6300	8300	2700	1340	33500	22500	9840	3520	1820	1330
18	4540	9490	6800	7300	2550	1320	111000	20400	11100	3030	1760	1360
19	4310	8450	6500	6700	2450	1330	134000	18300	14300	2820	1900	1450
20	4070	7750	6050	6200	2350	1400	121000	16800	13500	2780	1950	1670
21	3830	7200	5950	5600	2250	2200	106000	16600	11000	2750	1550	1780
22	3570	7270	5700	5300	2150	3000	88900	19300	9120	4010	1380	2350
23	3340	7730	5300	4900	2050	4500	73300	20000	7900	8150	1360	4060
24	3140	9200	5100	4600	1980	6800	63200	18700	6900	8890	1380	5010
25	2990	11400	5000	4400	1920	8900	72200	18900	6060	8020	1320	4890
26	2850	11600	5150	4200	1800	9300	114000	18600	5440	7320	1280	4350
27	2750	10200	5700	4500	1750	9200	130000	17400	5000	6290	1210	3700
28	2660	6910	6500	4600	1680	9000	113000	17400	4770	5460	1390	3220
29	2580	6910	7500	4250	---	8700	89600	20800	4460	4880	1400	2860
30	2530	7420	8800	3950	---	8000	79800	21300	4140	4480	1330	2610
31	2460	---	8300	3800	---	7400	---	24200	---	4070	1370	---
TOTAL	136530	262850	253310	174300	23530	106260	1476300	1116300	437730	128060	69880	74910
MFAN	4404	8762	8171	5623	2983	3429	49210	36010	14590	4131	2254	2497
MAX	6780	16100	18400	10000	4400	9300	134000	78600	34700	8890	4010	5010
MIN	2460	2330	5000	3800	1680	1320	5700	16600	4140	2720	1210	1330
CFSM	.78	1.55	1.44	.99	.53	.61	8.69	6.36	2.58	.73	.40	.44
IN.	.90	1.73	1.66	1.14	.55	.70	9.69	7.33	2.87	.84	.46	.49
CAL YR 1982	TOTAL	3355480	MEAN	9193	MAX	100000	MIN	1220	CFSM	1.62	IN	22.03
WTR YR 1983	TOTAL	4319960	MEAN	11840	MAX	134000	MIN	1210	CFSM	2.09	IN	28.37

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 downstream from International Bridge at Van Buren.

DRAINAGE AREA.--8,174 mi².

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

REVISED RECORDS.--WDR ME-82-1: Drainage area.

PERIOD OF DAILY RECORD.--

SPECIFIC CONDUCTANCE: November 1978 to September 1981.

WATER TEMPERATURES: November 1978 to September 1981.

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.

WATER QUALITY DATA, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983

DATE	TIME	DIS- CHARGE, IN CUBIC FEET PER SECOND	SPE- CIFIC CON- DUCT- ANCE (UMHOS)	PH (UNITS)	TEMPER- ATURE, AIR (DEG C)	TEMPER- ATURE (DEG C)	TUR- BID- ITY (NTU)	BARO- METRIC PRES- SURE (MM OF HG)	OXYGEN, DIS- SOLVED (MG/L)	OXYGEN, (PER- CENT SATUR- ATION)	COLI- FORM, FECAL, 0.7 UM-MF (COLS./ 100 ML)	STREP- TOCOCCI FECAL, KF AGAR (COLS. PER 100 ML)
NOV 23...	1000	11100	80	7.0	5.5	2.0	2.5	765	13.7	99	>1200	1100
DEC 13...	1600	8900	90	7.5	-16.0	0.0	2.1	774	14.8	100	920	1700
FEB 08...	1330	6050	106	7.2	-1.0	0.0	<1.0	745	12.8	90	K310	350
APR 04...	1115	8500	108	7.3	2.0	0.0	16	759	14.1	97	35	560
JUN 20...	1715	19500	75	7.1	30.0	21.0	1.4	760	8.1	91	K120	42
AUG 15...	1530	3110	112	7.4	30.0	21.0	1.4	764	8.3	93	K20	88

DATE	HARJ- NESS (MG/L AS CAC03)	CAL CIUM 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 CAC03)	SULFATE DIS- SOLVED (MG/L AS SO4)	CHLO- RIDE, DIS- SOLVED (MG/L AS CL)	FLUD- RIDE, DIS- SOLVED (MG/L AS F)	SILICA, DIS- SOLVED (MG/L AS SI02)	SOLIDS, RESIDUE AT 180 DEG. C DIS- SOLVED (MG/L)	SOLIDS, SUM OF CONSTI- TUENTS, DIS- SOLVED (MG/L)
NOV 23...	35	11	1.7	2.2	0.2	26	7.0	2.8	<0.1	4.3	70	45
DEC 13...	40	13	1.9	1.9	0.4	32	11	2.6	<0.1	4.8	76	55
FEB 08...	47	15	2.2	3.1	0.5	38	13	3.6	<0.1	4.2	86	65
APR 04...	49	16	2.1	2.1	0.6	45	9.9	2.6	<0.1	4.8	69	66
JUN 20...	34	11	1.5	1.9	0.5	27	7.8	1.8	<0.1	2.6	50	43
AUG 15...	50	16	2.5	3.8	0.6	39	11	4.3	<0.1	2.4	76	65

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

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983

DATE	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, DIS- SOLVED (MG/L AS P)	PHOS- PHORUS, ORTHO, DIS- SOLVED (MG/L AS P)	ALUM- INUM, DIS- SOLVED (UG/L AS AL)	ARSENIC DIS- SOLVED (UG/L AS AS)	BARIUM, DIS- SOLVED (UG/L AS BA)
NOV 23...	0.45	0.08	0.1	0.1	0.03	0.02	0.03	100	1	15.00
DEC 13...	0.34	0.05	0.06	0.3	<0.01	0.02	0.01	---	---	---
FEB 08...	0.31	0.01	0.01	0.6	<0.01	<0.01	<0.01	20	1	17.00
APR 04...	0.25	<0.01	0.01	0.3	0.04	<0.01	<0.01	30	1	15.00
JUN 20...	<0.1	<0.01	0.01	0.3	0.02	0.02	<0.01	---	---	---
AUG 15...	<0.1	0.05	0.06	<0.1	0.02	0.04	0.02	80	1	31.00

DATE	BERYL- LIUM, DIS- SOLVED (UG/L AS BE)	CADMIUM DIS- SOLVED (UG/L AS CD)	CHRO- MIUM, DIS- SOLVED (UG/L AS CR)	COBALT, DIS- SOLVED (UG/L AS CO)	COPPER, DIS- SOLVED (UG/L AS CU)	IRON, DIS- SOLVED (UG/L AS FE)	LEAD, DIS- SOLVED (UG/L AS PB)	LITHIUM DIS- SOLVED (UG/L AS LI)	MANGA- NESE, DIS- SOLVED (UG/L AS MN)	MERCURY DIS- SOLVED (UG/L AS HG)
NOV 23...	<1.00	2	<1	<3.00	6	90	2	<4.00	17	2.0
DEC 13...	---	---	---	---	---	---	---	---	---	---
FEB 08...	<1.00	<1	<1	<3.00	3	50	9	<4.00	18	0.3
APR 04...	<1.00	<1	<1	<3.00	2	70	6	<4.00	26	<0.1
JUN 20...	---	---	---	---	---	---	---	---	---	---
AUG 15...	<0.50	<1	<1	<3.00	<1	130	19	<4.00	24	<0.1

DATE	MOLYB- DENUM, DIS- SOLVED (UG/L AS MO)	NICKEL, DIS- SOLVED (UG/L AS NI)	SELE- NIUM, DIS- SOLVED (UG/L AS SE)	SILVER, DIS- SOLVED (UG/L AS AG)	STRON- TIUM, DIS- SOLVED (UG/L AS SR)	VANA- DIUM, DIS- SOLVED (UG/L AS V)	ZINC, DIS- SOLVED (UG/L AS ZN)	SEDI- MENT, SUS- PENDEED (MG/L)	SEDI- MENT, DIS- CHARGE, SUS- PENDEED (T/DAY)	SED. SUSP. SIEVE DIAM. % FINER THAN .062 MM
NOV 23...	<10	1	<1	<1	70	<6.0	6.00	5	150	94
DEC 13...	---	---	---	---	---	---	---	2	48	100
FEB 08...	<10	4	<1	<1	100	<6.0	<3.00	4	65	85
APR 04...	<10	7	<1	3	120	<6.0	<3.00	28	643	96
JUN 20...	---	---	---	---	---	---	---	0	421	81
AUG 15...	<10	<1	<1	<1	100	<6.0	5.00	2	17	86

ST. JOHN RIVER BASIN

01015800 AROOSTOOK RIVER NEAR MASARDIS, ME

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

DRAINAGE AREA.--892 mi².

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

REVISED RECORDS.--WDR ME-82-1: Drainage area.

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

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

AVERAGE DISCHARGE.--26 years, 1,518 ft³/s.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 23,100 ft³/s Apr. 19, 1983, gage height, 17.70 ft; minimum discharge, 41 ft³/s Sept. 26, 27, 1968, gage height, 1.89 ft.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 23,100 ft³/s Apr. 19, gage height, 17.70 ft; minimum discharge, 143 ft³/s August 30, 31, gage height, 2.73 ft.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	802	354	3000	1080	475	315	950	5960	7140	340	336	494
2	807	345	2840	940	455	310	880	5510	6680	315	324	769
3	957	345	2450	810	445	320	840	5640	5560	300	328	631
4	1030	371	2360	710	480	320	800	5610	4500	290	328	494
5	934	448	2630	660	550	310	780	5410	3870	280	294	380
6	813	1870	2800	630	650	295	810	4950	3470	340	265	313
7	696	3420	2760	605	750	275	950	4430	3170	560	870	276
8	614	3100	2550	590	840	260	1250	3980	2960	626	1260	276
9	620	2550	2120	580	820	250	1600	3680	2800	575	1150	305
10	706	2030	1600	580	790	240	2300	3940	2450	505	1090	286
11	775	1670	1350	640	745	235	3500	4020	2050	423	792	255
12	786	1430	1150	800	695	235	4590	3730	1750	345	590	231
13	738	1420	1020	1030	650	245	5120	3470	1430	313	473	211
14	701	3520	900	1120	620	275	5290	3500	1370	305	394	195
15	722	4600	920	1030	590	305	5030	3580	1370	336	324	180
16	786	3950	1000	950	560	330	4650	3440	1430	376	283	168
17	834	3260	1100	870	530	330	6390	3260	1370	494	251	159
18	851	2660	1060	810	505	320	17600	3000	1240	532	235	159
19	813	2200	980	750	480	335	22100	2720	1160	479	248	168
20	738	1880	910	700	460	410	18300	2470	1110	399	251	177
21	670	1680	860	650	435	750	15000	2340	1020	349	228	565
22	614	1710	820	610	420	1500	12200	2280	915	380	208	218
23	567	2310	780	580	395	2100	9000	2200	820	615	189	663
24	516	3260	750	560	380	2050	6970	2140	710	804	174	1020
25	482	3790	730	575	365	1980	8300	2180	615	804	162	883
26	453	3370	770	615	355	1800	13900	2340	550	707	153	685
27	430	2810	840	635	340	1600	14300	2380	490	605	153	555
28	406	2060	950	620	325	1400	11100	2390	440	527	151	453
29	393	2230	1100	570	---	1300	8180	3020	400	468	148	376
30	380	2700	1350	530	---	1150	6850	3250	365	418	145	320
31	366	---	1230	495	---	1020	---	4960	---	371	162	---
TOTAL	21000	67343	45680	22325	15105	22565	209530	111780	63205	14181	11959	11865
MEAN	677	2245	1474	720	539	728	6984	3606	2107	457	386	396
MAX	1030	4600	3000	1120	840	2100	22100	5960	7140	804	1260	1020
MIN	366	345	730	495	325	235	780	2140	365	280	145	159
CAL YR 1982	TOTAL	489153	MEAN	1340	MAX	16700	MIN	107				
WTR YR 1983	TOTAL	616538	MEAN	1689	MAX	22100	MIN	145				

01016500 MACHIAS RIVER NEAR ASHLAND, ME

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

DRAINAGE AREA.--329 mi².

PERIOD OF RECORD.--June 1951 to September 1982 (Discontinued).

REVISED RECORDS.--WDR ME-82-1: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 533.43 ft, 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.--32 years, 573 ft³/s (23.65 in/yr).

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

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

Date	Time	Discharge (ft ³ /s)	Gage height (ft)	Date	Time	Discharge (ft ³ /s)	Gage height (ft)
Apr. 18	1300	(a)	* 9.43	Apr. 26	1600	6390	6.43
Apr. 19	1300	* 7950	a 9.14	Jun. 02	0100	3270	4.46

a Backwater from Aroostook River

Minimum discharge, 33 ft³/s Aug. 26, gage height 0.49 ft.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	287	161	653	425	155	84	340	2170	3310	92	209	204
2	339	157	632	350	145	88	320	2020	3030	88	189	201
3	383	178	611	300	145	91	300	2150	2430	93	176	205
4	378	201	730	260	150	90	280	2130	1870	90	155	194
5	353	298	955	240	160	85	270	2050	1470	106	136	170
6	325	997	1010	220	180	80	280	1920	1190	177	128	148
7	294	1280	997	200	220	77	320	1720	1050	209	152	133
8	278	1280	888	190	280	74	450	1500	1080	179	154	147
9	303	1100	702	195	275	72	1100	1420	1010	159	151	131
10	346	910	394	210	270	69	1500	1510	854	139	143	114
11	350	745	320	290	250	68	1820	1430	703	120	120	105
12	331	633	285	400	235	73	2140	1290	601	104	103	98
13	309	907	265	550	220	80	2150	1260	529	107	91	90
14	313	1580	250	640	200	88	1990	1400	482	103	82	79
15	343	1520	255	530	185	90	1830	1370	474	103	74	70
16	348	1290	300	450	170	80	1780	1250	425	152	69	65
17	334	1060	400	390	155	72	2700	1120	381	152	63	62
18	315	885	370	350	145	67	4700	978	362	119	62	67
19	292	746	340	310	135	62	7100	856	337	97	61	72
20	274	645	320	285	130	100	5900	765	300	87	56	73
21	259	590	300	260	120	150	5300	749	267	90	49	71
22	249	646	280	235	115	260	4210	762	238	340	49	98
23	233	861	270	220	110	450	3150	754	211	578	45	242
24	221	1140	260	205	105	720	2580	820	186	600	41	326
25	210	1200	280	215	100	690	3690	1060	163	519	37	336
26	202	1060	300	215	96	640	6080	1190	142	479	33	297
27	193	888	340	205	93	590	5780	1120	129	415	41	251
28	186	533	410	195	88	520	4260	1300	120	370	49	212
29	179	629	490	180	---	475	3070	1610	109	323	50	182
30	173	646	540	170	---	420	2500	1660	99	280	43	159
31	167	---	495	160	---	375	---	2730	---	242	74	---
TOTAL	8767	24766	14642	9045	4632	6882	77890	44064	23552	6712	2885	4602
MEAN	283	826	472	292	165	222	2596	1421	785	217	93.1	153
MAX	383	1580	1010	640	280	720	7100	2730	3310	600	209	336
MIN	167	157	250	160	88	62	270	749	99	87	33	62
CFSM	.86	2.51	1.44	.89	.50	.68	7.89	4.32	2.39	.66	.28	.47
IN.	.99	2.80	1.66	1.02	.52	.78	8.81	4.98	2.66	.76	.33	.52

CAL YR 1982	TOTAL	186598	MEAN	511	MAX	7830	MIN	29	CFSM	1.55	IN	21.10
WTR YR 1983	TOTAL	228439	MEAN	626	MAX	7100	MIN	33	CFSM	1.90	IN	25.83

ST. JOHN RIVER BASIN

01017000 AROOSTOOK RIVER AT WASHBURN, ME

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

DRAINAGE AREA.--1,654 mi².

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

REVISED RECORDS.--WSP 951: 1935. WSP 1301: 1933-50 (adjusted monthly runoff). WDR ME-82-1: Drainage area.

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

REMARKS.--Records fair. Doubtful or no gage-height record July 16 to Sept. 30. Considerable regulation by Squa Pan Lake, capacity 2,893,000,000 ft³, and by Millinocket Lake, capacity 1,110,000,000 ft³ used for power. Several observations of water temperature and specific conductance were made during the year.

AVERAGE DISCHARGE.--53 years, 2,666 ft³/s.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 43,400 ft³/s Apr. 19, 1983, gage height, 13.73 ft present datum; maximum gage height, 20.91 ft Dec. 24, 1973, (backwater from ice); minimum daily discharge, 75 ft³/s Feb. 13-15, 1948.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 43,400 ft³/s Apr. 19, gage height 13.73 ft; minimum daily discharge, 270 ft³/s Aug. 30.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1440	664	3570	1950	960	740	1750	11000	15200	565	765	455
2	1830	650	3380	1700	905	720	1650	10200	14500	538	705	1350
3	2180	685	3410	1500	900	740	1550	10800	12000	531	664	1200
4	2070	758	4560	1320	950	760	1500	10800	9280	518	657	1000
5	1780	1120	5920	1220	1100	780	1470	10400	7450	558	595	760
6	1490	4320	5770	1140	1250	730	1550	9480	6290	876	540	640
7	1260	6730	5580	1100	1500	680	1700	8670	5510	1000	565	550
8	1140	6260	5020	1060	1750	630	2200	7640	5110	1030	2100	560
9	1140	5160	4260	1040	1720	600	3500	7200	4710	903	2000	570
10	1330	4120	3300	1030	1650	570	5000	8410	4120	773	1650	565
11	1450	3400	2750	1150	1580	550	7000	7700	3550	714	1300	515
12	1360	2870	2300	1350	1500	560	8500	6960	3080	634	1040	470
13	1250	3740	1950	1850	1430	610	9700	6700	2730	642	740	415
14	1260	7670	1700	2200	1370	700	10000	6990	2780	721	620	375
15	1490	8720	1730	2050	1300	790	9970	6990	2720	758	560	350
16	1670	7510	1920	1900	1250	860	9160	6570	2850	840	500	325
17	1670	6140	2200	1700	1200	830	12100	5840	2570	890	445	310
18	1550	4950	2050	1600	1150	810	33400	5300	2190	920	410	300
19	1390	4260	1900	1450	1100	850	42500	4750	1850	790	400	305
20	1240	3640	1750	1370	1050	1100	35500	4280	1710	670	390	320
21	1130	3230	1680	1280	1000	1500	27700	3880	1540	660	385	340
22	1040	3490	1550	1200	970	2100	21600	3740	1630	730	360	360
23	976	4780	1490	1160	930	2800	16700	3780	1540	1350	345	780
24	912	6490	1420	1150	900	3800	13200	4060	1310	1700	330	1500
25	867	7150	1400	1180	860	3550	15200	4640	1220	1660	315	1430
26	807	6290	1450	1250	820	3250	24500	4860	1160	1550	295	1330
27	765	5130	1570	1350	800	2900	25900	4520	1020	1400	290	1100
28	735	3410	1730	1330	770	2550	20700	4910	714	1250	280	990
29	721	3120	2000	1220	---	2350	15700	6620	664	1120	275	770
30	706	3380	2300	1120	---	2100	12700	6730	611	1000	270	660
31	685	---	2200	1030	---	1900	---	11300	---	900	295	---
TOTAL	39334	129837	83810	42950	32665	43410	393600	215720	121609	28191	20086	20595
MEAN	1269	4328	2704	1385	1167	1400	13120	6959	4054	909	648	687
MAX	2180	8720	5920	2200	1750	3800	42500	11300	15200	1700	2100	1500
MIN	685	650	1400	1030	770	550	1470	3740	611	518	270	300
CAL YR 1982 TOTAL	901949		MEAN	2471	MAX	30400	MIN	190				
WTR YR 1983 TOTAL	1171807		MEAN	3210	MAX	42500	MIN	270				

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.

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.

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.

WATER QUALITY DATA, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983

		DIS- CHARGE, IN CUBIC FEET PER SECOND	SPE- CIFIC CON- DUCT- ANCE (UMHOS)	PH (UNITS)	TEMPER- ATURE, AIR (DEG C)	TEMPER- ATURE (DEG C)	TUR- BID- ITY (NTU)	BARO- METRIC PRES- SURE (MM OF HG)	OXYGEN, DIS- SOLVED (MG/L)	OXYGEN, DIS- SOLVED (PER- CENT SATUR- ATION)	COLI- FORM, FECAL, 0.7 UM-MF (COLS./ 100 ML)	STREP- TOCOCCI KF AGAR (COLS. PER 100 ML)	
DATE	TIME												
NOV 23...	1215	5620	85	7.0	7.0	3.0	1.6	765	13.2	98	270	>2000	
FEB 08...	1045	2060	83	7.0	-1.0	0.0	2.0	747	11.8	82	44	120	
APR 04...	1345	2000	60	6.9	3.0	0.0	3.0	759	14.4	99	120	>2000	
AUG 16...	0730	20	78	7.9	19.0	23.0	<1.0	765	9.0	105	K22	300	
		HARD- NESS (MG/L AS CACO3)	CALCIUM DIS- SOLVED (MG/L AS CA)	MAGNE- SIUM, DIS- SOLVED (MG/L AS MG)	SODIUM, DIS- SOLVED (MG/L AS NA)	POTAS- SIUM, DIS- SOLVED (MG/L AS K)	ALKA- 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)	SOLIDS, RESIDUE AT 180 DEG. C DIS- SOLVED (MG/L)	SOLIDS, SUM OF CONSTI- TUENTS, DIS- SOLVED (MG/L)
NOV 23...	38	12	1.9	1.9	0.6	27	11	3.0	<0.1	5.1	74	52	
FEB 08...	35	11	1.8	1.9	0.6	27	10	2.8	<0.1	4.8	66	49	
APR 04...	30	9.2	1.7	1.5	0.7	24	7.9	1.9	<0.1	4.6	52	42	
AUG 16...	39	12	2.1	2.2	0.6	31	11	2.1	<0.1	2.9	66	52	

01017100 AROOSTOOK RIVER AT CARIBOU, ME--Continued

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983

DATE	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, DIS- SOLVED (MG/L AS P)	PHOS- PHORUS, ORTHO, DIS- SOLVED (MG/L AS P)	ALUM- INUM, DIS- SOLVED (UG/L AS AL)	ARSENIC DIS- SOLVED (UG/L AS AS)	BARIUM, DIS- SOLVED (UG/L AS BA)
NOV 23...	0.69	0.05	0.06	0.3	0.01	0.02	0.01	100	1	21.00
FEB 08...	0.51	0.03	0.04	0.7	0.02	0.02	0.01	10	1	22.00
APR 04...	0.22	0.03	0.04	0.2	0.03	<0.01	<0.01	50	1	13.00
AUG 16...	0.1	0.01	0.01	<0.1	0.03	0.05	0.02	70	1	28.00

DATE	BERYL- LIUM, DIS- SOLVED (UG/L AS BE)	CADMIUM DIS- SOLVED (UG/L AS CD)	CHRO- MIUM, DIS- SOLVED (UG/L AS CR)	COBALT, DIS- SOLVED (UG/L AS CO)	COPPER, DIS- SOLVED (UG/L AS CU)	IRON, DIS- SOLVED (UG/L AS FE)	LEAD, DIS- SOLVED (UG/L AS PB)	LITHIUM DIS- SOLVED (UG/L AS LI)	MANGA- NESE, DIS- SOLVED (UG/L AS MN)	MERCURY DIS- SOLVED (UG/L AS HG)
NOV 23...	<1.00	<1	<1	<3.00	7	80	2	<4.00	10	3.8
FEB 08...	<1.00	<1	<1	<3.00	2	60	8	<4.00	15	0.3
APR 04...	<1.00	<1	<1	<3.00	1	60	4	<4.00	14	<0.1
AUG 16...	<0.50	<1	<1	<3.00	<1	100	8	<4.00	21	<0.1

DATE	MOLYB- DENUM, DIS- SOLVED (UG/L AS MO)	NICKEL, DIS- SOLVED (UG/L AS NI)	SELE- NIUM, DIS- SOLVED (UG/L AS SE)	SILVER, DIS- SOLVED (UG/L AS AG)	STRON- TIUM, DIS- SOLVED (UG/L AS SR)	VANA- DIUM, DIS- SOLVED (UG/L AS V)	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 23...	<10	3	--	<1	70	<6.0	30	4	61	100
FEB 08...	<10	5	<1	<1	60	<6.0	3.00	21	117	100
APR 04...	<10	3	<1	2	50	<6.0	<3.00	22	119	100
AUG 16...	<10	<1	<1	<1	70	<6.0	4.00	3	0.16	75

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 downstream from outlet of Spednik Lake.

DRAINAGE AREA.--413 mi².

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

REVISED RECORDS.--WDR ME-82-1: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 367.75 ft, National Geodetic Vertical Datum of 1929.

REMARKS.--Records good. Flow regulated by Chiputneticook Lakes, combined usable capacity, about 13,200,000,000 ft³. Final regulation is at Spednik Lake Dam about 400 ft 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.--55 years, 729 ft³/s.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 6,670 ft³/s Apr. 4, 1976, gage height, 10.88 ft; minimum daily, 1.9 ft³/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, 4,500 ft³/s June 1, gage height, 9.56 ft; Minimum daily, 228 ft³/s Mar. 31.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	619	332	246	262	1320	1480	250	2810	4420	1190	1070	937
2	627	332	250	262	671	1040	250	2800	4000	1180	1130	937
3	632	332	250	262	309	661	250	2810	2460	1170	1120	930
4	630	332	250	262	311	661	250	2810	1670	1170	1220	928
5	630	334	250	262	309	663	250	2430	1600	859	1280	924
6	626	337	250	262	314	660	250	2260	1290	651	1270	911
7	626	337	254	262	967	657	254	2250	1290	651	1260	913
8	620	337	255	262	1340	482	255	2240	1290	653	1520	915
9	618	337	256	262	976	789	255	1850	1290	655	1640	906
10	618	337	258	809	925	1080	255	1650	1290	655	1620	903
11	747	337	258	1170	1200	964	260	1640	1290	655	1600	888
12	818	334	258	743	1300	874	262	1430	1280	655	1760	890
13	809	334	257	746	1260	612	262	1270	1280	655	1840	888
14	671	340	262	748	1300	297	262	1280	1280	653	1810	880
15	435	343	260	749	1290	243	267	1280	1270	647	1780	875
16	340	316	260	751	1370	243	267	1280	1270	650	1760	871
17	340	292	260	598	1410	243	268	1270	1270	651	1740	861
18	340	293	260	458	1400	246	658	1270	1270	501	1720	862
19	340	293	260	458	1390	246	1250	1270	1260	391	1700	855
20	340	293	260	458	1370	251	1990	1050	1260	552	1680	854
21	340	293	259	457	1360	254	2270	881	1260	655	1670	846
22	337	271	258	459	1340	243	2260	878	1250	554	1690	848
23	332	243	258	458	1320	232	2050	877	1250	545	1500	854
24	332	244	262	460	1310	235	1810	875	1240	545	1220	849
25	332	246	262	462	1300	236	2830	876	1230	545	1260	843
26	332	246	262	462	1280	241	3970	875	1230	670	1150	836
27	332	246	262	462	1260	243	4400	874	1220	702	1070	835
28	332	246	262	941	1240	243	4400	880	1210	888	1050	832
29	332	246	262	1360	---	243	3280	881	1200	983	1040	827
30	332	246	262	1350	---	244	2810	880	1190	978	1030	826
31	332	---	262	1340	---	228	---	2450	---	973	971	---
TOTAL	15091	9049	7985	18257	21142	15038	38345	48177	45610	22882	44171	26324
MEAN	487	302	258	589	1112	485	1278	1554	1520	738	1425	877
MAX	818	343	262	1360	1410	1480	4400	2810	4420	1190	1840	937
MIN	332	243	246	262	309	228	250	874	1190	391	971	826
CAL YR 1982	TOTAL	281083	MEAN	770	MAX	2770	MIN	243				
WTR YR 1983	TOTAL	322071	MEAN	842	MAX	4420	MIN	228				

ST. CROIX RIVER BASIN

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 southeast of village of Grand Lake Stream, and 0.8 mi downstream from outlet dam of Grand Lake.

DRAINAGE AREA.--227 mi².

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

REVISED RECORDS.--WDR ME-82-1: Drainage area.

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

REMARKS. Records fair. No or unreliable gage-height record, Oct. 1 to June 21. Flow completely regulated by Grand Lake, 0.8 mi upstream, and other lakes, combined usable capacity about 8,250,000 ft³. Several observations of water temperature and specific conductance were made during the year.

AVERAGE DISCHARGE.--55 years, 400 ft³/s.

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

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 2,600 ft³/s Apr. 25, gage height, 6.69 ft; minimum daily discharge, 125 ft³/s Nov. 17 to Dec 15, Dec. 19, 21-24.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	465	140	125	130	140	145	140	1820	1830	556	496	512
2	465	140	125	130	140	145	145	1800	1760	556	499	507
3	460	140	125	130	140	145	150	1790	1700	557	499	507
4	460	140	125	130	140	145	150	1770	1650	551	495	502
5	455	140	125	130	140	145	150	1750	750	546	488	502
6	455	140	125	130	145	150	150	850	735	561	483	496
7	455	145	125	130	145	160	150	660	730	561	483	492
8	450	145	125	130	145	165	150	660	725	556	704	491
9	450	145	125	130	145	170	150	660	715	554	823	482
10	450	145	125	135	145	170	150	660	710	547	816	478
11	410	145	125	135	145	175	150	660	705	538	803	471
12	220	145	125	135	145	175	160	660	675	534	855	469
13	195	145	125	135	145	175	165	655	640	531	879	466
14	170	145	125	135	145	180	165	655	640	529	864	461
15	156	145	125	135	145	180	165	655	640	526	852	456
16	145	130	126	135	145	180	165	655	635	534	844	449
17	145	125	128	135	145	180	165	650	635	531	833	442
18	145	125	126	140	145	184	165	650	635	378	820	441
19	145	125	125	140	145	184	165	650	630	291	811	438
20	145	125	126	140	145	189	250	650	625	432	800	435
21	145	125	125	140	145	150	615	645	615	516	786	430
22	145	125	125	140	145	140	625	645	609	345	761	434
23	145	125	125	140	145	140	640	640	605	235	753	437
24	140	125	125	140	145	140	670	640	603	235	740	432
25	140	125	130	140	145	140	1760	640	594	235	728	428
26	140	125	130	140	145	140	2580	640	587	235	714	423
27	140	125	130	140	145	140	2550	640	583	233	708	419
28	140	125	130	140	145	140	2480	640	578	419	699	417
29	140	125	130	140	---	140	2110	640	572	509	693	409
30	140	125	130	140	---	140	1850	640	564	507	688	405
31	140	---	130	140	---	140	---	640	---	504	581	---
TOTAL	7996	4025	3916	4210	4035	4894	19080	26010	23675	14342	21998	13731
MEAN	258	134	126	136	144	158	636	839	789	463	710	458
MAX	465	145	130	140	145	189	2580	1820	1830	561	879	512
MIN	140	125	125	130	140	140	140	640	564	233	483	405
CAL YR 1982	TOTAL	165007	MEAN	452	MAX	1460	MIN	125				
WTR YR 1983	TOTAL	147912	MEAN	405	MAX	2580	MIN	125				

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 downstream from powerhouse of Georgia-Pacific Corporation at Grand Falls, and 8 mi upstream from village of Woodland.

DRAINAGE AREA.--1,315 mi².

PERIOD OF RECORD.--October 1919 to September 1983 (discontinued). Monthly discharge only for some periods, published in WSP 1301.

REVISED RECORDS.--WSP 1231: 1922. WDR ME-82-1: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 148.8 ft 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. Final regulation is at Grand Falls Dam about 700 ft 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.--64 years, 2,365 ft³/s.

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

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 12,900 ft³/s Apr. 28, gage height, 8.22 ft; minimum daily, 856 ft³/s Nov. 11.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	2040	960	1470	2090	2340	1480	3090	9570	9530	2030	2660	2140
2	2030	906	1450	1910	2650	2060	3070	8680	10600	2110	2450	2140
3	1970	878	1480	1710	2440	2380	3060	8560	9970	1460	2640	2140
4	1080	881	1160	1830	2740	2340	3070	8750	8850	1360	2500	2250
5	1180	889	1060	1210	2750	2380	3080	8850	7430	2400	2470	1390
6	1290	902	930	932	2740	2350	3070	8370	5930	2910	2460	1210
7	1880	900	995	935	2740	2340	3060	7750	4890	2570	2530	1130
8	2030	879	1130	934	2750	2330	3050	7010	4140	1910	2540	1080
9	1960	864	1200	1740	2750	2200	3090	6380	3850	1880	2540	1080
10	1920	859	1080	1740	2770	1990	3110	6340	3380	1890	2670	1080
11	2030	856	1090	2710	2710	2060	3430	5730	3130	1890	2790	1070
12	1960	861	1120	3020	2780	2290	3940	4910	3140	1910	2800	1080
13	1260	888	1200	2910	2760	2830	3910	4560	2820	1910	2790	1080
14	1070	1090	1180	2190	2790	2900	3890	4070	2630	1900	2800	1080
15	1080	1810	1140	1850	2810	2920	3850	4140	2820	1940	2820	1080
16	1070	3060	1140	1680	2640	2930	3390	4120	2850	1950	2810	1080
17	1070	3050	1480	1680	2760	2930	3060	3950	2820	2210	2590	1700
18	1070	3040	1350	1850	2810	2930	5040	3250	2820	2410	2420	1730
19	1070	2570	1220	1660	2680	2950	6870	3540	2810	2790	2520	1730
20	1070	2120	1250	1790	2660	4090	7710	2950	2810	2550	2740	1730
21	1070	2120	1550	1610	2490	5760	7850	3100	2790	2470	2730	1730
22	1070	2120	1620	1450	2630	6650	6790	3000	2630	2400	2730	2270
23	1070	2120	1490	1430	2380	7830	6170	3170	2660	2680	2730	1800
24	1060	2120	1330	1550	2420	6750	5940	3100	2600	2600	2720	1790
25	1070	2120	1110	1760	2290	4710	8740	3090	2220	2420	2720	1790
26	1060	2060	1580	1800	2190	3930	11000	3090	2350	2700	2740	1800
27	1070	1890	2110	1690	2090	3430	12300	3090	2460	2630	2220	1790
28	1070	1730	2110	1690	2080	3120	12700	3100	2590	2600	2140	1790
29	1070	1520	2120	1840	---	3120	11400	3590	2430	2600	2140	1790
30	1070	1540	2110	2240	---	3130	10600	4330	2650	2590	2140	1790
31	1070	---	2110	2360	---	3110	---	7290	---	2600	2140	---
TOTAL	41880	47603	43565	55791	72640	102220	169330	161430	122600	70270	79690	47340
MEAN	1351	1587	1405	1800	2594	3297	5644	5207	4087	2267	2571	1578
MAX	2040	3060	2120	3020	2810	7830	12700	9570	10600	2910	2820	2270
MIN	1060	856	930	932	2080	1480	3050	2950	2220	1360	2140	1070
CAL YR 1982	TOTAL	916538	MEAN	2511	MAX	9590	MIN	856				
WTR YR 1983	TOTAL	1014359	MEAN	2779	MAX	12700	MIN	856				

ST. CROIX RIVER BASIN

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.

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

REVISED RECORDS.--WDR ME-82-1: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 66.231 ft, 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. Final regulation is at Woodland, 5.6 mi 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.--24 years (water years 1960-83), 2,764 ft³/s.

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

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 13,400 ft³/s Apr. 28, gage height, 10.71 ft; minimum daily, 875 ft³/s Nov. 3.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	2030	985	1560	2120	2340	1620	3190	10100	9890	1970	2390	2120
2	2060	937	1640	1930	2570	1840	3160	9260	10900	1850	2220	1950
3	2000	875	1500	1760	2720	2610	3180	8830	10500	1620	2510	1990
4	1190	894	1300	1810	3090	2400	3260	9000	9220	1160	2200	2140
5	1130	1200	1140	1330	3030	2450	3350	9080	7920	1970	2290	1620
6	1210	1250	1040	1000	2850	2350	3340	8880	6070	2780	2230	1110
7	1750	1080	953	892	2790	2340	3290	8010	5250	2540	2320	1020
8	2030	1070	1140	979	2810	2400	3290	7400	4370	1680	2320	1040
9	1990	975	1240	1700	2790	2320	3290	6750	3800	1700	2400	968
10	1980	950	1110	1690	2810	2100	3270	6590	3430	1690	2390	969
11	1920	903	1110	2670	2840	2180	3900	5970	3110	1690	2600	970
12	1950	881	1150	3200	3090	2500	4490	5230	2990	1720	2740	1010
13	1460	1090	1240	3120	3050	2920	4270	4870	2790	1750	2640	1050
14	1160	1460	1230	2450	2760	2980	4110	4290	2480	1730	2540	1040
15	1230	1840	1150	1720	2740	3020	4060	4230	2680	1770	2740	1030
16	1120	3290	1160	1940	2700	3030	3580	4240	2650	1980	2680	1030
17	1070	3280	1670	1550	2660	3090	3330	4180	2680	2110	2420	1370
18	1100	3210	1560	1830	2790	3130	5780	3330	2670	2240	2340	1800
19	1060	2860	1270	1730	2670	3230	7190	3700	2640	2550	2240	1760
20	1060	2230	1250	1990	2640	4560	8100	3020	2630	2390	2560	1720
21	1090	2210	1560	1700	2460	6360	8390	3280	2620	2130	2550	1670
22	1070	2220	1590	1590	2520	7740	7350	2870	2530	2270	2450	2110
23	1060	2270	1480	1420	2430	8600	6430	3350	2470	2520	2560	2110
24	1050	2180	1320	1660	2360	7680	6410	3200	2490	2290	2510	1680
25	1060	2130	1180	1870	2220	5230	9750	3120	2110	2210	2580	1730
26	1060	2130	1540	1790	2160	4140	12500	3070	2150	2410	2580	1770
27	1050	1940	2160	1710	2070	3720	12900	3060	2330	2450	2140	1790
28	1050	1730	2160	1680	2010	3230	13300	3230	2400	2280	2020	1700
29	1050	1670	2220	1750	---	3480	12300	3630	2300	2410	2020	1730
30	1050	1490	2190	2240	---	3420	11300	4470	2410	2330	2020	1800
31	1050	---	2120	2310	---	3280	---	7530	---	2370	2000	---
TOTAL	42140	51230	44933	57131	73970	109950	182060	167770	122480	64560	74200	45797
MEAN	1359	1708	1449	1843	2642	3547	6069	5412	4083	2083	2394	1527
MAX	2060	3290	2220	3200	3090	8600	13300	10100	10900	2780	2740	2140
MIN	1050	875	953	892	2010	1620	3160	2870	2110	1160	2000	968
CAL YR 1982	TOTAL	953994	MEAN	2614	MAX	10700	MIN	R72				
WTR YR 1983	TOTAL	1036221	MEAN	2839	MAX	13300	MIN	R75				

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 downstream from international highway bridge at Milltown.

DRAINAGE AREA.--1,460 mi².

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 131 micromhos Nov. 4; minimum, 36 micromhos Apr. 28.

pH: Maximum 7.4 units May 19; minimum, 6.4 units Feb. 7-9, 22, Mar. 5, 6, 9, 10, Apr. 27.

WATER TEMPERATURES: Maximum 26.0°C Aug. 7, 8; minimum, 0.0°C on many days during winter period.

DISSOLVED OXYGEN: Maximum recorded, 14.1 mg/L Mar. 27; minimum recorded 5.1 mg/L July 3.

WATER QUALITY DATA, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983

DATE	TIME	STREAM- FLOW, INSTAN- TANEOUS (CFS)	SPE- CFIC CON- DUCT- ANCE (UMHOS)	PH (UNITS)	TEMPER- ATURE, AIR (DEG C)	TEMPER- ATURE (DEG C)	TUR- BID- ITY (NTU)	BARO- METRIC PRES- SURE (MM OF HG)	OXYGEN, DIS- SOLVED (MG/L)	OXYGEN, (PER- CENT SATUR- ATION)	COLI- FORM, FECAL, 0.7 UM-MF (COLS./ 100 ML)	STREP- TOCOCCI FECAL, KF AGAR (COLS. PER 100 ML)
OCT 25...	1700	1060	112	6.9	13.0	9.0	3.5	775	10.0	85	110	130
FEB 07...	1845	2760	67	6.8	-4.0	0.0	2.0	774	11.7	79	K60	100
APR 04...	1930	3360	58	6.6	2.5	3.0	1.9	769	12.8	94	110	300
AUG 17...	0900	2530	68	6.7	19.0	21.5	1.2	760	7.1	81	>600	>1000

DATE	HARD- NESS (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- LINITY LAB (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)	SOLIDS, RESIDUE AT 180 DEG. C DIS- SOLVED (MG/L)	SOLIDS, SUM OF CONSTITUENTS, DIS- SOLVED (MG/L)
OCT 25...	17	5.5	0.8	17	1.0	20	16	13	<0.1	2.0	79	68
FEB 07...	14	4.5	0.8	7.1	0.6	12	6.5	8.2	<0.1	3.8	46	39
APR 04...	12	3.8	0.7	6.4	0.6	11	8.0	6.4	<0.1	3.1	46	36
AUG 17...	13	4.1	0.7	8.2	0.6	13	10	8.0	<0.1	1.5	49	42

ST. CROIX RIVER BASIN

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

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983

DATE	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, DIS- SOLVED (MG/L AS P)	PHOS- PHORUS, ORTHO, DIS- SOLVED (MG/L AS P)	ALUM- INUM, DIS- SOLVED (UG/L AS AL)	ARSENIC DIS- SOLVED (UG/L AS AS)	BARIUM, DIS- SOLVED (UG/L AS BA)
OCT 25...	<0.1	0.05	0.06	0.4	0.04	<0.01	<0.01	100	1	18.00
FEB 07...	0.13	0.04	0.05	0.8	0.02	0.01	<0.01	10	1	26.00
APR 04...	<0.1	0.04	0.05	0.2	0.02	<0.01	<0.01	90	1	11.00
AUG 17...	0.1	0.16	0.21	<0.1	0.02	0.03	0.01	80	1	29.00

DATE	BERYL- LIUM, DIS- SOLVED (UG/L AS BE)	CADMIUM DIS- SOLVED (UG/L AS CD)	CHRO- MIUM, DIS- SOLVED (UG/L AS CR)	COBALT, DIS- SOLVED (UG/L AS CO)	COPPER, DIS- SOLVED (UG/L AS CU)	IRON, DIS- SOLVED (UG/L AS FE)	LEAD, DIS- SOLVED (UG/L AS PB)	LITHIUM DIS- SOLVED (UG/L AS LI)	MANGA- NESE, DIS- SOLVED (UG/L AS MN)	MERCURY DIS- SOLVED (UG/L AS HG)
OCT 25...	<1.00	<1	--	<3.00	2	160	2	<4.00	61	0.3
FEB 07...	<1.00	<1	<1	<3.00	2	130	7	<4.00	40	0.6
APR 04...	<1.00	<1	<1	<3.00	1	80	6	<4.00	25	0.1
AUG 17...	<0.50	<1	<1	<3.00	1	110	8	<4.00	31	<0.1

DATE	MOLYB- DENUM, DIS- SOLVED (UG/L AS MO)	NICKEL, DIS- SOLVED (UG/L AS NI)	SELE- NIUM, DIS- SOLVED (UG/L AS SE)	SILVER, DIS- SOLVED (UG/L AS AG)	STRON- TIUM, DIS- SOLVED (UG/L AS SR)	VANA- DIUM, DIS- SOLVED (UG/L AS V)	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 25...	<10	6	<1	<1	30	<6.0	7.00	1	2.9	100
FEB 07...	<10	5	<1	<1	20	<6.0	10	6	45	72
APR 04...	<10	2	<1	1	20	<6.0	<3.00	8	73	56
AUG 17...	<10	<1	<1	<1	20	<6.0	30	4	27	82

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

SPECIFIC CONDUCTANCE (MICROMHOS/CM AT 25 DEG. C), WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983

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

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
FEBRUARY			MARCH			APRIL			MAY			
1	83	79	81	94	91	93	71	68	69	44	43	44
2	86	76	83	112	89	101	71	68	69	47	44	45
3	77	70	74	89	79	82	69	67	68	47	46	47
4	79	70	73	80	77	78	70	65	67	48	45	46
5	71	66	68	82	78	80	66	62	64	48	46	47
6	74	66	69	87	80	83	64	61	63	48	46	47
7	72	68	70	86	84	85	67	64	65	48	47	48
8	73	67	70	86	83	85	67	65	66	50	48	49
9	74	72	73	89	86	87	67	65	66	54	50	51
10	81	74	77	93	89	91	67	65	66	55	53	54
11	80	73	78	94	85	88	70	62	66	55	50	53
12	81	76	79	87	82	84	61	57	59	55	47	50
13	81	78	80	82	74	80	59	57	58	60	56	58
14	84	81	83	74	71	72	---	---	---	69	57	62
15	81	76	79	74	71	73	---	---	---	69	66	67
16	78	76	77	77	73	75	---	---	---	68	60	62
17	83	77	80	78	76	77	---	---	---	59	54	56
18	82	77	79	79	77	78	---	---	---	56	53	55
19	85	79	81	79	76	77	50	44	47	57	44	50
20	82	76	79	77	62	72	44	42	44	47	42	45
21	82	75	79	63	53	59	43	42	43	59	47	49
22	83	77	80	54	50	52	46	43	44	65	56	60
23	81	76	79	50	45	47	47	46	46	61	58	59
24	85	79	83	47	43	45	49	48	48	73	59	62
25	86	83	84	53	47	49	53	42	48	81	68	75
26	93	86	90	58	53	56	42	37	39	68	63	65
27	98	90	94	62	56	59	38	37	37	69	64	66
28	95	92	94	68	62	65	39	36	37	72	65	69
29	---	---	---	69	65	67	42	37	39	70	61	66
30	---	---	---	67	64	66	43	41	42	62	56	60
31	---	---	---	68	64	66	---	---	---	58	44	53
MONTH	98	66	79	112	43	73	71	36	54	81	42	55

ST. CROIX RIVER BASIN

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

SPECIFIC CONDUCTANCE (MICROMHOS/CM AT 25 DEG. C), WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
	JUNE			JULY			AUGUST			SEPTEMBER		
1	---	---	---	84	75	78	90	78	81	90	81	88
2	---	---	---	91	84	89	---	---	---	87	80	84
3	---	---	---	94	87	90	---	---	---	86	68	74
4	---	---	---	116	86	100	---	---	---	94	80	89
5	---	---	---	122	116	119	84	78	81	95	81	86
6	43	45	46	110	76	83	84	73	77	97	89	93
7	53	50	51	82	76	80	86	79	83	92	65	79
8	57	52	54	43	73	80	85	76	81	64	52	57
9	60	57	59	94	90	92	85	77	81	54	52	53
10	65	59	61	97	92	94	82	78	80	54	52	53
11	64	53	66	96	92	94	80	73	77	56	54	55
12	73	66	69	98	91	94	76	73	75	59	56	58
13	76	71	73	94	90	93	77	74	76	60	59	60
14	81	76	79	100	95	97	79	76	77	63	60	61
15	80	73	76	96	91	94	76	72	73	68	63	65
16	77	72	74	98	94	96	74	71	72	71	68	69
17	77	74	75	98	88	92	77	73	75	72	70	71
18	75	72	74	90	81	84	81	77	79	72	64	66
19	77	72	74	84	80	82	81	75	78	78	67	72
20	77	73	74	84	74	78	81	74	76	85	79	81
21	74	71	72	92	80	85	77	75	76	89	85	87
22	75	70	73	93	84	89	80	75	77	90	86	88
23	77	71	74	91	86	88	81	78	79	---	---	---
24	78	71	75	89	79	84	81	78	79	82	74	79
25	80	75	77	89	86	97	78	76	77	80	79	80
26	84	78	81	91	83	87	77	73	75	79	75	77
27	85	76	80	83	78	80	86	74	79	77	74	76
28	84	75	79	86	76	81	91	86	89	76	72	74
29	82	74	77	88	78	82	92	87	90	80	76	78
30	81	77	79	88	77	81	90	88	89	81	77	80
31	---	---	---	86	77	81	90	88	89	---	---	---
MONTH	86	45	71	122	73	88	92	71	79	97	52	74
YEAR	131	36	77									

PH (STANDARD UNITS), WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983

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

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PH (STANDARD UNITS), WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983

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

ST. CROIX RIVER BASIN

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

TEMPERATURE, WATER (DEG. C), WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983

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

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

TEMPERATURE, WATER (DEG. C), WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		JUNE			JULY			AUGUST			SEPTEMBER	
1	---	---	---	24.0	22.0	23.0	24.5	22.0	23.0	21.5	20.5	21.0
2	---	---	---	23.5	22.0	23.0	---	---	---	22.0	20.0	21.0
3	---	---	---	24.0	22.5	23.0	---	---	---	22.5	20.5	21.5
4	---	---	---	25.0	24.0	24.0	---	---	---	23.0	21.0	22.0
5	---	---	---	25.5	24.5	25.0	25.5	23.5	24.5	23.5	21.0	22.0
6	16.5	15.0	16.0	25.5	23.0	23.5	25.0	23.5	24.5	23.5	23.0	23.0
7	16.0	15.5	16.0	25.0	22.0	23.0	26.0	24.0	25.0	23.5	23.0	23.5
8	17.0	15.5	16.0	25.0	23.0	24.0	26.0	24.0	25.0	23.0	21.0	22.0
9	14.0	15.5	17.0	24.5	23.0	24.0	25.5	24.0	25.0	21.0	20.5	20.5
10	14.0	16.0	17.0	24.0	21.5	22.5	25.5	23.5	24.5	22.0	21.0	21.5
11	19.0	16.0	17.5	23.5	21.5	22.5	24.5	23.0	24.0	22.0	21.5	22.0
12	20.0	17.5	18.5	24.0	22.0	23.0	24.0	21.0	22.0	22.0	21.0	21.5
13	14.5	14.0	14.0	24.5	22.0	23.0	23.0	20.5	21.5	21.5	21.0	21.5
14	20.0	14.0	19.0	22.5	21.5	22.0	23.0	21.0	22.0	21.0	19.5	20.5
15	20.0	14.5	19.5	23.0	21.5	22.5	22.5	21.0	22.0	19.5	19.0	19.5
16	20.5	14.5	19.5	23.0	21.5	22.0	23.5	21.0	22.5	19.5	19.0	19.0
17	21.5	19.5	20.5	24.0	22.0	23.0	23.5	21.5	23.0	19.0	17.5	18.5
18	22.0	19.5	20.5	24.0	22.5	23.0	23.5	22.5	22.5	18.5	17.5	18.0
19	22.0	20.0	21.0	24.5	22.0	23.5	24.0	22.0	23.0	18.5	17.5	18.0
20	23.5	20.5	22.0	24.5	22.5	23.5	24.0	22.5	23.5	19.0	17.5	18.0
21	24.5	21.0	23.0	24.0	22.0	23.0	23.5	21.5	22.5	20.0	18.5	19.0
22	24.5	22.5	23.5	22.5	21.5	22.0	22.5	21.0	21.5	20.0	18.5	19.0
23	25.5	23.0	24.0	23.0	19.5	21.0	22.5	20.5	21.5	---	---	---
24	25.0	23.5	24.5	23.0	21.5	22.5	22.5	20.5	21.5	18.5	17.5	18.0
25	24.5	22.5	23.5	23.0	21.0	22.0	22.5	20.5	21.5	18.0	17.0	17.5
26	24.5	22.0	23.0	23.5	21.5	22.5	22.0	20.5	21.0	18.0	17.0	17.5
27	24.5	22.0	22.5	23.5	21.5	22.5	22.5	20.5	21.5	17.5	16.5	17.0
28	23.5	21.5	22.5	24.5	22.0	23.0	22.5	21.0	22.0	17.0	15.5	16.5
29	24.0	21.5	22.5	23.5	22.0	23.0	22.0	21.0	21.0	16.5	15.5	16.0
30	24.0	21.5	23.0	24.0	22.5	23.0	22.0	21.0	21.5	17.5	15.5	16.5
31	---	---	---	24.5	22.5	23.5	22.0	20.5	21.0	---	---	---
MONTH	25.5	15.0	20.5	25.5	19.5	23.0	26.0	20.5	22.5	23.5	15.5	19.5
YEAR	26.0	.0	11.5									

OXYGEN, DISSOLVED (DO), MG/L, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		OCTOBER			NOVEMBER			DECEMBER			JANUARY	
1	9.2	8.7	9.9	9.6	9.3	9.5	12.5	12.4	12.5	---	---	---
2	9.5	8.9	9.2	9.4	9.3	9.3	12.4	12.3	12.4	---	---	---
3	9.6	9.2	9.4	9.4	9.0	9.2	12.4	12.3	12.4	---	---	---
4	9.5	9.2	9.3	---	---	---	12.5	12.0	12.2	12.0	11.7	11.9
5	9.7	9.2	9.4	---	---	---	---	---	---	11.9	11.4	11.7
6	9.8	9.3	9.5	---	---	---	---	---	---	11.4	11.0	11.2
7	9.7	9.2	9.4	9.8	9.4	9.5	---	---	---	---	---	---
8	9.6	9.4	9.5	10.0	9.8	9.9	11.2	11.1	11.1	---	---	---
9	10.1	9.5	9.7	10.3	10.0	10.2	11.5	11.1	11.3	11.9	11.6	11.8
10	10.4	9.9	10.1	10.6	10.2	10.5	---	---	---	11.7	11.6	11.7
11	10.4	10.1	10.2	10.8	10.3	10.5	---	---	---	---	---	---
12	10.3	10.0	10.1	10.9	10.5	10.7	---	---	---	---	---	---
13	10.4	9.9	10.1	10.6	10.0	10.4	---	---	---	---	---	---
14	10.0	9.6	9.2	10.9	10.2	10.5	---	---	---	---	---	---
15	9.6	9.3	9.5	11.3	10.9	11.0	---	---	---	11.8	11.7	11.8
16	9.7	9.5	9.6	11.8	11.3	11.6	11.8	11.3	11.6	11.8	11.4	11.7
17	10.1	9.7	9.8	12.1	11.7	11.9	---	---	---	11.3	11.0	11.2
18	10.2	9.9	10.0	12.5	11.5	12.2	12.4	12.0	12.2	11.6	11.3	11.4
19	10.1	10.0	10.0	12.4	12.2	12.3	12.1	11.6	11.8	12.0	11.6	11.8
20	10.1	9.9	10.0	12.3	12.0	12.1	11.6	11.3	11.4	---	---	---
21	9.9	9.6	9.8	12.2	12.0	12.1	11.7	11.3	11.5	---	---	---
22	10.0	9.7	9.8	11.9	11.5	11.7	12.0	11.6	11.8	---	---	---
23	10.1	9.9	10.0	11.6	11.4	11.5	12.0	11.9	11.9	---	---	---
24	10.2	10.0	10.1	11.4	11.0	11.2	12.0	11.7	11.8	---	---	---
25	10.1	9.9	10.0	11.9	11.5	11.7	---	---	---	---	---	---
26	10.0	9.7	9.8	---	---	---	---	---	---	12.5	12.2	12.4
27	9.9	9.7	9.8	---	---	---	---	---	---	12.5	12.3	12.4
28	9.9	8.6	9.6	13.0	12.9	13.0	---	---	---	12.6	12.5	12.6
29	9.8	9.2	9.5	12.9	12.4	12.6	---	---	---	12.7	12.4	12.5
30	9.6	9.3	9.5	12.5	12.3	12.4	---	---	---	12.6	12.6	12.6
31	9.5	9.3	9.5	---	---	---	---	---	---	12.6	12.5	12.5
MONTH	10.4	8.6	9.7	13.0	9.0	11.1	12.5	11.1	11.9	12.7	11.0	12.0

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 upstream from railroad bridge, 0.9 mi upstream from Cathance Stream, and 1 mi west of Dennyville.

DRAINAGE AREA.--92.9 mi².

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

REVISED RECORDS.--WDR ME-82-1: Drainage area.

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

REMARKS.--Records good. Flow slightly regulated by dam at outlet of Meddybemps Lake, 14 mi upstream. Several observations of water temperature and specific conductance were made during the year.

AVERAGE DISCHARGE.--28 years, 197 ft³/s (28.65 in/yr).

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

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

Date	Time	Discharge (ft ³ /s)	Gage height (ft)	Date	Time	Discharge (ft ³ /s)	Gage height (ft)
Mar. 20	1600	1160	4.81	Apr. 26	0100	* 1680	5.89
Apr. 11	2000	1040	4.52	May 31	1400	925	4.24
Apr. 18	0900	1220	4.94				

Minimum discharge, 47 ft³/s Nov. 1, 2, gage height, 0.84 ft.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	57	47	148	134	139	116	280	593	722	114	60	102
2	56	53	139	121	144	118	249	576	468	114	100	94
3	54	83	135	104	193	274	238	639	326	114	126	88
4	52	107	136	68	578	291	308	626	284	112	97	84
5	50	178	131	89	470	293	470	552	359	110	86	81
6	49	470	125	88	225	242	566	441	303	114	73	79
7	48	327	124	90	244	206	568	382	339	106	68	79
8	50	206	113	100	189	175	532	350	349	92	63	76
9	55	153	104	81	172	155	530	373	322	85	68	75
10	54	124	81	84	149	145	471	414	296	86	69	74
11	52	106	91	122	145	178	770	304	278	89	64	73
12	50	101	84	292	136	281	899	254	263	83	113	72
13	48	129	72	243	125	492	709	280	252	81	166	71
14	72	371	71	157	139	527	563	280	194	80	124	70
15	153	311	76	132	135	457	478	248	164	76	92	69
16	131	399	91	106	131	405	436	242	159	116	83	68
17	102	294	301	113	125	343	517	299	157	109	73	69
18	83	208	251	113	128	293	1140	303	152	91	66	79
19	71	164	174	97	133	311	900	250	149	80	65	76
20	65	141	140	100	129	1000	676	231	149	75	62	74
21	62	128	128	104	124	908	550	489	145	73	57	72
22	61	127	116	105	123	957	481	420	139	84	54	86
23	57	130	102	105	120	896	436	287	135	102	54	115
24	55	128	96	162	122	531	408	250	131	88	58	98
25	53	129	102	261	119	321	1230	295	127	80	81	86
26	52	119	139	234	118	263	1560	286	125	77	85	79
27	50	115	181	190	115	230	1170	235	123	72	85	75
28	50	101	163	161	115	249	863	326	121	68	84	72
29	49	103	205	139	---	496	693	352	119	67	84	70
30	48	148	195	127	---	472	613	312	116	66	84	69
31	48	---	154	124	---	344	---	832	---	64	88	---
TOTAL	1937	5200	4168	4146	4784	11969	19304	11721	6966	2768	2532	2375
MEAN	62.5	173	134	134	171	386	643	378	232	89.3	81.7	79.2
MAX	153	470	301	292	578	1000	1560	832	722	116	166	115
MIN	48	47	71	68	115	116	238	231	116	64	54	68
CFSM	.67	1.86	1.44	1.44	1.84	4.16	6.92	4.07	2.50	.96	.88	.85
IN.	.78	2.08	1.67	1.66	1.92	4.79	7.73	4.69	2.79	1.11	1.01	.95

CAL YR 1982	TOTAL	71549	MEAN 196	MAX	1130	MIN 47	CFSM 2.11	IN 28.65
WTR YR 1983	TOTAL	77870	MEAN 213	MAX	1560	MIN 47	CFSM 2.29	IN 31.18

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 upstream from East Base Road bridge in Columbia, 0.6 mi upstream from the junction of North Branch Pleasant River, and 1.6 mi northeast of the village of Epping.

DRAINAGE AREA.--60.6 mi².

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

GAGE.--Water-stage recorder. Datum of gage is 127.02 ft, National Geodetic Vertical Datum of 1929.

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

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 968 ft³/s Apr. 26, 1983, gage height, 9.89 ft; minimum, 17 ft³/s Sept. 10, 1980, gage height 4.99 ft.

EXTREMES FOR CURRENT YEAR.--Peak discharges above base of 440 ft³/s and maximums (*):

Date	Time	Discharge (ft ³ /s)	Gage height (ft)	Date	Time	Discharge (ft ³ /s)	Gage height (ft)
Mar. 22	0230	600	8.55	Apr. 26	1600	* 968	9.89
Apr. 19	1445	797	9.29				

Minimum discharge 22 ft³/s Sept. 17, gage height 5.10 ft.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	37	32	105	145	88	77	281	415	316	52	47	51
2	35	40	100	125	100	89	251	377	382	51	55	52
3	33	56	96	110	150	143	226	359	375	50	70	47
4	32	75	93	90	190	171	220	341	331	48	62	43
5	30	145	98	75	215	207	231	328	303	47	58	41
6	28	250	96	74	190	220	237	301	283	52	61	40
7	28	310	95	75	165	185	226	269	275	85	58	37
8	28	250	89	78	140	165	210	231	248	81	53	34
9	33	210	82	81	120	145	207	214	219	68	56	32
10	38	160	72	72	105	123	203	226	188	61	68	30
11	36	130	64	105	100	148	240	250	163	58	62	30
12	35	100	70	200	94	210	303	257	143	55	76	30
13	27	92	57	145	87	287	384	244	127	55	130	28
14	33	225	53	110	83	348	386	233	116	57	133	26
15	80	255	59	92	82	423	333	222	115	57	105	26
16	106	300	100	82	80	408	279	214	115	70	85	26
17	87	260	195	76	79	375	277	215	105	69	79	28
18	74	215	170	72	78	331	386	224	97	64	72	45
19	65	170	145	69	84	299	737	222	99	57	68	58
20	57	135	125	66	87	344	663	205	120	51	67	51
21	51	120	105	66	84	491	563	228	109	49	60	31
22	46	110	97	68	82	579	503	253	93	56	54	29
23	42	115	89	71	80	529	439	277	82	85	52	65
24	39	110	81	115	78	480	389	263	76	81	40	84
25	36	110	89	170	79	420	452	248	68	68	36	73
26	35	105	105	145	78	361	866	242	65	61	46	59
27	33	98	140	120	76	316	821	235	62	56	36	51
28	33	90	175	105	74	281	645	222	60	53	43	46
29	32	88	197	92	---	269	545	212	58	50	43	42
30	31	97	207	84	---	287	471	214	54	48	44	39
31	30	---	175	80	---	301	---	265	---	48	44	---
TOTAL	1330	4453	3424	3058	2948	9012	11974	8006	4847	1843	1963	1274
MEAN	42.9	148	110	98.6	105	291	399	258	162	59.5	63.3	42.5
MAX	106	310	207	200	215	579	866	415	382	85	133	84
MIN	27	32	53	66	74	77	203	205	54	47	36	26
CFSM	.71	2.44	1.82	1.63	1.73	4.80	6.58	4.26	2.67	.98	1.05	.70
IN.	.82	2.73	2.10	1.88	1.81	5.53	7.35	4.91	2.98	1.13	1.20	.78
CAL YR 1982	TOTAL	48699	MEAN 133	MAX 815	MIN 27	CFSM 2.20	IN 29.89					
WTR YR 1983	TOTAL	54132	MEAN 148	MAX 866	MIN 26	CFSM 2.44	IN 33.23					

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 upstream from railroad bridge at Cherryfield and 0.7 mi downstream from West Branch of Narraguagus River.

DRAINAGE AREA.--227 mi².

WATER-DISCHARGE RECORDS

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

REVISED RECORDS.--WSP 1301: 1948(M). WDR ME-82-1: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 44.2 ft, 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.--35 years, 503 ft³/s (30.00 in/yr).

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

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

Date	Time	Discharge (ft ³ /s)	Gage height (ft)	Date	Time	Discharge (ft ³ /s)	Gage height (ft)
Mar. 20	2100	2860	12.46	Apr. 25	2300	* 4490	13.90
Apr. 18	2100	3390	12.96				

Minimum discharge, 6.0 ft³/s Oct. 26, gage height, 6.54 ft, caused by unusual regulation.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	112	94	389	473	365	261	865	1200	1690	126	110	89
2	107	102	373	419	367	349	766	1120	1490	121	130	85
3	100	136	355	343	512	738	737	1200	1140	119	141	81
4	93	183	361	276	1280	806	794	1140	933	123	134	76
5	88	330	360	248	1260	756	868	1060	1050	132	131	72
6	83	983	360	284	966	656	818	928	915	182	124	68
7	81	1000	355	282	703	582	745	807	788	324	117	64
8	80	797	327	304	543	504	710	706	704	299	107	61
9	88	576	305	259	455	459	736	800	602	267	127	60
10	96	460	243	231	395	432	684	1110	520	225	132	59
11	97	382	268	459	360	659	1390	1010	469	189	121	60
12	93	338	248	966	355	1010	1800	879	422	166	200	59
13	91	422	204	968	345	1650	1520	811	382	149	302	58
14	102	1000	192	734	330	1770	1200	758	348	139	261	55
15	225	999	216	545	315	1600	945	676	349	133	213	53
16	271	1120	306	387	310	1400	802	669	334	141	201	50
17	243	917	732	325	300	1280	1330	769	310	152	185	58
18	208	722	607	305	305	1120	3190	721	290	158	167	96
19	181	577	501	280	320	1160	3270	609	299	144	152	88
20	161	492	433	265	320	2560	2560	604	316	130	140	86
21	151	440	394	260	305	2750	1900	1220	283	121	122	77
22	144	419	358	270	295	2520	1500	1100	251	153	107	102
23	134	429	304	280	291	2410	1240	902	224	206	99	335
24	125	417	287	572	295	2170	1100	847	203	222	92	309
25	118	403	351	772	287	1590	3570	880	183	209	86	244
26	53	379	498	706	280	1140	4220	799	171	187	81	193
27	81	368	563	583	271	916	3440	683	160	166	81	159
28	100	329	569	475	266	896	2390	745	152	148	79	137
29	98	324	693	403	---	1270	1720	773	145	134	77	116
30	97	392	664	362	---	1210	1350	761	136	125	77	108
31	96	---	552	344	---	1030	---	1510	---	118	80	---
TOTAL	3797	15530	12368	13380	12396	37654	48160	27797	15259	5208	4176	3158
MEAN	122	518	399	432	443	1215	1605	897	509	168	135	105
MAX	271	1120	732	968	1280	2750	4220	1510	1690	324	302	335
MIN	53	94	192	231	266	261	684	604	136	118	77	50
CFSM	.54	2.28	1.76	1.90	1.95	5.35	7.07	3.95	2.24	.74	.60	.46
IN.	.62	2.54	2.03	2.19	2.03	6.17	7.89	4.56	2.50	.85	.68	.52
CAL YR 1982	TOTAL	172895	MEAN	474	MAX	3800	MIN	53	CFSM	2.09	IN	28.33
WTR YR 1983	TOTAL	198883	MEAN	545	MAX	4220	MIN	50	CFSM	2.40	IN	32.59

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.

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.

WATER QUALITY DATA, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983

DATE	TIME	STREAM- FLOW, INSTAN- TANEOUS (CFS)	SPE- CIFIC CON- DUCT- ANCE (UMHOS)	PH (UNITS)	TEMPER- ATURE, AIR (DEG C)	TEMPER- ATURE (DEG C)	TUR- BID- ITY (NTU)	BARD- METRIC PRES- SURE (MM OF HG)	OXYGEN, DIS- SOLVED (MG/L)	OXYGEN, DIS- SOLVED (PER- CENT SATUR- ATION)	COLI- FORM, FECAL, 0.7 UM-MF (COLS./ 100 ML)	STREP- TOCOCCI FECAL, KF AGAR (COLS. PER 100 ML)
OCT 25...	1300	117	34	6.6	16.0	7.0	1.8	772	12.3	100	120	K14
DEC 14...	1630	194	34	6.6	-6.0	0.5	1.9	778	14.0	95	55	310
FEB 07...	1230	673	29	6.4	-4.0	0.0	1.5	770	14.2	96	K6	130
APR 05...	0845	878	24	6.1	7.0	3.5	1.6	768	13.4	100	K8	73
JUN 21...	1800	274	34	6.8	26.0	23.0	1.5	775	8.1	93	57	110
AUG 17...	1330	184	31	6.6	28.0	23.0	2.0	772	8.6	99	46	90

DATE	HARD- NESS (MG/L AS CACO3)	CALCIUM DIS- SOLVED (MG/L AS CA)	MAGNE- SIUM, DIS- SOLVED (MG/L AS MG)	SODIUM, DIS- SOLVED (MG/L AS NA)	POTAS- SIUM, DIS- SOLVED (MG/L AS K)	ALKA- LINITY 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)	SOLIDS, RESIDUE AT 180 DEG. C DIS- SOLVED (MG/L)	SOLIDS, SUM OF CONSTITU- ENTS, DIS- SOLVED (MG/L)
OCT 25...	10	2.7	0.7	3.5	0.4	9.0	5.0	3.4	0.2	6.9	47	29
DEC 14...	9	2.3	0.7	2.8	0.5	6.0	4.0	3.4	0.1	7.7	46	25
FEB 07...	7	2.1	0.5	2.4	0.4	4.0	3.5	3.5	<0.1	6.8	33	22
APR 05...	5	1.4	0.4	2.1	0.4	4.0	3.1	2.8	<0.1	5.1	31	18
JUN 21...	8	2.2	0.5	2.8	0.5	8.0	3.5	2.8	0.2	4.0	29	21
AUG 17...	10	2.9	0.8	3.6	0.5	9.0	4.0	2.9	0.1	5.4	37	26

01022500 NARRAGUAGUS RIVER AT CHERRYFIELD, ME--Continued

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983

DATE	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, DIS- SOLVED (MG/L AS P)	PHOS- PHORUS, ORTHO, DIS- SOLVED (MG/L AS P)	ALUM- INUM, DIS- SOLVED (UG/L AS AL)	ARSENIC DIS- SOLVED (UG/L AS AS)	BARIUM, DIS- SOLVED (UG/L AS BA)
OCT 25...	<0.1	0.05	0.06	0.3	0.01	<0.01	<0.01	200	<1	11.00
DEC 14...	0.13	0.04	0.05	0.4	0.01	<0.01	<0.01	--	--	--
FEB 07...	0.13	0.02	0.03	0.6	0.01	<0.01	<0.01	30	1	16.00
APR 05...	<0.1	<0.01	0.01	0.2	0.01	<0.01	<0.01	100	1	7.00
JUN 21...	<0.1	0.03	0.04	0.4	0.06	0.02	<0.01	--	--	--
AUG 17...	<0.1	0.02	0.03	<0.1	0.01	0.01	<0.01	100	2	28.00

DATE	BERYL- LIUM, DIS- SOLVED (UG/L AS BE)	CADMIUM DIS- SOLVED (UG/L AS CD)	CHRO- MIUM, DIS- SOLVED (UG/L AS CR)	COBALT, DIS- SOLVED (UG/L AS CO)	COPPER, DIS- SOLVED (UG/L AS CU)	IRON, DIS- SOLVED (UG/L AS FE)	LEAD, DIS- SOLVED (UG/L AS PB)	LITHIUM DIS- SOLVED (UG/L AS LI)	MANGA- NESE, DIS- SOLVED (UG/L AS MN)	MERCURY DIS- SOLVED (UG/L AS HG)
OCT 25...	<1.00	<1	<1	<3.00	1	300	3	<4.00	13	0.5
DEC 14...	--	--	--	--	--	--	--	--	--	--
FEB 07...	<1.00	<1	--	<3.00	2	150	10	<4.00	18	1.2
APR 05...	<1.00	<1	<1	<3.00	1	110	4	<4.00	10	<0.1
JUN 21...	--	--	--	--	--	--	--	--	--	--
AUG 17...	<0.50	<1	<1	<3.00	<1	180	5	<4.00	12	<0.1

DATE	MOLYB- DENUM, DIS- SOLVED (UG/L AS MO)	NICKEL, DIS- SOLVED (UG/L AS NI)	SELE- NIUM, DIS- SOLVED (UG/L AS SE)	SILVER, DIS- SOLVED (UG/L AS AG)	STRON- TIUM, DIS- SOLVED (UG/L AS SR)	VANA- DIUM, DIS- SOLVED (UG/L AS V)	ZINC, DIS- SOLVED (UG/L AS ZN)	SEDI- MENT, SUS- PENDEED (MG/L)	SEDI- MENT, DIS- CHARGE, SUS- PENDEED (T/DAY)	SED. SUSP. SIEVE DIAM. % FINER THAN .062 MM
OCT 25...	<10	1	<1	--	10	<6.0	5.00	1	0.32	100
DEC 14...	--	--	--	--	--	--	--	1	0.52	100
FEB 07...	<10	5	<1	<1	10	<6.0	10	6	11	100
APR 05...	<10	4	<1	<1	7.00	<6.0	<3.00	7	17	100
JUN 21...	--	--	--	--	--	--	--	11	8.1	54
AUG 17...	<10	<1	<1	<1	10	<6.0	<3.00	6	3.0	76

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 downstream from Mattaseunk Dam and powerhouse, 1.3 mi upstream from Mattaseunk Brook, and 4.5 mi upstream from Mattawamkeag.

DRAINAGE AREA.--3,356 mi², including 249 mi² 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 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.--43 years, 5,821 ft³/s.

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

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 48,500 ft³/s Apr. 18, gage height, 13.69 ft (backwater from Mattawamkeag River); minimum daily, 2,500 ft³/s Sept. 5.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	4000	3100	5950	5510	5370	5170	6200	26200	10800	4600	4900	4000
2	3980	3700	5710	5420	6050	5500	6630	25800	12800	4400	4700	4050
3	4200	3550	6260	5430	6100	5250	5250	28000	15000	3550	4900	4100
4	4150	3400	6800	5310	5800	4920	5470	27000	14600	4350	5100	3000
5	4020	5070	7240	5010	6930	5330	5610	25000	13700	3750	4300	2500
6	4000	7460	6990	5180	6310	5280	5780	24000	12900	3000	4500	5000
7	3800	6650	6380	5290	5990	5530	6190	23100	10100	2700	4950	4800
8	4050	5960	6420	4870	5630	5290	7130	20500	10900	3200	5400	4900
9	3980	5250	5560	5160	5750	4860	7490	16000	10100	3250	5000	5200
10	3800	4960	5430	5270	5050	5070	7440	14700	9180	2750	4650	5150
11	4150	5300	5070	5930	4800	4960	7750	16800	7830	6300	4600	4700
12	4050	5450	5680	6990	5150	5350	8370	15100	6870	4500	5500	4200
13	4100	6630	5040	7930	5100	5420	8480	15300	6500	2550	6000	3750
14	4220	9150	4870	6100	4900	5600	8720	14800	5610	4450	4700	3450
15	4350	8390	5500	6160	5200	5620	8730	14500	6610	4700	3500	3700
16	4300	7300	5430	5930	4900	5790	8430	13300	7260	5500	3100	3700
17	4400	6440	5740	4700	5200	5880	13200	6190	6400	5900	3050	3700
18	4300	5750	5950	5030	4750	5930	39500	6320	6160	5250	3800	3650
19	4250	5970	5620	5050	4980	6510	43000	6260	7870	5000	4300	3750
20	4500	6030	5390	5020	5200	6420	31000	6450	7710	4550	4200	3950
21	4750	5510	4960	5100	4400	10000	23500	6930	6710	4400	4100	3850
22	4500	6310	4920	5480	4550	12400	20000	6660	6280	6000	4250	4150
23	4000	6960	5590	5680	4600	12400	18700	6270	6030	7200	4300	4400
24	3900	7610	4150	5930	4900	9720	17300	6880	6070	6800	4250	4400
25	3600	7810	3920	5300	5270	7230	27000	7000	5370	5800	4150	4250
26	3200	6980	4060	5870	5540	6260	37000	6880	5000	4800	4050	4000
27	3600	6960	5140	5730	5230	6470	41000	6930	5150	5000	4000	3850
28	3500	6130	5860	5930	4560	6100	34500	7150	5050	4200	4150	3750
29	3500	5410	5790	5730	---	7280	29500	8510	5000	4200	4200	4100
30	3300	6310	5860	5270	---	7240	27000	7370	4950	4500	4050	4500
31	3150	---	5720	5780	---	6330	---	9900	---	4850	4000	---
TOTAL	123600	181500	173000	173090	148210	201110	515870	425800	244510	142000	136650	122500
MEAN	3987	6050	5581	5584	5293	6487	17200	13740	8150	4581	4408	4083
MAX	4750	9150	7240	7930	6930	12400	43000	28000	15000	7200	6000	5200
MIN	3150	3100	3920	4700	4400	4860	5250	6190	4950	2550	3050	2500
CAL YR 1982 TOTAL	2163050	MEAN	5926	MAX	27400	MIN	2200					
WTR YR 1983 TOTAL	2587840	MEAN	7090	MAX	43000	MIN	2500					

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 upstream from Mattakeunk Stream, 3.7 mi upstream from Mattawamkeag, and 4.6 mi upstream from mouth.

DRAINAGE AREA.--1,418 mi².

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

REVISED RECORDS.--WSP 1501: Drainage area.

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

REMARKS.--Records good except those for period of no gage-height record Dec. 17. to Mar. 16, which are fair. Several observations of water temperature and specific conductance were made during the year.

AVERAGE DISCHARGE.--49 years, 2,518 ft³/s (24.11 in/yr).

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

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 18,300 ft³/s Apr. 21, gage height, 11.16 ft; minimum, 209 ft³/s Sept 17.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	828	439	3140	1550	1380	1040	4940	11200	6570	440	1030	1060
2	846	430	2930	1450	1350	1060	4490	9720	7370	424	998	1210
3	904	451	3060	1370	1350	1200	4080	8740	7190	471	1010	1100
4	992	513	3490	1300	6000	2000	3860	8380	6490	590	1030	919
5	962	803	4150	1200	7800	3400	3940	8220	5670	618	974	769
6	886	2140	4570	1120	7600	3500	4210	7950	4940	635	881	634
7	817	3320	4620	1050	7300	3300	4630	7380	4340	875	823	545
8	754	3680	4750	1020	6000	2800	5330	6600	3960	1120	782	476
9	731	3490	3940	1000	4900	2300	6210	5770	3590	1080	910	416
10	754	3080	2820	1200	4000	1950	6740	5300	3140	916	1110	380
11	800	2630	2150	1600	3300	1800	7220	5210	2730	777	1090	352
12	800	2330	2230	5000	2900	1850	8210	5030	2380	674	1060	328
13	765	2720	1970	8000	2500	2000	9080	4670	2100	607	1260	306
14	731	5520	1810	8500	2250	2750	8990	4400	1880	602	1290	276
15	782	7600	1800	7300	2000	3050	8430	4180	1780	641	1120	247
16	898	8530	1750	6000	1850	3150	7740	3990	1680	1090	945	225
17	986	8630	1820	4000	1730	3420	7490	3730	1560	2250	805	215
18	998	7850	1920	3000	1600	3730	11200	3410	1420	2350	708	217
19	950	6710	1930	2400	1500	4070	16700	3060	1330	2020	646	238
20	861	5540	1830	2000	1400	4980	18000	2780	1380	1690	596	274
21	837	4570	1700	1750	1350	6500	18000	2670	1410	1470	557	317
22	792	4040	1600	1600	1300	8690	17300	2700	1330	1810	508	382
23	724	4050	1470	1500	1230	11800	15800	2580	1170	2780	450	758
24	677	4520	1350	1500	1180	12700	13700	2480	1030	3170	403	1290
25	623	5090	1250	2250	1150	12100	12400	2530	897	3000	356	1370
26	591	5330	1230	2450	1100	10700	12500	2630	789	2630	320	1170
27	552	5070	1250	2350	1080	9030	13400	2600	701	2210	300	996
28	533	4300	1320	2050	1050	7410	13900	2650	627	1800	284	853
29	517	3700	1480	1800	---	6270	13600	3060	564	1480	346	730
30	492	3470	1570	1600	---	5690	12600	3390	508	1250	500	622
31	459	---	1600	1470	---	5330	---	4580	---	1090	652	---
TOTAL	23842	120546	72100	80380	78150	149570	294690	151590	80526	42560	23744	18675
MEAN	769	4018	2326	2593	2791	4825	9823	4890	2684	1373	766	623
MAX	998	8630	4620	8500	7800	12700	18000	11200	7370	3170	1290	1370
MIN	459	430	1230	1000	1050	1040	3860	2480	508	424	284	215
CFSM	.54	2.83	1.64	1.83	1.97	3.40	6.93	3.45	1.89	.97	.54	.44
IN.	.63	3.16	1.89	2.11	2.05	3.92	7.73	3.98	2.11	1.12	.62	.49
CAL YR 1982	TOTAL	896125	MEAN	2455	MAX	18000	MTN	90	CFSM	1.73	IN	23.51
WTR YR 1983	TOTAL	1136373	MEAN	3113	MAX	18000	MTN	215	CFSM	2.20	IN	29.81

PENOBSCOT RIVER BASIN

01031500 PISCATAQUIS RIVER NEAR DOVER-FOXCROFT, ME

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

DRAINAGE AREA.--298 mi².

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 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 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.--81 years, 603 ft³/s (27.48 in/yr).

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

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

Date	Time	Discharge (ft ³ /s)	Gage height (ft)	Date	Time	Discharge (ft ³ /s)	Gage height (ft)
Jan. 11	2400	4990	7.55	Apr. 18	0400	* 18800	15.92
Mar. 20	1200	5900	8.26	Apr. 25	2300	13800	13.31

Minimum discharge, 16 ft³/s Sept. 16, gage height, 1.49 ft.

DISCHARGE. IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	76	56	500	305	221	181	689	1750	2310	71	51	45
2	70	62	463	266	212	252	649	1640	1760	71	52	47
3	67	117	500	230	370	775	636	2300	1240	197	51	44
4	64	161	731	210	2320	954	968	2400	976	166	48	39
5	61	444	682	185	1650	753	1220	2310	969	142	44	35
6	59	1880	615	175	989	564	1470	1700	830	372	40	31
7	55	1010	600	164	726	465	1690	1320	716	447	38	29
8	56	638	497	155	540	404	2430	1090	610	305	37	26
9	89	459	397	200	498	360	2300	991	514	222	64	24
10	154	352	261	246	450	332	2060	1110	432	166	107	24
11	126	293	286	1520	410	339	1880	998	376	130	86	23
12	102	269	252	3470	375	745	2730	954	333	109	122	22
13	89	1100	261	1590	350	2090	2530	884	297	97	293	20
14	89	2630	267	865	325	1720	2440	933	399	88	209	19
15	109	1500	223	602	305	1280	2030	824	422	84	148	18
16	116	1070	236	425	285	995	1610	804	381	125	109	17
17	111	806	555	350	270	873	8830	722	325	97	84	19
18	95	641	399	300	250	979	14900	610	289	84	76	19
19	85	543	308	285	240	1120	6420	530	282	78	69	28
20	77	480	268	265	230	5050	3990	498	263	71	64	38
21	78	481	254	255	220	4080	3200	634	216	73	54	47
22	73	861	235	245	215	5150	2480	564	183	109	47	86
23	68	1580	212	240	210	3840	1990	552	157	163	44	313
24	65	1700	200	434	200	2140	1830	1390	133	125	40	183
25	62	1280	209	619	195	1440	10400	1390	112	99	38	122
26	60	949	236	561	190	1060	10200	1010	97	86	34	90
27	59	771	306	403	185	867	5040	817	88	76	32	70
28	58	582	308	323	180	773	3040	1570	84	71	31	62
29	57	556	372	272	---	965	2230	1570	80	64	35	57
30	57	551	479	243	---	856	1900	1190	74	59	33	52
31	56	---	361	229	---	722	---	2140	---	54	39	---
TOTAL	2443	23822	11473	15632	12611	42124	103782	37195	14948	4101	2219	1649
MEAN	78.8	794	370	504	450	1359	3459	1200	498	132	71.6	55.0
MAX	154	2630	731	3470	2320	5150	14900	2400	2310	447	293	313
MIN	55	56	200	155	180	181	636	498	74	54	31	17
CFSM	.26	2.66	1.24	1.69	1.51	4.56	11.6	4.03	1.67	.44	.24	.19
IN.	.30	2.97	1.43	1.95	1.57	5.26	12.96	4.64	1.87	.51	.28	.21
CAL YR 1982	TOTAL	178101	MEAN 488	MAX 6000	MIN 25	CFSM 1.64	IN 22.23					
WTR YR 1983	TOTAL	271999	MEAN 745	MAX 14900	MIN 17	CFSM 2.50	IN 33.95					

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 downstream from highway bridge, 1,000 ft downstream from Piscataquis River, and at West Enfield.

DRAINAGE AREA.--6,671 mi², including 249 mi² 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 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.--81 years (water years 1903-83), 11,962 ft³/s.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 153,000 ft³/s May 1, 1923, gage height, 25.15 ft; minimum, 1,630 ft³/s Oct. 29, 1905, gage height, 1.0 ft.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 118,000 ft³/s Apr. 19, gage height, 20.81 ft; minimum daily discharge, 4,000 ft³/s Nov. 2.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	6490	4410	12700	11100	8200	6900	18100	53300	29300	6340	7260	5500
2	6550	4000	11600	10700	8000	6800	17100	50900	31200	6250	7240	6120
3	6720	5030	11900	10100	8600	7800	16100	51700	30300	6040	7190	6210
4	6860	4940	13700	9250	10300	8600	14800	53200	29600	5480	7270	5820
5	6630	5300	16100	9260	14500	9500	15700	50700	27900	6560	7500	4720
6	6030	10400	16300	8480	15000	10500	17000	47300	26200	5850	6480	4160
7	6320	15200	15900	8170	14300	10200	17600	43500	21600	6800	6430	5800
8	5780	12400	14800	8410	12500	10000	20300	38600	20700	6780	7010	5880
9	6120	11200	12800	8050	11200	9400	23400	34700	19800	6960	7830	5860
10	6070	9570	10800	8760	10200	8700	23000	31000	16600	6530	7290	6410
11	6170	8840	9140	9830	9300	8900	24400	31500	14700	5140	7450	6500
12	6450	8330	10000	18700	8600	9800	29300	30000	13100	7950	7600	5990
13	6080	10500	9580	22800	8000	13000	31400	28800	10900	6140	9480	5060
14	5630	22700	8710	19100	8400	17500	30500	27100	10400	4420	9330	4770
15	6120	25700	9260	15200	8400	18000	29600	26300	9880	5700	7520	4670
16	6150	23100	9320	12600	8100	18000	26700	25200	11500	6560	5860	4810
17	6500	20600	12300	11600	8000	18000	32800	19800	11000	8420	5590	4710
18	6220	18100	14400	11000	7750	17600	87000	13800	9890	9540	5270	5370
19	5890	16100	13800	9600	7500	17800	113000	14400	10400	8510	5700	5110
20	5920	14700	12000	8300	7400	22400	89400	13400	12200	7810	5940	5300
21	5800	13200	10300	8200	7700	32300	69400	13600	10900	7140	5870	5720
22	6220	12400	9700	8450	7700	41100	58800	13900	9360	8410	5770	5870
23	6020	15200	9350	8900	6800	48400	51300	12600	8980	13200	5790	6560
24	5340	17600	9660	9400	6950	40200	45300	13300	8250	14100	5820	7630
25	5230	19700	7380	10000	7100	31600	61700	15800	7800	12900	5710	7770
26	4800	18400	7450	10400	7200	26200	91200	15200	7210	10400	5390	7180
27	4540	17200	9200	10700	7400	23200	95000	14200	6610	9180	5210	6520
28	4380	15000	10300	10300	7500	20700	80200	15000	7020	8600	5170	6000
29	4460	12900	11600	9700	---	20800	66000	18300	6690	7130	5600	5840
30	4320	12700	12000	9000	---	21700	57300	18200	6550	6980	5710	5820
31	4360	---	12900	8500	---	19600	---	21800	---	7180	5610	---
TOTAL	180170	405420	354950	334560	252600	575200	1353400	857100	446540	239000	202890	173680
MEAN	5812	13510	11450	10790	9021	18550	45110	27650	14880	7710	6545	5789
MAX	6860	25700	16300	22800	15000	48400	113000	53300	31200	14100	9480	7770
MIN	4320	4000	7380	8050	6800	6800	14800	12600	6550	4420	5170	4160
CAL YR 1982 TOTAL	4393870			MEAN 12040	MAX 64500	MIN 3310						
WTR YR 1983 TOTAL	5375510			MEAN 14730	MAX 113000	MIN 4000						

PENOBSCOT RIVER BASIN

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

LOCATION.--Lat 44°49'41", long 68°41'48", Penobscot County, Hydrologic Unit 01020005, on left bank 0.4 mi downstream from Veazie Dam at Eddington, on Monument Drive, 750 ft north of intersection with State Highway 178.
DRAINAGE AREA.--7,764 mi², including 249 mi² 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, National Geodetic Vertical Datum of 1929.

REMARKS.--Records fair. Flow regulated by many reservoirs above station (Reservoirs in Penobscot River Basin).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 134,000 ft³/s Apr. 20, 1983, gage height, 20.46 ft; minimum daily, 3,500 ft³/s Mar. 14, 1980.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 134,000 ft³/s Apr. 20, gage height, 20.46 ft; minimum daily, 5,050 ft³/s Sept. 7.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	7840	5340	15000	14200	10000	8340	22900	72100	33900	7130	7760	6360
2	7070	5450	14400	13000	9500	7890	21900	66400	36600	6580	7790	5900
3	7110	5280	10800	12000	10300	9630	20300	59900	36500	7430	7500	6750
4	7390	6220	14600	10000	13300	11600	19000	61200	35100	7380	7920	6670
5	7510	6400	16600	9500	16200	12900	18700	60500	33500	7050	8170	6140
6	7390	7750	18900	8200	17300	13200	19400	57700	31500	7880	8020	6010
7	6740	15200	18500	9800	16300	13200	20300	53200	29000	7270	7270	5050
8	6740	15300	16800	9700	14000	12500	21800	48100	25000	8080	7820	6870
9	6680	13700	15800	8900	13200	12200	25900	43400	24100	8150	10300	6790
10	6650	12000	14100	8200	12300	11100	26900	38300	22000	8240	9250	6290
11	6710	10400	11300	11000	11400	11300	28500	36500	18800	7810	11200	6910
12	7030	9930	10300	18500	10000	13300	33100	36200	16300	6370	10200	6970
13	7110	10300	11100	22500	9400	16600	37400	33200	14300	10800	9120	6490
14	6800	18300	9200	21500	10600	21700	36600	32100	12900	8590	10600	5760
15	6340	28600	8100	18000	10300	23100	36000	30400	11800	5590	10000	5400
16	6960	27400	11300	15000	9720	23200	32800	29000	12600	7220	8480	5680
17	6920	25100	12700	12800	10300	23200	34000	26900	13700	8040	7240	5550
18	7230	22600	12500	12700	9490	24000	68300	19600	12600	9830	7040	5660
19	6840	19500	13800	10300	9080	24300	118000	16700	11600	10800	6490	6000
20	6550	17500	14200	9400	8910	27100	127000	16700	12800	9380	6260	6180
21	6710	16100	14000	9600	9180	36000	108000	15700	13100	8220	6560	6260
22	6710	14500	13000	9900	9160	47600	92700	16600	11600	8880	6470	6770
23	6620	15200	11700	10500	7790	57100	67800	16000	9980	13300	6700	7410
24	6680	18000	11800	11200	8000	57200	59800	15400	9570	16400	6490	7420
25	5980	20200	10500	11800	8400	51700	63700	17500	8450	15600	6270	8670
26	5950	20900	9000	12000	8390	42200	89000	16500	8310	14300	5950	8380
27	5570	19200	9500	12500	8950	38800	112000	17400	7810	11800	5770	8500
28	5390	17700	11000	12200	8820	28700	109000	17700	6900	10600	5260	8090
29	5310	15900	13600	11600	---	25800	98100	20700	7680	9320	5960	7690
30	5280	14800	14500	10800	---	26400	80400	22900	6800	8200	5940	7530
31	5190	---	14800	10200	---	25300	---	25300	---	7840	6000	---
TOTAL	205000	454770	403300	377500	300290	757160	1649300	1041800	534800	284080	235800	200150
MEAN	6613	15160	13010	12180	10720	24420	54980	33610	17830	9164	7606	6672
MAX	7840	28600	18900	22500	17300	57200	127000	72100	36600	16400	11200	8670
MIN	5190	5280	8100	8200	7790	7890	18700	15400	6800	5590	5260	5050
CAL YR 1982	TOTAL	5023520	MEAN	13760	MAX	71800	MIN	3800				
WTR YR 1983	TOTAL	6443950	MEAN	17650	MAX	127000	MIN	5050				

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, 82-83), 92 micromhos Mar. 17, 1980; minimum, 25 micromhos Apr. 19, 1983.

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 recorded, 15.0 mg/L Jan. 23, 1983, minimum, 6.5 mg/L July 17, 18, 1980.

EXTREMES FOR CURRENT YEAR.--

SPECIFIC CONDUCTANCE: Maximum, 72 micromhos Nov. 4; minimum 25 micromhos Apr. 19.

pH: Maximum, 7.4 units Oct. 30; minimum, 6.0 units Apr. 20.

WATER TEMPERATURES: Maximum recorded, 26.5°C July 5; minimum, 0.0°C on many days during winter period.

DISSOLVED OXYGEN: Maximum recorded, 15.0 mg/L Jan. 23; minimum recorded, 6.6 mg/L July 5, 7.

WATER QUALITY DATA, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983

DATE	TIME	STREAM- FLOW, INSTAN- TANEOUS (CFS)	SPE- CIFIC CON- DUCT- ANCE (UMHOS)	PH (UNITS)	TEMPER- ATURE, AIR (DEG C)	TEMPER- ATURE (DEG C)	TUR- BID- ITY (NTU)	BARO- METRIC PRES- SURE (MM OF HG)	OXYGEN, DIS- SOLVED (MG/L)	OXYGEN, DIS- SOLVED (PER- CENT SATUR- ATION)	COLI- FORM, FECAL, 0.7 UM-MF (COLS./ 100 ML)	STREP- TOCOCCI KF AGAR (COLS. PER 100 ML)
NOV 09...	1645	13600	55	6.9	4.5	7.5	2.7	775	12.4	102	--	1100
FEB 15...	1810	10300	51	7.0	6.0	0.0	1.1	768	14.6	99	90	64
APR 14...	1400	36300	38	6.7	10.0	5.0	1.5	785	14.2	108	290	210
AUG 23...	1230	6770	65	7.4	25.0	21.0	1.2	770	8.5	94	400	1400

DATE	HARD- NESS (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- LINEITY LAB (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)	SOLIDS, RESIDUE AT 180 DEG. C DIS- SOLVED (MG/L)	SOLIDS, SUM OF CONSTI- TUENTS, DIS- SOLVED (MG/L)
NOV 09...	20	5.9	1.2	2.8	0.8	13	11	3.5	<0.1	4.3	57	38
FEB 15...	19	5.5	1.2	2.5	0.5	12	7.1	3.0	<0.1	4.7	42	32
APR 14...	13	3.8	0.8	2.0	0.6	10	10	2.8	<0.1	3.5	40	30
AUG 23...	21	6.2	1.3	3.7	0.7	13	10	4.8	<0.1	2.5	49	37

01036390 PENOBSCOT RIVER AT EDDINGTON, ME--Continued

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983

DATE	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, DIS- SOLVED (MG/L AS P)	PHOS- PHORUS, ORTHO, DIS- SOLVED (MG/L AS P)	ALUM- INUM, DIS- SOLVED (UG/L AS AL)	ARSENIC DIS- SOLVED (UG/L AS AS)	BARIUM, DIS- SOLVED (UG/L AS BA)
NOV 09...	0.15	0.04	0.05	0.5	0.14	0.02	<0.01	80	<1	26.00
FEB 15...	0.14	0.03	0.04	<0.1	0.02	<0.01	0.01	<10	1	11.00
APR 14...	0.1	0.04	0.05	0.2	0.03	0.01	<0.01	70	1	36.00
AUG 23...	<0.1	<0.01	0.01	0.3	0.05	0.02	<0.01	60	1	19.00

DATE	BERYL- LIUM, DIS- SOLVED (UG/L AS BE)	CADMIUM DIS- SOLVED (UG/L AS CD)	CHRO- MIUM, DIS- SOLVED (UG/L AS CR)	COBALT, DIS- SOLVED (UG/L AS CO)	COPPER, DIS- SOLVED (UG/L AS CU)	IRON, DIS- SOLVED (UG/L AS FE)	LEAD, DIS- SOLVED (UG/L AS PB)	LITHIUM DIS- SOLVED (UG/L AS LI)	MANGA- NESE, DIS- SOLVED (UG/L AS MN)	MERCURY DIS- SOLVED (UG/L AS HG)
NOV 09...	1.00	1	<1	3.00	2	120	<1	4.00	15	0.1
FEB 15...	<1.00	<1	<1	<3.00	1	80	1	<4.00	15	0.3
APR 14...	<0.50	<1	<1	<3.00	3	80	3	<4.00	13	<0.1
AUG 23...	<0.50	<1	<1	<3.00	6	80	5	<4.00	19	<0.1

DATE	MOLYB- DENUM, DIS- SOLVED (UG/L AS MO)	NICKEL, DIS- SOLVED (UG/L AS NI)	SELE- NIUM, DIS- SOLVED (UG/L AS SE)	SILVER, DIS- SOLVED (UG/L AS AG)	STRON- TIUM, DIS- SOLVED (UG/L AS SR)	VANA- DIUM, DIS- SOLVED (UG/L AS V)	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
NOV 09...	10	<1	<1	<1	30	6.0	4.00	7	257	80
FEB 15...	<10	3	<1	<1	30	<6.0	10	10	278	48
APR 14...	<10	2	<1	<1	20	<6.0	20	8	784	88
AUG 23...	<10	1	<1	<1	30	<6.0	5.00	4	73	63

RADIOCHEMICAL ANALYSES, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983

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, SUSP. TOTAL (PCI/L AS CS-137)	GROSS BETA, DIS- SOLVED (PCI/L AS SR/ YT-90)	GROSS BETA, SUSP. TOTAL (PCI/L AS SR/ YT-90)	RADIUM 226, DIS- SOLVED, RADON METHOD (PCI/L)	URANIUM DIS- SOLVED, EXTRAC- TION (UG/L)
NOV 09...	<0.9	<0.5	1.4	<0.6	1.3	<0.6	<0.03	0.23

01036390 PENOBSCOT RIVER AT EDDINGTON, ME--Continued

SPECIFIC CONDUCTANCE (MICROMHOS/CM AT 25 DEG. C), WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983

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

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

01036390 PENOBSCOT RIVER AT EDDINGTON, ME--Continued

SPECIFIC CONDUCTANCE (MICROMHOS/CM AT 25 DEG. C), WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
	JUNE			JULY			AUGUST			SEPTEMBER		
1	39	37	38	54	53	54	---	---	---	58	56	57
2	38	38	38	57	53	55	---	---	---	---	---	---
3	38	37	37	57	51	53	---	---	---	---	---	---
4	38	37	37	53	49	51	---	---	---	---	---	---
5	38	37	37	51	48	50	---	---	---	---	---	---
6	38	37	37	57	51	52	---	---	---	---	---	---
7	38	38	38	57	54	55	---	---	---	---	---	---
8	38	37	38	53	47	49	---	---	---	---	---	---
9	39	38	39	51	49	50	---	---	---	---	---	---
10	40	39	40	52	50	51	---	---	---	---	---	---
11	41	39	40	56	52	53	---	---	---	---	---	---
12	41	40	40	62	52	58	---	---	---	---	---	---
13	43	41	42	54	49	51	---	---	---	---	---	---
14	44	42	43	58	54	55	---	---	---	---	---	---
15	49	43	45	52	54	57	---	---	---	58	53	56
16	48	45	46	---	---	---	---	---	---	58	55	56
17	47	45	46	---	---	---	59	55	57	57	55	56
18	47	46	46	---	---	---	60	57	59	58	56	56
19	48	46	47	---	---	---	62	58	60	60	56	58
20	47	42	46	---	---	---	63	60	61	59	57	58
21	43	42	42	---	---	---	62	60	61	59	57	58
22	44	42	42	---	---	---	63	62	62	59	53	57
23	44	42	43	---	---	---	63	60	62	56	54	55
24	43	42	42	---	---	---	62	60	61	55	52	54
25	45	43	43	---	---	---	62	59	60	52	50	50
26	47	44	45	---	---	---	61	59	60	54	52	52
27	48	45	46	---	---	---	61	59	60	55	52	53
28	49	47	48	---	---	---	62	57	60	57	54	56
29	52	49	50	---	---	---	59	57	58	58	55	57
30	55	51	53	---	---	---	58	56	57	59	56	57
31	---	---	---	---	---	---	58	55	56	---	---	---
MONTH	55	37	42	62	47	53	63	55	60	60	50	56
YEAR	72	25	47									

PH (STANDARD UNITS), WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983

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

PH (STANDARD UNITS), WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983

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

PENOBSCOT RIVER BASIN

01036390 PENOBSCOT RIVER AT EDDINGTON, ME--Continued

TEMPERATURE, WATER (DEG. C), WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983

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

01036390 PENOBSCOT RIVER AT EDDINGTON, ME--Continued

TEMPERATURE, WATER (DEG. C), WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
	JUNE			JULY			AUGUST			SEPTEMBER		
1	13.5	12.0	12.5	23.0	22.5	23.0	---	---	---	22.0	21.0	21.5
2	14.0	13.5	14.0	24.0	22.5	23.0	---	---	---	---	---	---
3	14.5	13.5	14.0	24.5	23.0	23.5	---	---	---	---	---	---
4	14.5	14.0	14.0	25.5	23.5	24.5	---	---	---	---	---	---
5	15.0	13.5	14.0	26.5	25.0	25.5	---	---	---	---	---	---
6	15.5	14.5	15.0	26.0	24.0	25.0	---	---	---	---	---	---
7	15.5	15.0	15.0	24.0	23.0	23.5	---	---	---	---	---	---
8	16.0	15.0	15.5	23.5	22.5	23.0	---	---	---	---	---	---
9	16.5	15.0	15.5	23.5	22.5	23.0	---	---	---	---	---	---
10	16.5	15.5	16.0	23.0	22.0	22.5	---	---	---	---	---	---
11	17.5	16.0	16.5	22.5	21.0	22.0	---	---	---	---	---	---
12	19.0	17.0	18.0	23.0	21.5	22.5	---	---	---	---	---	---
13	20.0	18.5	19.5	23.5	22.5	23.0	---	---	---	---	---	---
14	20.5	19.0	19.5	24.0	22.5	23.5	---	---	---	---	---	---
15	21.5	20.0	20.5	24.0	23.5	23.5	---	---	---	20.0	19.0	19.5
16	21.5	20.5	21.0	---	---	---	---	---	---	19.0	18.5	18.5
17	21.5	20.5	21.0	---	---	---	24.0	22.0	23.0	18.5	17.5	17.5
18	22.0	20.5	21.0	---	---	---	24.0	23.0	23.5	17.5	17.0	17.5
19	23.0	21.0	22.0	---	---	---	24.5	23.0	24.0	18.5	17.0	17.5
20	23.5	21.5	22.5	---	---	---	24.5	24.0	24.5	19.0	17.5	18.0
21	24.0	22.0	23.0	---	---	---	24.5	23.0	23.5	20.0	19.5	19.0
22	24.5	23.0	23.5	---	---	---	23.0	21.5	22.0	20.0	19.5	20.0
23	25.5	23.5	24.5	---	---	---	22.0	21.0	21.5	19.5	19.0	19.0
24	25.5	24.0	24.5	---	---	---	22.0	21.0	21.5	19.0	18.0	18.5
25	24.0	23.0	23.5	---	---	---	22.0	21.0	21.5	18.0	16.5	17.0
26	23.5	22.0	23.0	---	---	---	22.0	21.5	21.5	17.0	16.0	16.5
27	23.0	22.0	22.5	---	---	---	23.0	21.5	22.0	16.5	16.0	16.5
28	22.5	21.5	22.0	---	---	---	23.5	22.0	23.0	16.5	15.5	16.0
29	23.5	21.5	22.5	---	---	---	23.0	22.5	22.5	16.0	15.0	15.5
30	23.5	22.0	22.5	---	---	---	22.5	22.0	22.5	16.5	15.0	15.5
31	---	---	---	---	---	---	22.5	21.5	22.0	---	---	---
MONTH	25.5	12.0	19.5	26.5	21.0	23.5	24.5	21.0	22.5	22.0	15.0	18.0
YEAR	26.5	.0	8.0									

OXYGEN, DISSOLVED (DO), MG/L, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
	OCTOBER			NOVEMBER			DECEMBER			JANUARY		
1	9.5	9.2	9.3	10.7	10.5	10.5	12.3	11.9	12.2	---	---	---
2	9.3	9.0	9.2	10.5	10.3	10.4	12.3	11.9	12.1	---	---	---
3	9.4	9.1	9.3	10.4	10.2	10.3	12.3	11.8	12.1	---	---	---
4	9.6	9.2	9.5	10.5	10.1	10.3	11.8	11.4	11.7	---	---	---
5	9.9	9.5	9.7	10.1	9.8	10.0	11.7	11.1	11.5	---	---	---
6	9.9	9.4	9.6	10.5	9.7	10.1	11.7	11.2	11.5	---	---	---
7	9.6	9.4	9.5	11.4	10.6	11.1	11.8	11.2	11.6	---	---	---
8	9.7	9.5	9.6	11.7	11.4	11.6	12.0	11.3	11.6	---	---	---
9	9.8	9.5	9.6	12.0	11.7	11.9	11.9	11.3	11.6	---	---	---
10	10.1	9.7	9.9	12.3	12.0	12.1	12.2	11.9	12.0	---	---	---
11	10.3	10.0	10.2	12.4	12.3	12.4	12.0	11.3	11.6	---	---	---
12	10.5	10.2	10.3	12.4	12.0	12.2	11.9	11.4	11.6	---	---	---
13	10.3	10.2	10.3	11.9	11.5	11.6	12.3	11.8	12.1	---	---	---
14	10.2	10.0	10.1	12.5	11.5	12.0	12.3	12.1	12.2	---	---	---
15	10.3	9.9	10.0	12.8	12.5	12.7	12.3	11.5	11.7	---	---	---
16	10.1	9.8	10.0	13.0	12.7	12.9	12.2	11.6	11.7	---	---	---
17	10.3	9.9	10.1	13.2	13.0	13.1	12.1	11.7	11.9	---	---	---
18	11.0	10.2	10.6	13.3	13.2	13.3	12.1	11.8	12.0	---	---	---
19	10.6	10.3	10.5	13.4	13.3	13.3	12.1	11.7	11.9	---	---	---
20	10.7	10.4	10.5	13.3	13.2	13.3	12.2	11.6	11.9	---	---	---
21	10.6	10.4	10.5	13.7	13.0	13.2	12.1	11.6	11.9	14.6	14.4	14.5
22	10.9	10.3	10.5	13.4	12.9	13.1	12.2	11.1	11.8	14.6	14.5	14.5
23	10.7	10.3	10.5	12.9	12.8	12.9	12.2	11.8	12.0	15.0	14.5	14.7
24	11.0	10.5	10.7	12.9	12.7	12.8	---	---	---	14.9	14.3	14.6
25	11.0	10.8	10.9	13.5	12.8	13.2	---	---	---	14.6	14.3	14.4
26	11.2	10.9	11.0	14.0	13.5	13.6	---	---	---	14.5	14.1	14.3
27	11.2	11.0	11.1	13.7	13.4	13.6	---	---	---	14.6	14.3	14.5
28	11.2	11.0	11.1	14.0	13.7	13.9	---	---	---	14.7	14.2	14.6
29	11.2	11.0	11.1	---	---	---	---	---	---	14.6	14.2	14.5
30	11.1	10.8	10.9	---	---	---	---	---	---	14.4	14.0	14.3
31	10.9	10.7	10.8	---	---	---	---	---	---	14.3	14.1	14.2
MONTH	11.2	9.0	10.2	14.0	9.7	12.2	12.3	11.1	11.8	15.0	14.0	14.5

01036390 PENOBSCOT RIVER AT EDDINGTON, ME--Continued

OXYGEN, DISSOLVED (DO), MG/L, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
FEBRUARY				MARCH			APRIL			MAY		
1	14.3	14.1	14.2				---	---	---	11.7	11.4	11.5
2	14.5	14.3	14.4				---	---	---	11.5	11.3	11.4
3	14.4	13.9	14.2				---	---	---	11.3	11.1	11.2
4	14.0	13.9	14.0				---	---	---	11.0	10.9	11.0
5	14.4	14.0	14.3				---	---	---	11.2	10.8	10.9
6	---	---	---				---	---	---	10.9	10.8	10.9
7	---	---	---				---	---	---	11.2	10.8	11.0
8	---	---	---				---	---	---	11.3	10.7	11.0
9	---	---	---				---	---	---	10.9	10.7	10.7
10	---	---	---				---	---	---	11.0	10.8	10.9
11	---	---	---				---	---	---	11.2	11.0	11.1
12	---	---	---				---	---	---	11.3	11.0	11.2
13	---	---	---				---	---	---	11.2	11.0	11.1
14	---	---	---				---	---	---	11.5	10.8	11.0
15	---	---	---				13.6	13.4	13.5	11.0	10.7	10.9
16	---	---	---				13.4	13.0	13.2	11.1	10.7	10.9
17	---	---	---				13.0	12.7	12.8	11.0	10.7	10.8
18	---	---	---				13.3	12.7	13.1	10.8	10.2	10.5
19	---	---	---				13.5	12.5	13.3	10.5	9.9	10.1
20	---	---	---				13.0	12.2	12.7	10.0	9.9	10.0
21	---	---	---				12.7	12.6	12.6	10.1	9.6	9.8
22	---	---	---				12.9	12.6	12.7	9.8	9.3	9.5
23	---	---	---				12.7	12.5	12.6	9.6	9.2	9.4
24	---	---	---				12.5	12.1	12.3	9.9	9.6	9.7
25	---	---	---				12.2	12.0	12.1	10.1	9.9	10.1
26	---	---	---				12.4	12.2	12.3	10.3	10.1	10.2
27	---	---	---				12.4	12.2	12.3	10.4	10.2	10.3
28	---	---	---				12.3	12.0	12.1	10.6	10.4	10.5
29	---	---	---				12.1	11.7	11.9	10.8	10.6	10.7
30	---	---	---				11.9	11.7	11.8	10.8	10.7	10.8
31	---	---	---				---	---	---	11.0	10.8	10.9
MONTH	14.5	13.9	14.2				13.6	11.7	12.6	11.7	9.2	10.7
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
JUNE				JULY			AUGUST			SEPTEMBER		
1	11.3	11.0	11.2	7.3	7.0	7.2	---	---	---	8.4	8.2	8.3
2	11.1	11.0	11.1	7.2	6.9	7.1	---	---	---	---	---	---
3	11.3	11.0	11.2	7.2	6.8	7.0	---	---	---	---	---	---
4	11.6	11.0	11.1	7.1	6.7	6.9	---	---	---	---	---	---
5	11.3	10.8	11.1	7.0	6.6	6.8	---	---	---	---	---	---
6	10.9	10.6	10.8	6.8	6.7	6.8	---	---	---	---	---	---
7	10.7	10.5	10.6	7.0	6.6	6.8	---	---	---	---	---	---
8	10.6	10.5	10.5	7.7	7.1	7.5	---	---	---	---	---	---
9	10.8	10.5	10.6	7.5	7.4	7.5	---	---	---	---	---	---
10	10.7	10.3	10.5	7.7	7.4	7.6	---	---	---	---	---	---
11	10.3	9.9	10.2	7.7	7.5	7.7	---	---	---	---	---	---
12	9.9	9.4	9.7	7.6	7.3	7.4	---	---	---	---	---	---
13	9.5	9.1	9.3	7.6	7.4	7.5	---	---	---	---	---	---
14	---	---	---	7.4	6.9	7.2	---	---	---	---	---	---
15	---	---	---	7.4	7.1	7.2	---	---	---	9.0	8.2	8.5
16	8.9	8.7	8.8	---	---	---	---	---	---	8.4	8.0	8.3
17	9.0	8.8	8.9	---	---	---	8.2	8.0	8.1	9.7	8.1	9.1
18	8.9	8.7	8.8	---	---	---	8.1	7.9	8.0	9.7	9.4	9.5
19	8.7	8.3	8.6	---	---	---	8.2	7.9	8.0	9.8	9.4	9.5
20	8.7	8.0	8.3	---	---	---	8.0	7.8	7.9	9.8	9.4	9.5
21	8.2	7.9	8.0	---	---	---	8.2	7.8	8.0	9.6	9.2	9.3
22	8.0	7.5	7.8	---	---	---	8.3	8.1	8.2	9.2	8.9	9.0
23	7.8	7.0	7.6	---	---	---	8.6	8.1	8.4	9.4	8.9	9.1
24	7.0	6.7	6.9	---	---	---	8.6	8.4	8.5	9.8	9.1	9.4
25	7.2	6.8	7.0	---	---	---	8.7	8.3	8.5	10.6	9.6	10.1
26	7.5	7.1	7.3	---	---	---	8.6	8.3	8.5	10.4	9.9	10.2
27	7.3	7.0	7.1	---	---	---	8.5	8.2	8.4	10.3	10.0	10.1
28	7.4	6.9	7.2	---	---	---	8.4	8.1	8.3	10.8	9.9	10.2
29	7.5	6.9	7.2	---	---	---	8.2	8.0	8.1	10.5	10.0	10.2
30	7.4	7.2	7.3	---	---	---	8.2	8.0	8.1	10.9	10.0	10.3
31	---	---	---	---	---	---	8.3	8.1	8.2	---	---	---
MONTH	11.6	6.7	9.1	7.7	6.6	7.2	8.7	7.8	8.2	10.9	8.0	9.5
PERIOD	15.0	6.6	10.6									

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 upstream from Millinocket and 42 mi northeast of Greenville, present dam completed in 1917, used for power; usable capacity of reservoir, 30,000,000,000 ft³. 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, 5 mi upstream from Millinocket, Maine, used for power; usable capacity of reservoir, 15,000,000,000 ft³. 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 between gage height 2.0 ft and 11.0 ft. 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 between elevations 643.0 ft and 655.0 ft. 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 between elevations 316.1 ft and 325.1 ft. Records furnished by Bangor Hydroelectric Co.

MONTHEND CONTENTS, IN MILLIONS OF CUBIC FEET, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983

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, 1982	34113	3799	1529
OCT. 31	28746	4919	1257
NOV. 30	32471	5100	2042
DEC. 31	31839	5984	1954
JAN. 31, 1983	27643	5339	1447
FEB. 28	23063	4122	1954
MAR. 31	24511	3407	1584
APR. 30	56986	6082	2394
MAY 31	59379	5979	2218
JUNE 30	56295	5832	2247
JULY 31	52064	5832	1837
AUG. 31	43100	4408	1447
SEPT. 30	35109	3036	903

* Includes monthend contents of following additional reservoirs in West Branch Penobscot River basin, used for power, total capacity approximately 12,000,000,000 ft³; Penobscot, Seboomook, Caucomgomoc, Loon, Shallow, Umbazooksus, Harrington, Sourdnahunk, Rainbow, Ragged, and Millinocket Lakes, Canada Falls Doie 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 upstream from highway bridge on State Route 126 at North Whitefield, at mouth of Finn Brook, and 0.3 mi east of North Whitefield village.

DRAINAGE AREA.--148 mi².

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.

REVISED RECORDS.--WDR ME-82-1: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 101.05 ft 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.--45 years, 249 ft³/s (23.32 in/yr).

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

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

Date	Time	Discharge (ft ³ /s)	Gage height (ft)	Date	Time	Discharge (ft ³ /s)	Gage height (ft)
Mar. 13	0300	1380	5.55	Apr. 17	2300	2100	6.71
Mar. 20	0600	2110	6.72	Apr. 25	1900	* 4700	10.39
Mar. 22	1500	2580	7.48	May 31	0600	1220	5.27

Minimum discharge, 11 ft³/s Sept 20, gage height, 1.75 ft.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	20	18	75	140	135	110	642	1190	796	70	34	28
2	19	18	74	125	130	235	537	1060	718	69	36	25
3	18	16	75	120	458	629	477	1030	660	79	41	22
4	16	20	75	110	758	519	589	889	661	76	38	21
5	16	33	76	104	539	482	566	810	695	64	33	20
6	15	55	73	101	474	484	497	672	577	68	30	19
7	17	47	73	98	437	496	452	571	511	74	29	19
8	43	39	69	97	402	454	457	496	475	61	27	17
9	40	35	66	91	350	413	449	455	415	60	30	16
10	34	32	65	82	305	557	397	428	369	65	30	16
11	29	30	57	273	275	935	844	393	327	62	27	16
12	26	29	56	450	240	1070	863	370	290	57	64	19
13	25	94	55	348	220	1340	755	345	262	56	96	17
14	28	194	54	305	200	1240	713	337	236	70	61	16
15	32	148	54	275	185	1150	668	312	214	56	46	15
16	29	169	60	250	175	1090	621	325	194	54	39	14
17	32	129	135	225	165	1000	1340	299	178	51	35	13
18	29	112	100	200	155	903	1910	267	163	46	33	12
19	28	99	78	180	150	1130	1610	243	152	43	31	13
20	28	91	75	170	140	2010	1450	256	139	41	28	12
21	26	84	79	160	135	1740	1310	343	126	40	25	12
22	26	82	79	150	130	2490	1130	291	116	55	23	27
23	26	83	93	140	125	2240	957	299	107	68	24	44
24	25	81	78	224	120	1840	950	363	100	55	22	33
25	24	80	80	260	120	1490	4020	335	92	49	21	25
26	24	72	104	227	115	1220	3800	305	86	46	20	22
27	18	67	131	200	115	1010	2890	301	82	42	20	20
28	19	60	130	180	110	1000	2250	497	80	39	19	18
29	19	62	194	165	---	1010	1750	409	77	38	20	16
30	18	74	180	150	---	839	1410	421	73	37	21	15
31	18	---	152	140	---	740	---	1020	---	36	24	---
TOTAL	767	2153	2745	5740	6863	31866	36304	15332	8971	1727	1027	582
MEAN	24.7	71.8	88.5	185	245	1028	1210	495	299	55.7	33.1	19.4
MAX	43	194	194	450	758	2490	4020	1190	796	79	96	44
MIN	15	16	54	82	110	110	397	243	73	36	19	12
CFSM	.17	.50	.61	1.28	1.69	7.09	8.35	3.41	2.06	.38	.23	.13
IN.	.20	.55	.70	1.47	1.76	8.18	9.31	3.93	2.30	.44	.26	.15

CAL YR 1982	TOTAL	77575	MEAN 213	MAX 2230	MIN 15	CFSM 1.47	IN 19.90
WTR YR 1983	TOTAL	114077	MEAN 313	MAX 4020	MIN 12	CFSM 2.16	IN 29.27

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.

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

GAGE.--Nonrecording gage read daily at 0700. Datum of gage is 1,011.48 ft, 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. Remaining wooden section rebuilt of concrete in 1955-56. Lake outlet dredged in 1948 to permit drawing level down to elevation 10.0 ft at a faster rate than formerly. Capacity, 23,735,000,000 ft³ between gage heights 10.0 ft and 17.5 ft. 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 1983 is given below:

October	20	February	50	June	125
November	30	March	0	July	125
December	50	April	115	August	115
January	60	May	125	September	115

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

EXTREMES FOR CURRENT YEAR.--Maximum gage height observed, 17.90 ft Apr. 25; minimum observed, 12.85 ft Nov. 3.

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

12.0	6,237
13.0	9,379
14.0	12,537
15.0	15,713
16.0	18,908
17.0	22,121
18.0	25,355

GAGE HEIGHT, IN FEET, AT 0700, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	14.04	12.93	15.00	16.73	16.92	16.36	16.86	17.63	17.80	17.35	17.20	16.80
2	14.00	12.88	15.16	16.71	16.80	16.28	16.82	17.66	17.78	17.32	17.22	16.75
3	13.96	12.85	15.18	16.76	16.86	16.41	16.84	17.68	17.76	17.42	17.21	16.73
4	13.91	12.86	15.29	16.77	16.98	16.37	16.88	17.70	17.76	17.45	17.16	16.70
5	13.88	12.88	15.43	16.79	17.03	16.37	16.89	17.72	17.77	17.45	17.12	16.70
6	13.81	13.11	15.50	16.79	17.04	16.41	16.84	17.68	17.72	17.61	17.11	16.69
7	13.76	13.15	15.59	16.78	17.01	16.42	16.90	17.76	17.75	17.61	17.22	16.58
8	13.74	13.18	15.69	16.78	17.13	16.37	16.98	17.76	17.68	17.60	17.26	16.50
9	13.70	13.24	15.73	16.72	17.14	16.28	17.02	17.76	17.64	17.58	17.24	16.41
10	13.66	13.24	15.78	16.74	17.09	16.19	17.09	17.78	17.58	17.58	17.26	16.35
11	13.65	13.26	15.83	16.76	17.07	16.20	17.20	17.64	17.61	17.55	17.21	16.34
12	13.63	13.25	15.88	16.98	17.04	16.16	17.29	17.64	17.63	17.46	17.24	16.34
13	13.58	13.29	15.96	16.96	16.96	16.26	17.31	17.62	17.63	17.40	17.24	16.29
14	13.54	13.42	16.00	16.99	16.92	16.29	17.33	17.56	17.58	17.38	17.25	16.20
15	13.48	13.46	16.06	17.02	16.88	16.30	17.38	17.52	17.62	17.36	17.29	16.14
16	13.48	13.58	16.10	17.08	16.83	16.30	17.45	17.44	17.64	17.36	17.28	16.08
17	13.46	13.58	16.25	17.12	16.78	16.32	17.54	17.40	17.63	17.44	17.24	16.00
18	13.46	13.63	16.30	17.11	16.81	16.33	17.70	17.48	17.65	17.46	17.20	16.04
19	13.45	13.65	16.31	17.07	16.77	16.34	17.60	17.54	17.67	17.42	17.19	16.04
20	13.39	13.65	16.37	17.05	16.73	16.40	17.42	17.56	17.66	17.38	17.15	15.99
21	13.36	13.65	16.34	17.00	16.67	16.50	17.50	17.62	17.64	17.40	17.16	15.93
22	13.33	13.79	16.34	16.97	16.67	16.56	17.62	17.62	17.61	17.44	17.13	16.02
23	13.28	13.88	16.34	16.90	16.62	16.68	17.73	17.56	17.59	17.42	17.10	16.02
24	13.24	14.02	16.36	17.04	16.60	16.72	17.74	17.62	17.54	17.38	17.08	15.99
25	13.20	14.18	16.38	17.08	16.51	16.77	17.90	17.59	17.50	17.36	17.05	15.96
26	13.16	14.33	16.42	17.05	16.46	16.80	17.82	17.59	17.47	17.32	16.98	15.91
27	13.10	14.48	16.55	17.01	16.45	16.83	17.74	17.59	17.44	17.30	16.98	15.85
28	13.07	14.63	16.53	16.99	16.41	16.83	17.60	17.64	17.40	17.26	16.98	15.79
29	13.02	14.78	16.61	16.95	---	16.93	17.68	17.65	17.40	17.20	16.97	15.74
30	12.98	14.92	16.64	16.94	---	16.93	17.66	17.68	17.40	17.23	16.90	15.72
31	12.97	---	16.67	16.95	---	16.88	---	17.78	---	17.24	16.84	---
MAX	14.04	14.92	16.67	17.12	17.14	16.93	17.90	17.78	17.80	17.61	17.29	16.80
MIN	12.97	12.85	15.00	16.71	16.41	16.16	16.82	17.40	17.40	17.20	16.84	15.72
†	9,284	15,459	21,059	21,960	20,224	21,992	24,253	24,642	23,412	22,895	21,606	18,012
‡	-3,665	+6,175	+5,600	+901	-1,736	+1,768	+2,261	+389	-1,230	-517	-1,289	-3,594

CAL YR 1982. ‡-1,513

WTR YR 1983. ‡+5,063

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

‡ Change in contents, in millions of cubic feet.

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 upstream from highway bridge and 0.7 mi upstream from Dead River.

DRAINAGE AREA.--1,590 mi².

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). WDR ME-82-1: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 569.03 ft, 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 downstream at different datum.

REMARKS.--Records good. Flow regulated by Moosehead Lake (station 01040500), Brassua Lake, and Moxie, Indian, and First Roach Ponds (Reservoirs in Kennebec River Basin). Several observations of water temperature and specific conductance were made during the year.

AVERAGE DISCHARGE.--82 years, 2,616 ft³/s.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 28,300 ft³/s Apr. 18, 1983, gage height, 14.41 ft; minimum, 85 ft³/s Sept. 3, 1953, gage height, 1.02 ft.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 28,300 ft³/s Apr. 18, gage height, 14.41 ft; minimum daily, 178 ft³/s Sept. 5.

DISCHARGE. IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	2170	3240	1840	847	3380	3420	2360	13500	7690	3390	3070	2450
2	1720	2940	1840	417	3330	3320	878	12300	8480	1190	3610	1630
3	371	2270	1580	1820	1280	892	398	14400	7720	730	4530	739
4	2860	2390	1100	2350	661	871	2240	13500	7810	1770	4130	188
5	2860	2030	897	2850	763	482	2940	14300	7200	3280	4000	178
6	2750	795	1760	3280	815	461	3050	13400	6810	1370	886	3610
7	2790	920	1930	2940	786	3330	1660	10200	5930	1050	257	3630
8	1760	717	2060	1280	2350	1950	1330	10200	6000	1030	3160	3140
9	1210	568	1960	396	2060	3410	929	12800	5930	1630	3610	2640
10	532	1860	1930	3860	2480	2400	1050	13500	5590	645	3590	542
11	2770	1400	1740	1040	3530	1300	2330	11700	5030	2830	4110	188
12	2750	1940	1580	743	2010	544	3990	9530	4260	3860	3070	2740
13	2240	601	2260	1940	923	503	3940	9160	4330	3840	704	2170
14	2210	665	2190	621	3460	894	2780	8930	4150	3650	748	2380
15	2250	644	2040	1090	2430	886	3950	8640	3790	3030	3530	1600
16	859	615	1540	508	2430	856	4320	7720	3260	1100	3840	2940
17	273	581	1520	2340	2850	725	11500	3880	3410	241	2830	793
18	2610	2430	986	2860	2450	1210	26400	3180	3390	3370	3570	188
19	1780	1520	689	3700	1480	418	22800	3140	2960	3840	3670	2570
20	1770	532	1380	3250	939	601	18100	3470	3670	2620	1480	2960
21	1240	515	4310	2600	1550	736	15300	4040	3260	3690	198	1680
22	1770	1490	3470	1480	2350	1410	8390	5300	3340	3730	3000	257
23	1060	740	2430	867	2840	2250	7900	4550	2790	3010	3160	1670
24	500	622	1920	2470	3330	2030	9590	3650	2710	829	3710	1110
25	2180	552	1210	1420	3330	1790	25300	3710	2160	3880	4150	279
26	2750	858	481	1370	2350	1440	24700	3140	1340	3810	4480	3180
27	2840	456	1910	1840	401	822	23700	4020	3300	3940	1290	2320
28	2790	474	1860	2310	3280	1540	21000	4020	2940	3770	332	1740
29	2810	1350	1850	1270	---	1750	16300	3590	2760	3130	2530	1750
30	361	1300	1890	1320	---	1940	15500	4890	3470	915	2870	2760
31	308	---	1860	3200	---	1930	---	6000	---	203	1910	---
TOTAL	57144	37015	56013	58279	59838	46116	284625	244360	135480	75373	86025	54022
MEAN	1843	1234	1807	1880	2137	1488	9488	7883	4516	2431	2775	1801
MAX	2860	3240	4310	3860	3530	3420	26400	14400	8480	3940	4530	3630
MIN	273	456	481	396	401	418	398	3140	1340	203	198	178
CAL YR 1982	TOTAL	1049662	MEAN	2876	MAX	9840	MIN	190				
WTR YR 1983	TOTAL	1194290	MEAN	3272	MAX	26400	MIN	178				

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 downstream from highway bridge, 0.4 mi downstream from Austin Stream, and 1.6 mi downstream from Wyman Dam.

DRAINAGE AREA.--2,715 mi².

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 National Geodetic Vertical Datum of 1929. June 1907 to June 1910, nonrecording gage on highway bridge at different datum.

REMARKS.--Records good. Flow regulated by Moosehead Lake (station 01040500), Brassua and Flagstaff Lakes, First Roach, Indian, Moxie, and Wyman Ponds (Reservoirs in Kennebec River Basin). Considerable diurnal fluctuation caused by powerplant above station. Several observations of water temperature and specific conductance were made during the year.

AVERAGE DISCHARGE.--55 years (water years 1908-09, 1931-83), 4,447 ft³/s.

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

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 55,400 ft³/s Apr. 18, gage height, 14.66 ft; minimum daily, 1,100 ft³/s Mar. 13, 14.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	3060	3320	2260	2370	2690	3070	2700	26600	15100	3430	3520	2290
2	2950	3160	2540	2470	2750	2630	2710	24600	14900	3430	3640	2900
3	3090	3160	2360	2940	2140	1410	2820	26400	13300	3400	3430	3020
4	3100	3150	2370	3150	1860	1670	2670	27400	12400	3250	3160	3100
5	3330	3020	2230	3200	2300	1800	2680	29100	11800	3250	3340	3130
6	3160	3640	2450	3250	2080	1920	3190	25100	9220	2900	3400	3130
7	3240	3280	2450	3080	1960	2360	3640	19400	8460	1880	3340	3340
8	3150	2490	2450	2850	2530	2320	3900	15900	8370	2510	3370	3280
9	3230	2340	2550	2910	2770	2260	4500	17800	8420	2790	3340	3370
10	3210	3020	2270	2990	3010	2250	5220	19900	7680	2770	3460	2820
11	3240	2860	2570	2270	2730	1920	7320	16800	6410	3370	3400	2770
12	3240	2880	2750	2510	2760	1210	6400	13900	5730	3310	3100	2690
13	3220	3400	2830	3450	2610	1100	4570	13800	5430	3340	2510	3100
14	3150	3510	3100	2580	2600	1100	4540	13500	5390	3310	2710	3280
15	3150	2160	3060	2040	2820	1250	6910	13000	5130	3370	2990	3460
16	3190	1540	3060	2080	2950	1450	8520	12900	5280	3310	3280	3370
17	3190	1890	2580	2300	2910	1770	20300	7070	5170	3340	3190	3100
18	3170	2640	2690	2600	2930	1810	46200	5540	4950	3280	3190	3190
19	3230	2750	2820	2420	2960	1460	33600	4980	5200	3340	3190	3190
20	3250	2790	2930	2810	2800	2220	25800	5200	5090	3310	3160	3280
21	3210	2760	3030	2500	2920	5640	21200	5770	5130	3840	3370	3280
22	3310	2740	2810	2670	2970	8570	12400	9320	4670	3430	3460	2820
23	3300	2490	3030	2620	3080	4180	11200	5850	3520	3400	3250	2740
24	3230	3000	2930	2120	2860	4320	13100	7510	3100	3400	3490	2770
25	3260	2920	2970	1810	2990	3790	35200	6490	3040	3490	3550	3340
26	3280	1990	2820	2120	2920	3340	49900	5970	3070	3460	3520	3070
27	3200	1990	2820	2060	3260	2260	48000	6990	3040	3310	3400	3020
28	3090	2340	2630	2210	3020	2290	38000	8090	3020	3430	3280	3020
29	3320	2360	2430	2350	---	2280	27100	9130	3100	3520	3610	2990
30	3110	2420	2680	2480	---	2500	28200	8510	3340	3640	3490	3340
31	3240	---	2640	2620	---	2670	---	8890	---	3550	2770	---
TOTAL	99100	82010	83110	79830	76180	78820	482490	421410	198460	101360	101910	92200
MEAN	3197	2734	2681	2575	2721	2543	16080	13590	6615	3270	3287	3073
MAX	3330	3640	3100	3450	3260	8570	49900	29100	15100	3840	3640	3460
MIN	2950	1540	2230	1810	1860	1100	2670	4980	3020	1880	2510	2290
CAL YR 1982 TOTAL	1708230		MEAN	4680	MAX	18000	MIN	1540				
WTR YR 1983 TOTAL	1896880		MEAN	5197	MAX	49900	MIN	1100				

KENNEBEC RIVER BASIN

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 upstream from Mill Stream and North Anson.

DRAINAGE AREA.--353 mi².

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 National Geodetic Vertical Datum of 1929. Nov. 1, 1901, to May 5, 1907, nonrecording gage 1 mi upstream at different datum.

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

AVERAGE DISCHARGE.--62 years (water years 1902-06, 1926-83), 717 ft³/s (27.58 in/yr).

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

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

Date	Time	Discharge (ft ³ /s)	Gage height (ft)	Date	Time	Discharge (ft ³ /s)	Gage height (ft)
Apr. 17	2200	9400	10.98	Apr. 26	0200	* 14100	13.55

Minimum discharge, 75 ft³/s Sept. 17, 21, 22, gage height, 2.68 ft.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	146	105	474	295	260	485	815	3050	2920	149	126	575
2	135	116	438	260	250	530	785	3140	2090	151	136	298
3	121	174	459	230	600	800	749	3980	1440	398	134	201
4	115	197	526	210	3500	1100	961	3310	1130	268	122	148
5	109	563	514	190	2900	920	1190	2550	1150	247	115	138
6	104	1530	465	185	2350	700	1520	1980	932	1860	112	124
7	102	774	453	180	1920	560	1880	1550	808	1130	158	103
8	105	543	404	175	1700	490	2570	1320	701	683	149	105
9	168	428	161	175	1450	430	2890	1680	584	478	219	102
10	240	346	325	180	1300	390	2710	2230	499	351	269	96
11	207	293	305	195	1150	410	2370	1590	450	285	179	98
12	175	265	295	2750	1050	1000	3120	1390	395	246	306	98
13	159	1450	285	1810	960	2450	3020	1190	352	249	515	97
14	161	1850	275	1040	890	1950	3090	1200	415	270	309	89
15	180	1260	245	725	830	1500	2770	1080	440	218	225	85
16	185	916	283	550	780	1200	2320	1190	565	202	184	80
17	178	691	505	450	740	1030	4880	993	452	183	159	81
18	157	564	478	390	705	950	6800	803	406	162	147	98
19	144	479	392	345	680	1200	4040	697	747	146	154	108
20	136	435	340	315	650	6700	3430	679	563	147	143	92
21	132	423	300	305	625	5000	3280	831	433	173	112	81
22	130	740	275	290	600	6000	2680	727	356	180	96	218
23	123	1470	250	280	580	3300	2380	863	295	237	97	412
24	119	1600	240	425	560	1900	2400	2140	257	186	98	215
25	115	1180	245	630	545	1500	10900	1640	223	178	99	158
26	112	859	265	700	530	1300	10700	1250	207	184	115	131
27	111	695	300	550	510	1150	5630	1040	198	155	114	117
28	108	494	345	440	500	1000	3820	2390	191	137	113	108
29	107	495	170	360	---	900	3770	1860	180	127	110	100
30	105	496	355	310	---	850	3520	1460	157	127	102	93
31	105	---	325	275	---	811	---	2670	---	128	569	---
TOTAL	4294	21431	11092	15215	29115	48506	100990	52473	19536	9635	5486	4449
MEAN	139	714	358	491	1040	1565	3366	1693	651	311	177	148
MAX	240	1850	526	2750	3500	6700	10900	3980	2920	1860	569	575
MIN	102	105	240	175	250	390	749	679	157	127	96	80
CFSM	.39	2.02	1.01	1.39	2.95	4.42	9.54	4.80	1.84	.88	.50	.42
IN.	.45	2.26	1.17	1.60	3.07	5.11	10.64	5.53	2.06	1.02	.58	.47

CAL YR 1982	TOTAL	207340	MEAN	568	MAX	8540	MIN	62	CFSM	1.61	IN	21.85
WTR YR 1983	TOTAL	322222	MEAN	883	MAX	10900	MIN	80	CFSM	2.50	IN	33.96

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 upstream from railroad bridge in East Wilton, and 1.5 mi downstream from Varnum Stream.

DRAINAGE AREA.--45.8 mi².

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

AVERAGE DISCHARGE.--6 years, 89.8 ft³/s (26.63 in/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 3,080 ft³/s Apr. 28, 1979, gage height, 14.66 ft; minimum daily, 3.6 ft³/s Oct. 12, 1978.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 1,510 ft³/s Apr. 25, gage height, 12.57 ft; minimum daily, 6.3 ft³/s Sept. 21.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	17	35	70	46	45	35	112	232	300	10	10	38
2	15	36	67	40	50	114	113	253	217	12	10	22
3	13	32	67	34	390	335	116	395	161	20	12	13
4	12	33	72	35	589	225	205	411	158	20	11	11
5	12	59	63	27	304	154	197	329	161	43	10	10
6	12	87	62	25	180	122	205	241	133	175	16	9.3
7	11	66	61	24	132	111	203	186	118	119	18	8.5
8	17	52	54	23	109	94	223	154	103	82	13	14
9	24	42	49	24	95	85	229	207	89	59	49	22
10	23	34	65	28	80	126	208	217	80	40	23	25
11	20	28	49	799	73	239	280	207	75	31	18	25
12	18	26	48	461	66	364	316	193	72	25	91	25
13	17	146	74	222	61	409	281	175	56	22	78	23
14	19	180	93	136	57	301	249	154	56	18	54	22
15	20	133	45	100	54	232	207	142	51	16	43	22
16	21	103	52	81	51	233	188	151	53	16	35	16
17	20	80	73	78	48	215	431	126	45	17	28	7.9
18	16	68	142	67	45	193	440	112	52	14	22	8.2
19	15	59	123	49	43	600	300	100	91	13	22	7.2
20	15	55	39	45	41	1250	287	112	92	13	18	6.9
21	15	63	36	42	40	745	293	119	73	13	16	6.3
22	14	119	34	41	38	834	242	103	58	33	14	46
23	13	141	32	40	37	514	191	170	46	22	14	32
24	12	127	31	45	37	299	263	241	36	18	20	22
25	24	102	30	60	36	217	1370	207	28	17	26	17
26	38	82	31	83	35	170	1010	166	22	15	23	14
27	39	71	39	92	35	142	528	161	22	13	23	12
28	37	55	54	81	34	140	329	312	20	11	28	10
29	36	56	66	70	---	137	266	226	17	11	34	8.5
30	36	68	63	48	---	114	253	280	11	11	26	7.9
31	35	---	51	47	---	110	---	446	---	10	57	---
TOTAL	636	2238	1835	2993	2805	8874	9535	6528	2496	939	862	511.7
MEAN	20.5	74.6	59.2	96.5	100	284	318	211	83.2	30.3	27.8	17.1
MAX	39	180	142	799	589	1250	1370	446	300	175	91	46
MIN	11	26	30	23	34	35	112	100	11	10	10	6.3
CAL YR 1982	TOTAL	25062.5	MEAN	68.7	MAX	924	MIN	3.9				
WTR YR 1983	TOTAL	40252.7	MEAN	110	MAX	1370	MIN	6.3				

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 upstream from Twentyfivemile Stream and 5.0 mi south of Pittsfield.

DRAINAGE AREA.--572 mi².

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 National Geodetic Vertical Datum of 1929.

REMARKS.--Records good except those for winter period, which are fair. No gage-height record Jan.6 to Feb 16. Flow regulated by dam 0.4 mi upstream, and by Great Moose and Sebasticook Lakes and Plymouth Pond, combined capacity about 2,345,000,000 ft³. Several observations of water temperature and specific conductance were made during the year.

AVERAGE DISCHARGE.--54 years (water years 1930-83), 958 ft³/s.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 14,400 ft³/s Mar. 22, 1936, gage height, 13.18 ft; minimum daily, 4.5 ft³/s Nov. 10, 1956.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 9,560 ft³/s Apr. 27, 10.63 ft; minimum daily, 59 ft³/s July 14, 16.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	137	289	575	503	440	268	2160	6210	2780	83	67	75
2	113	287	561	435	410	284	1970	5190	2900	85	71	81
3	110	238	553	319	750	753	1820	4470	2770	85	94	428
4	96	236	569	318	1300	1060	1790	4040	2560	85	94	763
5	87	322	581	315	1250	1140	1770	3820	2400	86	93	695
6	200	365	576	310	1100	1140	1750	3520	2210	99	93	624
7	465	403	574	310	950	1120	1750	3230	2020	103	91	563
8	658	407	561	310	780	1050	1770	2970	1840	101	89	687
9	727	406	530	310	630	974	1850	2720	1670	101	89	721
10	723	439	482	310	510	894	1900	2490	1500	100	88	721
11	711	474	430	1100	430	1300	2200	2270	1310	93	89	715
12	763	457	397	930	350	1910	2750	2090	1220	86	98	680
13	818	507	344	840	295	2820	3190	1950	1130	68	120	655
14	814	732	292	750	250	3570	3370	1860	958	59	134	628
15	785	886	339	690	220	3670	3280	1760	842	60	238	611
16	759	1020	257	640	215	3520	3080	1560	733	59	242	559
17	699	1060	322	590	459	3310	3690	1300	415	60	87	523
18	649	1010	381	550	623	3100	5710	1150	461	61	117	503
19	593	877	414	520	358	2930	7470	1050	428	61	130	592
20	597	739	408	500	212	3280	8220	967	402	62	158	618
21	559	655	384	480	216	4250	8020	958	366	62	183	591
22	503	631	372	470	255	5470	7330	939	352	63	190	260
23	479	652	351	450	287	6160	6370	927	316	63	174	251
24	444	644	346	680	271	6250	5430	1040	280	63	142	435
25	414	644	341	910	270	5810	6620	1190	252	62	121	402
26	390	658	340	800	273	5020	8310	1240	220	62	111	353
27	348	662	344	720	270	4190	9430	1260	225	63	172	322
28	383	626	498	640	269	3510	9310	1470	303	64	191	309
29	331	594	607	570	---	2960	8470	1700	149	65	102	304
30	290	588	649	510	---	2610	7370	1820	104	66	74	301
31	290	---	545	465	---	2360	---	2360	---	66	76	---
TOTAL	14935	17508	13923	17245	13643	86683	138150	69521	33116	2296	3818	14970
MEAN	482	584	449	556	487	2796	4605	2243	1104	74.1	123	499
MAX	818	1060	649	1100	1300	6250	9430	6210	2900	103	242	763
MIN	87	236	257	310	212	268	1750	927	104	59	67	75
CAL YR 1982 TOTAL	272181		MEAN	746	MAX	5900	MIN	30				
WTR YR 1983 TOTAL	425808		MEAN	1167	MAX	9430	MIN	59				

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 downstream from Dutton Pond and approximately 0.5 mi southwest of Albion.

DRAINAGE AREA.--2.92 mi².

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

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

REMARKS.--Records fair.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge 159 ft³/s Apr. 25, 1983, gage height 11.60 ft; minimum discharge, no flow many days during Aug., Sept. 1983.

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

Date	Time	Discharge (ft ³ /s)	Gage height (ft)	Date	Time	Discharge (ft ³ /s)	Gage height (ft)
Feb. 03	1200	45	9.90	Apr. 17	1715	55	10.09
Mar. 12	1700	36	9.71	Apr. 25.	0145	* 159	11.60
Mar. 22	0100	55	10.09				

Minimum discharge, no flow many days during Aug., and Sept.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.12	.23	1.7	2.8	2.0	1.4	8.0	21	13	.30	.07	.02
2	.10	.26	1.7	2.5	2.0	5.0	7.3	20	12	.29	.10	.00
3	.09	.29	1.7	2.2	17	15	6.6	20	9.7	.29	.09	.00
4	.09	.20	1.8	1.9	16	12	9.3	18	9.3	.27	.07	.00
5	.08	.46	1.7	1.8	15	12	8.3	17	8.8	.27	.06	.00
6	.08	.39	1.8	1.8	12	11	8.0	15	7.9	.65	.06	.00
7	.11	.28	1.9	1.8	7.9	9.7	7.4	14	7.1	.52	.06	.00
8	.18	.24	1.8	1.7	5.6	8.6	7.2	12	6.4	.41	.03	.00
9	.15	.23	1.7	1.5	4.5	7.6	6.7	10	5.3	.36	.08	.00
10	.15	.21	1.5	1.3	3.8	10	6.3	8.8	4.3	.32	.03	.00
11	.14	.21	1.0	8.4	3.3	16	15	8.0	3.4	.28	.01	.00
12	.11	.22	.70	7.4	3.0	27	15	7.2	2.7	.26	.51	.00
13	.11	3.1	.45	6.2	2.6	30	13	6.7	2.3	.58	.42	.00
14	.25	1.9	.43	5.1	2.4	26	11	6.5	2.1	.41	.23	.00
15	.23	2.4	.42	4.3	2.3	21	10	6.1	1.8	.36	.18	.00
16	.18	2.8	1.4	3.8	2.2	20	9.0	5.9	1.6	.32	.14	.00
17	.15	2.7	2.8	3.3	2.0	18	36	5.3	1.5	.29	.09	.00
18	.15	2.5	1.9	2.9	2.0	16	36	4.6	1.3	.27	.06	.00
19	.15	2.2	1.4	2.5	2.0	19	31	3.8	1.3	.25	.00	.00
20	.14	2.1	1.6	2.3	1.9	28	25	4.4	1.1	.21	.00	.00
21	.17	1.9	1.7	2.0	1.8	25	20	4.8	.91	.18	.00	.00
22	.18	1.9	1.7	1.9	1.7	41	17	4.3	.79	.35	.00	.04
23	.16	1.8	1.4	1.9	1.7	32	14	4.9	.64	.35	.00	.04
24	.15	1.9	1.4	4.2	1.6	25	25	5.0	.56	.26	.00	.00
25	.15	1.9	1.5	3.6	1.6	18	81	4.8	.45	.23	.00	.00
26	.15	1.7	3.9	3.1	1.5	14	70	4.3	.42	.20	.00	.00
27	.15	1.6	2.6	2.6	1.4	12	59	4.6	.41	.16	.00	.00
28	.16	1.4	2.9	2.4	1.4	12	41	8.6	.39	.12	.00	.00
29	.18	1.5	4.6	2.2	---	11	30	7.2	.35	.11	.00	.00
30	.10	1.8	3.9	2.1	---	9.9	24	9.3	.34	.11	.00	.00
31	.21	---	3.2	2.1	---	9.0	---	15	---	.10	.01	---
TOTAL	4.52	40.32	58.20	93.6	122.2	522.1	657.1	287.1	108.16	9.08	2.30	.10
MFAN	.15	1.34	1.88	3.02	4.36	16.8	21.9	9.26	3.61	.29	.074	.003
MAX	.25	3.1	4.6	8.4	17	41	81	21	13	.65	.51	.04
MIN	.08	.20	.42	1.3	1.4	1.4	6.3	3.8	.34	.10	.00	.00
CFSM	.05	.46	.64	1.03	1.49	5.75	7.50	3.17	1.24	.10	.03	.001
IN.	.06	.51	.74	1.19	1.56	6.65	8.37	3.66	1.38	.12	.03	.00
CAL YR 1982 TOTAL	1326.16			MEAN 3.63	MAX 56	MIN .07	CFSM 1.24	IN 16.89				
WTR YR 1983 TOTAL	1904.78			MEAN 5.22	MAX 81	MIN .00	CFSM 1.79	IN 24.26				

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 downstream from Sebasticook River, and 11.5 mi upstream from Cushnoc Dam at Augusta.

DRAINAGE AREA.--5,403 mi².

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, Prior to Oct 1, 1979, at datum 22.05 ft higher. National Geodetic Vertical Datum of 1929. Since July 10, 1980, auxiliary water-stage recorder 11.5 mi 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).

AVERAGE DISCHARGE.--5 years, 8,908 ft³/s.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 111,000 ft³/s Apr. 28, 1979, revised, gage height, 26.40 ft; minimum daily, 2,420 ft³/s Mar. 10, 1980.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 107,000 ft³/s Apr. 26, gage height, 25.69 ft; minimum daily, 3,820 ft³/s Aug. 5.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	4180	4320	5750	5080	5120	4710	11200	44800	27000	4220	4080	5170
2	4050	4350	5680	4880	4940	5630	11000	39100	28300	4120	4150	4600
3	4000	4260	5570	4600	7240	8960	10500	41500	23900	4250	3970	4970
4	3960	4440	5780	4620	16200	9330	12800	44700	22000	4110	3840	5900
5	4060	4940	5770	4790	13700	8350	15400	42600	21200	4110	3820	5720
6	4340	8000	5680	4940	7900	7650	14400	38700	18600	6600	3900	5440
7	4990	7480	5630	4800	6550	7340	15400	33500	16500	5660	3950	5320
8	5630	5310	5420	4550	6100	6860	16000	27900	14900	4270	4160	5620
9	5710	4860	5240	4540	5770	6630	18800	25200	14700	4420	4380	5780
10	6160	5000	4770	4590	4980	6800	18000	29500	13400	4080	4470	5780
11	6000	5200	4650	14200	5140	9900	22600	27800	12500	4080	4340	5270
12	6020	7050	4650	20300	4930	14100	27700	24800	10100	4300	4390	5130
13	6090	6450	4420	11800	4780	25900	24200	22100	9880	4320	4790	5230
14	6110	12900	4590	8130	4660	22200	21700	21200	10500	4160	4310	5720
15	5990	8220	4790	6070	4570	18700	20800	20100	9650	4120	4530	5320
16	5950	7110	4740	5170	7810	17100	22000	19000	10000	4180	4640	5340
17	5680	6610	4480	5570	5260	16200	32700	18300	9990	4120	4150	5140
18	5590	6800	5200	5540	5660	15900	78600	13400	8360	4060	4170	5060
19	5340	6620	5120	5170	4960	16900	68500	11300	9020	3860	4120	5440
20	5220	6160	5150	4890	4550	44900	53700	9260	9570	3880	4200	5390
21	5400	6040	4990	5280	4550	37200	44800	11100	7870	3960	4120	5270
22	5100	6880	4970	5160	4650	41300	37100	13000	7720	3970	4300	4650
23	5010	8720	4830	5200	4750	37600	29000	15100	6250	3970	4300	5010
24	4970	9740	4890	5870	4720	27200	27900	16200	5300	4220	4140	5280
25	4800	8110	4820	6450	4710	22800	70700	17000	4170	4180	4080	5000
26	4740	5440	4770	6230	4700	19500	105000	15600	4140	4110	4230	4710
27	4470	5880	5010	5830	4640	17000	88200	13800	4290	4110	4420	4610
28	4610	6360	5530	5360	4680	15200	72700	18700	4390	4150	4540	4780
29	4500	5680	5390	5190	---	14700	55500	20700	3910	4140	4340	4660
30	4420	5720	5920	5160	---	13700	46000	18800	3850	4100	4260	4360
31	4380	---	5540	5230	---	12500	---	26300	---	4020	5420	---
TOTAL	157470	194650	159740	195190	168220	532760	1092900	741060	351960	131850	132510	155670
MEAN	5080	6488	5153	6296	6008	17190	36430	23910	11730	4253	4275	5189
MAX	6160	12900	5920	20300	16200	44900	105000	44800	28300	6600	5420	5900
MIN	3960	4260	4420	4540	4550	4710	10500	9260	3850	3860	3820	4360
CAL YR 1982 TOTAL	3152430		MEAN	8637	MAX	41800	MIN	3800				
WTR YR 1983 TOTAL	4013980		MEAN	11000	MAX	105000	MIN	3820				

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 recorded, 15.1 mg/L Feb. 5, 1983; minimum, 4.7 mg/L Aug. 15, 1982.

EXTREMES FOR CURRENT YEAR.--

SPECIFIC CONDUCTANCE: Maximum, 100 micromhos Dec. 30; minimum, 32 micromhos Apr. 26.

pH: Maximum, 7.3 units June 30; minimum, 6.4 units Jan. 14.

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

DISSOLVED OXYGEN: Maximum recorded, 15.1 mg/L Feb. 5; minimum recorded, 7.1 mg/L Sept. 14.

WATER QUALITY DATA, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983

		DIS- CHARGE, IN CUBIC FEET PER SECOND	SPE- CIFIC CON- DUCT- ANCE (UMHOS)	PH (UNITS)	TEMPER- ATURE, AIR (DEG C)	TEMPER- ATURE (DEG C)	TUR- BID- ITY (NTU)	BARO- METRIC PRES- SURE (MM OF HG)	OXYGEN, DIS- SOLVED (MG/L)	OXYGEN, DIS- SOLVED (PER- CENT SATUR- ATION)	COLI- FORM, FECAL, 0.7 UM-MF (COLS./ 100 ML)	STREP- TOCOCCI FECAL, KF AGAR (COLS. PER 100 ML)	
DATE	TIME												
NOV 15...	1100	8280	68	6.8	5.0	6.5	2.9	772	12.0	96	870	1900	
JAN 18...	1330	5540	66	7.0	-6.0	0.0	4.4	768	14.4	98	K480	470	
MAR 31...	1430	12500	63	7.1	8.0	3.0	1.4	772	13.6	100	82	K36	
MAY 23...	1430	15100	50	6.8	11.0	13.0	1.6	767	10.6	100	K140	940	
JUN 29...	1445	3910	73	7.4	22.5	21.5	1.7	770	9.3	104	>1200	1800	
AUG 22...	1400	4300	63	7.0	20.0	21.0	2.0	770	8.1	90	K140	K2100	
		HARD- NESS (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- LINITY LAB (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)	SOLIDS, RESIDUE AT 180 DEG. C DIS- SOLVED (MG/L)	SOLIDS, SUM OF CONSTI- TUENTS, DIS- SOLVED (MG/L)
DATE													
NOV 15...	19		5.8	1.2	4.3	0.5	14	8.0	5.1	<0.1	3.7	58	37
JAN 18...	18		5.3	1.1	5.1	0.9	11	9.4	7.2	<0.1	4.8	48	41
MAR 31...	20		6.2	1.2	3.9	0.7	15	8.0	5.6	<0.1	4.2	50	39
MAY 23...	17		5.1	1.1	2.9	0.6	13	4.0	3.8	<0.1	3.6	55	29
JUN 29...	23		7.2	1.3	4.7	0.7	18	10	6.3	<0.1	2.6	51	44
AUG 22...	20		6.2	1.2	5.0	0.7	13	10	6.9	<0.1	3.0	48	41

01049265 KENNEBEC RIVER AT NORTH SIDNEY, ME--Continued

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983

DATE	NITRO- GEN, NO ₂ :NO ₃ DIS- SOLVED (MG/L AS N)	NITRO- GEN, AMMONIA DIS- SOLVED (MG/L AS N)	NITRO- GEN, AMMONIA DIS- SOLVED (MG/L AS NH ₄)	NITRO- GEN,AM- MONIA + ORGANIC TOTAL (MG/L AS N)	PHOS- PHORUS, TOTAL (MG/L AS P)	PHOS- PHORUS, DIS- SOLVED (MG/L AS P)	PHOS- PHORUS, ORTHO, DIS- SOLVED (MG/L AS P)	ALUM- INUM, DIS- SOLVED (UG/L AS AL)	ARSENIC DIS- SOLVED (UG/L AS AS)	BARIUM, DIS- SOLVED (UG/L AS BA)
NOV 15...	0.18	0.03	0.04	0.6	0.04	0.03	0.02	100	1	10.00
JAN 18...	0.24	0.06	0.08	0.4	0.05	0.02	<0.01	--	--	--
MAR 31...	0.16	0.05	0.06	0.2	0.02	<0.01	<0.01	60	1	9.00
MAY 23...	0.14	0.01	0.01	0.4	0.03	<0.01	<0.01	100	1	9.00
JUN 29...	<0.1	0.01	0.01	0.4	0.04	0.03	<0.01	---	---	---
AUG 22...	0.17	<0.01	0.01	0.3	0.06	0.03	0.01	60	1	25.00

DATE	BERYL- LIUM, DIS- SOLVED (UG/L AS BE)	CADMIUM DIS- SOLVED (UG/L AS CD)	CHRO- MIUM, DIS- SOLVED (UG/L AS CR)	COBALT, DIS- SOLVED (UG/L AS CO)	COPPER, DIS- SOLVED (UG/L AS CU)	IRON, DIS- SOLVED (UG/L AS FE)	LEAD, DIS- SOLVED (UG/L AS PB)	LITHIUM DIS- SOLVED (UG/L AS LI)	MANGA- NESE, DIS- SOLVED (UG/L AS MN)	MERCURY DIS- SOLVED (UG/L AS HG)
NOV 15...	<1.00	2	<1	<3.00	6	70	1	<4.00	12	<0.1
JAN 18...	--	--	--	--	--	--	--	--	--	--
MAR 31...	<1.00	<1	<1	<3.00	8	50	4	<4.00	26	<0.1
MAY 23...	<0.50	2	1	<3.00	2	80	3	<4.00	18	<0.1
JUN 29...	--	--	--	--	--	--	--	--	--	--
AUG 22...	<0.50	<1	<1	<3.00	4	60	3	<4.00	15	<0.1

DATE	MOLYB- DENUM, DIS- SOLVED (UG/L AS MO)	NICKEL, DIS- SOLVED (UG/L AS NI)	SELE- NIUM, DIS- SOLVED (UG/L AS SE)	SILVER, DIS- SOLVED (UG/L AS AG)	STRON- TIUM, DIS- SOLVED (UG/L AS SR)	VANA- DIUM, DIS- SOLVED (UG/L AS V)	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
NOV 15...	<10	<1	<1	<1	30	<6.0	30	10	224	75
JAN 18...	--	--	--	--	--	--	--	38	568	55
MAR 31...	<10	3	<1	<1	30	<6.0	<3.00	14	488	62
MAY 23...	<10	1	<1	<1	20	<6.0	5.00	6	258	53
JUN 29...	--	--	--	--	--	--	--	7	74	65
AUG 22...	<10	1	<1	<1	30	<6.0	10	1	12	80

01049265 KENNEBEC RIVER AT NORTH SIDNEY, ME--Continued

SPECIFIC CONDUCTANCE (MICROMHOS/CM AT 25 DEG. C), WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
OCTOBER			NOVEMBER			DECEMBER			JANUARY			
1	---	---	---	65	63	64	80	67	72	80	77	79
2	---	---	---	69	64	66	71	66	68	78	76	77
3	---	---	---	72	68	70	71	69	70	93	77	83
4	---	---	---	70	64	68	74	72	74	94	84	88
5	---	---	---	71	65	68	76	74	75	87	80	85
6	---	---	---	70	64	67	75	72	73	86	77	80
7	---	---	---	68	57	62	84	73	76	81	77	79
8	73	66	69	63	57	60	74	71	73	77	74	76
9	69	64	67	69	62	64	77	72	75	75	73	74
10	71	65	68	88	69	77	79	74	76	77	74	75
11	---	---	---	76	69	73	80	72	75	87	73	80
12	---	---	---	71	69	70	78	75	77	70	57	61
13	---	---	---	79	69	72	90	76	79	58	50	54
14	---	---	---	74	53	67	93	76	83	59	50	54
15	---	---	---	79	53	61	81	72	76	61	54	56
16	---	---	---	73	60	66	82	71	74	63	58	60
17	---	---	---	70	66	68	83	75	79	73	63	67
18	---	---	---	67	61	64	79	66	72	74	62	67
19	---	---	---	65	61	63	74	66	69	62	60	61
20	---	---	---	66	63	65	76	72	74	66	62	64
21	---	---	---	69	66	67	79	77	78	69	64	67
22	---	---	---	71	67	69	81	77	78	72	68	70
23	---	---	---	69	61	66	87	78	82	68	65	66
24	---	---	---	66	60	62	91	74	81	78	67	74
25	---	---	---	67	61	63	74	72	73	75	70	72
26	---	---	---	66	62	64	85	73	78	76	69	72
27	---	---	---	66	65	66	80	67	73	78	74	76
28	---	---	---	71	66	69	69	65	67	74	71	73
29	64	62	64	75	72	73	84	70	78	73	72	73
30	63	61	62	78	73	75	100	81	86	73	72	72
31	64	61	62	---	---	---	83	80	81	78	72	74
MONTH	73	61	65	88	53	67	100	65	76	94	50	71

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
FEBRUARY			MARCH			APRIL			MAY			
1	80	75	77	67	64	65	62	59	61	76	71	74
2	77	69	74	73	65	67	63	61	62	98	74	86
3	77	68	70	66	62	64	65	63	64	86	70	76
4	67	57	63	61	59	60	68	64	67	71	64	67
5	55	51	53	60	58	59	66	60	63	71	65	68
6	55	52	53	62	60	60	60	58	59	87	66	74
7	56	53	55	63	62	62	59	54	56	85	54	74
8	58	56	57	63	60	62	54	52	53	63	42	46
9	63	58	61	62	59	60	52	47	49	43	42	43
10	65	61	63	68	60	64	47	46	47	63	42	50
11	62	57	59	68	65	66	55	47	52	55	41	44
12	65	59	63	65	60	63	52	47	48	43	41	42
13	64	62	64	60	53	55	48	47	47	45	43	44
14	66	63	65	53	49	50	49	48	48	45	44	45
15	64	60	62	53	49	50	49	47	48	47	45	46
16	68	60	63	54	52	53	48	46	47	47	45	46
17	67	64	66	56	52	54	53	46	50	48	45	46
18	78	63	68	56	54	56	47	35	39	50	48	49
19	72	65	67	64	54	58	40	36	38	54	50	51
20	68	64	67	61	40	50	45	39	41	58	54	55
21	71	67	68	43	36	38	61	43	50	57	53	55
22	70	64	65	45	42	44	54	46	49	53	49	52
23	64	63	64	47	41	43	67	42	48	51	49	50
24	71	63	66	46	44	44	64	42	45	51	48	50
25	69	63	65	47	44	46	80	39	51	50	47	49
26	64	62	63	51	46	49	37	32	34	---	---	---
27	66	63	65	54	49	51	37	33	34	---	---	---
28	65	63	64	62	53	57	46	37	42	---	---	---
29	---	---	---	61	60	60	67	46	56	53	45	47
30	---	---	---	61	59	60	76	67	72	55	48	51
31	---	---	---	62	58	60	---	---	---	48	46	47
MONTH	80	51	64	73	36	56	80	32	51	98	41	55

KENNEBEC RIVER BASIN

01049265 KENNEBEC RIVER AT NORTH SIDNEY, ME--Continued

SPECIFIC CONDUCTANCE (MICROMHOS/CM AT 25 DEG. C), WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
	JUNE			JULY			AUGUST			SEPTEMBER		
1	51	46	48	57	65	66	65	64	64	60	55	57
2	52	47	49	---	---	---	67	64	66	57	55	56
3	47	44	45	---	---	---	64	63	63	66	57	60
4	44	41	42	---	---	---	64	60	62	72	66	68
5	42	41	42	---	---	---	62	60	61	74	70	71
6	46	42	44	---	---	---	61	57	59	77	72	75
7	47	45	46	---	---	---	60	57	58	76	69	73
8	46	45	46	---	---	---	61	59	60	76	69	73
9	48	46	47	---	---	---	62	58	60	72	69	71
10	44	46	47	---	---	---	62	60	61	72	68	69
11	48	46	47	---	---	---	---	---	---	69	67	68
12	49	47	48	---	---	---	---	---	---	69	65	67
13	48	47	48	---	---	---	---	---	---	71	65	68
14	50	47	49	---	---	---	---	---	---	72	70	71
15	61	44	52	---	---	---	---	---	---	72	65	68
16	57	54	55	---	---	---	---	---	---	72	56	66
17	57	54	55	---	---	---	---	---	---	55	44	48
18	56	55	55	---	---	---	---	---	---	54	45	48
19	55	54	55	63	60	61	---	---	---	63	54	59
20	55	54	54	72	61	65	---	---	---	62	54	60
21	---	---	---	72	59	63	---	---	---	58	54	55
22	---	---	---	67	62	64	---	---	---	68	56	62
23	---	---	---	68	62	65	65	62	64	76	64	68
24	---	---	---	66	63	64	65	59	62	74	62	65
25	---	---	---	63	59	61	60	57	59	66	57	62
26	---	---	---	60	55	57	59	56	58	62	57	59
27	---	---	---	58	56	57	57	55	56	63	60	62
28	67	65	66	59	56	58	56	55	56	63	59	61
29	68	65	66	67	62	62	58	56	57	66	61	63
30	67	64	66	65	61	63	59	56	58	66	63	65
31	---	---	---	64	62	63	68	59	62	---	---	---
MONTH	68	41	51	72	55	62	68	55	60	77	44	64
YEAR	100	32	62									

PH (STANDARD UNITS), WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983

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

TEMPERATURE, WATER (DEG. C), WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983

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

KENNEBEC RIVER BASIN

77

01049265 KENNEBEC RIVER AT NORTH SIDNEY, ME--Continued

TEMPERATURE, WATER (DEG. C), WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983

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

OXYGEN, DISSOLVED (DO), MG/L, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
	OCTOBER			NOVEMBER			DECEMBER			JANUARY		
1	---	---	---	10.7	10.4	10.6	---	---	---	13.5	13.3	13.4
2	---	---	---	10.4	10.2	10.3	---	---	---	13.3	13.1	13.2
3	---	---	---	10.3	10.1	10.2	---	---	---	13.2	13.0	13.1
4	---	---	---	10.1	9.8	10.0	---	---	---	13.7	13.2	13.5
5	---	---	---	9.8	9.5	9.7	---	---	---	13.6	13.3	13.5
6	---	---	---	10.7	9.7	10.2	---	---	---	13.5	13.2	13.4
7	---	---	---	11.0	10.7	10.8	---	---	---	13.3	13.2	13.3
8	9.3	9.0	9.2	10.9	10.5	10.7	---	---	---	13.3	13.2	13.2
9	9.7	9.2	9.4	10.8	10.4	10.5	---	---	---	13.7	13.3	13.5
10	10.2	9.5	9.8	10.8	10.5	10.6	---	---	---	13.6	13.4	13.5
11	---	---	---	10.9	10.4	10.6	---	---	---	14.0	13.1	13.5
12	---	---	---	10.8	10.5	10.6	---	---	---	14.6	14.1	14.4
13	---	---	---	11.1	10.5	10.7	---	---	---	14.5	13.9	14.3
14	---	---	---	12.4	11.2	12.0	---	---	---	14.6	14.0	14.3
15	---	---	---	12.3	11.6	12.0	---	---	---	14.4	14.0	14.2
16	---	---	---	12.1	11.7	11.9	---	---	---	14.1	13.8	13.9
17	---	---	---	12.1	11.9	12.0	---	---	---	13.9	13.7	13.8
18	---	---	---	12.3	12.1	12.2	---	---	---	14.9	13.7	14.3
19	---	---	---	12.6	12.3	12.5	---	---	---	14.9	14.7	14.8
20	---	---	---	13.0	12.7	12.9	---	---	---	14.7	14.5	14.6
21	---	---	---	13.0	12.7	12.9	---	---	---	14.7	14.4	14.6
22	---	---	---	13.3	12.9	13.1	---	---	---	14.6	14.5	14.6
23	---	---	---	13.4	13.1	13.2	---	---	---	14.6	14.5	14.5
24	---	---	---	13.2	13.0	13.1	---	---	---	14.5	14.1	14.3
25	---	---	---	13.4	13.0	13.1	---	---	---	14.3	14.0	14.2
26	---	---	---	13.3	13.0	13.2	---	---	---	14.4	14.2	14.3
27	---	---	---	13.2	12.9	13.1	---	---	---	14.5	14.2	14.4
28	---	---	---	13.4	13.1	13.2	13.7	13.5	13.6	14.4	14.2	14.3
29	11.2	10.7	10.9	13.3	13.0	13.2	13.5	13.3	13.4	14.2	14.1	14.1
30	11.2	10.6	10.9	---	---	---	13.6	13.4	13.4	14.3	14.1	14.2
31	11.1	10.6	10.8	---	---	---	13.7	13.5	13.6	14.1	14.0	14.1
MONTH	11.2	9.0	10.2	13.4	9.5	11.7	13.7	13.3	13.5	14.9	13.0	14.0

KENNEBEC RIVER BASIN

01049265 KENNEBEC RIVER AT NORTH SIDNEY, ME--Continued

OXYGEN, DISSOLVED (DO), MG/L, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
FEBRUARY				MARCH			APRIL			MAY		
1	14.2	14.1	14.1	12.7	12.5	12.6	13.2	12.9	13.1	11.7	11.5	11.6
2	14.3	14.1	14.2	12.9	12.3	12.5	13.1	12.9	13.0	11.7	10.9	11.3
3	14.2	13.9	14.0	13.6	13.0	13.4	13.0	12.8	12.9	11.4	11.2	11.3
4	14.8	14.2	14.6	13.7	13.4	13.5	13.1	12.8	12.9	11.4	11.0	11.2
5	15.1	14.6	14.9	13.7	13.1	13.4	13.1	12.9	13.0	11.4	11.2	11.3
6	14.9	14.5	14.7	13.1	12.7	13.0	13.0	12.7	12.9	11.4	10.8	11.2
7	14.7	14.4	14.6	12.7	12.5	12.6	13.0	12.8	12.9	11.4	10.7	11.1
8	14.5	14.1	14.3	12.5	12.2	12.4	12.8	12.5	12.7	11.8	11.1	11.6
9	14.2	14.1	14.2	12.2	12.0	12.1	12.9	12.6	12.7	11.5	11.4	11.4
10	14.5	14.1	14.3	12.0	11.7	11.8	13.0	12.8	12.9	11.9	11.1	11.5
11	14.4	14.2	14.3	13.0	11.9	12.4	13.0	12.7	12.9	12.1	11.5	11.9
12	14.6	14.1	14.4	13.8	12.7	13.0	13.6	13.1	13.4	12.0	11.4	11.8
13	14.3	14.1	14.2	13.8	13.6	13.8	13.7	13.3	13.5	11.5	11.2	11.4
14	14.2	13.9	14.1	13.8	13.6	13.7	13.4	13.0	13.2	11.4	11.2	11.3
15	13.8	13.7	13.9	13.6	13.2	13.4	13.1	12.7	12.9	11.2	10.9	11.1
16	13.9	13.7	13.7	13.3	13.1	13.2	13.0	12.8	12.9	11.5	10.9	11.2
17	13.8	13.7	13.7	13.1	12.8	13.0	13.7	12.9	13.1	11.6	11.3	11.5
18	13.8	13.6	13.7	12.9	12.6	12.8	14.7	13.8	14.3	11.3	10.9	11.1
19	13.8	13.6	13.7	12.7	12.3	12.5	14.5	13.4	14.0	11.2	10.4	10.9
20	13.9	13.6	13.8	14.9	12.8	14.1	13.7	12.9	13.3	10.4	10.3	10.3
21	13.8	13.4	13.6	14.9	14.4	14.7	13.3	12.2	12.9	10.6	10.3	10.5
22	13.4	13.3	13.3	14.7	14.2	14.4	13.3	12.8	13.1	10.6	10.4	10.5
23	13.3	13.2	13.3	14.8	14.0	14.5	13.2	12.2	12.9	10.8	10.5	10.6
24	13.1	13.0	13.1	14.4	14.2	14.3	12.9	11.7	12.7	11.3	10.7	11.0
25	13.1	12.9	13.0	14.4	14.0	14.2	13.4	11.0	12.5	11.3	11.1	11.2
26	13.1	12.8	13.0	14.3	13.8	14.1	13.8	13.5	13.7	---	---	---
27	13.1	12.9	13.0	14.1	13.7	14.0	13.8	13.4	13.7	---	---	---
28	12.9	12.6	12.8	13.7	13.3	13.5	13.4	12.9	13.1	---	---	---
29	---	---	---	13.5	13.2	13.4	12.9	11.7	12.4	10.8	10.6	10.7
30	---	---	---	13.6	13.2	13.4	11.9	11.5	11.6	10.9	10.6	10.8
31	---	---	---	13.6	13.1	13.3	---	---	---	11.0	10.9	10.9
MONTH	15.1	12.6	13.9	14.9	11.7	13.3	14.7	11.0	13.0	12.1	10.3	11.2
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
JUNE				JULY			AUGUST			SEPTEMBER		
1	10.9	10.7	10.7	9.5	8.9	9.3	8.1	7.5	7.8	9.2	8.4	8.8
2	10.9	10.7	10.8	---	---	---	8.2	7.4	7.7	9.2	8.2	8.7
3	10.9	10.8	10.9	---	---	---	8.5	7.4	7.9	9.2	8.3	8.7
4	10.8	10.5	10.7	---	---	---	8.6	7.4	7.9	8.9	8.0	8.4
5	10.6	10.4	10.5	---	---	---	8.6	7.4	7.9	9.1	7.9	8.4
6	10.3	10.2	10.3	---	---	---	8.4	7.3	7.8	9.0	8.0	8.4
7	10.4	10.3	10.4	---	---	---	8.6	7.3	7.9	8.7	7.7	8.2
8	10.4	10.0	10.3	---	---	---	8.5	7.4	7.9	8.7	7.8	8.2
9	10.0	9.3	9.9	---	---	---	8.2	7.3	7.7	8.9	7.8	8.3
10	10.0	9.6	9.8	---	---	---	7.9	7.2	7.6	8.5	7.9	8.2
11	10.0	9.5	9.8	---	---	---	---	---	---	8.8	7.7	8.2
12	9.8	9.4	9.7	---	---	---	---	---	---	8.8	7.4	8.1
13	9.6	9.0	9.4	---	---	---	---	---	---	8.8	7.2	8.0
14	9.0	8.6	8.8	---	---	---	---	---	---	8.8	7.1	7.8
15	8.8	8.4	8.5	---	---	---	---	---	---	9.1	7.6	8.2
16	8.9	8.6	8.8	---	---	---	---	---	---	9.3	7.7	8.5
17	---	---	---	---	---	---	---	---	---	8.6	8.2	8.4
18	---	---	---	---	---	---	---	---	---	9.2	7.9	8.4
19	---	---	---	9.0	7.9	8.4	---	---	---	9.1	7.8	8.4
20	---	---	---	8.9	7.8	8.2	---	---	---	9.8	8.5	9.1
21	---	---	---	8.6	7.7	8.1	---	---	---	9.9	8.7	9.2
22	---	---	---	8.2	7.7	7.8	---	---	---	9.3	8.5	8.8
23	---	---	---	8.6	7.6	8.1	9.0	7.9	8.4	9.2	8.7	9.0
24	---	---	---	8.4	7.6	8.0	9.3	8.1	8.7	9.6	8.6	9.1
25	---	---	---	8.5	7.6	8.0	9.3	8.2	8.7	9.9	8.8	9.3
26	---	---	---	8.9	7.7	8.3	9.3	8.1	8.7	10.0	9.1	9.4
27	---	---	---	9.2	7.9	8.5	9.5	8.4	8.9	9.7	8.8	9.2
28	---	---	---	9.0	7.9	8.4	9.6	8.3	8.8	9.9	8.7	9.3
29	---	---	---	8.4	7.7	8.1	8.9	8.1	8.5	10.2	9.0	9.6
30	9.9	8.6	9.3	8.5	7.7	8.0	9.2	8.1	8.5	10.0	9.1	9.5
31	---	---	---	8.8	7.5	8.1	8.5	8.0	8.2	---	---	---
MONTH	10.9	8.4	9.9	9.5	7.5	8.2	9.6	7.2	8.2	10.2	7.1	8.7
PERIOD	15.1	7.1	11.6									

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 upstream from culvert under road between U.S. Highway 202 and State Highway 135, 1,800 ft upstream from mouth, and 1.8 mi north of Manchester.

DRAINAGE AREA.--0.93 mi².

PERIOD OF RECORD.--November 1963 to September 1983 (Discontinued).

GAGE.--Water-stage recorder and concrete control. Altitude of gage is 210 ft, from topographic map. Prior to May 20, 1975, at site 50 ft downstream at datum approximately 2 ft lower.

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

AVERAGE DISCHARGE.--19 years (water years 1965-83), 2.02 ft³/s (29.50 in/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 195 ft³/s Dec. 17, 1973, gage height, 3.89 ft; minimum discharge, 0.05 ft³/s Aug. 21, 1970, Aug. 2, 16, 1975, Aug. 25, 26, 1983.

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

Date	Time	Discharge (ft ³ /s)	Gage height (ft)	Date	Time	Discharge (ft ³ /s)	Gage height (ft)
Mar. 19	2145	90	5.13	May 31	0215	64	4.90
Apr. 25	0215	* 177	5.59				

Minimum daily discharge, 0.05 ft³/s Aug. 25, 26.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.18	.18	.52	.60	.65	.54	2.5	4.2	7.4	.18	.20	.28
2	.18	.18	.51	.35	.64	12	2.4	6.4	2.8	1.3	.38	.14
3	.15	.18	.49	.22	12	14	2.5	6.6	2.5	1.3	.38	.12
4	.15	.27	.49	.15	10	4.6	7.1	5.8	5.6	.45	.22	.08
5	.15	.40	.48	.15	4.5	2.7	3.7	6.9	4.6	.85	.18	.08
6	.15	.63	.47	.15	2.5	2.5	2.8	4.0	2.9	5.8	.18	.09
7	.14	.50	.46	.23	1.8	1.9	1.7	3.1	2.8	.90	.18	.09
8	.46	.36	.40	.25	1.6	1.7	1.4	2.5	2.2	.45	.16	.08
9	.57	.30	.36	.24	1.4	1.6	1.2	2.8	1.8	.34	.97	.07
10	.47	.26	.32	.23	1.3	7.3	.96	2.8	1.5	.28	.31	.07
11	.39	.23	.29	20	1.2	9.1	16	2.9	1.4	.25	.25	.07
12	.33	.22	.27	13	1.1	14	5.1	2.6	1.1	.22	6.4	.07
13	.30	1.5	.25	7.2	1.1	9.0	2.0	2.5	1.9	.63	1.5	.07
14	.34	1.4	.24	3.8	1.0	5.3	1.4	2.4	2.2	.31	.58	.07
15	.38	1.5	.23	2.0	.99	4.6	1.3	2.1	1.1	.25	.38	.07
16	.34	1.6	.52	1.4	.95	5.1	1.2	2.2	.90	.34	.31	.09
17	.29	1.2	1.2	1.1	.88	4.0	16	1.9	.90	.28	.20	.11
18	.30	.92	.74	1.0	.84	3.3	9.0	1.5	.79	.20	.18	.09
19	.28	.80	.45	.92	.80	24	4.8	.90	.68	.16	.20	.08
20	.26	.71	.33	.88	.77	25	6.6	.97	.54	.16	.11	.07
21	.25	.65	.31	.85	.73	9.0	6.2	1.1	.41	.20	.07	.07
22	.24	.60	.30	.82	.70	20	4.4	.63	.38	3.2	.08	.63
23	.23	.58	.29	.80	.67	7.1	3.2	2.1	.34	.79	.09	1.1
24	.22	.58	.28	4.5	.64	3.9	14	3.2	.28	.38	.07	.90
25	.21	.55	.31	3.4	.62	3.7	69	1.6	.22	.34	.05	.63
26	.20	.52	1.5	2.5	.61	3.1	13	1.2	.25	.25	.05	.25
27	.20	.49	1.2	1.8	.59	2.8	6.4	2.5	.25	.22	.06	.18
28	.19	.46	.94	1.1	.58	6.9	4.4	8.2	.28	.25	.06	.12
29	.19	.47	2.0	.87	---	5.5	3.5	2.2	.22	.20	.06	.09
30	.19	.54	1.1	.72	---	4.8	4.0	9.3	.20	.20	.07	.08
31	.19	---	.65	.67	---	3.4	---	29	---	.20	.54	---
TOTAL	8.12	18.78	17.90	71.90	51.16	222.48	217.76	126.10	48.44	20.88	14.47	5.94
MEAN	.26	.63	.58	2.32	1.83	7.18	7.26	4.07	1.61	.67	.47	.20
MAX	.57	1.6	2.0	20	12	25	69	29	7.4	5.8	6.4	1.1
MIN	.14	.18	.23	.15	.58	.58	.96	.63	.20	.16	.05	.07
CFSM	.28	.68	.62	2.50	1.97	7.72	7.81	4.38	1.73	.72	.51	.22
IN.	.32	.75	.72	2.87	2.04	8.89	8.70	5.04	1.94	.83	.58	.24

CAL YR 1982 TOTAL 528.40 MEAN 1.45 MAX 24 MIN .10 CFSM 1.56 IN 21.11
WTR YR 1983 TOTAL 823.93 MEAN 2.26 MAX 69 MIN .05 CFSM 2.43 IN 32.92

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 downstream from bridge on Main Street, at Winthrop.

DRAINAGE AREA.--32.7 mi².

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 National Geodetic Vertical Datum of 1929.

REMARKS.--Records good. Some regulation at low flow by Maranacook Lake Outlet dam 0.3 mi upstream. Several observations of water temperature and specific conductance were made during the year.

AVERAGE DISCHARGE.--6 years 55.4 ft³/s (23.01 in/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 460 ft³/s Mar. 22, 1983, gage height, 4.19 ft; minimum, 1.0 ft³/s Dec. 19, 1978, gage height, 0.99 ft.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 460 ft³/s Mar 22, gage height, 4.19 ft; minimum, 1.4 ft³/s Nov 2, gage height, 1.02 ft.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	5.8	2.4	4.3	20	37	32	187	225	198	29	22	19
2	4.8	2.2	4.3	19	36	42	152	244	177	27	20	19
3	4.6	4.1	7.4	16	51	70	126	264	159	23	19	18
4	4.1	5.5	14	15	83	94	127	281	151	21	17	17
5	3.7	5.7	12	14	87	98	143	326	148	19	16	16
6	3.6	4.6	10	14	83	96	188	290	136	19	16	15
7	4.8	4.3	9.6	14	82	92	167	252	128	18	17	15
8	7.4	3.4	8.8	14	82	88	154	220	117	33	15	14
9	6.1	3.1	7.2	13	76	84	139	199	105	28	17	13
10	4.3	2.5	5.3	12	71	88	126	195	95	25	25	14
11	3.7	2.5	6.0	27	67	118	136	197	88	30	21	14
12	3.1	2.6	5.9	43	65	147	151	167	79	25	19	12
13	2.8	3.9	4.9	44	62	186	152	135	71	22	17	12
14	2.9	3.2	4.6	43	58	190	153	127	65	18	17	11
15	2.7	3.3	4.6	42	55	187	177	117	61	17	15	10
16	3.1	2.7	4.9	44	53	182	162	110	57	16	16	9.0
17	3.2	2.7	4.4	42	50	174	175	100	54	16	26	9.4
18	2.4	2.7	4.7	39	51	165	195	91	52	16	20	9.6
19	5.4	3.0	4.7	37	48	193	179	82	50	23	18	8.6
20	7.5	3.0	4.0	36	46	376	156	79	39	25	19	8.3
21	6.2	3.1	3.8	34	43	402	156	79	29	23	20	8.1
22	4.7	3.2	3.8	33	41	448	152	79	28	19	17	7.2
23	4.5	3.2	4.0	33	40	433	145	91	27	15	17	5.5
24	4.2	3.2	4.5	38	39	388	152	95	24	15	16	5.9
25	3.4	2.8	4.7	40	37	366	314	95	34	14	16	5.9
26	2.9	4.2	7.5	41	36	349	385	87	31	16	21	8.1
27	2.6	6.4	11	40	35	302	389	85	26	27	20	12
28	2.6	5.1	13	39	33	276	355	107	30	24	17	8.9
29	2.5	5.2	19	39	---	260	338	108	32	24	15	7.4
30	2.9	4.5	17	38	---	223	267	123	40	32	15	8.1
31	3.0	---	18	38	---	204	---	193	---	26	21	---
TOTAL	125.5	108.3	237.9	961	1547	6362	5798	4843	2331	685	567	341.0
MEAN	4.05	3.61	7.67	31.0	55.3	205	193	156	77.7	22.1	18.3	11.4
MAX	7.5	6.4	19	44	87	448	389	326	198	33	26	19
MIN	2.4	2.2	3.8	12	33	32	126	79	24	14	15	5.5
CFSM	.12	.11	.24	.95	1.69	6.27	5.90	4.77	2.38	.68	.56	.35
IN.	.14	.12	.27	1.09	1.76	7.24	6.60	5.51	2.65	.78	.65	.39

CAL YR 1982 TOTAL 14978.7 MEAN 41.0 MAX 265 MIN 2.2 CFSM 1.25 IN 17.04
WTR YR 1983 TOTAL 23906.7 MEAN 65.5 MAX 448 MIN 2.2 CFSM 2.00 IN 27.20

01049396 JOCK STREAM AT SOUTH MONMOUTH, ME

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

DRAINAGE AREA.--13.7 mi².

PERIOD OF RECORD.--October 1977 to September 1983 (Discontinued).

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

GAGE.--Water-stage recorder. Datum of gage is 169.00 ft, National Geodetic Vertical Datum of 1929.

REMARKS.--Records fair. No gage-height record June 17 to July 27. Several observations of water temperature and specific conductance were made during the year.

AVERAGE DISCHARGE.--6 years, 26.4 ft³/s (26.17 in/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 1090 ft³/s Apr. 25, 1983, gage height, 8.86 ft; maximum gage height, 9.06 ft Mar. 27, 1978 (ice jam); minimum discharge, 0.45 ft³/s Aug. 16-18, 27, 1980, gage height, 1.64 ft.

EXTREMES FOR CURRENT YEAR.--Peak discharges above base of 220 ft³/s and maximum (*):

Date	Time	Discharge (ft ³ /s)	Gage height (ft)	Date	Time	Discharge (ft ³ /s)	Gage height (ft)
Jan. 11	1400	268	5.46	Mar. 20	0200	730	8.42
Feb. 3	1800	383	6.36	Apr. 25	0700	* 1090	8.86
Mar. 12	2000	360	6.20	May 31	0400	228	4.62

Minimum discharge, 1.54 ft³/s Aug. 25, gage height, 1.74 ft.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	3.9	2.6	7.8	9.6	9.5	9.3	39	53	81	2.5	2.1	5.0
2	3.4	2.6	7.7	7.6	9.3	34	35	77	44	2.3	2.5	3.1
3	3.0	2.6	7.6	6.4	200	140	31	87	34	2.1	2.6	2.4
4	2.8	4.3	7.5	4.5	198	90	72	63	41	6.0	2.4	2.1
5	2.7	6.0	7.5	3.7	78	65	55	57	48	12	2.3	2.0
6	2.7	8.8	7.4	3.7	35	52	40	44	33	59	2.2	2.1
7	2.6	7.1	7.3	4.0	26	39	32	35	27	20	2.6	2.4
8	4.9	5.2	6.8	4.4	23	36	32	31	24	8.0	2.6	2.6
9	7.2	4.2	5.6	4.2	21	32	32	34	19	4.9	3.0	2.4
10	6.2	3.7	5.0	3.7	20	85	28	37	15	4.0	3.2	2.1
11	5.4	3.4	4.3	168	19	170	190	33	13	3.5	3.4	2.0
12	4.6	3.2	4.2	117	18	231	108	33	12	3.0	14	1.9
13	4.1	23	3.8	49	17	204	55	30	10	8.0	12	1.8
14	4.6	19	3.1	40	16	102	43	30	9.2	5.0	8.5	1.8
15	5.4	21	3.0	19	15	77	38	26	8.5	3.5	6.0	1.8
16	4.8	22	5.0	14	14	77	35	31	8.1	4.5	4.5	1.8
17	4.2	15	14	13	14	66	94	23	7.2	4.0	3.7	2.3
18	4.3	12	8.3	12	13	64	113	18	6.4	2.8	2.4	2.1
19	3.9	10	5.4	12	12	183	53	15	5.7	2.3	2.3	2.0
20	3.7	9.3	4.4	12	12	430	53	17	5.2	2.1	2.2	1.8
21	3.5	8.5	4.5	11	11	179	80	23	4.4	2.5	2.2	4.5
22	3.3	8.0	4.4	11	10	303	53	17	3.9	3.5	2.0	7.4
23	3.2	8.3	4.2	11	10	154	41	24	3.5	11	2.1	15
24	3.1	8.4	4.1	77	9.9	92	74	41	3.2	7.0	2.2	11
25	3.0	8.0	4.4	62	9.5	64	687	30	3.0	5.2	1.8	5.8
26	2.9	7.5	23	41	9.3	51	244	21	3.2	4.0	1.7	3.0
27	2.8	7.0	19	32	9.2	42	136	26	3.5	3.5	2.0	2.2
28	2.8	6.8	15	17	9.2	81	81	113	4.1	3.3	2.1	2.1
29	2.8	6.9	35	11	---	110	60	49	3.4	2.4	2.2	1.9
30	2.7	7.8	24	9.9	---	66	56	71	2.9	2.4	2.8	1.8
31	2.7	---	13	9.5	---	46	---	198	---	2.2	6.6	---
TOTAL	117.2	262.2	276.3	800.2	947.9	3374.3	2690	1387	486.4	206.5	112.2	100.2
MEAN	3.78	8.44	8.91	25.8	30.3	109	89.7	44.7	16.2	6.66	3.62	3.34
MAX	7.2	23	35	168	200	430	687	198	81	59	14	15
MIN	2.6	2.6	3.0	3.7	9.2	9.3	28	15	2.9	2.1	1.7	1.8
CFSM	.28	.64	.65	1.88	2.21	7.96	6.55	3.26	1.18	.49	.26	.24
IN.	.32	.71	.75	2.17	2.30	9.16	7.30	3.77	1.32	.56	.30	.27

CAL YR 1982	TOTAL	6965.0	MEAN	19.1	MAX	295	MIN	1.4	CFSM	1.39	IN	18.91
WTR YR 1983	TOTAL	10660.4	MEAN	29.2	MAX	687	MIN	1.7	CFSM	2.13	IN	28.94

KENNEBEC RIVER BASIN

01049400 COBBOSSEECONTEE LAKE AT EAST WINTHROP, ME

LOCATION.--Lat 44°18'57", long 69°53'48", Kennebec County, Hydrologic Unit 01030003, in Augusta Water District pumping station on Welch Point, on town road at East Winthrop.

DRAINAGE AREA.--131 mi².

PERIOD OF RECORD.--September 1975 to current year.

GAGE.--Water-stage recorder. Datum of gage is National Geodetic Vertical Datum of 1929.

REMARKS.--Records good.

EXTREMES FOR PERIOD OF RECORD.--Maximum daily gage height, 168.41 ft Apr. 30, May 1, 1979; minimum daily, 162.90 ft Nov. 5, 1975.

EXTREMES FOR CURRENT YEAR.--Maximum daily gage height, 168.15 ft Apr. 29; minimum daily, 164.25 ft Oct. 26.

ELEVATION (FEET NGVD). WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	165.73	164.27	164.83	164.98	166.15	166.52	167.45	168.01	167.58	167.01	167.14	167.22
2	165.65	164.28	164.84	164.99	166.18	166.60	167.25	167.95	167.55	167.02	167.17	167.23
3	165.58	164.29	164.86	164.99	166.22	166.80	167.05	167.81	167.53	167.06	167.17	167.22
4	165.50	164.32	164.87	164.99	166.42	166.90	167.00	167.75	167.45	167.07	167.16	167.22
5	165.43	164.39	164.87	164.99	166.50	166.82	166.90	167.65	167.37	167.10	167.16	167.21
6	165.36	164.43	164.88	164.99	166.53	166.85	166.88	167.53	167.32	167.16	167.15	167.21
7	165.28	164.43	164.89	165.00	166.55	166.79	166.87	167.55	167.20	167.16	167.15	167.20
8	165.24	164.43	164.89	165.02	166.62	166.79	166.86	167.59	167.17	167.18	167.14	167.18
9	165.19	164.43	164.88	165.02	166.64	166.60	166.83	167.45	167.15	167.18	167.17	167.16
10	165.12	164.43	164.88	165.02	166.66	166.62	166.83	167.40	167.15	167.15	167.15	167.14
11	165.05	164.43	164.88	165.14	166.69	166.65	166.85	167.39	167.14	167.16	167.14	167.13
12	164.98	164.45	164.86	165.36	166.72	166.74	166.96	167.45	167.16	167.15	167.22	167.09
13	164.91	164.51	164.84	165.43	166.76	166.84	167.04	167.49	167.17	167.18	167.26	167.04
14	164.86	164.58	164.84	165.46	166.77	166.90	167.06	167.53	167.22	167.18	167.27	166.99
15	164.81	164.63	164.84	165.49	166.77	166.85	167.05	167.59	167.26	167.19	167.27	166.94
16	164.73	164.70	164.85	165.55	166.75	166.83	166.98	167.61	167.24	167.20	167.27	166.87
17	164.66	164.72	164.88	165.60	166.78	166.80	166.95	167.60	167.24	167.20	167.26	166.79
18	164.57	164.73	164.88	165.63	166.84	166.90	166.99	167.56	167.24	167.19	167.25	166.73
19	164.50	164.74	164.87	165.65	166.86	166.88	167.04	167.50	167.23	167.18	167.26	166.66
20	164.43	164.75	164.87	165.67	166.86	166.94	166.97	167.52	167.20	167.17	167.25	166.59
21	164.36	164.76	164.90	165.69	166.86	167.45	166.95	167.41	167.17	167.16	167.22	166.54
22	164.29	164.77	164.90	165.71	166.85	167.67	166.89	167.38	167.15	167.21	167.20	166.54
23	164.27	164.78	164.90	165.74	166.88	167.93	166.75	167.32	167.12	167.23	167.20	166.50
24	164.26	164.80	164.90	165.82	166.86	167.84	166.78	167.27	167.07	167.21	167.18	166.39
25	164.26	164.81	164.92	165.89	166.84	168.12	166.86	167.26	167.05	167.19	167.17	166.28
26	164.25	164.81	164.92	165.93	166.80	168.08	167.62	167.24	167.04	167.18	167.16	166.16
27	164.26	164.81	164.93	165.97	166.73	167.96	167.99	167.23	167.05	167.17	167.15	166.03
28	164.26	164.80	164.94	166.00	166.62	167.80	168.11	167.27	167.02	167.16	167.15	165.91
29	164.26	164.81	164.96	166.03	---	167.72	168.15	167.35	167.01	167.16	167.13	165.79
30	164.26	164.82	164.97	166.06	---	167.64	168.13	167.36	167.02	167.15	167.13	165.68
31	164.26	---	164.98	166.10	---	167.56	---	167.45	---	167.14	167.19	---
MEAN	164.79	164.60	164.89	165.48	166.67	167.14	167.13	167.50	167.21	167.16	167.19	166.75
MAX	165.73	164.82	164.98	166.10	166.88	168.12	168.15	168.01	167.58	167.23	167.27	167.23
MIN	164.25	164.27	164.83	164.98	166.15	166.58	166.75	167.23	167.01	167.01	167.13	165.68
CAL YR 1982	MEAN 165.83		MAX 167.53	MIN 164.00								
WTR YR 1983	MEAN 166.37		MAX 168.15	MIN 164.25								

01049500 COBBOSSEECONTEE STREAM AT GARDINER, ME

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

DRAINAGE AREA.--217 mi².

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 National Geodetic Vertical Datum of 1929.

June 16, 1890, to Sept. 30, 1964, nonrecording gage at site 0.8 mi upstream at different datum.

REMARKS. Records good except those below 25 ft³/s, which are fair. Flow regulated by Cobbosseecontee Lake (station 01049400) and several other lakes upstream.

AVERAGE DISCHARGE.--81 years (water years 1891-64, 1977-83), 343 ft³/s.

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

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 3,510 ft³/s Apr. 25, gage height, 9.08 ft; minimum daily, 0.51 ft³/s Sept. 1.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	232	127	115	122	117	285	1500	1910	1690	103	14	.51
2	257	127	103	123	110	404	1480	1800	1590	94	16	35
3	275	130	112	123	223	801	1300	1810	1480	96	16	116
4	295	130	113	121	215	1100	1170	1800	1410	96	10	114
5	305	137	114	118	383	1120	947	1740	1170	94	14	114
6	294	132	115	122	545	1050	833	1240	1050	86	15	114
7	293	132	117	123	573	1000	775	942	1050	99	16	114
8	300	130	122	124	519	897	780	957	967	99	16	112
9	304	126	123	123	345	822	793	724	745	99	11	112
10	310	120	108	122	254	931	771	691	543	99	13	110
11	323	115	113	138	264	1290	927	471	402	99	15	114
12	334	117	122	128	262	1620	1200	439	258	99	9.3	122
13	331	122	102	119	259	2050	1270	712	213	25	18	76
14	331	113	115	173	259	1800	1240	750	208	3.8	18	122
15	333	115	117	203	254	1700	1160	687	208	13	18	72
16	330	112	119	206	249	1600	1090	482	208	4.8	18	169
17	332	111	118	207	278	1540	1350	460	213	1.1	18	232
18	314	106	117	206	304	1410	1750	626	211	13	17	246
19	307	102	119	207	289	1590	1560	613	211	12	17	229
20	305	102	117	207	285	2480	1460	605	205	12	17	218
21	299	104	117	207	279	2360	1460	622	192	13	17	216
22	282	106	115	210	281	2430	1370	617	186	18	25	240
23	276	106	117	211	280	2740	977	617	189	12	.62	211
24	242	109	127	217	281	2660	547	683	198	15	13	125
25	201	112	126	211	276	2280	2900	708	192	2.5	4.6	69
26	220	111	128	204	277	2080	3180	657	189	2.5	7.9	189
27	225	113	123	205	281	1970	2840	609	180	15	4.6	213
28	226	113	127	156	282	1940	2500	675	175	1.0	17	238
29	157	110	126	115	---	2000	2350	771	172	11	9.3	273
30	129	101	125	115	---	1840	2090	918	172	14	11	320
31	128	---	123	115	---	1560	---	1520	---	14	5.3	---
TOTAL	8490	3491	3655	4981	8224	49354	43570	27856	15877	1365.7	421.62	4635.51
MEAN	274	116	118	161	294	1592	1452	899	529	44.1	13.6	155
MAX	334	137	128	217	573	2740	3180	1910	1690	103	25	320
MIN	128	101	102	115	110	285	547	439	172	1.0	.62	.51

CAL YR 1982 TOTAL 105511.00 MEAN 289 MAX 1600 MIN 23
WTR YR 1983 TOTAL 171920.83 MEAN 471 MAX 3180 MIN .51

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 downstream from mouth of Chase Meadow Stream and 600 ft downstream from State Route 226 bridge, 1.5 mi northeast of Chelsea.

DRAINAGE AREA.--23.7 mi².

PERIOD OF RECORD.--October 1981 to current year.

GAGE.--Water-stage recorder. Datum of gage is 131.28 ft revised, 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 850 ft³/s Apr. 25, 1983, gage height, 6.92 ft; minimum discharge 1.5 ft³/s Sept. 22, 1983, gage height, 2.80 ft.

EXTREMES FOR CURRENT YEAR.--Peak discharges above base of 220 ft³/s and maximum (*):

Date	Time	Discharge (ft ³ /s)	Gage height (ft)	Date	Time	Discharge (ft ³ /s)	Gage height (ft)
Mar. 12	1945	258	4.71	Mar. 22	--	400	ice jam
Mar. 20	--	290	ice jam	Apr. 25	1915	* 850	6.92

Minimum discharge, 1.5 ft³/s Sept. 22, gage height, 2.80 ft.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	7.0	5.2	28	28	32	27	100	184	113	3.8	2.8	5.6
2	5.2	5.6	27	27	31	54	88	175	88	4.1	3.8	5.6
3	4.8	5.2	26	28	112	102	81	184	77	5.2	3.8	5.2
4	4.8	5.6	25	23	128	95	98	167	79	4.8	3.6	4.8
5	4.5	24	25	21	82	82	110	163	81	6.0	10	4.8
6	4.8	39	24	20	67	76	93	145	72	9.7	21	5.2
7	4.5	35	23	20	61	72	82	128	71	8.6	5.6	4.5
8	5.6	30	22	20	60	67	78	113	67	6.5	4.1	3.2
9	5.6	26	21	21	57	62	77	105	61	6.0	4.5	2.8
10	4.8	23	20	19	53	81	67	90	54	5.6	3.8	2.5
11	4.1	20	22	68	49	172	181	83	50	5.2	3.6	2.2
12	4.1	19	19	77	46	214	170	78	45	4.8	11	2.0
13	4.1	45	18	66	45	242	124	76	43	9.7	9.1	2.0
14	6.5	60	26	55	43	207	98	72	40	8.0	7.5	1.8
15	5.6	60	14	49	40	172	85	68	22	7.0	6.5	1.8
16	5.2	61	20	48	38	167	79	71	12	7.0	6.0	1.7
17	6.0	53	33	46	36	148	252	66	11	6.5	5.6	1.7
18	8.6	46	26	44	36	130	309	57	11	3.6	6.5	1.7
19	8.0	43	22	42	36	145	231	43	10	3.2	11	1.7
20	7.0	39	21	40	35	240	193	46	10	3.2	5.2	1.7
21	8.6	37	21	39	33	210	172	58	8.6	2.9	4.1	1.6
22	7.0	37	20	39	33	325	150	50	8.0	9.1	4.5	5.6
23	5.6	35	19	38	32	260	126	54	7.0	8.0	5.2	2.5
24	4.8	33	19	47	32	215	175	63	6.5	6.5	4.8	3.4
25	6.0	31	20	49	31	175	721	60	5.2	6.5	5.6	2.6
26	8.6	30	25	46	30	156	630	53	4.8	5.6	5.2	2.1
27	5.6	28	28	42	28	128	393	54	4.8	4.8	4.8	2.0
28	4.8	26	31	37	28	137	285	88	5.2	3.8	5.2	2.1
29	4.8	27	42	34	---	165	236	73	6.5	3.8	5.6	1.7
30	4.5	28	39	32	---	130	210	78	5.6	4.1	5.6	1.7
31	4.8	---	32	31	---	114	---	148	---	3.4	6.0	---
TOTAL	175.9	956.6	758	1196	1334	4578	5694	2893	1079.2	177.0	191.6	87.8
MEAN	5.67	31.9	24.5	38.6	47.6	148	190	93.3	36.0	5.71	6.18	2.93
MAX	8.6	61	42	77	128	325	721	184	113	9.7	21	5.6
MTN	4.1	5.2	14	19	28	27	67	43	4.8	2.9	2.8	1.6
CFSM	.24	1.35	1.03	1.63	2.01	6.25	8.02	3.94	1.52	.24	.26	.12
IN.	.28	1.50	1.19	1.88	2.09	7.19	8.94	4.54	1.69	.28	.30	.14
CAL YR 1982	TOTAL	12433.4	MEAN	34.1	MAX	299	MIN	4.1	CFSM	1.44	IN	19.51
WTR YR 1983	TOTAL	19121.1	MEAN	52.4	MAX	721	MIN	1.6	CFSM	2.21	IN	30.01

Reservoirs in Kennebec River Basin

01038500 BRASSUA LAKE on Moose River, 4 mi southwest of Rockwood, Maine, completed in 1928 for power, has usable capacity of 8,560,000,000 ft³ between elevations 1,043.0 ft and 1,073.0 ft. 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 between gage heights 1.0 ft and 8.0 ft. Gage-height record furnished by Kennebec Water Power Co.

01040500 MOOSEHEAD LAKE on Kennebec River (see p. 63).

01041500 INDIAN POND on Kennebec River, in T. 1, R. 6, Maine, 13 mi downstream from east outlet of Moosehead Lake, completed in 1954 for power, has capacity of 830,000,000 ft³ in normal operating range between elevations 950.0 ft and 955.0 ft; total capacity of pond, 3,150,000,000 ft³ below elevation 955.0 ft. Elevation record furnished by Central Maine Power Co.

01042000 MOXIE POND on Moxie Stream, 4.8 mi east of The Forks, Maine, used for power, has usable capacity of 640,000,000 ft³ between gage heights 6.0 ft and 14.0 ft. Gage-height record furnished by Kennebec Water Power Co.

01043000 FLAGSTAFF LAKE on Dead River, in T. 3, R. 4, Maine, 0.8 mi upstream from Black Brook, completed in 1950 for power, has usable capacity of 12,050,000,000 ft³ between elevations 1,110.0 ft and 1,146.0 ft. Elevation record furnished by Kennebec Water Power Co.

01045500 WYMAN POND on Kennebec River, 1.5 mi upstream from Bingham, Maine, completed in 1930 for power, has capacity of 2,630,000,000 ft³ in normal operating range between elevations 465.0 ft and 485.0 ft; total capacity of pond, 9,080,000,000 ft³ below elevation 485.0 ft. Elevation record furnished by Central Maine Power Co.

MONTHEND CONTENTS, IN MILLIONS OF CUBIC FEET, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983

DATE	BRASSUA LAKE	FIRST ROACH POND	INDIAN POND	MOXIE POND	FLAGSTAFF LAKE	WYMAN POND
SEPT. 30, 1982	8938	570	3096	478	5304	9020
OCT. 31	8854	79	3240	442	2339	8791
NOV. 30	7469	0	3024	359	2988	8730
DEC. 31	2675	0	2936	0	2339	8920
JAN. 31, 1983	2100	0	2936	0	3090	8620
FEB. 29	2561	0	2988	0	4148	8480
MAR. 31	4069	664	3132	505	6310	8930
APR. 30	8812	952	3312	703	12543	9140
MAY 31	8812	911	3312	640	12460	9110
JUNE 30	8075	924	3186	640	12050	9020
JULY 31	4799	856	3294	532	11492	8690
AUG. 31	230	774	3186	514	10284	8980
SEPT. 30	46	436	2902	487	7200	9050

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 upstream from mouth and 1.6 mi north of Wentworth Location.

DRAINAGE AREA.--152 mi².

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, 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.--42 years, 349 ft³/s (31.18 in/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 8.630 ft³/s June 16, 1943, gage height, 10.66 ft, from rating curve extended above 4,300 ft³/s; maximum gage height, 12.23 ft Feb. 21, 1981, (ice jam); minimum discharge, 6.8 ft³/s Aug. 27, 28, 1949, Sept. 1, 1952, gage height, 0.81 ft.

EXTREMES FOR CURRENT YEAR.--Peak discharges above base of 3,600 ft³/s and maximum (*):

Date	Time	Discharge (ft ³ /s)	Gage height (ft)	Date	Time	Discharge (ft ³ /s)	Gage height (ft)
Apr. 29	2100	3810	7.55	May 03	0800	* 4890	8.34

Minimum discharge, 26 ft³/s July 19, 20, gage height, 1.20 ft.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	68	58	756	135	115	100	166	2650	852	57	50	273
2	70	166	774	120	110	110	167	2940	585	56	58	138
3	76	274	530	110	105	370	176	3950	451	67	73	93
4	64	166	554	100	575	680	166	3520	401	62	61	72
5	56	957	471	97	540	300	176	2250	430	56	44	62
6	51	1170	799	94	720	200	228	1240	357	165	48	54
7	47	460	436	92	280	170	268	888	550	115	153	49
8	126	303	290	89	250	161	514	743	431	78	146	51
9	218	236	170	87	225	142	741	1190	316	63	743	48
10	126	193	105	85	205	132	851	1070	264	56	259	44
11	93	163	100	320	190	124	550	852	229	49	129	52
12	78	163	95	1180	180	130	462	722	199	47	464	59
13	70	610	90	541	165	130	417	597	180	45	403	48
14	73	592	87	240	155	130	606	528	443	42	178	40
15	78	328	85	215	145	125	755	509	225	38	112	36
16	79	250	215	195	140	124	545	744	268	36	85	34
17	90	205	815	180	135	142	565	554	426	33	70	37
18	99	182	790	165	125	157	502	421	443	30	68	58
19	91	162	240	155	120	164	389	357	262	28	75	54
20	83	151	200	140	115	500	470	374	184	43	63	44
21	80	161	175	130	115	765	542	415	145	62	52	38
22	83	236	155	120	110	590	446	345	122	136	46	339
23	73	467	135	115	110	465	574	459	104	187	49	256
24	67	567	125	150	105	350	940	610	90	91	48	116
25	63	594	115	320	105	320	2460	547	86	111	42	82
26	61	363	445	235	100	290	2950	409	87	77	38	67
27	59	263	592	160	100	240	2250	371	80	57	79	61
28	57	189	360	150	98	200	2430	686	87	44	92	57
29	56	251	341	135	---	199	3110	567	72	38	61	52
30	54	438	289	130	---	180	2980	688	63	42	158	48
31	53	---	160	125	---	200	---	976	---	57	397	---
TOTAL	2442	10318	8894	6110	5038	7935	27396	32172	8432	2068	4344	2462
MEAN	78.8	344	287	197	180	256	913	1038	281	66.7	140	82.1
MAX	218	1170	815	1180	575	765	3110	3950	852	187	743	339
MIN	47	58	85	85	98	100	166	345	63	28	38	34
CFSM	.52	2.26	1.89	1.30	1.18	1.68	6.01	6.83	1.85	.44	.92	.54
IN.	.60	2.53	2.18	1.50	1.23	1.94	6.70	7.87	2.06	.51	1.06	.60

CAL YR 1982	TOTAL	128350	MEAN	352	MAX	4320	MIN	27	CFSM	2.32	IN	31.41
WTR YR 1983	TOTAL	117611	MEAN	322	MAX	3950	MIN	28	CFSM	2.12	IN	28.78

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 downstream from Errol Dam, 0.4 mi northeast of Errol, and 0.6 mi upstream from Clear Stream.

DRAINAGE AREA.--1,046 mi².

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, National Geodetic Vertical Datum of 1929. Prior to Dec. 8, 1943, nonrecording gage at Errol Dam at datum 5.0 ft 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, with final regulation at Errol Dam. Several observations of water temperature and specific conductance were made during the year.

AVERAGE DISCHARGE.--78 years, 1,904 ft³/s.

EXTREMES FOR PERIOD OF RECORD.--Maximum daily discharge, 16,100 ft³/s May 22, 1969; minimum daily, leakage only at various times when gates in dam were closed.

EXTREMES FOR CURRENT YEAR.--Maximum daily discharge, 6,810 ft³/s May 7; minimum daily, 837 ft³/s Apr. 10.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1680	1580	1350	1520	1650	1680	1680	6200	4710	1730	1720	1670
2	1650	1580	1270	1580	1660	1680	1680	5990	4650	1650	1690	1750
3	1660	1580	1200	1630	1520	1680	1670	5010	4300	1640	1700	1760
4	1700	1590	1150	1640	1130	1680	1580	5590	4280	1640	1730	1760
5	1710	1310	1150	1660	1360	1680	1570	6000	3920	1630	1710	1760
6	1600	944	1290	1710	1700	1680	1550	6500	2640	1430	1700	1780
7	1750	1220	1310	1690	1630	1700	1320	6810	1940	1480	1710	1780
8	1670	1340	1330	1670	1630	1680	1100	6650	1930	1660	1690	1760
9	1480	1400	1450	1720	1630	1650	888	6510	1950	1660	1420	1780
10	1470	1530	1520	1790	1680	1660	837	6360	1950	1650	1400	1790
11	1610	1550	1520	1170	1840	1660	1240	4910	1950	1670	1690	1790
12	1720	1490	1590	854	1680	1660	1140	2890	1990	1670	1240	1800
13	1670	1370	1710	1350	1620	1660	1040	1480	1990	1670	930	1790
14	1650	1230	1740	1670	1680	1650	952	1480	1990	1670	1510	1790
15	1630	1370	1610	1640	1680	1650	1250	1480	1990	1710	1610	1810
16	1620	1370	1490	1570	1690	1650	1490	1490	1990	1710	1650	1830
17	1610	1400	1350	1680	1700	1650	1480	1550	1990	1710	1690	1830
18	1620	1460	1490	1790	1690	1650	1460	1670	1990	1740	1710	1830
19	1600	1450	1560	1790	1650	1610	1480	1820	1990	1730	1710	1830
20	1620	1440	1530	1790	1650	1500	1470	1910	2000	1730	1680	1820
21	1610	1450	1510	1790	1650	1510	1420	1910	1990	1720	1680	1810
22	1610	1490	1530	1790	1650	1270	1460	1920	2080	1690	1730	1470
23	1620	1240	1520	1790	1650	1170	1450	1930	1830	1670	1730	1830
24	1640	1090	1500	1650	1660	1520	1450	1940	1990	1670	1770	1790
25	1690	1090	1520	1600	1660	1490	1490	1960	2050	1670	1770	1780
26	1830	1090	1460	1610	1660	1510	2170	1970	2040	1680	1770	1810
27	1700	1190	1440	1620	1660	1590	3090	2060	2020	1700	1780	1800
28	1670	1430	1390	1630	1680	1660	3510	2940	1990	1700	1790	1820
29	1650	1470	1440	1630	---	1660	4000	2940	1960	1700	1780	1820
30	1560	1390	1470	1640	---	1650	5690	3010	1940	1700	1760	1800
31	1560	---	1480	1650	---	1680	---	3870	---	1710	1660	---
TOTAL	50860	41134	44870	50314	45740	49820	52607	108750	72030	51790	51110	53440
MEAN	1641	1371	1447	1623	1634	1607	1754	3508	2401	1671	1649	1781
MAX	1830	1590	1740	1790	1840	1700	5690	6810	4710	1740	1790	1830
MIN	1470	944	1150	854	1130	1170	837	1480	1830	1430	930	1470
CAL YR 1982 TOTAL	765794			MEAN 2098	MAX 6250	MIN 944						
WTR YR 1983 TOTAL	672465			MEAN 1842	MAX 6810	MIN 837						

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 downstream from Dead River, and 4.0 mi upstream from Gorham.

DRAINAGE AREA.--1,361 mi².

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 National Geodetic Vertical Datum of 1929. Prior to Sept. 30, 1922, nonrecording gage showing head and tailwater elevations at site 3 mi 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, with final regulation at Errol Dam 35 mi upstream. Diurnal fluctuation caused by powerplant 0.8 mi upstream. Several observations of water temperature and specific conductance were made during the year.

AVERAGE DISCHARGE.--70 years, 2,465 ft³/s.

EXTREMES FOR PERIOD OF RECORD.--Maximum daily discharge, 20,000 ft³/s June 18, 1917, Apr. 30, 1923; minimum daily, 795 ft³/s Mar. 15, 1948.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 10,600 ft³/s May 3, gage height, 7.74 ft; minimum daily, 1,640 ft³/s Dec. 12, Aug. 14.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1870	1770	1930	1850	1960	1950	2190	9180	5740	2040	1910	1860
2	1850	1890	1870	1890	1940	2140	2230	9280	5940	1820	2010	1810
3	1800	2030	1850	1910	2250	2330	2280	10200	5350	1920	1940	1860
4	1850	1930	1840	1830	2530	2390	2190	8910	5000	1750	1900	1860
5	1870	2760	1770	1820	1790	2280	2130	8760	4950	1900	1880	1840
6	1850	3180	1740	1970	2090	2200	2300	8050	4230	2120	1870	1840
7	1760	2040	1830	1980	2120	2160	2530	8230	2840	1820	1890	1850
8	2080	1960	1770	1930	2030	2130	2540	8030	2680	1860	1880	1840
9	2040	1860	1750	1900	2020	2060	2760	8250	2510	1870	2380	1820
10	1770	1850	1770	1900	1920	2060	2650	8420	2440	1840	1860	1850
11	1780	1910	1810	3080	2040	2120	2440	7490	2380	1820	1800	1850
12	1890	1870	1640	2700	2150	2250	2600	5810	2340	1830	2740	1870
13	1920	2120	1880	1970	1940	2280	2530	3230	2300	1850	2060	1860
14	1880	2340	1970	2090	1960	2240	2770	2620	2280	1770	1640	1860
15	1860	1950	2070	2140	2010	2230	2960	2510	2310	1830	1910	1850
16	1870	1910	1980	1990	1990	2270	3160	2870	2360	1850	1830	1860
17	1860	1800	2340	1970	1990	2380	3370	2730	3070	1830	1860	1900
18	1830	1820	1990	2000	2010	2390	3370	2540	3130	1850	1860	1900
19	1830	1810	2020	2080	1950	2590	2950	2460	2990	1850	1850	1900
20	1790	1780	1990	2110	1920	3450	2930	2620	2860	1870	1830	1910
21	1830	1780	1900	2130	1930	3520	3100	2710	2340	1890	1770	1860
22	1810	1870	1870	2120	1940	3370	2790	2630	2260	1920	1800	2460
23	1800	2130	1870	2040	1930	2600	2890	2690	2390	1880	1830	2060
24	1800	2030	1810	2110	1940	2380	3390	2950	1940	1850	1830	2030
25	1820	1950	1830	2140	1940	2330	5890	2840	2180	1890	1870	1960
26	1880	1770	2020	2110	1930	2130	6210	2710	2220	1840	1850	1930
27	2000	1700	2030	2010	1910	2140	5920	2660	2210	1820	1890	1920
28	1860	1660	1940	1990	1940	2200	6260	3470	2170	1820	1890	1920
29	1860	1960	1860	1970	---	2240	6970	3910	2140	1820	1870	1920
30	1800	1950	1930	1960	---	2160	8110	3820	2110	1830	1870	1920
31	1720	---	1830	1970	---	2120	---	4770	---	1810	1920	---
TOTAL	57430	59380	58650	63660	56070	73090	104410	157350	89660	57660	59290	57170
MEAN	1853	1979	1892	2054	2003	2358	3480	5076	2989	1860	1913	1906
MAX	2080	3180	2340	3080	2530	3520	8110	10200	5940	2120	2740	2460
MIN	1720	1660	1640	1820	1790	1950	2130	2460	1940	1750	1640	1810
CAL YR 1982 TOTAL	977580			2678	11500	1640						
WTR YR 1983 TOTAL	893820			2449	10200	1640						

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 upstream from highway bridge on U.S. Route 2, 2,000 ft upstream from mouth, and 0.4 mi west of Gilead.

DRAINAGE AREA.--69.6 mi².

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--Discharge measurement water year 1959. July 1964 to current year.

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

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

REMARKS.--Records good except those for winter period, and period of no gage-height record, Sept. 15-30, which are fair.

AVERAGE DISCHARGE.--19 years, 180 ft³/s (35.12 in/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 12,500 ft³/s Nov. 3, 1966, gage height, 12.49 ft; minimum, 7.6 ft³/s July 16, 1971, gage height, 1.89 ft.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood of Oct. 24, 1959, reached a stage of 15.6 ft, from floodmarks; discharge, 18,100 ft³/s from slope-area measurement of peak flow.

EXTREMES FOR CURRENT YEAR.--Peak discharges above base of 2,500 ft³/s, and maximum (*):

Date	Time	Discharge (ft ³ /s)	Gage height (ft)	Date	Time	Discharge (ft ³ /s)	Gage height (ft)
Nov. 05	1030	3070	7.07	Mar. 19	2045	5020	8.50
Jan. 11	0815	* 6410	9.15	Apr. 25	0100	3730	7.72
Feb. 03	1115	5730	8.82	May 03	0600	2940	6.95

Minimum discharge not determined, occurred during period of no gage-height record; minimum daily, 9.4 ft³/s Sept. 17.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	44	32	109	92	105	43	134	1360	604	37	30	93
2	39	58	102	84	96	250	143	1370	328	118	77	46
3	35	67	98	77	1860	539	152	1920	245	118	41	30
4	31	52	99	73	1210	170	155	1180	329	61	27	24
5	29	1160	92	68	255	110	221	664	354	84	23	21
6	27	351	100	65	145	105	299	489	247	218	21	19
7	26	179	106	62	115	130	312	393	210	96	33	17
8	246	122	89	59	105	115	515	415	176	66	31	15
9	279	101	76	58	100	108	672	613	143	51	124	13
10	206	89	58	56	94	174	511	418	125	43	55	13
11	102	81	53	2120	87	284	427	351	112	40	36	13
12	78	78	49	511	80	646	429	327	101	39	349	13
13	66	665	47	200	75	394	375	303	95	38	179	12
14	63	296	45	125	71	233	440	312	125	33	74	12
15	59	194	43	110	67	217	397	298	198	28	48	11
16	68	134	470	98	64	232	343	338	306	27	37	10
17	57	112	595	89	61	244	559	236	163	24	30	9.4
18	50	102	155	82	59	211	478	201	135	22	27	25
19	47	96	115	76	57	1760	342	179	125	22	25	17
20	45	91	105	71	55	2030	414	215	96	22	22	13
21	45	97	96	68	53	874	362	234	83	24	18	11
22	44	162	91	63	51	990	313	202	73	58	17	350
23	41	249	87	60	49	410	389	337	64	54	19	100
24	39	207	84	550	48	230	997	395	55	33	17	35
25	39	143	80	710	47	195	2750	280	56	42	16	28
26	37	111	285	475	46	155	1400	219	56	33	15	24
27	36	95	215	225	45	145	962	291	50	24	18	20
28	35	110	155	180	44	140	1180	612	51	21	20	17
29	35	136	125	155	---	130	1590	308	45	20	17	15
30	34	135	110	135	---	125	1460	336	40	21	17	14
31	32	---	100	115	---	115	---	655	---	20	136	---
TOTAL	2014	5505	4034	6912	5144	11504	18721	15451	4790	1537	1599	1040.4
MEAN	65.0	184	130	223	184	371	624	498	160	49.6	51.6	34.7
MAX	279	1160	595	2120	1860	2030	2750	1920	604	218	349	350
MIN	26	32	43	56	44	43	134	179	40	20	15	9.4
CFSM	.93	2.64	1.87	3.20	2.64	5.33	8.97	7.16	2.30	.71	.74	.50
IN.	1.08	2.94	2.16	3.69	2.75	6.15	10.01	8.26	2.56	.82	.85	.56

CAL YR 1982 TOTAL 60577.0 MEAN 166 MAX 2770 MIN 16 CFSM 2.39 IN 32.38
WTR YR 1983 TOTAL 78251.4 MEAN 214 MAX 2750 MIN 9.4 CFSM 3.08 IN 41.82

ANDROSCOGGIN RIVER BASIN

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 September 1983.

INSTRUMENTATION.--Temperature recorder July 1964 to September 1983.

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 23.0°C June 13; Minimum recorded 0.0°C on many days during winter period.

WATER QUALITY DATA, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983

DATE	TIME	STREAM- FLOW, INSTAN- TANEOUS (CFS)	SPE- CIFIC CON- DUCT- ANCE (UMHOS)	PH (UNITS)	TEMPER- ATURE, AIR (DEG C)	TEMPER- ATURE (DEG C)	TUR- BID- ITY (NTU)	BARO- METRIC PRES- SURE (MM OF HG)	OXYGEN, DIS- SOLVED (MG/L)	OXYGEN, DIS- SOLVED (PER- CENT SATUR- ATION)	COLI- FORM, FECAL, 0.7 UM-MF (COLS./ 100 ML)	STREP- TOCOCCI KF AGAR (COLS. PER 100 ML)
NOV 02...	1130	47	18	6.6	11.5	8.0	1.0	752	11.2	96	K4	92
MAR 24...	1100	230	18	6.3	5.5	0.0	1.0	765	13.9	95	<1	<1
MAY 17...	1130	230	17	6.0	15.0	7.5	<1.0	755	11.8	99	<1	K7
AUG 30...	1400	17	22	7.2	20.5	22.5	<1.0	753	8.5	99	K5	>1000

DATE	HARD- NESS (MG/L AS CACO3)	CALCIUM DIS- SOLVED (MG/L AS CA)	MAGNE- SIUM, DIS- SOLVED (MG/L AS MG)	SODIUM, DIS- SOLVED (MG/L AS NA)	POTAS- SIUM, DIS- SOLVED (MG/L AS K)	ALKA- LINITY 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)	SOLIDS, RESIDUE AT 180 DEG. C DIS- SOLVED (MG/L)	SOLIDS, SUM OF CONSTI- TUENTS, DIS- SOLVED (MG/L)
NOV 02...	7	1.8	0.6	1.5	0.2	5.0	5.1	1.1	<0.1	8.4	29	22
MAR 24...	5	1.3	0.4	0.8	0.3	3.0	5.7	0.9	<0.1	4.6	32	16
MAY 17...	4	1.1	0.4	0.7	0.3	3.0	3.0	0.9	<0.1	4.4	23	13
AUG 30...	7	1.8	0.6	1.7	0.5	7.0	5.4	0.7	0.1	8.0	19	23

01054200 WILD RIVER AT GILEAD, ME--Continued

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983

DATE	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, DIS- SOLVED (MG/L AS P)	PHOS- PHORUS, ORTHO, DIS- SOLVED (MG/L AS P)	ALUM- INUM, DIS- SOLVED (UG/L AS AL)	ARSENIC DIS- SOLVED (UG/L AS AS)	BARIUM, DIS- SOLVED (UG/L AS BA)
NOV 02...	<0.1	0.02	0.03	0.7	0.02	0.01	<0.01	60	1	17.00
MAR 24...	<0.1	0.05	0.06	<0.1	<0.01	<0.01	<0.01	---	---	---
MAY 17...	<0.1	<0.01	0.01	<0.1	<0.01	<0.01	<0.01	100	<1	10.00
AUG 30...	0.14	<0.01	0.01	1.90	0.01	0.01	<0.01	---	---	---

DATE	BERYL- LIUM, DIS- SOLVED (UG/L AS BE)	CADMIUM DIS- SOLVED (UG/L AS CD)	CHRO- MIUM, DIS- SOLVED (UG/L AS CR)	COBALT, DIS- SOLVED (UG/L AS CO)	COPPER, DIS- SOLVED (UG/L AS CU)	IRON, DIS- SOLVED (UG/L AS FE)	LEAD, DIS- SOLVED (UG/L AS PB)	LITHIUM DIS- SOLVED (UG/L AS LI)	MANGA- NESE, DIS- SOLVED (UG/L AS MN)	MERCURY DIS- SOLVED (UG/L AS HG)
NOV 02...	1.20	<1	<1	<3.00	3	70	1	<4.00	6	0.1
MAR 24...	---	---	---	---	---	---	---	---	---	---
MAY 17...	<0.50	<1	1	<3.00	1	20	3	<4.00	3	<0.1
AUG 30...	---	---	---	---	---	---	---	---	---	---

DATE	MOLYB- DENUM, DIS- SOLVED (UG/L AS MO)	NICKEL, DIS- SOLVED (UG/L AS NI)	SELE- NIUM, DIS- SOLVED (UG/L AS SE)	SILVER, DIS- SOLVED (UG/L AS AG)	STRON- TIUM, DIS- SOLVED (UG/L AS SR)	VANA- DIUM, DIS- SOLVED (UG/L AS V)	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
NOV 02...	<10	1	<1	---	20	<6.0	6.00	2	0.25	100
MAR 24...	---	---	---	---	---	---	---	1	0.62	67
MAY 17...	10	2	<1	<1	10	<6.0	9.00	1	0.62	100
AUG 30...	---	---	---	---	---	---	---	1	0.05	100

RADIOCHEMICAL ANALYSES, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983

DATE	GROSS ALPHA, DIS- SOLVED (UG/L AS U-NAT)	GROSS ALPHA, SUSP. TOTAL (UG/L AS U-NAT)	GROSS ALPHA, DIS- SOLVED (PCI/L AS U-NAT)	GROSS BETA, DIS- SOLVED (PCI/L AS CS-137)	GROSS BETA, SUSP. TOTAL (PCI/L AS CS-137)	GROSS BETA, DIS- SOLVED (PCI/L AS SR/ YT-90)	GROSS BETA, SUSP. TOTAL (PCI/L AS SR/ YT-90)	RADIUM 226, DIS- SOLVED (PCI/L METHOD (PCI/L)	URANIUM DIS- SOLVED, EXTRAC- TION (UG/L)
MAY 17...	0.5	<0.4	0.3	0.7	<0.5	0.6	<0.4	0.08	0.18

01054200 WILD RIVER AT GILEAD, ME--Continued

TEMPERATURE, WATER (DEG. C), WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983

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

ANDROSCOGGIN RIVER BASIN

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 upstream from Swift River.

DRAINAGE AREA.--2,069 mi².

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, National Geodetic Vertical Datum of 1929. Aug. 1, 1937, to Nov. 19, 1979, nonrecording gages in pond above dam in tailrace of upper plant. Prior to Aug. 1, 1937, nonrecording gages in pond and tailrace of middle plant.

REMARKS.--Records good. Several observations of water temperature and specific conductance were made during the year. Prior to Nov. 19, 1979, discharge computed from flow over upper dam and through wheels. Flow regulated by Rangeley, Mooselookmeguntic, Richardson, Umbagog, and Azischohos Lakes (Reservoirs in Androscoggin River Basin), with final regulation at Errol Dam about 84 mi upstream.

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

AVERAGE DISCHARGE.--91 years, 3,716 ft³/s.

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

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 24,400 ft³/s Apr. 25, gage height, 11.96 ft; minimum daily, 1,830 ft³/s Jan. 5.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	2180	2100	3170	2510	2370	2680	3620	16300	9540	2300	2120	2920
2	2130	2220	3050	2460	2300	2940	3670	16800	8830	2250	2550	2400
3	2180	2610	2920	2330	3450	4920	3900	20300	7700	2620	2490	2140
4	2230	2680	2880	1890	7610	4870	3920	19300	6930	2270	2270	2100
5	2220	4090	2820	1830	5920	4230	3980	15300	7380	2150	2210	2100
6	2230	7730	2680	2220	4210	3760	4560	12500	6600	4200	2190	2060
7	2190	4700	2810	2430	3660	3580	5160	11100	5410	4060	2250	2060
8	2530	3670	2820	2410	2980	3520	5390	10800	4480	2830	2230	2010
9	3540	2700	2650	2170	3120	3370	6950	11200	4150	2680	2820	1980
10	3170	2610	1980	2080	3140	3300	6760	12100	3710	2490	3060	1970
11	2800	2570	2260	5730	2860	4140	5930	10900	3580	2340	2190	2020
12	2480	2560	2250	8180	3010	5070	6770	9320	3390	2360	3540	2020
13	2540	3670	1920	5670	3130	5580	6420	7320	3300	2170	5130	2040
14	2540	5590	2120	3570	2960	5200	6640	5390	3330	2150	2950	2010
15	2470	4150	2640	3030	2900	4950	6620	4940	3430	2120	2450	2000
16	2490	3360	2880	2900	2900	5150	6020	5330	4310	2180	2430	2020
17	2470	3130	4190	2720	2890	5160	6800	5240	4190	2130	2220	2020
18	2370	2820	3490	2540	2840	4930	7910	4530	4360	2060	2240	2140
19	2330	2760	2770	2290	2820	5920	6660	4170	4430	2050	2210	2140
20	2260	2640	2760	2080	2750	19100	6330	4070	4280	2110	2230	2130
21	2250	2540	2860	2450	2730	13800	6810	4220	3760	2150	2080	2100
22	2070	2950	2470	2590	2740	14600	5980	4180	3160	2390	2040	2940
23	2130	3660	2270	2590	2760	10300	5660	4430	2730	2430	2090	4240
24	2170	4170	2440	2780	2690	6200	6470	5980	2830	2240	2100	2720
25	2620	3660	2430	3610	2710	5060	20200	5430	2420	2240	2060	2490
26	2080	3270	2780	3310	2680	4530	21100	4780	2690	2290	2120	2330
27	2110	2910	3280	2900	2590	4160	14900	4560	2640	2130	2060	2280
28	2360	2370	3070	2610	2640	4030	12500	6330	2530	2090	2140	2220
29	2170	2720	2990	2460	---	3750	14100	6550	2450	2070	2110	2170
30	2280	3150	2830	2440	---	3600	16000	6150	2360	2100	2080	2180
31	2160	---	2490	2380	---	3640	---	8210	---	2050	2340	---
TOTAL	73750	99760	84970	91160	89360	176040	237730	267730	130900	73700	75000	67950
MEAN	2379	3325	2741	2941	3191	5679	7924	8636	4363	2377	2419	2265
MAX	3540	7730	4190	8180	7610	19100	21100	20300	9540	4200	5130	4240
MIN	2070	2100	1920	1830	2300	2680	3620	4070	2360	2050	2040	1970
CAL YR 1982 TOTAL	1416430	MEAN	3881	MAX	25500	MIN	1920					
WTR YR 1983 TOTAL	1468050	MEAN	4022	MAX	21100	MIN	1830					

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 downstream from Philbrick Brook, 2.1 mi downstream from Roxbury, and 7.2 mi upstream from mouth.

DRAINAGE AREA.--96.9 mi².

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, National Geodetic Vertical Datum of 1929.

REMARKS.--Records good except those for winter period and period of no gage-height record July 2 to Aug. 22, which are fair. Several observations of water temperature and specific conductance were made during the year.

AVERAGE DISCHARGE.--54 years, 199 ft³/s (27.89 in/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 16,800 ft³/s Oct. 24, 1959, gage height, 12.87 ft, from rating curve extended above 7,000 ft³/s; minimum, 3.8 ft³/s Sept. 16, 17, 1948, gage height, 0.93 ft.

EXTREMES FOR CURRENT YEAR.--Peak discharges above base of 2,400 ft³/s and maximums (*):

Date	Time	Discharge (ft ³ /s)	Gage height (ft)	Date	Time	Discharge (ft ³ /s)	Gage height (ft)
Nov. 05	1500	2700	5.84	Apr. 25	0700	4110	6.94
Jan. 11	1000	ice jam	* 7.94	May 02	--	3450	--
Jan. 11	1100	* 4850	7.43				

Minimum discharge, 11 ft³/s Sept. 15-17, gage height, 1.00 ft.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	52	39	201	155	81	74	157	1160	672	41	31	106
2	48	67	199	135	79	250	167	2910	405	79	68	48
3	43	96	227	125	470	510	169	2000	296	150	50	32
4	41	71	241	115	1300	275	187	1190	293	65	39	25
5	38	981	203	105	350	160	229	796	296	100	29	21
6	38	561	183	94	185	137	308	693	236	630	25	19
7	34	253	176	87	150	124	320	504	221	240	51	17
8	114	180	148	81	140	107	554	452	188	135	41	15
9	135	144	130	75	135	98	584	640	160	94	120	14
10	99	121	115	70	130	113	498	541	141	77	68	13
11	74	108	105	1410	125	156	503	413	136	63	45	13
12	62	104	92	600	120	354	516	369	125	60	260	14
13	56	919	81	220	115	351	480	331	132	54	150	14
14	66	526	79	150	110	221	535	320	182	50	95	12
15	74	303	77	140	105	176	459	335	177	44	63	11
16	77	226	130	135	100	182	352	425	185	40	44	11
17	66	190	520	130	96	187	806	299	201	38	38	12
18	58	169	350	125	92	166	660	236	376	32	33	26
19	53	154	180	120	88	580	507	209	350	29	29	23
20	51	147	155	115	85	1490	649	242	180	38	25	18
21	50	161	140	110	83	862	544	273	150	79	21	15
22	50	348	130	105	82	1350	464	224	100	170	20	341
23	46	596	120	100	80	599	521	413	86	77	22	129
24	44	477	115	225	79	350	855	546	71	50	20	60
25	43	339	110	280	77	266	3460	376	66	68	17	41
26	43	247	500	160	76	224	1980	279	64	41	16	33
27	41	198	360	115	75	204	1150	286	59	34	19	29
28	40	162	250	96	74	188	1100	677	59	27	21	26
29	40	185	220	91	---	183	1110	401	51	25	20	23
30	40	231	195	88	---	166	1030	447	45	24	19	21
31	39	---	170	84	---	167	---	682	---	23	141	---
TOTAL	1755	8303	5902	5641	4682	10270	20854	18669	5703	2677	1640	1182
MEAN	56.6	277	190	182	167	331	695	602	190	86.4	52.9	39.4
MAX	135	981	520	1410	1300	1490	3460	2910	672	630	260	341
MIN	34	39	77	70	74	74	157	209	45	23	16	11
CFSM	.58	2.86	1.96	1.88	1.72	3.42	7.17	6.21	1.96	.89	.55	.41
IN.	.67	3.19	2.27	2.17	1.80	3.94	8.01	7.17	2.19	1.03	.63	.45
CAL YR 1982	TOTAL	73789	MEAN 202	MAX 3550	MIN 12	CFSM 2.09	IN 28.33					
WTR YR 1983	TOTAL	87278	MEAN 239	MAX 3460	MIN 11	CFSM 2.47	IN 33.51					

ANDROSCOGGIN RIVER BASIN

01055500 NEZINSCOT RIVER AT TURNER CENTER, ME

LOCATION.--Lat 44°16'10", long 70°13'49", Androscoggin County, Hydrologic Unit 01040002, on left bank 500 ft upstream from upper highway bridge at Turner Center and 3.6 mi upstream from mouth.

DRAINAGE AREA.--169 mi².

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, National Geodetic Vertical Datum of 1929.

REMARKS.--Records good except those for winter period and period of no gage-height record May 22 to June 30, which are fair. Several observations of water temperature and specific conductance were made during the year.

AVERAGE DISCHARGE.--42 years, 305 ft³/s (24.51 in/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 13,900 ft³/s Mar. 27, 1953, gage height, 11.18 ft; minimum, 5.6 ft³/s Aug. 29, 1956, gage height, 0.72 ft.

EXTREMES FOR CURRENT YEAR.--Peak discharges above base of 1,700 ft³/s and maximum (*):

Date	Time	Discharge (ft ³ /s)	Gage height (ft)	Date	Time	Discharge (ft ³ /s)	Gage height (ft)
Mar. 13	1200	2150	4.81	Apr. 26	0600	3920	6.11
Mar. 20	1700	* 4470	6.45	May 31	unknown	1780	4.46

Minimum discharge, 26 ft³/s Sept. 16, 17, gage height, 1.05 ft.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	50	52	160	120	155	162	465	783	1410	96	57	119
2	46	51	164	110	150	370	455	791	1020	92	60	102
3	42	55	158	98	500	1320	490	1030	710	107	57	76
4	40	64	161	90	1450	1280	695	1080	600	111	53	62
5	38	85	159	84	1200	970	855	987	685	113	49	54
6	37	169	147	79	760	750	760	825	580	363	47	48
7	36	172	139	76	550	614	690	659	475	452	50	44
8	51	127	129	74	450	501	635	539	410	309	49	39
9	79	103	115	73	385	412	605	543	345	209	64	35
10	87	88	81	72	345	472	595	665	305	153	78	33
11	80	77	87	400	315	938	945	624	255	124	68	33
12	70	72	85	1250	290	1430	1440	582	225	108	175	31
13	62	125	72	800	275	2050	1260	513	195	99	356	29
14	61	400	60	475	260	1810	950	473	200	90	270	28
15	62	393	57	350	250	1300	935	433	255	83	169	27
16	66	317	72	275	235	1080	640	450	435	80	123	26
17	88	243	134	225	230	947	690	424	440	82	98	27
18	93	195	150	200	215	842	1010	363	315	76	82	30
19	91	165	125	180	205	1400	870	320	275	68	74	31
20	88	150	103	170	200	4030	800	326	345	64	66	32
21	88	153	96	160	195	3350	750	435	250	62	55	32
22	77	188	89	150	190	2540	680	390	195	112	48	45
23	58	249	85	145	180	2120	585	365	165	160	47	82
24	50	258	84	225	175	1350	670	630	145	127	42	82
25	49	230	84	470	170	916	2500	600	125	104	40	62
26	47	195	103	375	170	685	3630	480	125	97	38	51
27	51	170	144	285	165	563	2340	465	120	84	37	45
28	53	129	158	235	168	517	1420	750	115	72	35	41
29	56	136	177	200	---	544	1000	870	105	65	34	39
30	54	142	150	180	---	501	808	815	100	61	34	36
31	53	---	130	160	---	480	---	1540	---	56	70	---
TOTAL	1903	4953	3658	7786	9833	36250	30168	19750	10925	3879	2525	1421
MFAN	61.4	165	118	251	351	1160	1006	637	364	125	81.5	47.4
MAX	93	400	177	1250	1450	4030	3630	1540	1410	452	356	119
MIN	36	51	57	72	150	162	455	320	100	56	34	26
CFSM	.36	.98	.70	1.49	2.08	6.92	5.95	3.77	2.15	.74	.48	.28
IN.	.42	1.09	.81	1.71	2.16	7.98	6.64	4.35	2.40	.85	.56	.31

CAL YR 1982 TOTAL 88630 MEAN 243 MAX 2540 MIN 29 CFSM 1.44 IN 19.51
WTR YR 1983 TOTAL 133051 MEAN 365 MAX 4030 MIN 26 CFSM 2.16 IN 29.29

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 from left edge of Gulf Island dam on the Androscoggin River, 4.0 mi north of Lewiston, 5.0 mi upstream from the mouth of the Little Androscoggin River.

DRAINAGE AREA.--2863 mi².

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, 171 micromhos Sept. 21, 1983; minimum, 31 micromhos Apr. 27, May 5, 1983.

pH: Maximum recorded, 7.3 units Aug. 20, 1983; minimum, 6.0 units Aug. 17, 1981.

WATER TEMPERATURES: Maximum, 26.5°C Aug. 9, 1983; minimum, 0.0°C on many days during winter periods.

DISSOLVED OXYGEN: Maximum, 14.3 mg/L Feb. 6, 1983; minimum, 2.3 mg/L July 28, 1982.

EXTREMES FOR CURRENT YEAR.--

SPECIFIC CONDUCTANCE: Maximum, 171 micromhos Sept. 21; minimum, 31 micromhos Apr. 27, May 5.

pH: Maximum recorded, 7.3 units Aug. 20; minimum recorded, 6.4 units Mar. 22, and many days during June, July, and Sept.

WATER TEMPERATURES: Maximum, 26.5°C Aug. 9; minimum, 0.0°C on many days during winter period.

DISSOLVED OXYGEN: Maximum, 14.3 mg/L Feb 6; minimum, 3.0 mg/L Aug. 8, Sept. 3, 18.

SPECIFIC CONDUCTANCE (MICROMHOS/CM AT 25 DEG. C), WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
	OCTOBER			NOVEMBER			DECEMBER			JANUARY		
1	150	148	149	152	148	151	92	89	91	121	108	115
2	148	146	147	152	144	148	95	90	92	117	104	111
3	149	147	148	151	148	149	99	94	96	111	102	106
4	152	149	151	149	149	149	104	98	101	106	100	104
5	153	150	151	150	148	149	111	105	108	106	101	104
6	152	151	152	148	147	148	111	109	110	105	102	103
7	152	151	152	151	148	150	111	106	109	106	102	104
8	151	148	149	149	140	146	108	106	107	110	104	107
9	148	147	148	139	124	131	108	106	107	117	107	112
10	147	146	147	123	96	110	109	108	108	120	111	115
11	147	146	147	99	84	93	108	108	108	135	113	121
12	148	147	147	85	81	83	108	108	108	145	119	134
13	149	146	148	85	84	85	109	108	109	116	60	85
14	146	139	143	87	85	86	110	109	109	60	54	57
15	141	127	133	103	88	95	110	109	110	59	50	54
16	131	125	127	112	102	109	110	109	110	53	49	51
17	142	127	137	111	104	108	118	108	111	53	50	52
18	138	135	137	101	83	92	128	109	120	54	50	52
19	136	133	134	84	79	81	143	121	132	58	52	54
20	138	135	137	78	76	77	140	125	131	61	56	57
21	139	136	138	79	76	77	138	131	135	66	58	62
22	137	136	136	83	78	80	141	132	137	74	65	69
23	137	136	137	87	82	85	139	133	136	90	70	78
24	137	137	137	98	86	91	138	117	131	98	76	88
25	139	137	138	104	97	101	139	118	130	106	91	96
26	139	138	139	107	102	104	130	108	122	108	95	103
27	143	139	141	107	102	105	124	109	118	110	102	108
28	147	142	145	105	98	102	125	116	118	109	107	108
29	150	145	148	100	96	98	128	118	123	107	105	106
30	150	149	150	97	91	94	128	122	125	106	102	105
31	151	149	151	---	---	---	126	114	122	103	100	102
MONTH	153	125	143	152	76	109	143	89	115	145	49	91

SPECIFIC CONDUCTANCE (MICROMHOS/CM AT 25 DEG. C), WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
FEBRUARY				MARCH			APRIL			MAY		
1	100	97	99	116	111	113	81	76	78	41	38	39
2	100	97	99	118	114	115	85	81	83	39	37	38
3	105	98	101	118	112	115	88	85	86	37	36	37
4	112	101	106	119	112	117	91	87	89	37	33	35
5	104	71	89	110	97	104	90	88	89	34	31	32
6	70	52	59	98	85	93	90	87	89	35	32	34
7	54	52	52	91	76	83	87	85	86	36	35	36
8	54	48	51	79	72	76	85	79	82	39	36	38
9	51	48	50	77	74	75	80	76	78	44	39	42
10	53	49	51	81	75	78	76	69	72	46	43	45
11	58	52	56	87	80	83	70	67	69	48	46	47
12	65	56	61	90	86	88	67	60	64	47	43	45
13	75	63	70	92	88	90	59	58	58	47	44	45
14	79	68	74	88	75	81	59	55	57	48	46	47
15	88	74	82	76	62	68	56	54	55	49	47	48
16	91	82	88	62	56	58	56	55	56	51	48	49
17	94	84	92	59	56	57	59	56	57	55	50	52
18	98	92	95	65	59	62	62	59	60	60	54	56
19	99	94	97	70	64	68	62	59	61	61	57	59
20	101	96	99	70	63	67	60	54	57	65	60	63
21	102	98	101	61	38	47	55	54	54	66	65	65
22	102	99	101	40	37	38	58	55	56	68	66	67
23	103	100	102	44	41	43	59	56	58	72	67	70
24	105	101	103	43	42	43	58	56	57	74	72	73
25	107	103	105	46	43	44	63	57	60	74	73	74
26	108	102	105	50	46	48	60	34	45	74	73	74
27	110	103	108	56	49	53	35	31	33	73	69	71
28	112	109	111	63	56	59	35	33	34	69	62	66
29	---	---	---	70	63	66	40	35	38	64	61	62
30	---	---	---	76	70	73	42	39	40	63	62	63
31	---	---	---	77	75	76	---	---	---	63	58	60
MONTH	112	48	86	119	37	74	91	31	63	74	31	53
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
JUNE				JULY			AUGUST			SEPTEMBER		
1	58	54	56	116	102	109	141	139	140	143	138	140
2	55	52	54	107	105	105	140	139	139	147	140	143
3	52	49	51	106	105	105	141	139	140	148	145	147
4	50	48	49	113	105	108	145	140	142	146	146	146
5	50	48	49	123	113	117	150	144	146	148	146	147
6	53	50	51	125	118	121	154	147	150	149	147	148
7	54	52	54	130	125	128	152	151	152	148	143	146
8	55	53	54	124	109	121	153	150	151	147	143	145
9	55	54	55	117	98	109	153	152	153	144	140	143
10	57	55	56	104	91	97	153	153	153	141	140	141
11	61	57	59	98	77	85	154	152	153	141	139	140
12	64	60	62	84	77	78	152	151	152	140	139	139
13	70	63	66	88	77	82	154	152	153	140	139	140
14	76	67	72	84	82	83	154	124	142	142	140	141
15	81	72	77	85	83	84	147	121	128	145	141	143
16	86	78	83	84	83	83	124	102	112	147	144	145
17	88	82	85	84	82	83	115	103	106	153	147	149
18	88	86	87	85	83	84	118	94	106	160	152	155
19	89	86	88	89	84	86	129	104	113	166	157	162
20	87	82	85	103	88	95	136	103	117	169	158	164
21	83	78	80	126	100	110	131	116	128	171	164	168
22	80	77	78	123	107	116	116	108	111	170	161	164
23	79	77	78	129	121	126	115	109	114	163	161	162
24	78	74	76	138	127	132	123	114	119	164	160	161
25	78	76	77	138	132	135	119	115	116	161	151	158
26	80	78	79	138	134	136	125	118	121	158	142	148
27	85	81	83	141	135	139	127	122	125	146	141	144
28	92	85	87	144	138	142	125	124	125	146	139	143
29	98	90	93	143	141	142	129	124	126	141	113	130
30	110	94	102	142	139	140	139	128	131	128	109	114
31	---	---	---	141	139	140	140	131	136	---	---	---
MONTH	110	48	71	144	77	110	154	94	132	171	109	147
YEAR	171	31	100									

01056000 GULF ISLAND POND NEAR LEWISTON, ME--Continued

PH (STANDARD UNITS), WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983

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

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

01056000 GULF ISLAND POND NEAR LEWISTON, ME--Continued

PH (STANDARD UNITS), WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983

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

TEMPERATURE, WATER (DEG. C), WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983

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

TEMPERATURE, WATER (DEG. C), WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983

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

Day	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
JUNE				JULY			AUGUST			SEPTEMBER		
1	12.5	12.0	12.0	22.5	21.5	22.0	23.5	23.0	23.5	22.5	22.5	22.5
2	13.5	12.0	13.0	22.5	22.0	22.5	24.0	23.5	24.0	22.5	22.0	22.5
3	14.5	13.0	13.5	22.5	22.5	22.5	24.0	24.0	24.0	22.5	22.0	22.5
4	14.5	13.5	14.0	22.5	22.5	22.5	24.5	24.0	24.0	22.5	22.0	22.5
5	14.5	14.0	14.0	24.5	22.5	23.0	24.5	24.0	24.5	22.5	22.0	22.5
6	14.5	14.0	14.5	24.5	24.0	24.5	24.5	24.0	24.5	22.5	22.0	22.5
7	15.0	14.5	15.0	25.0	24.0	24.0	26.0	24.5	25.0	23.5	22.5	23.0
8	15.5	14.5	15.0	24.5	23.5	24.0	26.0	24.5	25.0	23.5	22.5	23.0
9	15.5	15.0	15.0	24.5	23.5	24.0	26.5	25.0	26.0	23.5	22.5	23.0
10	16.0	15.0	15.5	24.0	23.0	23.5	26.0	25.0	25.5	23.5	23.0	23.0
11	17.0	15.5	16.5	23.0	22.0	22.5	25.5	24.5	25.0	23.5	23.0	23.0
12	17.0	16.5	16.5	22.5	22.0	22.0	24.5	23.5	24.0	23.0	23.0	23.0
13	17.5	16.5	17.0	24.0	22.0	22.5	24.0	23.0	23.5	23.5	23.0	23.5
14	19.0	17.0	18.0	23.0	22.5	23.0	23.0	21.5	22.5	23.0	22.5	22.5
15	20.5	18.0	19.5	23.0	22.5	22.5	22.5	21.0	21.5	22.5	22.0	22.5
16	21.0	19.5	20.5	23.0	22.5	22.5	21.5	20.5	21.0	22.0	21.5	22.0
17	21.0	20.5	21.0	24.0	22.5	23.0	21.5	20.5	21.0	21.5	21.0	21.5
18	21.5	21.0	21.0	24.0	22.5	23.0	21.5	20.5	21.0	21.0	20.5	21.0
19	22.5	21.0	21.5	24.0	23.0	23.5	22.0	21.0	21.5	20.5	20.0	20.5
20	22.5	21.5	22.0	25.0	23.5	24.0	25.0	21.0	22.5	20.5	19.5	20.0
21	23.0	22.0	22.5	24.5	23.5	24.0	24.0	22.5	23.5	20.0	19.0	19.5
22	25.0	22.0	23.5	24.5	23.5	24.0	22.5	22.0	22.5	20.5	19.5	20.0
23	24.0	22.5	23.5	24.0	23.5	23.5	23.0	22.0	22.5	20.5	20.0	20.0
24	25.0	23.5	24.5	23.5	23.0	23.0	22.5	22.0	22.0	20.5	19.5	20.0
25	24.0	23.5	24.0	23.5	23.0	23.0	22.0	21.5	22.0	20.0	19.0	19.5
26	23.5	23.0	23.5	23.5	23.0	23.0	22.0	21.5	21.5	19.0	19.0	19.0
27	23.5	23.0	23.0	23.5	23.0	23.0	22.5	21.5	22.0	19.0	18.5	19.0
28	23.0	22.5	23.0	23.0	22.5	22.5	22.0	22.0	22.0	19.0	18.5	18.5
29	23.5	22.0	22.5	22.5	22.5	22.5	22.5	22.0	22.0	18.5	17.5	18.0
30	22.5	22.0	22.0	23.5	22.5	23.0	23.0	22.0	22.5	17.5	17.0	17.5
31	---	---	---	23.5	23.0	23.0	22.5	22.0	22.5	---	---	---
MONTH	25.0	12.0	19.0	25.0	21.5	23.0	26.5	20.5	23.0	23.5	17.0	21.5
YEAR	26.5	.0	10.5									

ANDROSCOGGIN RIVER BASIN

01056000 GULF ISLAND POND NEAR LEWISTON, ME--Continued

OXYGEN, DISSOLVED (DO), MG/L, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
OCTOBER			NOVEMBER			DECEMBER			JANUARY			
1	6.2	5.8	5.9	8.3	7.9	8.1	11.4	11.3	11.3	12.9	12.5	12.7
2	6.9	6.0	6.5	8.8	7.6	8.2	11.7	11.4	11.5	13.0	12.6	12.7
3	6.6	5.6	6.1	8.4	7.7	8.0	11.7	10.9	11.5	12.8	12.2	12.6
4	6.4	6.0	6.1	8.4	7.7	8.0	11.7	11.5	11.6	12.7	12.3	12.5
5	6.3	5.8	6.0	8.6	7.9	8.1	11.8	11.6	11.7	12.7	12.5	12.6
6	6.0	5.7	5.9	8.8	8.5	8.7	11.9	11.7	11.8	12.8	12.6	12.7
7	6.4	5.6	5.8	8.8	8.6	8.7	11.9	11.7	11.8	12.8	12.5	12.7
8	6.4	5.6	6.1	8.9	8.6	8.7	11.7	11.5	11.6	12.8	12.3	12.5
9	6.9	6.4	6.7	9.0	8.8	8.9	11.6	11.2	11.4	12.7	12.3	12.6
10	7.1	6.8	6.9	9.3	9.0	9.1	11.4	11.2	11.3	12.8	12.5	12.6
11	7.1	6.8	6.9	9.5	9.2	9.3	11.3	10.8	11.2	13.2	12.6	12.9
12	7.4	6.8	7.2	9.9	9.5	9.7	11.1	10.8	11.0	12.9	12.6	12.8
13	7.7	7.4	7.5	9.9	9.7	9.8	11.0	10.8	11.0	13.6	13.0	13.3
14	7.7	7.5	7.7	10.1	9.7	9.9	11.0	10.9	10.9	13.8	13.6	13.7
15	8.0	7.6	7.8	10.4	10.1	10.3	11.1	10.9	11.0	13.8	13.6	13.7
16	7.9	7.5	7.7	10.7	10.3	10.5	11.4	10.8	11.0	13.7	13.5	13.6
17	7.7	7.4	7.6	10.8	10.7	10.8	11.8	10.7	11.2	13.8	13.5	13.7
18	7.8	7.6	7.7	11.1	10.8	11.0	12.1	11.1	11.7	13.6	13.4	13.5
19	7.9	7.7	7.8	11.2	11.0	11.1	12.2	11.5	12.0	13.5	13.2	13.3
20	8.2	7.8	8.0	11.3	11.2	11.2	12.2	11.5	11.9	13.4	13.0	13.2
21	8.2	8.1	8.2	11.4	11.2	11.3	12.2	11.8	12.0	13.4	13.1	13.3
22	8.5	8.2	8.3	11.7	11.3	11.5	12.2	11.9	12.1	13.4	13.0	13.2
23	8.4	8.2	8.3	11.8	11.4	11.6	12.6	12.1	12.3	13.4	13.1	13.2
24	8.4	8.3	8.3	11.9	11.6	11.7	12.9	11.9	12.5	13.4	13.2	13.3
25	8.4	8.2	8.3	11.9	11.6	11.8	12.9	12.0	12.6	13.3	13.2	13.3
26	8.6	8.3	8.5	11.8	11.6	11.7	13.0	12.3	12.7	13.2	12.9	13.0
27	8.5	8.4	8.5	11.6	11.3	11.4	12.9	12.5	12.7	13.2	13.0	13.1
28	8.9	8.4	8.7	11.4	11.3	11.3	13.0	12.4	12.8	13.1	13.0	13.1
29	8.8	8.6	8.7	11.3	11.2	11.3	12.9	12.6	12.7	13.2	13.0	13.1
30	8.8	8.5	8.6	11.3	11.2	11.3	12.7	12.5	12.6	13.4	13.0	13.2
31	8.5	8.1	8.3	---	---	---	12.8	12.4	12.5	13.4	13.2	13.3
MONTH	8.9	5.6	7.4	11.9	7.6	10.1	13.0	10.7	11.8	13.8	12.2	13.1
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
FEBRUARY			MARCH			APRIL			MAY			
1	13.5	13.2	13.3	13.0	12.6	12.8	13.5	13.4	13.5	12.8	12.5	12.7
2	13.5	13.2	13.4	12.7	12.4	12.5	13.5	13.4	13.4	12.9	12.7	12.8
3	13.7	13.4	13.6	12.5	12.2	12.4	13.5	13.4	13.4	13.0	12.8	12.9
4	13.6	13.0	13.3	12.6	12.3	12.4	13.4	13.3	13.3	12.9	12.7	12.8
5	13.5	12.9	13.2	12.8	12.6	12.7	13.3	13.0	13.2	12.7	12.4	12.6
6	14.3	13.5	14.0	13.2	12.8	13.0	13.1	12.9	12.9	12.4	12.2	12.3
7	14.2	13.9	14.1	13.3	13.0	13.1	13.0	12.9	12.9	12.2	12.0	12.1
8	14.1	13.8	13.9	13.5	13.2	13.3	13.0	12.9	12.9	12.1	11.8	12.0
9	14.0	13.8	13.9	13.4	13.3	13.4	12.9	12.8	12.8	11.9	11.5	11.7
10	14.0	13.6	13.8	13.3	13.1	13.2	12.8	12.7	12.7	11.5	11.3	11.4
11	14.0	13.7	13.8	13.2	13.1	13.1	12.7	12.6	12.7	11.6	11.3	11.4
12	13.9	13.6	13.7	13.1	13.0	13.1	12.8	12.7	12.7	11.8	11.5	11.6
13	13.8	13.6	13.7	13.1	12.9	13.0	13.2	12.8	13.0	11.8	11.0	11.3
14	13.8	13.5	13.7	13.2	12.9	13.1	13.6	13.1	13.4	11.1	10.8	11.0
15	13.7	13.6	13.7	13.5	13.2	13.3	13.6	13.5	13.5	10.8	10.5	10.6
16	13.7	13.6	13.7	13.5	13.4	13.5	13.5	13.2	13.3	10.9	10.3	10.6
17	13.7	13.6	13.7	13.5	13.4	13.5	13.2	12.9	13.0	10.4	10.0	10.2
18	13.7	13.5	13.6	13.6	13.4	13.5	13.1	12.9	13.0	10.1	9.8	10.0
19	13.6	13.5	13.5	13.6	13.5	13.6	13.1	13.0	13.1	10.0	9.7	9.8
20	13.6	13.4	13.5	13.7	13.2	13.5	13.2	13.1	13.1	10.1	9.7	9.9
21	13.5	13.2	13.4	14.0	13.2	13.6	13.1	13.1	13.1	9.9	9.6	9.8
22	13.4	13.2	13.3	14.1	13.7	13.9	13.1	13.0	13.1	10.2	9.5	9.8
23	13.3	13.1	13.2	13.7	13.5	13.5	13.1	13.0	13.0	9.7	9.3	9.6
24	13.2	12.9	13.0	13.7	13.5	13.6	13.1	13.0	13.1	9.4	9.0	9.2
25	13.2	13.0	13.1	13.7	13.5	13.6	13.0	12.4	12.8	9.0	8.5	8.8
26	13.1	12.8	12.9	13.7	13.5	13.6	13.4	12.3	12.9	9.0	8.4	8.6
27	13.0	12.8	12.9	13.9	13.7	13.8	13.7	13.4	13.6	9.1	8.8	9.0
28	13.0	12.8	12.9	13.8	13.7	13.8	13.7	13.5	13.6	9.6	9.0	9.2
29	---	---	---	13.8	13.4	13.6	13.5	13.0	13.3	9.6	9.2	9.4
30	---	---	---	13.4	13.3	13.4	13.0	12.6	12.7	9.6	9.3	9.4
31	---	---	---	13.6	13.4	13.5	---	---	---	9.9	9.4	9.7
MONTH	14.3	12.8	13.5	14.1	12.2	13.3	13.7	12.3	13.1	13.0	8.4	10.7

OXYGEN, DISSOLVED (DO), MG/L, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983

[illegible]

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 upstream from Biscoe Falls and 5 mi upstream from South Paris.

DRAINAGE AREA.--75.8 mi².

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, 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 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.--62 years (water years 1914-23, 1932-83), 139 ft³/s (24.90 in/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 8,000 ft³/s Mar. 27, 1953, gage height, 12.41 ft, from rating curve extended above 2,800 ft³/s, verified by computation of flow over dam at South Paris; minimum, 1.0 ft³/s Aug. 16, 1914, Feb. 22 to Mar. 5, 1920.

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

Date	Time	Discharge (ft ³ /s)	Gage height (ft)	Date	Time	Discharge (ft ³ /s)	Gage height (ft)
Jan. 11	--	1620	ice jam	Mar. 20	0345	* 2720	11.24
Feb. 04	0345	1280	9.69	Apr. 25	1400	1940	10.47
Mar. 13	0015	1440	9.81				

Minimum discharge not determined, occurred during period of missing record; minimum daily, 7.4 ft³/s Sept. 16.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	28	23	97	72	64	60	193	401	429	27	13	88
2	25	30	94	63	61	195	203	423	293	30	14	35
3	22	47	90	52	436	555	214	597	218	63	14	25
4	20	54	92	41	1150	300	360	513	220	44	14	19
5	19	115	87	36	610	195	379	444	280	39	12	16
6	18	180	84	35	300	180	384	339	218	181	12	14
7	17	109	84	34	205	172	342	269	186	167	13	13
8	39	82	70	34	160	145	324	233	157	90	14	12
9	77	67	54	33	130	131	321	235	129	63	32	11
10	59	57	45	32	120	167	282	242	106	46	32	10
11	48	51	44	540	98	401	447	224	98	37	20	9.6
12	41	48	43	595	91	788	689	214	86	32	131	9.2
13	37	208	42	275	87	1020	517	199	79	28	128	8.6
14	37	292	40	170	85	564	444	188	109	24	68	8.2
15	40	188	40	120	84	438	360	172	133	20	50	7.8
16	41	146	54	95	81	421	315	193	481	20	41	7.4
17	38	114	135	88	76	357	392	169	259	18	35	8.0
18	33	96	86	81	77	330	438	145	222	17	30	20
19	30	87	72	72	75	685	392	129	190	17	26	17
20	28	83	68	63	70	2070	389	144	140	15	23	14
21	28	93	65	61	68	986	373	182	100	14	21	12
22	27	153	60	59	67	1310	309	150	80	29	19	155
23	26	179	53	58	66	677	264	190	65	41	17	58
24	25	161	53	140	66	421	290	285	53	26	16	35
25	24	133	55	190	65	294	1600	231	49	26	15	26
26	24	109	75	150	59	249	1160	186	51	23	14	20
27	24	96	105	110	58	204	673	169	43	18	13	16
28	24	80	91	86	58	216	472	360	40	16	13	14
29	24	83	95	77	---	212	371	280	36	14	12	13
30	24	94	91	70	---	214	387	363	31	14	12	12
31	24	---	77	65	---	177	---	612	---	13	100	---
TOTAL	971	3258	2241	3597	4567	14138	13284	8481	4581	1212	974	713.8
MEAN	31.3	109	72.3	116	163	456	443	274	153	39.1	31.4	23.8
MAX	77	292	135	595	1150	2070	1600	612	481	181	131	155
MIN	17	23	40	32	58	60	193	129	31	13	12	7.4
CFSM	.41	1.44	.95	1.53	2.15	6.02	5.84	3.62	2.02	.52	.41	.31
IN.	.48	1.60	1.10	1.77	2.24	6.94	6.52	4.16	2.25	.59	.48	.35

CAL YR 1982	TOTAL	43697.8	MEAN 120	MAX 1240	MIN 7.6	CFSM 1.58	IN 21.45
WTR YR 1983	TOTAL	58017.8	MEAN 159	MAX 2070	MIN 7.4	CFSM 2.10	IN 28.47

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 downstream from Little Androscoggin River and 2.1 mi downstream from north bridge between Auburn and Lewiston.

DRAINAGE AREA.--3,263 mi².

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 National Geodetic Vertical Datum of 1929.

REMARKS.--Records good. Considerable diurnal fluctuation and some regulation by powerplants above station. Flow regulated by Rangeley, Mooselookmeguntic, Richardson, Aziscohos, Umbagog, Auburn, and Thompson Lakes and Gulf Island Pond (Reservoirs in Androscoggin River Basin) with major regulation at Errol Dam 136 mi upstream. Several observations of water temperature and specific conductance were made during the year.

AVERAGE DISCHARGE.--55 years, 6,144 ft³/s.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 135,000 ft³/s Mar. 20, 1936, gage height, 27.57 ft from rating curve extended above 76,000 ft³/s on basis of slope-area measurement of peak flow and computation of flow over dam; minimum daily, 340 ft³/s Sept. 28, 1941.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 40,800 ft³/s Apr. 26, gage height, 12.56 ft; minimum daily, 622 ft³/s July 3.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	3560	2560	4550	3640	4120	3740	7230	24500	17400	4120	2740	3610
2	1080	2730	4480	3150	4000	5370	7420	25500	16400	849	2730	3820
3	871	2720	4490	3090	5830	10800	7480	27000	14200	622	3170	3350
4	3140	2840	4300	3140	18000	12000	9070	29700	12900	851	3490	950
5	3260	3460	4260	2270	19600	9360	9730	27100	13000	3470	3500	1840
6	3060	7770	3970	2060	11900	8070	9620	22300	12300	6040	2430	2720
7	2940	7990	3610	2460	8420	6890	10300	18800	11000	7070	1010	2700
8	2990	6580	3600	2960	5540	7640	10300	17000	8720	7090	2620	2590
9	2250	4560	3590	2820	4450	6190	11600	17000	7260	6430	2720	2540
10	2580	3750	3610	2610	4600	6230	12300	18300	7280	4600	3440	1830
11	3570	2950	3170	8780	4500	8340	13800	17500	7220	3520	4630	1680
12	3380	2950	2890	21600	4450	13200	15400	16000	3880	3340	4750	2320
13	2990	3270	2870	16000	4290	18600	15000	14100	5000	2550	4980	2320
14	3250	8110	2420	9150	4690	17000	13900	11200	6890	2630	6240	2330
15	3220	8340	2190	7380	4650	13500	13000	9720	6930	1790	4760	2390
16	1860	7050	2090	5240	4570	12700	12100	9290	5930	1750	3850	2370
17	2260	5660	3170	4140	4450	11600	12500	9590	5790	1720	3570	1600
18	2930	5000	5010	3750	4410	10900	16100	8850	6370	2500	3130	1270
19	2870	4500	4530	3570	4380	15200	14600	7830	7600	2990	3210	2230
20	2790	3350	3460	3450	3960	35700	13000	7390	7440	3030	3420	2380
21	2920	2620	3300	3490	4140	34200	13900	7590	6580	2960	870	2440
22	2920	3820	3420	4040	4420	30800	13000	7120	6490	3260	2790	3500
23	2310	4830	3250	4350	4160	27600	12000	7750	5090	2670	2610	4110
24	759	6440	2780	5350	3790	19000	12500	10100	5240	2320	2410	4220
25	2390	6340	3090	5410	3830	14300	33000	11100	5000	2720	2330	2970
26	2730	5480	3080	6430	4070	11900	39900	9530	3330	2690	2370	3540
27	3090	4040	3320	5690	3800	10100	33100	8460	4280	2660	1840	3470
28	3380	4210	4940	5150	3760	10000	26100	10700	4250	2440	734	2820
29	3340	3570	4060	4460	---	9770	23400	12800	4120	2290	2320	3210
30	813	4100	3980	4400	---	8530	24300	12400	4160	1650	2420	3030
31	1120	---	3890	4200	---	7300	---	16500	---	1440	3080	---
TOTAL	80623	141590	111570	164230	162780	416530	465650	452720	232050	94062	94164	80150
MFAN	2601	4720	3599	5298	5814	13440	15520	14600	7735	3034	3038	2672
MAX	3570	8340	5010	21600	19600	35700	39900	29700	17400	7090	6240	4220
MIN	759	2560	2090	2060	3760	3740	7230	7120	3330	622	734	950
CAL YR 1982 TOTAL	2120073	MEAN	5808	MAX	34700	MIN	759					
WTR YR 1983 TOTAL	2496119	MEAN	6839	MAX	39900	MIN	622					

ANDROSCOGGIN RIVER BASIN

01059400 ANDROSCOGGIN RIVER AT BRUNSWICK, ME
(National stream-quality accounting network station)

LOCATION.--Lat 43°55'03", long 69°58'25", Cumberland County, Hydrologic Unit 01060001, on right bank at cable suspended footbridge, 530 ft downstream from railroad bridge at Brunswick.

DRAINAGE AREA.--3,434 mi².

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.

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.

WATER QUALITY DATA, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983

DATE	TIME	DIS- CHARGE, IN CUBIC FEET PER SECOND	SPE- CIFIC CON- DUCT- ANCE (UMHOS)	PH (UNITS)	TEMPER- ATURE, AIR (DEG C)	TEMPER- ATURE (DEG C)	TUR- BID- ITY (NTU)	BARO- METRIC PRES- SURE (MM OF HG)	OXYGEN, DIS- SOLVED (MG/L)	OXYGEN, (PER- CENT SATUR- ATION)	COLI- FORM, FECAL, 0.7 UM-MF (COLS./ 100 ML.)	STREP- TOCOCCI FECAL, KF AGAR (COLS. PER 100 ML)
NOV 03...	1030	2850	155	6.6	16.5	9.5	3.1	770	10.4	90	460	280
DEC 21...	1330	3470	128	7.2	5.5	0.5	3.9	763	14.2	98	330	76
MAR 30...	1130	8960	61	6.6	3.5	1.0	2.4	770	13.5	94	700	220
MAY 16...	1300	13400	55	7.0	16.0	11.0	2.0	767	11.6	104	480	980
JUN 27...	1215	4500	80	6.9	25.0	23.0	2.1	767	8.3	96	190	340
SEP 01...	1100	3810	128	6.9	20.0	21.0	3.0	772	8.4	93	390	980

DATE	HARD- NESS (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- LINITY LAB (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)	SOLIDS, RESIDUE AT 180 DEG. C DIS- SOLVED (MG/L)	SOLIDS, SUM OF CONSTITUENTS, DIS- SOLVED (MG/L)
NOV 03...	19	6.0	0.9	19	1.0	14	21	23	<0.1	4.5	98	85
DEC 21...	21	6.4	1.1	19	1.0	15	17	18	0.1	6.6	85	78
MAR 30...	13	4.1	0.7	5.7	0.9	9.0	8.9	7.8	<0.1	4.7	53	39
MAY 16...	13	3.9	0.8	4.6	0.8	8.0	10	5.3	<0.1	4.7	47	35
JUN 27...	15	4.7	0.8	9.0	1.0	11	11	9.7	<0.1	4.3	62	47
SEP 01...	22	6.9	1.1	16	1.2	15	16	18	<0.1	4.9	84	74

01059400 ANDROSCOGGIN RIVER AT BRUNSWICK, ME--Continued

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983

DATE	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, DIS- SOLVED TOTAL (MG/L AS P)	PHOS- PHORUS, DIS- SOLVED (MG/L AS P)	PHOS- PHORUS, ORTHO, DIS- SOLVED (MG/L AS P)	ALUM- INUM, DIS- SOLVED (UG/L AS AL)	ARSENIC DIS- SOLVED (UG/L AS AS)	BARIUM, DIS- SOLVED (UG/L AS BA)
NOV 03...	0.48	0.21	0.27	0.8	0.07	0.10	0.04	200	1	29.00
DEC 21...	0.3	0.15	0.19	0.3	0.06	0.03	0.02	--	--	--
MAR 30...	0.19	0.08	0.1	0.7	0.03	0.01	<0.01	100	1	17.00
MAY 16...	0.19	0.08	0.1	0.2	0.07	<0.01	<0.01	100	<1	11.00
JUN 27...	0.25	0.04	0.05	0.2	0.03	0.02	<0.01	--	--	--
SEP 01...	0.36	0.11	0.14	1.70	0.06	0.03	0.02	100	2	35.00

DATE	BERYL- LIUM, DIS- SOLVED (UG/L AS BE)	CADMIUM DIS- SOLVED (UG/L AS CD)	CHRO- MIUM, DIS- SOLVED (UG/L AS CR)	COBALT, DIS- SOLVED (UG/L AS CO)	COPPER, DIS- SOLVED (UG/L AS CU)	IRON, DIS- SOLVED (UG/L AS FE)	LEAD, DIS- SOLVED (UG/L AS PB)	LITHIUM DIS- SOLVED (UG/L AS LI)	MANGA- NESE, DIS- SOLVED (UG/L AS MN)	MERCURY DIS- SOLVED (UG/L AS HG)
NOV 03...	<1.00	<1	<1	<3.00	3	200	3	<4.00	46	0.2
DEC 21...	--	--	--	--	--	--	--	--	--	--
MAR 30...	<1.00	<1	<1	<3.00	2	80	3	<4.00	39	<0.1
MAY 16...	0.50	1	1	3.00	3	80	7	4.00	33	<0.1
JUN 27...	--	--	--	--	--	--	--	--	--	--
SEP 01...	<0.50	<1	<1	<3.00	3	200	<1	<4.00	18	<0.1

DATE	MOLYB- DENUM, DIS- SOLVED (UG/L AS MO)	NICKEL, DIS- SOLVED (UG/L AS NI)	SELE- NIUM, DIS- SOLVED (UG/L AS SE)	SILVER, DIS- SOLVED (UG/L AS AG)	STRON- TIUM, DIS- SOLVED (UG/L AS SR)	VANA- DIUM, DIS- SOLVED (UG/L AS V)	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
NOV 03...	<10	2	<1	--	30	<6.0	9.00	4	31	100
DEC 21...	--	--	--	--	--	--	--	5	47	85
MAR 30...	<10	2	<1	<1	20	<6.0	6.00	7	169	48
MAY 16...	10	2	<1	<1	20	6.0	4.00	7	253	46
JUN 27...	--	--	--	--	--	--	--	3	36	100
SEP 01...	<10	2	<1	<1	30	<6.0	7.00	3	31	100

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 in top 4.0 ft 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 between gage heights 8.3 ft and 20.5 ft. 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 between gage heights 3.0 ft and 20.5 ft. Gage-height record furnished by Union Water Power Co.
- 01052000 AZISCOHOS LAKE on Magalloway River in Lincoln Township, 3 mi east of village of Wilsons Mills, Maine, completed in 1911 for power, has usable capacity of 9,593,000,000 ft³ between elevations 1,490.0 ft and 1,535.0 ft. Elevation record furnished by Union Water Power Co.
- 01053000 UMBAGOG LAKE on Androscoggin River at Errol Dam, 0.6 mi northeast of Errol, NH, used for power, has usable capacity of 3,080,160,000 ft³ between gage heights 5.5 ft and 15.0 ft. Gage-height record furnished by Union Water Power Co.
- 01056000 GULF ISLAND POND on Androscoggin River, 3 mi upstream from Lewiston, Maine, completed in 1928 for power, has capacity of 1,100,000,000 ft³ in top 10 ft of pond below elevation 262.0 ft. 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 between elevations 254.7 ft and 260.7 ft. 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 between gage heights 95.0 ft and 100.0 ft. Gage-height record furnished by Robinson Manufacturing Co.

MONTHEND CONTENTS IN MILLIONS OF CUBIC FEET, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983

DATE	RANGELEY LAKE	MOOSELOOKMEGUNTIC LAKE	UPPER AND LOWER RICHARDSON LAKES	AZISCOHOS LAKE
SEPT. 30, 1982	670	4368	3640	5918
OCT. 31	445	2838	2158	5577
NOV. 30	754	2906	3124	6464
DEC. 31	767	2097	4250	6632
JAN. 31, 1983	920	1864	3603	5904
FEB. 28	824	1798	2722	4929
MAR. 31	934	2702	1898	4485
APR. 30	1507	6651	4306	7164
MAY 31	1313	8370	5710	9934
JUNE 30	1229	7652	5275	9469
JULY 31	1229	6687	4380	8275
AUG. 31	1313	6154	3658	7402
SEPT. 30	863	4300	3362	6338

DATE	UMBAGOG LAKE	GULF ISLAND POND	LAKE AUBURN	THOMPSON LAKE
SEPT. 30, 1982	1488	2372	463	1638
OCT. 31	1092	2464	419	1518
NOV. 30	1092	2458	408	1586
DEC. 31	865	2425	375	1613
JAN. 31, 1983	1332	2458	452	1696
FEB. 28	1300	2443	496	1727
MAR. 31	1220	2455	520	1987
APR. 30	2632	2479	628	2012
MAY 31	2904	2484	688	1909
JUNE 30	2514	1888	544	1829
JULY 31	2110	2489	508	1856
AUG. 31	1920	2331	463	1837
SEPT. 30	1740	2333	408	1740

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

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 upstream from East Main Street bridge in Yarmouth.

DRAINAGE AREA.--141 mi².

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, 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.--34 years, 275 ft³/s (26.49 in/yr).

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

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

Date	Time	Discharge (ft ³ /s)	Gage height (ft)	Date	Time	Discharge (ft ³ /s)	Gage height (ft)
Feb. 04	0600	1650	3.46	Mar. 29	0100	1680	3.48
Mar. 03	1900	1870	3.65	Apr. 11	1800	2210	3.94
Mar. 13	1300	2780	a 4.57	Apr. 25	2100	5560	a 6.23
Mar. 20	1400	* 6920	*a 6.87				

a backwater from debris.

Minimum discharge, 34 ft³/s Sept. 16, 17, 30, gage height, 1.03 ft.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	46	42	119	107	124	100	479	489	1070	64	48	112
2	43	42	113	92	127	466	416	617	634	77	47	76
3	39	43	106	79	760	1760	378	846	387	104	49	57
4	38	45	105	62	1580	1660	675	706	427	82	56	50
5	37	69	103	60	900	1080	743	570	676	76	50	46
6	37	114	97	56	430	690	527	451	481	131	47	44
7	37	89	93	58	235	495	412	371	362	132	52	42
8	58	69	88	63	180	380	388	322	313	97	52	40
9	123	62	82	62	150	340	396	325	257	79	50	38
10	95	57	62	56	130	830	342	430	217	69	50	38
11	72	53	66	674	125	1870	1770	369	193	64	47	37
12	60	52	60	1160	120	2180	1840	346	173	61	94	37
13	55	157	56	705	115	2680	999	312	158	59	138	36
14	63	403	51	440	115	2190	581	301	146	57	92	38
15	77	358	49	235	110	1250	429	282	136	55	68	36
16	68	489	57	150	110	990	380	326	128	53	58	34
17	61	299	105	140	110	834	489	305	127	51	53	34
18	54	191	99	120	105	661	662	249	124	49	48	35
19	50	142	79	115	105	1580	475	214	118	48	45	37
20	47	120	67	110	105	6160	420	232	110	47	43	37
21	49	108	66	105	105	4420	421	368	100	46	41	36
22	47	101	64	99	105	3260	368	295	93	64	42	51
23	46	99	62	115	105	2520	320	329	87	98	43	68
24	44	97	60	478	100	1390	616	541	81	76	43	55
25	44	94	60	566	100	870	4440	460	77	75	41	44
26	43	88	80	445	100	600	4210	337	78	71	39	40
27	42	84	115	315	100	461	2050	314	77	63	39	38
28	43	72	125	215	100	960	1010	1090	76	53	38	37
29	43	90	156	151	---	1550	635	834	76	52	37	36
30	43	116	168	123	---	910	500	706	68	50	37	35
31	44	---	133	118	---	611	---	1390	---	48	74	---
TOTAL	1648	3845	2746	7274	6551	45805	27371	14727	7050	2151	1661	1344
MEAN	53.2	128	88.6	235	234	1470	912	475	235	69.4	53.6	44.8
MAX	123	489	168	1160	1580	6160	4440	1390	1070	132	138	112
MIN	37	42	49	56	100	100	320	214	68	46	37	34
CFSM	.38	.91	.63	1.67	1.66	10.5	6.47	3.37	1.67	.49	.38	.32
IN.	.43	1.01	.72	1.92	1.73	12.08	7.22	3.89	1.86	.57	.44	.35

CAL YR 1982	TOTAL	82835	MEAN 227	MAX 2270	MIN 36	CFSM 1.61	IN 21.85
WTR YR 1983	TOTAL	122173	MEAN 335	MAX 6160	MIN 34	CFSM 2.38	IN 32.23

01064000 PRESUMPCOT 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 downstream from lake outlet.

DRAINAGE AREA.--441 mi².

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, not included in figures of daily discharge. Flow regulated by Long Lake and Sebago Lake, surface area, 45.6 mi², which have a combined usable capacity of 11,000,000,000 ft³.

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

AVERAGE DISCHARGE.--96 years, 661 ft³/s.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	600	423	423	415	423	588	1970	2640	1160	831	562	610
2	600	423	423	415	423	588	1970	2640	1180	844	610	610
3	600	423	423	415	423	588	1970	2640	1160	844	610	610
4	600	423	423	415	423	588	1970	2640	1330	844	610	610
5	588	423	423	415	423	588	1990	2640	2010	610	610	610
6	508	423	423	415	423	588	1650	1970	1990	610	610	610
7	414	423	423	415	423	588	1650	1970	2000	610	610	610
8	414	423	423	415	423	588	1650	1990	2000	610	610	610
9	412	423	423	415	423	588	1650	1320	2000	610	610	610
10	412	423	423	415	423	588	1650	1320	500	610	610	600
11	412	423	423	415	423	588	1650	1320	1000	610	610	600
12	412	423	415	423	423	588	2650	818	1000	610	610	600
13	412	423	423	423	423	588	2650	1320	1000	610	610	600
14	412	415	415	423	592	588	2640	998	844	610	610	600
15	412	423	415	423	580	588	2640	998	819	610	610	600
16	412	423	415	423	580	588	2640	831	844	610	610	600
17	412	423	415	423	580	588	2640	844	844	610	610	600
18	412	423	415	423	592	588	2640	844	844	610	610	610
19	415	423	415	423	588	588	2640	844	844	610	610	610
20	415	423	415	423	588	63	2310	844	844	610	610	610
21	415	423	415	415	588	588	1990	844	844	610	844	610
22	415	423	415	423	588	588	1990	844	844	610	831	610
23	415	423	415	423	588	588	1990	844	844	610	844	610
24	415	423	415	423	588	588	655	844	844	610	831	610
25	415	423	415	423	600	1330	819	844	844	610	831	610
26	415	423	415	423	592	2320	806	844	831	610	844	833
27	415	423	415	423	592	2320	1640	844	844	610	844	833
28	415	423	415	423	592	2320	2640	844	831	554	844	610
29	415	423	415	423	---	2320	2640	844	831	562	844	610
30	415	423	415	423	---	2320	2640	844	831	562	844	600
31	415	---	415	423	---	2320	---	1840	---	562	610	---
TOTAL	13839	12682	12961	13017	14327	28837	61030	41711	32601	19633	21163	18656
MEAN	446	423	418	420	512	930	2034	1346	1087	633	683	622
MAX	600	423	423	423	600	2320	2650	2640	2010	844	844	833
MIN	412	415	415	415	423	63	655	818	500	554	562	600
CAL YR 1982	TOTAL	255846	MEAN	701	MAX	1080	MIN	50				
WTR YR 1983	TOTAL	290457	MEAN	796	MAX	2650	MIN	63				

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 upstream from bridge on Blackstrap Road, 0.1 mi downstream from Maine Turnpike, 0.6 mi downstream from Meader Brook, 0.9 mi upstream from Piscataqua River, and 1.5 mi south of West Falmouth.

DRAINAGE AREA.--598 mi².

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, National Geodetic Vertical Datum of 1929.

REMARKS.--Records fair. Flow regulated by Sebago Lake and many small powerplants upstream.

AVERAGE DISCHARGE.--8 years, 1004 ft³/s.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 12,500 ft³/s Mar. 14, 1977, gage height, 21.11 ft; minimum daily, 39 ft³/s July 9, 1976.

EXTREMES FOR CURRENT YEAR.--Maximum daily discharge, 6,950 ft³/s Mar. 20; minimum daily, 434 ft³/s Oct. 13.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	606	522	594	535	652	706	3240	2970	2350	900	635	838
2	581	522	578	535	635	1690	3120	3330	1880	930	695	864
3	581	518	578	534	1680	3220	3030	3580	1590	960	725	708
4	581	516	578	522	2020	1970	3090	3430	1800	935	700	650
5	557	545	578	468	947	1470	2920	3270	2760	695	695	652
6	527	573	577	513	718	1190	2610	2470	2520	755	755	711
7	544	573	575	540	708	1190	2070	2380	2400	755	755	710
8	576	564	566	528	681	1050	2160	2350	2350	720	720	719
9	608	544	527	467	675	1010	2180	1680	2000	700	695	706
10	576	540	512	508	640	2060	2110	1800	1650	685	685	704
11	542	539	506	1770	618	2880	4090	1730	1220	680	680	585
12	474	531	497	1750	627	3230	3650	1700	1190	675	675	584
13	434	702	479	919	607	3090	3400	1670	1180	675	675	599
14	480	1030	484	720	644	2070	3260	1330	1010	625	675	651
15	581	894	492	642	743	1670	3160	1310	970	670	670	769
16	541	882	521	635	666	1610	3110	1190	985	670	670	774
17	527	702	572	628	712	1520	3150	1180	985	665	665	600
18	517	637	561	623	723	1340	3210	1120	980	665	665	670
19	502	602	547	606	735	3330	3090	1080	975	665	665	688
20	506	609	491	596	735	6950	2830	1100	965	660	660	726
21	519	593	506	588	723	3180	2430	1250	955	660	895	761
22	519	580	523	535	671	4080	2450	1170	950	680	900	718
23	519	576	491	580	674	2670	2350	1210	940	720	955	676
24	519	564	519	1230	719	1820	2340	1450	935	695	915	680
25	519	559	524	1110	723	1950	6080	1360	930	695	915	622
26	519	537	553	889	720	2140	4900	1220	920	690	925	678
27	519	536	591	752	704	2910	3700	1190	930	680	915	1140
28	517	544	558	672	704	3780	3400	2060	915	615	905	1330
29	501	574	573	613	---	4250	3250	1770	915	620	900	866
30	513	617	598	597	---	3540	3080	1630	905	620	849	622
31	521	---	538	627	---	3350	---	2900	---	615	744	---
TOTAL	16526	18225	16787	22232	21804	76916	93460	57380	41055	21975	23578	22001
MEAN	533	608	542	717	779	2481	3115	1851	1369	709	761	733
MAX	608	1030	598	1770	2020	6950	6080	3580	2760	960	955	1330
MIN	434	516	479	467	607	706	2070	1080	905	615	635	584
CAL YR 1982	TOTAL	335757	MEAN	920	MAX	3000	MIN	121				
WTR YR 1983	TOTAL	431939	MEAN	1183	MAX	6950	MIN	434				

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 recorded, 15.0 mg/L Jan 30, 1983; minimum, 4.4 mg/L Aug. 8, 1980.

EXTREMES FOR CURRENT YEAR.--

SPECIFIC CONDUCTANCE: Maximum, 217 micromhos Jan 24; minimum, 47 micromhos Mar. 20.

pH: Maximum, 7.2 units on many days in Jan., Feb., and June; minimum, 6.1 units Mar. 20, 21.

WATER TEMPERATURES: Maximum, 27.0°C July 20, Aug. 7; minimum, 0.0°C on many days during winter period.

DISSOLVED OXYGEN.--Maximum recorded, 15.0 mg/L Jan. 30; minimum recorded, 6.1 mg/L July 22, 23, Aug. 6.

WATER QUALITY DATA, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983

DATE	TIME	STREAM- FLOW, INSTAN- TANEOUS (CFS)	SPE- CIFIC CON- DUCT- ANCE (UMHOS)	PH (UNITS)	TEMPER- ATURE, AIR (DEG C)	TEMPER- ATURE (DEG C)	TUR- BID- ITY (NTU)	BARO- METRIC PRES- SURE (MM OF HG)	OXYGEN, DIS- SOLVED (MG/L)	OXYGEN, (PER- CENT SATUR- ATION)	COLI- FORM, FECAL, 0.7 UM-MF (COLS./ 100 ML)	STREP- TOCOCCI FECAL, KF AGAR (COLS. PER 100 ML)
NOV 03...	1400	514	128	7.1	13.0	12.5	7.3	770	9.6	89	250	240
DEC 21...	1100	506	115	7.1	5.0	1.0	5.9	763	13.2	93	450	180
MAR 29...	1000	4250	55	6.6	9.5	2.0	8.9	775	13.8	98	K100	990
MAY 16...	1530	1190	86	6.9	16.5	11.0	3.0	768	10.8	97	>3000	500
JUN 27...	1630	930	86	7.1	25.0	23.5	1.9	767	8.1	95	1200	450
AUG 31...	1600	787	103	6.9	22.0	22.5	7.1	770	7.3	83	K600	1800

DATE	HARD- NESS (MG/L AS CaCO3)	CALCIUM DIS- SOLVED (MG/L AS Ca)	MAGNE- SIUM, DIS- SOLVED (MG/L AS Mg)	SODIUM, DIS- SOLVED (MG/L AS Na)	POTAS- SIUM, DIS- SOLVED (MG/L AS K)	ALKA- 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)	SOLIDS, RESIDUE AT 180 DEG. C DIS- SOLVED (MG/L)	SOLIDS, SUM OF CONSTITUENTS, DIS- SOLVED (MG/L)
NOV 03...	19	6.4	0.8	18	0.6	28	14	13	<1.0	2.5	81	73
DEC 21...	19	6.0	0.9	17	1.0	19	12	13	0.1	3.3	61	65
MAR 29...	12	3.8	0.7	5.1	0.8	9.0	8.2	6.6	<0.1	3.5	51	34
MAY 16...	16	4.9	0.8	8.2	0.8	14	10	10	<0.1	3.1	59	47
JUN 27...	16	5.2	0.8	9.7	0.8	14	11	11	<0.1	2.4	58	49
AUG 31...	18	5.6	0.9	14	1.2	19	9.6	14	<0.1	2.7	67	60

01064140 PRESUMPCOT RIVER NEAR WEST FALMOUTH, ME--Continued

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983

DATE	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, DIS- SOLVED (MG/L AS P)	PHOS- PHORUS, ORTHO, DIS- SOLVED (MG/L AS P)	ALUM- INUM, DIS- SOLVED (UG/L AS AL)	ARSENIC DIS- SOLVED (UG/L AS AS)	BARIUM, DIS- SOLVED (UG/L AS BA)
NOV 03...	0.17	0.02	0.03	0.9	0.05	0.02	<0.01	30	1	36.00
DEC 21...	0.23	0.04	0.05	<0.1	0.11	0.09	0.08	---	---	---
MAR 29...	0.18	0.03	0.04	0.2	0.03	<0.01	<0.01	80	1	9.00
MAY 16...	0.14	0.04	0.05	0.2	0.03	<0.01	<0.01	50	<1	10.00
JUN 27...	0.11	0.02	0.03	0.4	0.04	0.02	0.01	---	---	---
AUG 31...	0.14	0.01	0.01	0.8	0.09	0.02	0.06	70	1	19.00

DATE	BERYL- LIUM, DIS- SOLVED (UG/L AS BE)	CADMIUM DIS- SOLVED (UG/L AS CD)	CHRO- MIUM, DIS- SOLVED (UG/L AS CR)	CORAL, DIS- SOLVED (UG/L AS CO)	COPPER, DIS- SOLVED (UG/L AS CU)	IRON, DIS- SOLVED (UG/L AS FE)	LEAD, DIS- SOLVED (UG/L AS PB)	LITHIUM DIS- SOLVED (UG/L AS LI)	MANGA- NESE, DIS- SOLVED (UG/L AS MN)	MERCURY DIS- SOLVED (UG/L AS HG)
NOV 03...	1.30	<1	<1	<3.00	1	60	<1	<4.00	24	<0.1
DEC 21...	---	---	---	---	---	---	---	---	---	---
MAR 29...	<1.00	<1	<1	<3.00	2	70	11	<4.00	12	0.2
MAY 16...	0.50	1	2	3.00	2	60	6	4.00	21	<0.1
JUN 27...	---	---	---	---	---	---	---	---	---	---
AUG 31...	<0.50	<1	<1	<3.00	2	80	<1	<4.00	35	<0.1

DATE	MOLYB- DENUM, DIS- SOLVED (UG/L AS MO)	NICKEL, DIS- SOLVED (UG/L AS NI)	SELE- NIUM, DIS- SOLVED (UG/L AS SE)	SILVER, DIS- SOLVED (UG/L AS AG)	STRON- TIUM, DIS- SOLVED (UG/L AS SR)	VANA- DIUM, DIS- SOLVED (UG/L AS V)	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
NOV 03...	<10	1	<1	2	30	<6.0	20	7	9.7	89
DEC 21...	---	---	---	---	---	---	---	4	5.5	76
MAR 29...	<10	1	<1	<1	20	<6.0	4.00	28	321	80
MAY 16...	10	7	<1	<1	30	6.0	3.00	11	35	18
JUN 27...	---	---	---	---	---	---	---	---	---	---
AUG 31...	<10	1	<1	<1	30	6.0	10	---	---	---

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PRESUMPCOT RIVER BASIN

01064140 PRESUMPCOT RIVER NEAR WEST FALMOUTH, ME--Continued

SPECIFIC CONDUCTANCE (MICROMHOS/CM AT 25 DEG. C), WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
OCTOBER			NOVEMBER			DECEMBER			JANUARY			
1	127	105	113	128	120	123	122	94	115	148	108	125
2	110	86	101	130	107	121	120	104	112	131	110	126
3	112	99	109	144	121	132	131	100	119	128	120	125
4	115	95	103	145	107	132	129	120	125	138	122	132
5	119	106	112	139	100	124	129	115	123	152	117	131
6	127	112	119	131	116	126	131	117	125	144	127	133
7	117	105	110	127	122	124	128	119	124	147	126	134
8	137	112	128	125	120	122	128	99	122	151	123	136
9	120	98	111	125	114	120	130	102	113	169	131	142
10	132	108	119	128	104	118	135	105	114	160	119	132
11	135	104	118	125	114	119	---	---	---	151	66	110
12	157	112	123	127	109	121	---	---	---	89	75	82
13	168	120	133	145	101	128	---	---	---	127	86	107
14	160	112	140	114	89	103	---	---	---	---	---	---
15	120	110	116	123	108	114	---	---	---	---	---	---
16	125	110	115	120	105	113	---	---	---	---	---	---
17	128	117	122	119	106	113	---	---	---	---	---	---
18	134	115	124	136	110	121	---	---	---	---	---	---
19	154	130	137	134	122	127	---	---	---	---	---	---
20	135	118	123	135	122	130	---	---	---	126	117	121
21	127	118	124	127	119	122	---	---	---	126	118	123
22	133	125	128	125	104	120	---	---	---	150	119	131
23	129	121	125	130	110	124	---	---	---	178	113	129
24	123	115	119	130	115	123	125	97	108	217	89	131
25	121	112	117	128	117	122	116	97	106	103	88	94
26	114	109	112	139	120	129	133	91	116	101	91	95
27	116	106	111	137	94	115	110	88	97	118	96	106
28	137	109	116	123	97	114	138	103	115	112	106	109
29	129	106	114	128	109	117	124	110	118	117	108	112
30	124	115	119	120	109	114	135	103	114	114	108	112
31	126	115	119	---	---	---	152	121	131	165	111	137
MONTH	168	86	119	145	89	121	152	88	117	217	66	121

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
FEBRUARY			MARCH			APRIL			MAY			
1	117	102	111	---	---	---	60	52	56	58	55	56
2	118	106	113	---	---	---	60	55	57	60	56	58
3	138	74	104	67	59	63	66	54	57	60	55	57
4	83	73	77	83	63	75	66	60	63	58	55	56
5	120	95	99	86	77	82	67	59	64	58	55	57
6	---	---	---	94	79	86	66	54	61	60	55	57
7	---	---	---	92	86	89	76	63	67	62	58	60
8	---	---	---	94	86	90	68	62	65	63	59	61
9	---	---	---	99	81	89	65	62	64	68	58	62
10	---	---	---	98	68	85	71	61	64	67	63	64
11	---	---	---	65	60	62	74	56	61	79	64	68
12	121	105	115	76	56	63	59	55	57	119	69	83
13	115	106	111	65	55	59	57	50	55	72	66	68
14	113	93	105	74	63	68	55	52	54	81	72	77
15	101	68	88	78	70	74	57	53	55	82	76	78
16	111	94	102	85	78	81	57	54	55	84	77	80
17	98	87	94	84	80	81	58	54	55	87	79	83
18	126	85	102	92	80	85	58	54	56	87	80	84
19	112	95	100	97	60	82	57	54	55	88	82	86
20	102	92	96	58	47	51	63	55	59	91	82	88
21	100	78	93	70	50	57	62	57	59	85	75	81
22	120	95	102	64	58	61	63	58	60	90	82	85
23	133	105	116	73	63	68	63	59	61	101	83	92
24	127	105	113	77	67	72	89	60	69	90	81	85
25	107	96	103	74	69	71	66	51	57	87	83	85
26	106	85	99	69	56	65	53	48	51	85	81	82
27	108	87	100	58	54	56	57	52	55	97	84	89
28	---	---	---	80	52	60	57	54	56	89	72	77
29	---	---	---	58	54	56	56	54	55	88	78	81
30	---	---	---	59	55	57	59	55	57	90	80	86
31	---	---	---	57	54	56	---	---	---	85	73	80
MONTH	138	68	102	99	47	70	89	48	59	119	55	74

01064140 PRESUMPCOT RIVER NEAR WEST FALMOUTH, ME--Continued

SPECIFIC CONDUCTANCE (MICROMHOS/CM AT 25 DEG. C). WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
	JUNE			JULY			AUGUST			SEPTEMBER		
1	71	61	67	88	83	85	117	98	113	111	95	104
2	79	69	75	88	77	82	112	96	106	104	94	99
3	80	65	73	90	76	81	117	89	95	108	96	103
4	71	61	65	95	81	86	101	93	96	107	99	103
5	66	57	63	107	91	97	110	97	103	106	95	101
6	64	59	61	116	86	101	108	96	100	102	85	97
7	62	54	57	100	83	96	102	96	99	103	91	94
8	62	54	57	109	100	105	---	---	---	98	83	92
9	66	57	62	108	99	103	---	---	---	101	84	94
10	66	58	62	102	96	98	---	---	---	105	89	96
11	74	61	68	111	95	101	106	93	99	104	99	102
12	77	72	74	114	96	103	103	85	95	109	99	103
13	85	76	81	111	93	100	101	83	92	109	100	103
14	98	69	80	104	95	98	109	100	105	101	91	97
15	97	87	92	107	97	101	115	86	104	99	82	90
16	106	95	100	100	93	96	116	100	111	129	88	97
17	110	100	104	102	95	99	119	113	115	135	95	104
18	102	97	99	121	96	103	113	93	106	101	96	99
19	104	101	103	108	96	101	112	92	101	100	93	97
20	104	97	100	102	91	95	118	95	110	101	94	98
21	112	77	103	98	85	94	106	92	99	106	94	101
22	106	71	93	112	87	100	103	92	97	114	100	109
23	108	74	97	103	80	97	---	---	---	113	95	104
24	106	82	88	97	91	94	---	---	---	104	89	99
25	91	85	88	101	88	96	---	---	---	118	104	111
26	89	85	86	110	95	104	102	95	98	113	91	104
27	92	86	87	111	101	106	99	89	94	100	76	91
28	90	82	86	104	87	92	96	83	91	95	78	85
29	83	78	81	111	85	96	100	86	92	110	96	101
30	86	77	82	113	95	108	103	91	97	113	102	108
31	---	---	---	117	100	112	117	96	106	---	---	---
MONTH	112	54	81	121	76	98	119	83	101	135	76	100
YEAR	217	47	96									

PH (STANDARD UNITS). WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
	OCTOBER			NOVEMBER			DECEMBER			JANUARY		
1				---	---	---	6.9	6.8	6.9	7.1	7.0	7.0
2				---	---	---	6.9	6.8	6.8	7.0	6.9	7.0
3				---	---	---	6.9	6.8	6.9	7.1	7.0	7.0
4				7.0	6.9	7.0	7.0	6.8	6.9	7.2	7.1	7.1
5				7.0	6.9	7.0	7.0	6.9	6.9	7.1	7.0	7.0
6				7.0	6.9	7.0	6.9	6.9	6.9	7.0	7.0	7.0
7				7.0	6.9	6.9	7.0	6.8	6.9	7.0	7.0	7.0
8				6.9	6.9	6.9	7.0	6.9	6.9	7.1	7.1	7.1
9				7.0	6.9	7.0	7.0	6.9	6.9	7.2	7.1	7.1
10				7.0	6.9	7.0	7.0	7.0	7.0	7.2	7.1	7.1
11				6.9	6.9	6.9	---	---	---	7.1	6.7	6.9
12				6.9	6.8	6.9	---	---	---	6.9	6.7	6.8
13				6.9	6.7	6.8	---	---	---	7.0	6.8	6.9
14				6.7	6.6	6.7	---	---	---	---	---	---
15				6.7	6.7	6.7	---	---	---	---	---	---
16				6.7	6.7	6.7	---	---	---	---	---	---
17				6.8	6.7	6.8	---	---	---	---	---	---
18				6.9	6.8	6.8	---	---	---	---	---	---
19				6.9	6.8	6.8	---	---	---	---	---	---
20				6.9	6.8	6.9	---	---	---	7.1	7.1	7.1
21				6.9	6.8	6.8	---	---	---	7.1	7.0	7.1
22				6.9	6.8	6.8	---	---	---	7.1	7.0	7.0
23				6.9	6.8	6.9	---	---	---	7.1	7.0	7.0
24				6.9	6.8	6.9	7.1	7.0	7.0	7.0	6.8	6.9
25				6.9	6.9	6.9	7.0	6.9	7.0	6.9	6.8	6.9
26				6.9	6.9	6.9	7.0	6.9	7.0	6.9	6.8	6.8
27				6.9	6.9	6.9	7.1	7.0	7.0	7.0	6.9	6.9
28				7.0	6.9	6.9	7.1	7.0	7.0	7.1	6.8	7.0
29				6.9	6.8	6.9	7.0	7.0	7.0	7.1	7.0	7.1
30				6.9	6.8	6.9	7.0	7.0	7.0	7.2	7.1	7.1
31				---	---	---	7.1	7.0	7.0	7.1	7.1	7.1
MONTH				7.0	6.6	6.9	7.1	6.8	6.9	7.2	6.7	7.0

PH (STANDARD UNITS), WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983

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

01064140 PRESUMPCOT RIVER NEAR WEST FALMOUTH, ME--Continued

TEMPERATURE, WATER (DEG. C), WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
OCTOBER			NOVEMBER			DECEMBER			JANUARY			
1	19.0	17.0	18.0	12.5	11.5	12.0	5.5	5.0	5.0	3.5	3.0	3.0
2	19.0	17.0	17.5	12.5	11.5	12.0	6.0	5.0	5.5	3.5	3.0	3.5
3	17.5	16.5	17.0	13.0	12.0	12.5	6.0	5.5	5.5	3.5	3.0	3.5
4	18.0	16.5	17.0	13.5	12.5	13.0	7.5	6.0	6.5	3.0	2.0	2.0
5	17.5	16.5	17.0	14.0	13.0	13.5	7.5	6.5	7.0	3.0	1.5	2.0
6	18.0	16.0	17.0	13.0	12.0	12.5	8.0	7.0	7.5	2.5	2.0	2.5
7	17.0	16.5	17.0	12.0	10.5	11.5	8.0	7.5	7.5	3.0	2.5	3.0
8	16.5	15.5	16.0	11.5	10.0	10.5	7.5	6.5	7.0	3.5	2.5	3.0
9	16.0	14.5	15.5	11.0	10.0	10.5	6.5	5.0	6.0	2.5	1.5	2.0
10	14.5	13.5	14.0	10.0	9.5	10.0	5.0	4.5	4.5	2.0	1.5	2.0
11	14.5	13.0	13.5	9.5	8.5	9.0	---	---	---	3.0	2.0	2.5
12	14.5	12.5	13.5	10.0	9.0	9.5	---	---	---	2.0	1.0	1.5
13	14.0	13.0	13.5	10.5	9.0	10.0	---	---	---	2.0	1.5	2.0
14	14.5	13.5	14.0	9.0	8.0	8.5	---	---	---	---	---	---
15	14.0	13.0	13.5	8.0	7.0	7.5	---	---	---	---	---	---
16	13.5	12.5	13.5	7.0	6.0	6.5	---	---	---	---	---	---
17	13.0	12.5	13.0	6.5	5.5	6.0	---	---	---	---	---	---
18	12.5	11.5	12.5	6.5	5.5	6.0	---	---	---	---	---	---
19	13.0	11.5	12.5	7.0	6.0	6.0	---	---	---	---	---	---
20	13.0	11.5	12.5	7.0	6.5	6.5	---	---	---	2.0	1.0	1.5
21	13.5	12.5	13.0	7.5	7.0	7.0	---	---	---	2.0	1.0	1.5
22	13.0	12.0	12.5	8.0	7.5	8.0	---	---	---	2.5	1.5	2.0
23	12.0	11.0	11.5	8.5	8.0	8.5	---	---	---	2.0	1.5	2.0
24	11.5	10.5	11.0	9.0	8.5	8.5	2.0	1.5	1.5	2.0	1.0	1.5
25	10.5	10.0	10.5	8.5	7.5	8.0	2.5	1.5	2.0	2.0	1.0	1.5
26	11.0	10.0	10.5	7.5	7.0	7.0	3.5	2.5	3.0	2.0	1.5	1.5
27	11.0	9.5	10.0	7.0	5.5	6.0	3.5	2.5	3.0	2.0	1.0	1.5
28	11.0	9.5	10.0	5.5	5.0	5.5	4.0	3.0	3.5	2.0	1.0	1.5
29	11.0	10.0	10.5	5.5	5.0	5.0	4.0	3.5	4.0	2.0	1.0	1.5
30	11.5	10.5	11.0	5.5	5.0	5.0	4.0	3.5	4.0	2.5	1.5	2.0
31	12.0	11.0	11.5	---	---	---	4.0	3.0	3.5	2.5	2.0	2.0
MONTH	19.0	9.5	13.5	14.0	5.0	8.5	8.0	1.5	5.0	3.5	1.0	2.0

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

PRESUMPCOT RIVER BASIN

01064140 PRESUMPCOT RIVER NEAR WEST FALMOUTH, ME--Continued

TEMPERATURE, WATER (DEG. C), WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
	JUNE			JULY			AUGUST			SEPTEMBER		
1	13.5	12.0	12.5	23.5	22.0	23.0	26.0	25.0	25.5	23.5	22.5	22.5
2	14.0	13.5	14.0	24.0	22.5	23.5	26.0	25.0	25.5	23.5	22.0	22.5
3	15.0	14.0	14.5	24.5	23.5	24.0	26.5	25.0	25.5	24.0	22.5	23.0
4	14.5	14.0	14.0	25.5	23.5	24.0	26.5	25.0	25.5	24.0	22.5	23.5
5	14.0	13.5	13.5	26.0	24.5	25.0	26.5	25.5	26.0	24.5	23.0	23.5
6	14.5	13.0	14.0	25.5	24.5	25.0	26.5	25.5	26.0	25.0	23.5	24.0
7	15.0	14.0	14.5	24.5	23.5	24.0	27.0	25.5	26.0	25.5	24.0	25.0
8	15.0	14.5	15.0	25.0	23.0	24.0	---	---	---	25.0	23.5	24.5
9	15.0	14.5	15.0	25.5	24.0	24.5	---	---	---	24.5	23.0	23.5
10	15.5	15.0	15.0	24.5	23.5	24.0	---	---	---	25.0	23.5	24.0
11	17.0	14.5	15.5	24.5	23.0	24.0	25.5	24.5	25.0	25.5	24.0	24.5
12	18.0	15.5	17.0	24.5	23.5	24.0	24.5	22.0	23.0	25.0	24.0	24.5
13	19.0	17.0	18.0	25.0	23.5	24.0	22.5	21.5	22.0	24.5	23.5	24.0
14	19.5	17.5	18.5	25.0	23.5	24.5	22.5	21.0	21.5	23.5	22.0	22.5
15	20.0	18.0	19.0	25.5	24.0	24.5	22.5	21.0	21.5	22.5	21.0	21.5
16	20.0	18.5	19.5	25.5	24.5	25.0	22.5	21.0	22.0	21.5	20.5	21.0
17	19.5	18.5	19.0	26.0	24.5	25.5	23.5	21.5	22.5	21.0	20.0	20.5
18	20.0	19.0	19.5	26.5	24.5	25.5	23.5	22.5	23.0	21.0	20.0	20.5
19	21.0	19.0	20.0	26.5	25.0	26.0	24.5	22.5	23.5	21.5	20.0	21.0
20	22.0	20.0	21.0	27.0	25.5	26.0	25.0	23.5	24.0	22.0	21.0	21.5
21	23.0	20.5	21.5	26.5	25.5	26.0	24.5	23.5	24.0	22.5	21.0	21.5
22	23.5	21.5	22.5	26.0	25.0	25.0	24.0	22.5	23.0	22.0	21.5	22.0
23	24.0	22.0	23.5	25.0	24.0	24.5	---	---	---	21.5	20.5	21.0
24	25.0	23.5	24.0	24.5	23.5	23.5	---	---	---	20.5	19.5	20.0
25	24.0	23.5	24.0	23.5	23.0	23.5	---	---	---	20.5	19.0	19.5
26	24.0	23.0	23.5	24.5	23.0	23.5	23.0	21.5	22.5	19.5	18.5	19.0
27	24.0	23.0	23.5	25.0	23.5	24.0	24.0	22.5	23.0	19.0	18.0	18.5
28	23.0	22.5	22.5	25.5	24.0	24.5	24.5	23.0	24.0	19.0	18.0	18.5
29	23.0	21.5	22.0	25.0	24.5	24.5	24.5	23.5	24.0	19.0	17.5	18.0
30	23.5	22.0	22.5	25.5	24.5	25.0	24.0	23.5	23.5	18.5	17.5	18.0
31	---	---	---	26.0	24.5	25.0	23.5	23.0	23.0	---	---	---
MONTH	25.0	12.0	18.5	27.0	22.0	24.5	27.0	21.0	24.0	25.5	17.5	22.0
YEAR	27.0	.0	12.0									

OXYGEN, DISSOLVED (DO), MG/L, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
	OCTOBER			NOVEMBER			DECEMBER			JANUARY		
1	9.3	8.9	9.1	9.8	9.4	9.6	---	---	---	13.9	13.7	13.8
2	9.2	8.8	9.0	9.5	9.2	9.4	---	---	---	13.8	13.5	13.7
3	9.4	9.0	9.2	9.5	9.2	9.3	---	---	---	13.7	13.5	13.6
4	9.4	9.0	9.2	9.4	9.2	9.3	---	---	---	14.2	13.6	13.9
5	9.4	9.0	9.2	9.2	8.7	8.9	---	---	---	14.3	14.0	14.2
6	9.3	9.0	9.2	9.2	8.8	9.0	---	---	---	14.1	13.9	14.0
7	9.5	9.1	9.3	9.6	9.1	9.4	---	---	---	13.8	13.5	13.7
8	9.7	9.1	9.3	9.8	9.1	9.6	---	---	---	13.8	13.5	13.6
9	9.6	9.2	9.5	9.9	9.3	9.7	---	---	---	14.2	13.8	14.0
10	9.9	9.6	9.8	10.2	9.8	10.0	---	---	---	14.4	14.0	14.2
11	10.0	9.7	9.9	10.5	10.0	10.3	---	---	---	14.2	13.4	13.9
12	9.9	9.5	9.8	10.7	10.1	10.4	---	---	---	14.2	14.1	14.1
13	9.8	9.4	9.6	---	---	---	---	---	---	14.1	14.0	14.1
14	9.6	9.0	9.3	---	---	---	---	---	---	---	---	---
15	9.6	9.2	9.4	---	---	---	---	---	---	---	---	---
16	9.4	9.2	9.3	---	---	---	---	---	---	---	---	---
17	9.6	9.2	9.4	---	---	---	---	---	---	---	---	---
18	9.8	9.5	9.6	---	---	---	---	---	---	---	---	---
19	9.8	9.4	9.7	---	---	---	---	---	---	---	---	---
20	9.8	9.4	9.6	---	---	---	---	---	---	---	---	---
21	9.6	9.2	9.4	---	---	---	---	---	---	---	---	---
22	9.9	9.3	9.6	---	---	---	---	---	---	---	---	---
23	9.9	9.6	9.8	---	---	---	---	---	---	---	---	---
24	10.1	9.8	10.0	---	---	---	14.3	14.0	14.2	---	---	---
25	10.4	9.9	10.1	---	---	---	14.2	13.9	14.1	---	---	---
26	10.2	9.9	10.0	---	---	---	13.9	13.7	13.8	---	---	---
27	10.2	9.9	10.1	---	---	---	14.0	13.7	13.8	---	---	---
28	10.4	9.9	10.1	---	---	---	13.8	13.6	13.8	---	---	---
29	10.2	9.8	9.9	---	---	---	13.5	13.4	13.4	14.8	14.5	14.6
30	10.0	9.6	9.8	---	---	---	13.7	13.3	13.6	15.0	14.7	14.9
31	9.8	9.4	9.6	---	---	---	13.9	13.6	13.8	14.9	14.6	14.7
MONTH	10.4	8.8	9.6	10.7	8.7	9.6	14.3	13.3	13.8	15.0	13.4	14.1

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
FEBRUARY				MARCH			APRIL			MAY		
1	14.9	14.7	14.8	---	---	---	---	---	---	11.8	11.6	11.7
2	14.8	14.5	14.7	---	---	---	---	---	---	11.7	11.3	11.5
3	14.6	14.1	14.4	14.5	14.3	14.4	---	---	---	11.4	11.0	11.3
4	14.6	14.5	14.6	14.6	14.4	14.5	---	---	---	11.0	10.9	11.0
5	14.5	13.5	14.0	14.6	14.5	14.5	---	---	---	11.4	11.0	11.2
6	---	---	---	14.5	14.1	14.4	---	---	---	11.8	11.1	11.4
7	---	---	---	14.3	14.2	14.2	---	---	---	11.6	11.2	11.4
8	---	---	---	14.3	14.1	14.2	---	---	---	11.4	10.9	11.2
9	---	---	---	14.1	13.9	14.0	---	---	---	11.1	10.8	11.0
10	---	---	---	14.2	13.9	14.0	---	---	---	11.6	11.1	11.4
11	---	---	---	14.5	14.2	14.3	---	---	---	11.8	11.4	11.6
12	14.3	14.2	14.2	14.3	13.9	14.2	---	---	---	11.5	10.5	11.2
13	14.3	14.1	14.2	14.2	13.9	14.1	---	---	---	11.3	11.1	11.2
14	14.2	13.9	14.1	14.3	13.9	14.1	---	---	---	11.1	10.8	11.0
15	14.0	13.9	13.9	14.1	13.9	14.0	---	---	---	10.9	10.5	10.7
16	14.1	13.9	14.0	14.3	13.9	14.1	---	---	---	10.9	10.7	10.8
17	14.0	13.8	13.9	14.3	13.9	14.1	---	---	---	10.8	10.7	10.8
18	13.9	13.8	13.8	13.9	13.5	13.8	---	---	---	10.8	10.5	10.7
19	14.0	13.8	13.9	13.4	12.8	13.0	---	---	---	10.7	10.3	10.5
20	14.1	13.9	14.0	13.4	13.2	13.3	---	---	---	---	---	---
21	14.0	13.7	13.9	13.3	12.7	13.1	---	---	---	---	---	---
22	13.8	13.6	13.7	13.0	12.7	12.9	---	---	---	---	---	---
23	13.8	13.5	13.6	13.2	12.8	13.0	---	---	---	---	---	---
24	13.7	13.5	13.6	13.4	13.0	13.1	---	---	---	---	---	---
25	13.8	13.7	13.7	14.2	13.1	13.7	---	---	---	---	---	---
26	13.9	13.7	13.8	14.2	13.9	14.1	---	---	---	---	---	---
27	14.0	13.8	13.9	14.5	14.1	14.3	---	---	---	---	---	---
28	---	---	---	14.2	13.9	14.0	11.8	11.3	11.5	---	---	---
29	---	---	---	---	---	---	11.6	11.4	11.5	---	---	---
30	---	---	---	---	---	---	11.8	11.5	11.7	---	---	---
31	---	---	---	---	---	---	---	---	---	---	---	---
MONTH	14.9	13.5	14.0	14.6	12.7	13.9	11.8	11.3	11.6	11.8	10.3	11.1
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
JUNE				JULY			AUGUST			SEPTEMBER		
1	---	---	---	8.3	8.1	8.2	6.7	6.4	6.5	7.2	6.4	7.0
2	---	---	---	8.2	7.8	8.1	6.7	6.3	6.6	8.0	7.2	7.6
3	11.8	11.6	11.7	8.0	7.7	8.0	6.6	6.3	6.6	7.6	7.5	7.6
4	12.0	11.7	11.8	8.0	7.7	7.9	6.6	6.4	6.5	7.8	7.5	7.6
5	12.4	12.0	12.2	7.7	7.3	7.6	6.5	6.2	6.3	7.7	7.4	7.6
6	12.4	11.9	12.2	7.7	7.0	7.4	6.5	6.1	6.4	7.7	7.4	7.5
7	11.8	11.4	11.7	8.1	7.6	8.0						

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 downstream from Swift River and Conway.

DRAINAGE AREA.--385 mi².

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 National Geodetic Vertical Datum of 1929. Aug. 26, 1903, to June 30, 1912, nonrecording gage at site 0.8 mi downstream at different datum.

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

AVERAGE DISCHARGE.--60 years (water years 1904-09, 1930-83), 933 ft³/s (32.91 in/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 43,900 ft³/s Mar. 27, 1953, gage height, 17.20 ft (from rating curve extended above 23,000 ft³/s on basis of slope-area measurement of peak flow); maximum gage height, 19.03 ft Mar. 7, 1979, (ice jam); minimum discharge, 40 ft³/s Mar. 16, 1932, gage height, 1.61 ft.

EXTREMES FOR CURRENT YEAR.--Peak discharges above base of 8,700 ft³/s and maximum (*):

Date	Time	Discharge (ft ³ /s)	Gage height (ft)	Date	Time	Discharge (ft ³ /s)	Gage height (ft)
Jan. 11	1430	12200	a 9.10	Apr. 25	1000	11100	8.78
Mar. 20	--	* 13600	b 9.53	May 3	1200	9950	8.40

a from peak stage indicator.

b from high water mark

Minimum discharge, 125 ft³/s Sept. 15, 16, 21, gage height, 2.04 ft.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	293	221	655	494	620	457	1040	5650	2800	317	199	453
2	265	238	606	480	600	1130	1030	6210	2070	316	300	290
3	248	380	598	456	1370	2520	1080	8400	1650	440	288	229
4	238	335	595	350	1760	1190	1110	6110	1740	351	240	201
5	227	2100	586	291	1600	898	1230	4030	2200	328	214	185
6	219	1920	547	310	1500	807	1410	3020	1660	651	237	174
7	213	949	596	320	1400	750	1490	2520	1410	607	274	165
8	507	706	526	310	1200	740	1440	2360	1250	419	284	156
9	802	592	481	300	1100	752	2270	3340	1100	357	401	145
10	579	515	328	290	1000	862	2130	2980	994	322	408	142
11	450	465	290	5000	900	1710	2070	2100	915	329	280	141
12	381	439	280	3940	880	3040	2470	1820	840	289	820	146
13	347	2170	270	2150	840	2920	2050	1630	781	273	560	143
14	336	1910	260	1570	780	1940	2230	1640	752	259	380	136
15	321	1170	390	1490	750	1700	2100	1610	713	241	300	133
16	311	913	943	1250	720	1620	1820	1790	947	229	280	129
17	310	773	2450	1100	670	1580	2850	1430	815	215	260	134
18	294	691	1120	950	630	1380	2840	1210	777	205	244	147
19	282	631	890	870	620	3800	2140	1100	753	201	228	153
20	277	588	860	800	600	10800	2100	1340	631	194	213	144
21	281	568	666	830	580	4820	2040	1790	562	190	192	134
22	289	626	630	880	560	4960	1750	1400	514	376	184	419
23	271	810	550	929	540	3320	1790	1640	475	530	203	487
24	256	903	520	1590	525	2330	2410	1990	438	301	193	292
25	250	808	529	1850	507	1870	9520	1580	418	271	178	234
26	244	683	731	1420	482	1590	6190	1330	414	248	170	206
27	239	626	699	1090	477	1400	4220	1330	394	218	168	218
28	234	504	592	900	467	1300	4110	2150	396	203	184	182
29	230	596	631	750	---	1200	5400	1660	379	195	193	172
30	227	681	592	680	---	1100	6190	1970	345	195	176	162
31	223	---	487	640	---	1060	---	3660	---	190	268	---
TOTAL	9644	24511	19898	34280	23678	65547	80520	80790	29133	9460	8519	6052
MEAN	311	817	642	1106	846	2114	2684	2606	971	305	275	202
MAX	802	2170	2450	5000	1760	10800	9520	8400	2800	651	820	487
MIN	213	221	260	290	467	457	1030	1100	345	190	168	129
CFSM	.81	2.12	1.67	2.87	2.20	5.42	6.97	6.77	2.52	.79	.71	.53
IN.	.93	2.37	1.92	3.31	2.29	6.33	7.78	7.81	2.81	.91	.82	.58

CAL YR 1982	TOTAL	294293	MEAN	806	MAX	11500	MIN	168	CFSM	2.09	IN	28.44
WTR YR 1983	TOTAL	392032	MEAN	1074	MAX	10800	MIN	129	CFSM	2.79	IN	37.88

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 upstream from bridge on State Highway 153 at Effingham Falls, 0.3 mi downstream from outlet of Ossipee Lake, and 4 mi northwest of Effingham.

DRAINAGE AREA.--330 mi².

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, from topographic map.

REMARKS.--Records good. Flow regulated by Ossipee and Silver Lakes and Pine River Pond, combined capacity, 1,430,000,000 ft³. Several observations of water temperature and specific conductance were made during the year.

AVERAGE DISCHARGE.--41 years, 690 ft³/s.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 11,700 ft³/s Mar. 28, 1953, gage height, 11.64 ft; minimum, about 5 ft³/s during part of several days Nov. 4-20, 1968 (caused by unusual regulation); minimum daily, 11 ft³/s Oct. 10, 1944.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 3,740 ft³/s Mar. 21, gage height, 7.95 ft; minimum, 166 ft³/s Sept. 30; minimum daily, 167 ft³/s Sept. 30

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	414	273	274	410	622	261	1300	2140	1930	262	209	185
2	410	271	276	408	599	361	1210	2140	1910	267	211	185
3	400	229	278	402	646	562	1190	2330	1790	267	209	186
4	360	191	280	325	1280	801	1220	2490	1940	271	207	186
5	300	241	281	310	1780	886	1250	2450	2050	259	210	186
6	300	279	281	310	1730	868	1300	2300	1800	262	216	185
7	300	352	283	310	1610	837	1330	2070	1620	250	216	185
8	350	341	283	315	1450	810	1350	1840	1520	222	208	183
9	370	401	282	315	1250	796	1370	1660	1380	221	206	183
10	430	531	281	318	1100	791	1370	1540	1020	222	204	182
11	420	598	281	441	950	842	1440	1370	809	221	204	181
12	400	585	280	967	820	1010	1560	1270	773	221	207	180
13	413	585	279	1300	730	1540	1680	1210	568	219	209	180
14	411	601	278	1290	680	1910	1720	1140	403	219	228	178
15	410	734	277	1180	630	1950	1820	1080	422	253	242	177
16	408	764	278	1090	611	1870	1800	919	350	284	220	176
17	406	676	281	919	589	1770	1750	788	413	239	226	176
18	403	671	287	770	578	1670	1830	508	484	219	226	181
19	398	731	289	714	553	1730	1820	414	487	221	207	181
20	327	746	291	669	532	2720	1770	421	424	229	209	180
21	279	716	292	594	511	3630	1720	430	347	226	205	178
22	278	642	294	520	498	3720	1520	441	296	217	202	179
23	278	476	294	516	481	3560	1390	887	270	351	203	176
24	276	358	294	600	469	3200	1360	1170	264	346	201	172
25	276	465	296	697	455	2820	1840	1170	263	211	199	172
26	276	462	295	752	444	2480	2510	1150	261	211	201	171
27	275	359	292	755	428	2150	2650	1110	262	211	209	170
28	273	270	297	735	325	1920	2550	1100	261	210	208	169
29	273	271	297	700	---	1750	2390	1110	261	211	200	168
30	273	273	300	667	---	1600	2230	1160	260	211	193	167
31	273	---	368	645	---	1460	---	1750	---	209	184	---
TOTAL	10660	14092	8939	19944	22351	52275	50240	41558	24838	7442	6479	5358
MEAN	344	470	288	643	798	1686	1675	1341	828	240	209	179
MAX	430	764	368	1300	1780	3720	2650	2490	2050	351	242	186
MIN	273	191	274	310	325	261	1190	414	260	209	184	167
CAL YR 1982	TOTAL	233988	MEAN	641	MAX	3570	MIN	191				
WTR YR 1983	TOTAL	264176	MEAN	724	MAX	3720	MIN	167				

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 downstream from highway bridge in Cornish and 1.3 mi upstream from mouth.

DRAINAGE AREA.--452 mi².

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

AVERAGE DISCHARGE.--67 years, 877 ft³/s.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 17,200 ft³/s Mar. 21, 1936, gage height, 16.32 ft present datum, from rating curve extended above 7,500 ft³/s; minimum daily, 65 ft³/s Sept. 8, 1929.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 6,130 ft³/s Mar. 20, gage height, 8.47 ft; minimum daily, 185 ft³/s Sept. 29, 30.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	432	292	334	438	713	417	1930	2600	2550	334	254	261
2	427	288	330	436	686	592	1700	2790	2390	341	264	236
3	423	288	326	425	1070	1190	1670	3030	2200	338	254	227
4	406	227	330	410	1670	1230	1920	3030	2250	345	245	224
5	315	254	326	405	2070	1290	1870	2950	2660	348	242	224
6	307	354	335	395	2000	1230	1800	2740	2390	465	258	218
7	303	342	330	395	1850	1200	1780	2510	1990	404	264	216
8	370	423	328	385	1680	1150	1780	2280	1890	334	248	213
9	471	350	320	385	1540	1120	1780	2080	1710	303	245	210
10	458	498	308	380	1400	1220	1750	1930	1490	297	239	210
11	449	614	312	896	1240	1550	2320	1790	1070	297	239	210
12	440	609	310	1280	1100	2160	2480	1630	1010	287	359	196
13	436	712	310	1560	1000	2700	2280	1560	937	287	352	201
14	449	760	305	1480	930	2810	2220	1490	609	277	280	204
15	444	794	305	1370	865	2800	2210	1420	744	273	300	196
16	432	936	324	1270	835	2690	2270	1340	744	338	250	196
17	427	771	354	1150	795	2530	2250	1140	644	310	254	199
18	423	738	345	1030	775	2360	2320	875	711	270	273	201
19	414	766	340	935	751	3380	2270	644	680	261	254	207
20	402	822	335	875	720	5460	2220	675	649	270	239	204
21	311	788	334	805	693	4970	2160	727	516	270	236	204
22	300	738	331	735	672	5630	2000	685	486	280	236	227
23	296	659	323	670	658	4910	1760	937	385	287	236	224
24	292	382	327	790	646	4240	1800	1540	389	457	236	207
25	296	489	327	943	626	3670	2950	1500	363	300	230	199
26	292	503	346	951	608	3210	3100	1440	366	261	230	196
27	292	484	347	905	595	2820	3150	1420	355	248	230	196
28	292	326	348	845	558	2620	3000	1610	355	251	242	196
29	288	322	364	800	---	2500	2780	1510	348	248	233	185
30	285	334	357	770	---	2310	2660	1610	345	254	230	185
31	288	---	357	743	---	2090	---	2580	---	248	264	---
TOTAL	11460	15863	10268	24857	28746	78049	66180	54063	33226	9483	7916	6272
MEAN	370	529	331	802	1027	2518	2206	1744	1108	306	255	209
MAX	471	936	364	1560	2070	5630	3150	3030	2660	465	359	261
MIN	285	227	305	380	558	417	1670	644	345	248	230	185
CAL YR 1982 TOTAL	297679			MEAN 816	MAX 4340	MIN 227						
WTR YR 1983 TOTAL	346383			MEAN 949	MAX 5630	MIN 185						

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 upstream from highway bridge at Cornish and 0.4 mi downstream from Ossipee River.

DRAINAGE AREA.--1,293 mi².

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 National Geodetic Vertical Datum of 1929. Prior to Oct. 30, 1919, nonrecording gage on bridge downstream at different datum.

REMARKS.--Records good except those for winter period and period of no gage-height record which are fair. No gage-height record Jan. 1 to Feb. 10, July 6 to Aug. 18. 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.

AVERAGE DISCHARGE.--67 years, 2,709 ft³/s.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 45,000 ft³/s Mar. 21, 22, 1936, gage height, 21.90 ft, (from floodmarks); minimum daily, 244 ft³/s Oct. 7, 1964.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 16,100 ft³/s Mar. 22, gage height, 10.80 ft; minimum daily, 336 ft³/s Sept. 19.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1020	788	1500	1770	2430	1550	5870	9890	6250	1250	555	713
2	955	829	1510	1780	2420	1910	5300	10400	6260	1230	510	569
3	950	769	1510	1640	3140	3020	5050	11000	6170	1210	590	559
4	934	625	1500	1250	4200	3390	5350	11400	6230	1200	635	558
5	828	744	1480	1020	4720	3460	5210	12100	6700	1180	685	565
6	806	1180	1480	1060	5050	3480	5010	11800	6230	1530	730	691
7	774	1900	1460	1060	5460	3340	4990	10800	5680	1510	735	733
8	882	1720	1500	1040	4380	3320	4990	9750	5360	2210	720	649
9	1080	1660	1520	1040	4160	3260	4990	8710	4990	1670	715	611
10	1290	1780	1400	995	4240	3400	5000	7790	4490	1210	765	530
11	1340	1820	1230	1710	4130	4070	6190	7170	3880	930	810	527
12	1280	1760	1200	2720	3560	5490	6640	6600	3610	875	1070	515
13	1260	1900	1140	3160	3360	6880	6470	6080	3240	885	1230	520
14	1270	2220	1110	3390	3240	7250	6500	5590	2920	875	1260	520
15	1230	2640	1100	3090	3200	7570	6570	5220	2830	855	1230	499
16	1200	2690	1170	2900	3170	7720	6630	4900	2730	940	1160	515
17	1170	2530	1350	2140	2980	7530	6650	4370	2580	910	1020	516
18	1130	2420	1530	1880	2840	7170	6670	4030	2590	870	985	459
19	1070	2290	1760	1810	2680	9520	6560	3560	2500	860	917	336
20	1010	2260	1600	1750	2470	13100	6560	3450	2380	870	823	375
21	895	2130	1460	1680	2290	13000	6470	3410	2190	870	799	456
22	865	2020	1360	1610	2070	15800	6180	3280	2070	880	761	491
23	821	1830	1350	1540	2050	15800	5710	3500	1880	890	720	482
24	797	1630	1360	2090	1990	14800	5740	4180	1750	1060	1190	466
25	786	1750	1370	2520	1910	13400	8080	4140	1630	910	763	589
26	794	1840	1450	2580	1850	11600	8370	4120	1540	840	681	664
27	842	1800	1510	2530	1770	10200	9270	4120	1460	775	662	731
28	851	1590	1630	2480	1730	9220	10000	4480	1410	765	656	665
29	813	1520	1770	2430	---	8250	10100	4350	1360	760	604	639
30	760	1490	1840	2400	---	7310	9910	4590	1310	765	601	651
31	763	---	1800	2410	---	6460	---	6230	---	760	699	---
TOTAL	30466	52125	44950	61475	87490	232270	197030	201010	104220	32345	25281	16794
MFAN	983	1738	1450	1983	3125	7493	6568	6484	3474	1043	816	560
MAX	1340	2690	1840	3390	5460	15800	10100	12100	6700	2210	1260	733
MIN	760	625	1100	995	1730	1550	4990	3280	1310	760	510	336
CAL YR 1982	TOTAL	922874	MEAN	2528	MAX	15600	MIN	609				
WTR YR 1983	TOTAL	1085456	MEAN	2974	MAX	15800	MIN	336				

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.

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.

WATER QUALITY DATA, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983

DATE	TIME	STREAM- FLOW, INSTAN- TANEOUS (CFS)	SPE- CIFIC CON- DUCT- ANCE (UMHOS)	PH (UNITS)	TEMPER- ATURE, AIR (DEG C)	TEMPER- ATURE (DEG C)	TUR- BID- ITY (NTU)	BARD- METRIC PRES- SURE (MM HG)	OXYGEN, DIS- SOLVED (MG/L)	OXYGEN, DIS- SOLVED SATUR- ATION	COLI- FORM, FECAL, 0.7 UM-MF (COLS./ 100 ML)	STREP- TOCOCCI FECAL, KF AGAR (COLS. PER 100 ML)
NOV 02...	1430	798	43	6.5	10.5	10.0	1.0	763	10.8	96	K8	K160
DEC 20...	1500	1600	33	6.5	3.5	0.0	1.1	752	14.2	98	K8	48
MAR 24...	1500	14700	26	6.3	7.5	2.0	1.3	775	14.0	99	K2	K1
MAY 17...	1500	4340	37	6.5	14.0	13.0	1.3	765	11.2	106	K4	74
JUN 28...	1115	1410	36	6.7	16.5	21.0	1.4	764	8.2	92	50	K160
AUG 30...	1630	603	43	6.9	23.0	22.5	1.2	765	8.8	101	K14	K200

DATE	HARD- NESS (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- LINITY LAB (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)	SOLIDS, RESIDUE AT 180 DEG. C DIS- SOLVED (MG/L)	SOLIDS, SUM OF CONSTI- TUENTS, DIS- SOLVED (MG/L)
NOV 02...	10	3.1	0.5	3.5	0.5	8.0	5.4	4.7	0.3	7.0	34	30
DEC 20...	8	2.4	0.4	2.8	0.3	5.0	4.0	2.8	0.3	7.0	32	23
MAR 24...	6	1.7	0.3	2.2	0.5	4.0	<5.0	2.8	0.2	4.9	33	20
MAY 17...	7	2.2	0.4	2.2	0.5	5.0	6.8	3.0	0.3	5.4	32	24
JUN 28...	9	3.0	0.4	3.3	0.6	7.0	6.2	4.6	0.3	5.5	35	28
AUG 30...	10	3.1	0.6	3.7	0.6	8.0	5.4	4.6	0.4	6.4	28	30

01066000 SACO RIVER AT CORNISH, ME--Continued

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983

DATE	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, DIS- SOLVED (MG/L AS P)	PHOS- PHORUS, ORTHO, DIS- SOLVED (MG/L AS P)	ALUM- INUM, DIS- SOLVED (UG/L AS AL)	ARSENIC DIS- SOLVED (UG/L AS AS)	BARIUM, DIS- SOLVED (UG/L AS BA)
NOV 02...	0.16	0.02	0.03	0.2	0.02	0.01	<0.01	30	1	22.00
DEC 20...	0.19	0.04	0.05	<0.1	0.02	0.01	<0.01	---	---	---
MAR 24...	0.12	0.04	0.05	<0.1	0.01	<0.01	<0.01	200	1	10.00
MAY 17...	0.11	<0.01	0.01	<0.1	0.02	<0.01	<0.01	50	<1	14.00
JUN 28...	0.11	<0.01	0.01	0.2	0.02	<0.01	<0.01	---	---	---
AUG 30...	0.14	0.02	0.03	0.6	0.02	<0.01	<0.01	40	2	13.00

DATE	BERYL- LIUM, DIS- SOLVED (UG/L AS BE)	CADMIUM DIS- SOLVED (UG/L AS CD)	CHRO- MIUM, DIS- SOLVED (UG/L AS CR)	COBALT, DIS- SOLVED (UG/L AS CO)	COPPER, DIS- SOLVED (UG/L AS CU)	IRON, DIS- SOLVED (UG/L AS FE)	LEAD, DIS- SOLVED (UG/L AS PB)	LITHIUM DIS- SOLVED (UG/L AS LI)	MANGA- NESE, DIS- SOLVED (UG/L AS MN)	MERCURY DIS- SOLVED (UG/L AS HG)
NOV 02...	<1.00	<1	<1	<3.00	1	130	<1	<4.00	13	0.1
DEC 20...	---	---	---	---	---	---	---	---	---	---
MAR 24...	<1.00	<1	<1	<3.00	6	70	16	<4.00	27	<0.1
MAY 17...	0.50	1	1	3.00	2	60	4	4.00	17	<0.1
JUN 28...	---	---	---	---	---	---	---	---	---	---
AUG 30...	<0.50	<1	<1	<3.00	1	190	<1	<4.00	25	<0.1

DATE	MOLYB- DENUM, DIS- SOLVED (UG/L AS MO)	NICKEL, DIS- SOLVED (UG/L AS NI)	SELE- NIUM, DIS- SOLVED (UG/L AS SE)	SILVER, DIS- SOLVED (UG/L AS AG)	STRON- TIUM, DIS- SOLVED (UG/L AS SR)	VANA- DIUM, DIS- SOLVED (UG/L AS V)	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
NOV 02...	10	1	<1	---	20	<6.0	5.00	2	4.3	88
DEC 20...	---	---	---	---	---	---	---	4	17	71
MAR 24...	<10	1	<1	<1	10	<6.0	9.00	19	754	54
MAY 17...	10	2	<1	<1	20	6.0	4.00	4	47	54
JUN 28...	---	---	---	---	---	---	---	6	23	12
AUG 30...	<10	1	<1	<1	20	<6.0	10	7	11	8

6 858
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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 upstream from highway bridge, 1.4 mi downstream from Middle Branch, and 4.0 mi west of West Kennebunk.

DRAINAGE AREA.--99.0 mi².

PERIOD OF RECORD.--October 1939 to current year.

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

GAGE.--Water-stage recorder. Altitude of gage is 170 ft, from topographic map.

REMARKS.--Records good. Flow regulated by Square Pond and Mousam and Estes Lakes, combined capacity about 700,000,000 ft³ and powerplants upstream. Several observations of water temperature and specific conductance were made during the year.

AVERAGE DISCHARGE.--44 years, 182 ft³/s.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 4,020 ft³/s Mar. 20, 1983, gage height, 5.64 ft; minimum daily, 0.40 ft³/s Nov. 10, 15, 16, 1964.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 4,020 ft³/s Mar. 20, gage height, 5.64 ft; minimum daily, 5.8 ft³/s Dec. 15.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	119	75	114	161	155	165	630	534	613	112	19	15
2	118	6.8	108	160	162	163	534	784	524	17	19	14
3	113	83	56	103	193	537	474	824	474	17	18	14
4	166	165	6.6	6.1	560	621	608	680	499	19	96	14
5	57	116	6.6	6.1	399	487	586	613	555	21	76	14
6	7.1	6.7	114	6.6	300	432	509	555	479	23	19	14
7	6.7	6.5	115	67	268	407	469	514	425	100	19	47
8	8.4	87	77	57	229	371	420	489	365	192	15	12
9	7.5	59	83	6.9	231	372	370	469	323	154	12	12
10	102	24	157	60	201	524	370	405	227	124	12	12
11	48	117	150	389	192	845	824	331	199	119	12	13
12	80	155	151	584	193	1050	858	273	188	124	16	44
13	141	115	151	407	185	1240	685	254	166	175	21	13
14	166	109	98	314	181	962	613	246	112	80	135	78
15	163	156	5.8	286	179	820	560	254	185	20	117	13
16	166	153	6.6	265	177	760	509	277	178	21	19	12
17	159	174	6.7	242	165	714	494	298	185	21	19	13
18	79	113	6.6	238	64	643	484	281	175	20	19	13
19	76	121	6.6	212	160	1390	445	257	166	19	19	13
20	87	174	40	208	165	3140	430	261	163	87	18	14
21	119	173	97	205	165	1770	395	277	163	91	14	14
22	167	112	99	200	165	1830	360	239	163	65	14	112
23	164	121	6.6	204	165	1480	365	298	140	61	15	67
24	131	113	6.6	298	165	1120	455	395	160	19	105	12
25	128	119	65	298	165	920	1410	365	72	19	65	12
26	175	167	113	229	165	792	1020	315	19	98	13	13
27	123	112	112	193	165	702	784	306	19	117	13	13
28	128	108	151	174	165	824	663	484	70	18	13	13
29	114	168	104	171	---	914	592	425	127	18	14	13
30	122	110	110	170	---	784	550	494	172	19	14	13
31	169	---	162	168	---	703	---	739	---	19	16	---
TOTAL	3409.7	3319.0	2485.7	6088.7	5679	27518	17466	12936	7306	2009	996	676
MFAN	110	111	80.2	196	203	888	582	417	244	64.8	32.1	22.5
MAX	175	174	162	584	560	3140	1410	824	613	192	135	112
MIN	6.7	6.5	5.8	6.1	64	165	360	239	19	17	12	12
†	326	325	335	339	392	538	538	516	478	461	449	419

CAL YR 1982 TOTAL 73935.6 MEAN 203 MAX 916 MIN 5.8
WTR YR 1983 TOTAL 89889.1 MEAN 246 MAX 3140 MIN 5.8

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

LOCATION.--Lat 43°24'50", long 70°59'15", Strafford County, Hydrologic Unit 01060003, on right bank just downstream from Milton Pond at Milton.

PERIOD OF RECORD.--October 1968 to current year.

GAGE.--Water-stage recorder and concrete control. Altitude of gage is 405 ft, from topographic map.

REMARKS.--Records good. Flow regulated by Great East and Lovell Lakes and Horn, Wilson, and Milton (also controls Northeast and Town House) Ponds, combined usable capacity, 1,280,000,000 ft³. Several observations of water temperature and specific conductance were made during the year.

AVERAGE DISCHARGE.--15 years, 199 ft³/s.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 3,500 ft³/s Mar. 15, 1977, gage height, 6.50 ft ; minimum daily, 19 ft³/s Aug. 30, Sept. 13, 1970.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 2,580 ft³/s Mar. 20, gage height, 6.02 ft; minimum daily, 39 ft³/s
July 6-10, Aug. 18.

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	109	107	57	144	190	135	373	379	527	47	44	41
2	108	102	57	135	184	155	330	551	417	43	41	41
3	108	115	58	130	345	269	378	801	288	45	40	41
4	107	138	57	142	666	377	468	705	338	42	42	41
5	107	132	55	155	636	384	527	597	457	40	43	41
6	107	139	55	152	508	352	506	502	489	39	44	41
7	104	139	55	150	414	319	455	445	390	39	44	41
8	123	103	88	148	340	298	294	425	312	39	44	41
9	148	89	94	144	296	288	248	401	230	39	44	41
10	150	142	47	139	268	296	284	374	192	39	44	41
11	140	142	47	160	244	441	546	358	205	46	43	41
12	132	142	47	309	230	606	773	239	203	48	43	41
13	123	142	102	382	216	812	707	194	193	47	43	40
14	133	142	137	345	207	821	553	214	179	46	43	40
15	136	93	132	296	195	719	450	225	150	46	42	40
16	143	51	141	267	195	631	417	252	142	46	41	40
17	150	51	135	241	191	576	437	260	140	46	40	40
18	144	52	123	222	172	541	468	255	142	46	39	40
19	136	54	119	208	144	758	506	235	137	44	40	40
20	128	53	134	195	155	2240	479	198	125	44	41	40
21	125	54	136	187	155	2130	397	196	109	44	42	40
22	124	98	132	173	155	1710	368	205	98	44	42	40
23	116	136	141	170	155	1330	359	217	73	44	42	40
24	108	136	127	184	155	949	376	249	57	44	42	40
25	99	136	118	219	154	762	816	246	57	44	42	40
26	97	136	108	245	151	654	942	230	57	44	42	40
27	93	132	130	250	142	581	706	227	54	44	42	41
28	86	131	150	236	138	487	581	276	51	44	42	41
29	107	90	159	221	---	472	423	308	51	44	42	41
30	129	57	164	206	---	539	358	421	51	44	41	61
31	115	---	153	197	---	521	---	546	---	44	41	---
TOTAL	3735	3234	3258	6352	7001	21153	14525	10731	5914	1355	1305	1236
MEAN	120	108	105	205	250	682	484	346	197	43.7	42.1	41.2
MAX	150	142	164	382	666	2240	942	801	527	48	44	61
MIN	86	51	47	130	138	135	248	194	51	39	39	40
CAL YR 1982	TOTAL	67517	MEAN 185	MAX 775	MIN 47							
WTR YR 1983	TOTAL	79799	MEAN 219	MAX 2240	MIN 39							

DISCHARGE AT PARTIAL-RECORD STATIONS AND MISCELLANEOUS SITES

DISCHARGE MEASUREMENTS MADE AT MISCELLANEOUS SITES DURING WATER YEAR 1983

Stream	Tributary to	Location	Drainage area (mi ²)	Measured previously (water years)	Measurements Discharge Date (ft ³ /s)
PENOBSCOT RIVER BASIN					
Sebec River	Piscataquis River	Lat 45°16'12", long 69°06'44", Piscataquis County, at the highway bridge 50 ft upstream of the dam at outlet of Sebec Lake at Sebec.	326	many	05-26-83 2170
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	10-22-82 24.4
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	03-23-83 827 06-27-83 64.9 08-19-83 42.6
Moody Brook	Little Andros- coggin River	Lat 44°16'57", long 70°31'03", Oxford County, downstream side of Route 16 culvert in Paris.	4.9		08-24-83 0.08 09-12-83 .05
Moody Brook	"	Lat 44°16'27", long 70°31'12", Oxford County, 400 ft upstream of confluence with Cole Brook in Paris.	4.9		08-24-83 0 09-12-83 0
Cole Brook	"	Lat 44°16'32", long 70°30'53", Oxford County, just downstream of the Route 16 culvert in Paris.	3.8		08-24-83 .12 09-12-83 .08
Cole Brook	"	Lat 44°16'29", long 70°31'09", Oxford County, 500 ft upstream of confluence with Moody Brook in Paris.	3.8		08-24-83 0 09-12-83 0
Bancroft Brook	"	Lat 44°14'28", long 70°30'35", Oxford County, 300 ft upstream of Route 16 in Paris.	4.0		07-27-83 0 09-22-83 .01
Bancroft Brook	"	Lat 44°12'08", long 70°30'45", Oxford County, 600 ft upstream of Route 16 in Paris.	4.0		07-27-83 0 09-22-83 0
Sludge Site Brook	"	Lat 44°12'10", long 70°30'48", Oxford County, 100 ft downstream from the Oxford Street culvert in Paris.	1.1		07-27-83 0 09-22-83 .07
Sludge Site Brook	"	Lat 44°12'08", long 70°30'54", Oxford County, 250 ft downstream from the Oxford Street culvert in Paris.	1.1		07-27-83 0 09-22-83 0
Willow Brook	"	Lat 44°09'36", long 70°27'59", Oxford County, at 1600 ft upstream of the East Oxford Road culvert in Oxford.	1.7		09-22-83 .60
Willow Brook	"	Lat 44°09'24", long 70°28'12", Oxford County, 10 ft upstream of the East Oxford Street culvert in Oxford.	1.7		09-22-83 .64
Minister Brook	"	Lat 44°09'15", long 70°27'29", at a point 400 ft downstream of the Whittmore Road culvert.	3.2		07-27-83 .14
Minister Brook	"	Lat 44°08'46", long 70°27'27", at a point 2000 ft upstream of the railroad culvert in Oxford.	3.2		07-27-83 .23
Minister Brook	"	Lat 44°08'27", long 70°27'27", Oxford County, 300 ft upstream of the railroad culvert in Oxford.	3.2		07-27-83 .33

MISCELLANEOUS TEMPERATURE AND SPECIFIC CONDUCTANCE DETERMINATIONS

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WATER QUALITY DATA, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983

DATE	TIME	STREAM- FLOW, INSTAN- TANEOUS (ft ³ /s)	TEMPER- ATURE (DEG C)	TEMPER- ATURE, AIR (DEG C)	SPE- CIFIC CON- DUCT- ANCE (UMHOS)	DATE	TIME	STREAM FLOW, INSTAN- TANEOUS (ft ³ /s)	TEMPER- ATURE (DEG C)	TEMPER- ATURE, AIR (DEG C)	SPE- CIFIC CON- DUCT- ANCE (UMHOS)
ST. JOHN RIVER BASIN											
01010000 - ST. JOHN RIVER AT NINEMILE BRIDGE, ME (LAT 46°42'00" LONG 069°42'59")											
NOV , 1982						JUL , 1983					
19...	1200	2040	3.0	4.0	55	13...	0845	203	21.0	22.0	60
JUN , 1983											
07...	1530	4160	13.0	22.0	36						
01010500 - ST. JOHN RIVER AT DICKEY, ME (LAT 47°06'44" LONG 069°05'25")											
OCT , 1982						JUN , 1983					
06...	1000	8060	10.5	14.0	40	22...	2110	2870	23.0	21.0	50
NOV						AUG					
13...	1500	3480	3.0	4.0	55	03...	1705	831	24.0	25.0	64
FEB , 1983											
23...	1000	758	0.0	-11.0	102						
01011000 - ALLAGASH RIVER NEAR ALLAGASH, ME (LAT 47°04'14" LONG 069°04'51")											
DEC , 1982						JUN , 1983					
14...	1000	1300	0.0	- 8.0	50	22...	2040	2450	23.0	29.0	46
FEB , 1983						AUG					
23...	1030	451	1.0	- 6.0	65	03...	1850	1050	25.0	28.0	49
01013500 - FISH RIVER NEAR FORT KENT, ME (LAT 47°14'14" LONG 068°34'56")											
OCT , 1982						APR , 1983					
06...	1400	774	14.0	19.0	59	20...	1000	11700	3.0	11.0	58
DEC						AUG					
14...	1400	1530	0.0	- 8.0	64	04...	0815	714	20.0	22.0	60
FEB , 1983											
23...	1100	536	1.0	-10.5	57						
01014000 - ST. JOHN RIVER BELOW FISH RIVER, AT FORT KENT, ME (LAT 47°15'27" LONG 068°35'35")											
OCT , 1982						AUG , 1983					
05...	1830	6140	13.0	13.0	40	04...	1815	3240	20.0	22.0	60
FEB , 1983											
23...	1545	2040	0.0	-10.0	84						
01015800 - AROOSTOOK RIVER NEAR MASARDIS, ME (LAT 46°31'21" LONG 068°22'23")											
DEC , 1982						JUN , 1983					
13...	1600	1020	0.0	-15.0	54	22...	0915	917	22.0	27.0	50
FEB , 1983						AUG					
22...	1300	419	0.0	2.0	58	02...	1430	327	23.5	22.5	58
APR											
21...	1805	14300	3.0	3.0	31						
01016500 - MACHIAS RIVER NEAR ASHLAND, ME (LAT 46°37'42" LONG 068°26'07")											
DEC , 1982						JUN , 1983					
13...	1300	351	0.0	-15.0	30	22...	1110	238	22.5	29.0	57
FEB , 1983						AUG					
22...	1615	115	0.0	- 2.0	71	02...	1735	191	23.0	24.0	56
01017000 - AROOSTOOK RIVER AT WASHBURN, ME (LAT 46°46'36" LONG 068°09'29")											
OCT , 1982						APR , 1983					
07...	1000	1310	5.0	11.0	--	20...	0930	36900	2.0	9.0	28
DEC						JUN					
13...	1440	1950	0.0	-15.0	--	22...	0610	1720	21.5	18.0	59
FEB , 1983											
24...	1115	902	0.0	-17.0	68						

MISCELLANEOUS TEMPERATURE AND SPECIFIC CONDUCTANCE DETERMINATIONS--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983

DATE	TIME	STREAM- FLOW, INSTAN- TANEOUS (ft ³ /s)	TEMPER- ATURE (DEG C)	TEMPER- ATURE, AIR (DEG C)	SPE- CIFIC CON- DUCT- ANCE (UMHOS)	DATE	TIME	STREAM FLOW, INSTAN- TANEOUS (ft ³ /s)	TEMPER- ATURE (DEG C)	TEMPER- ATURE, AIR (DEG C)	SPE- CIFIC CON- DUCT- ANCE (UMHOS)
ST. CROIX RIVER BASIN											
01018500 - ST. CROIX RIVER AT VANCEBORO, ME (LAT 45°34'08" LONG 067°25'47")											
OCT , 1982						APR , 1983					
13...	1845	791	11.5	12.0	--	19...	1430	1240	7.0	12.5	28
DEC						JUN					
21...	1050	245	0.0	0.0	33	21...	1430	1260	23.0	28.0	26
MAR , 1983						AUG					
17...	1130	243	3.0	7.0	39	11...	1615	1610	24.0	27.0	26
01019000 - GRAND LAKE STREAM AT GRAND LAKE STREAM, ME (LAT 45°10'23" LONG 067°46'06")											
OCT , 1982						MAY , 1983					
14...	1000	166	12.0	14.0	--	19...	1530	393	13.0	22.5	24
DEC						JUN					
14...	1300	125	1.0	- 4.5	28	21...	0935	594	21.0	23.0	24
MAR , 1983						AUG					
16...	1730	181	2.5	5.5	30	10...	1420	800	23.5	20.0	24
APR											
19...	1145	166	8.0	9.5	26						
01020000 - ST. CROIX RIVER NEAR BAILEYVILLE, ME (LAT 45°15'55" LONG 067°28'36")											
OCT , 1982						APR , 1983					
14...	1400	1080	11.0	12.5	--	21...	0705	2690	22.0	17.5	26
DEC						26...	1000	6920	8.5	9.0	26
14...	1430	1130	1.0	- 3.0	44						
MAR , 1983						AUG					
16...	1245	2930	2.0	2.0	33	11...	1045	2720	23.5	24.5	24
01021000 - ST. CROIX RIVER AT BARING, ME (LAT 45°08'12" LONG 067°19'05")											
OCT , 1982						MAR , 1983					
14...	1515	1150	11.5	15.5	116	17...	0915	3160	2.5	4.5	109
DEC											
2L...	0830	1490	0.0	- 1.5	113						
DENNY'S RIVER BASIN											
01021200 - DENNY'S RIVER AT DENNYVILLE, ME (LAT 44°54'03" LONG 067°14'56")											
OCT , 1982						MAR , 1983					
14...	1620	75	9.5	15.0	41	17...	1415	333	0.5	4.5	28
DEC						JUN					
20...	1530	139	0.0	3.0	37	20...	1500	154	21.5	20.0	48
FEB , 1983						AUG					
16...	1030	131	0.0	- 3.0	--	24...	1600	61.7	23.0	26.0	35
PLEASANT RIVER BASIN											
01022260 - PLEASANT RIVER NEAR EPPING, ME (LAT 44°41'52" LONG 67°47'16")											
DEC , 1982						APR , 1983					
20...	1245	29.5	0.0	10.0	28	27...	1330	840	10.0	16.0	19
FEB , 1983						JUN					
07...	1500	165	0.0	- 4.0	27	20...	1010	126	22.0	25.0	25
MAR						AUG					
17...	1615	361	0.5	3.0	20	25...	1512	37.4	29.0	27.5	28
NARRAGUAGUS RIVER BASIN											
01022500 - NARRAGUAGUS RIVER AT CHERRYFIELD, ME (LAT 44°36'29" LONG 067°56'10")											
OCT , 1982						APR , 1983					
15...	0850	208	9.0	12.0	38	29...	1645	1640	9.5	13.5	22
DEC						JUN					
14...	1800	38	0.5	- 6.0	--	18...	1130	191	17.5	21.0	30
MAR						AUG					
04...	1800	184	0.0	1.0	30	19...	1230	114	22.5	26.0	--

WATER QUALITY DATA, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983

DATE	TIME	STREAM- FLOW, INSTAN- TANEOUS (ft ³ /s)	TEMPER- ATURE (DEG C)	TEMPER- ATURE, AIR (DEG C)	SPE- CIFIC CON- DUCT- ANCE (UMHOS)	DATE	TIME	STREAM FLOW, INSTAN- TANEOUS (ft ³ /s)	TEMPER- ATURE (DEG C)	TEMPER- ATURE, AIR (DEG C)	SPE- CIFIC CON- DUCT- ANCE (UMHOS)
PENOBSCOT RIVER BASIN											
01030000 - PENOBSCOT RIVER NEAR MATTAWAMKEAG, ME (LAT 45°34'01" LONG 068°24'10")											
OCT , 1982						MAY , 1983					
19...	1530	4610	11.0	18.5	49	17...	1400	3870	--	17.0	--
DEC						JUN					
13...	1230	4920	0.0	-14.0	47	21...	1100	7480	22.0	30.5	--
MAR , 1983						AUG					
16...	1040	5710	1.5	5.0	52	30...	0915	4050	21.0	24.0	--
01030500 - MATTAWAMKEAG RIVER NEAR MATTAWAMKEAG, ME (LAT 45°30'18" LONG 068°18'07")											
OCT , 1982						APR , 1983					
20...	1300	867	11.0	18.0	60	19...	1215	16200	4.5	14.5	31
DEC						JUN					
13...	1115	1970	0.0	-15.0	56	20...	1730	1400	23.5	24.5	--
MAR , 1983						AUG					
16...	1400	3150	0.5	4.5	48	30...	2210	508	21.0	28.0	--
01031500 - PISCATAQUIS RIVER NEAR DOVER-FOXCROFT, ME (LAT 45°10'31" LONG 069°18'55")											
OCT , 1982						MAY , 1983					
21...	1415	80	12.0	17.0	58	26...	1400	990	11.0	16.0	28
DEC						JUN					
14...	1800	240	0.0	-10.0	57	16...	1015	380	21.0	19.5	--
FEB , 1983						29...	1250	80.1	22.5	25.5	57
16...	0815	282	0.0	6.0	110						
MAR						JUL					
23...	1045	3740	2.0	2.0	70	28...	1245	63.8	24.0	24.0	--
APR						AUG					
18...	1430	16100	2.0	48.0	20	29...	1130	31.0	21.0	25.5	--
01034500 - PENOBSCOT RIVER AT WEST ENFIELD, ME (LAT 45°14'12" LONG 068°38'56")											
OCT , 1982						APR , 1983					
19...	1340	5870	10.5	16.5	55	19...	1820	109000	4.5	10.0	29
DEC						JUN					
14...	1515	7660	0.0	- 6.0	59	20...	1245	12100	22.5	26.0	56
FEB , 1983						AUG					
15...	1445	8330	0.0	6.0	57	29...	1500	5580	19.0	20.0	--
MAR											
23...	1400	48000	2.0	2.0	45						
SHEEPSCOT RIVER BASIN											
01038000 - SHEEPSCOT RIVER AT NORTH WHITEFIELD, ME (LAT 44°13'23" LONG 069°35'38")											
OCT , 1982						MAR , 1983					
05...	0915	16.9	13.5	19.0	68	21...	1410	1720	9.5	4.0	31
NOV						MAY					
09...	0900	35.4	9.0	8.0	60	03...	1000	1060	10.0	21.5	--
DEC						26...	1700	303	15.0	18.0	46
07...	1130	776	6.0	9.0	56	JUN					
JAN , 1983						15...	1540	215	23.5	25.5	40
03...	1400	130	1.0	1.0	53	29...	1000	78.0	16.0	19.5	--
FEB						JUL					
03...	1100	337	3.0	6.0	51	27...	1700	41.8	24.0	27.0	63
08...	1400	400	1.5	- 2.0	45	AUG					
MAR						18...	1420	33.1	23.0	26.0	56
03...	1030	623	1.0	5.0	44	31...	1015	24.6	20.0	16.5	66
KENNEBEC RIVER BASIN											
01042500 KENNEBEC RIVER AT THE FORKS, ME (LAT 45°20'25" LONG 069°57'48")											
OCT , 1982						MAY , 1983					
07...	1415	5230	14.0	8.0	32	03...	1400	14200	6.0	20.5	--
DEC						JUN					
15...	1245	4960	1.5	0.0	33	17...	1000	442	18.5	21.0	--
FEB , 1983						AUG					
15...	1145	4550	1.5	3.5	34	15...	1115	241	20.5	19.0	--

MISCELLANEOUS TEMPERATURE AND SPECIFIC CONDUCTANCE DETERMINATIONS--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983

DATE	TIME	STREAM- FLOW, INSTAN- TANEOUS (ft ³ /s)	TEMPER- ATURE (DEG C)	TEMPER- ATURE, AIR (DEG C)	SPE- CIFIC CON- DUCT- ANCE (UMHOS)	DATE	TIME	STREAM FLOW, INSTAN- TANEOUS (ft ³ /s)	TEMPER- ATURE (DEG C)	TEMPER- ATURE, AIR (DEG C)	SPE- CIFIC CON- DUCT- ANCE (UMHOS)
KENNEBEC RIVER BASIN--Continued											
01046500 - KENNEBEC RIVER AT BINGHAM, ME (LAT 45°03'06" LONG 069°53'12")											
OCT , 1982						MAR , 1983					
07...	1030	6480	14.0	15.0	34	23...	0930	4870	- 2.0	3.0	45
DEC						JUN					
15...	1500	1150	2.5	0.0	34	17...	1430	19500	15.0	23.5	--
FEB , 1983						SEP					
15...	1045	5120	1.5	3.0	36	15...	0545	587	16.0	10.0	--
01047000 - CARRABASSETT RIVER NEAR NORTH ANSON, ME (LAT 44°52'09" LONG 069°57'20")											
OCT , 1982						MAY , 1983					
04...	1000	111	13.5	13.0	44	31...	1150	2670	10.0	14.5	26
DEC						AUG					
15...	1645	200	0.0	0.0	48	09...	1100	190	24.0	25.0	44
FEB , 1983						SEP					
16...	1530	784	0.0	- 6.0	46	08...	1330	105	19.0	23.0	49
MAR											
24...	1330	1870	1.0	- 1.0	27						
01047730 - WILSON STREAM AT EAST WILTON, ME (LAT 44°36'55" LONG 070°11'42")											
OCT , 1982						JUN , 1983					
06...	1345	11.6	15.0	28.0	61	27...	0930	21.7	18.5	19.0	50
DEC						AUG					
06...	0930	59.9	4.5	9.5	52	10...	1230	22.6	21.0	24.5	62
FEB , 1983						SEP					
09...	0810	98	0.0	- 9.0	42	08...	1500	22.0	21.0	26.0	73
MAR											
25...	0900	217	2.0	- 5.0	38						
01049000 - SEBASTICOOK RIVER NEAR PITTSFIELD, ME (LAT 44°43'00" LONG 069°24'56")											
OCT , 1982						MAY , 1983					
06...	0930	221	15.0	10.5	280	03...	1130	4485	11.5	24.0	--
DEC						JUN					
14...	0930	313	0.5	-10.0	99	16...	1615	718	22.0	21.5	--
FEB , 1983						SEP					
15...	0915	225	0.0	0.0	95	15...	1015	628	19.0	16.5	--
MAR											
24...	0945	6180	2.0	5.0	61						
01049300 - NORTH BRANCH TANNING BROOK NEAR MANCHESTER, ME (LAT 44°21'00" LONG 069°51'07")											
OCT , 1982						MAY , 1983					
08...	0930	0.46	10.0	15.5	100	19...	1415	1.35	16.0	26.0	63
DEC						JUN					
17...	0930	1.25	0.5	- 1.0	80	03...	1330	2.37	27.0	13.0	56
JAN , 1983						13...	1345	0.883	24.0	35.0	73
04...	0930	0.154	0.0	-10.0	104	30...	1400	0.226	--	32.0	26
FEB						JUL					
09...	1230	0.860	0.0	- 2.0	76	06...	1800	3.08	19.5	22.0	63
MAR						AUG					
13...	1345	8.16	4.0	3.0	46	17...	1045	0.222	18.0	25.0	94
29...	0815	7.34	6.0	10.0	65						
APR											
25...	1245	55.4	9.0	16.0	33						
01049373 - MILL STREAM AT WINTHROP, ME (LAT 44°18'24" LONG 069°58'18")											
OCT , 1982						MAR , 1983					
08...	1200	7.20	14.5	12.0	70	29...	1330	275	4.0	3.0	66
DEC						APR					
08...	1415	7.94	7.5	5.0	73	19...	1200	178	10.0	13.0	56
FEB , 1983						MAY					
08...	1500	81.6	3.0	- 3.0	72	19...	1720	69.8	24.0	28.0	--
MAR						AUG					
13...	1500	188	9.0	13.0	67	17...	1120	24.8	21.0	28.0	--

WATER QUALITY DATA, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983

DATE	TIME	STREAM- FLOW, INSTAN- TANEOUS (ft ³ /s)	TEMPER- ATURE (DEG C)	TEMPER- ATURE, AIR (DEG C)	SPE- CIFIC CON- DUCT- ANCE (UMHOS)	DATE	TIME	STREAM FLOW, INSTAN- TANEOUS (ft ³ /s)	TEMPER- ATURE (DEG C)	TEMPER- ATURE, AIR (DEG C)	SPE- CIFIC CON- DUCT- ANCE (UMHOS)
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KENNEBEC RIVER BASIN--Continued

01049396 - JOCK STREAM AT SOUTH MONMOUTH, ME (LAT 44°11'04" LONG 069°59'48")

OCT , 1982						MAR , 1983					
08...	1445	5.52	11.5	13.5	157	29...	1545	95.6	5.0	10.0	62
DEC						APR					
08...	1230	7.07	4.0	8.0	117	06...	1530	38.8	5.0	15.0	48
17...	1345	13.7	0.5	0.0	130	12...	1000	105	4.0	9.5	59
JAN , 1983						19...	1130	51.3	10.0	14.0	60
04...	1130	4.94	0.0	-10.0	122	25...	1630	521	9.0	16.0	40
11...	1100	197	1.0	13.0	54	JUN					
FEB						14...	1600	9.68	23.5	26.0	90
08...	1030	21.5	0.0	-10.0	78	JUL					
MAR						27...	1600	3.49	22.0	24.0	122
03...	1415	--	0.5	5.0	38	AUG					
13...	1600	239	6.0	10.0	49	17...	1400	3.58	19.0	31.0	124

01049500 - COBBOSSECONTEE STREAM AT GARDINER, ME (LAT 44°13'15" LONG 069°47'25")

OCT , 1982						MAR , 1983					
05...	1445	142	17.0	25.0	71	25...	1345	2140	3.5	4.0	64
NOV						29...	1530	2070	4.0	2.0	71
08...	0800	128	8.0	9.0	78	APR					
DEC						06...	1030	767	7.0	19.0	70
07...	1545	119	6.0	8.0	95	19...	0920	1500	10.0	8.0	57
JAN , 1983						MAY					
03...	1500	124	3.5	- 1.0	100	26...	1745	626	11.0	14.0	71
11...	1230	134	3.5	11.0	118	JUN					
FEB						14...	1450	214	23.0	26.0	66
03...	1230	236	3.0	9.5	98	29...	0820	172	22.0	19.0	--
08...	1315	508	1.0	5.0	74	JUL					
MAR						27...	0900	14	22.0	25.0	85
03...	0930	852	1.5	4.0	80	AUG					
18...	1555	1890	5.0	8.0	68	18...	0845	17.4	22.5	21.0	75
21...	1710	2540	10.0	3.0	61	31...	0905	20	21.0	15.0	74

01049550 - TOGUS STREAM AT TOGUS, ME (LAT 44°15'57" LONG 069°41'55")

OCT , 1982						MAR , 1983					
05...	1230	4.85	13.5	18.0	59	21...	1200	211	10.0	3.0	41
DEC						25...	1515	176	4.0	3.0	54
07...	1315	22.6	6.0	8.0	58	APR					
JAN , 1983						06...	1115	102	7.0	18.0	57
03...	1430	37.0	1.0	1.0	78	12...	1630	159	8.0	7.0	51
11...	1330	105	0.0	10.0	61	JUN					
FEB						15...	1700	10.6	24.0	23.0	54
03...	1215	130	2.0	9.0	60	AUG					
MAR						18...	1630	4.79	23.5	29.0	51
03...	0930	107	1.0	4.0	54						

ANDROSCOGGIN RIVER BASIN

01052500 - DIAMOND RIVER NEAR WENTWORTH LOCATION, NH (LAT 44°52'40" LONG 071°03'25")

OCT , 1982						APR , 1983					
04...	1000	62.8	11.0	15.0	40	29...	0945	2670	3.0	21.0	22
DEC						JUN					
07...	1115	450	3.5	20.0	30	28...	1230	87.8	17.0	21.0	38
FEB , 1983						AUG					
07...	0930	515	0.0	- 8.0	45	17...	0930	69.9	18.0	22.0	41

01053500 - ANDROSCOGGIN RIVER AT ERROL, NH (LAT 44°46'57" LONG 071°07'46")

OCT , 1982						APR , 1983					
04...	1230	1670	14.0	15.0	28	29...	1230	3940	0.5	21.0	24
DEC						JUN					
07...	0840	1320	3.0	- 1.0	28	28...	0920	2010	20.0	17.0	29
FEB , 1983						AUG					
07...	1120	1630	0.5	- 8.0	32	17...	1130	1680	21.0	25.0	31

WATER QUALITY DATA, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983

DATE	TIME	STREAM- FLOW, INSTAN- TANEOUS (ft ³ /s)	TEMPER- ATURE (DEG C)	TEMPER- ATURE, AIR (DEG C)	SPE- CIFIC CON- DUCT- ANCE (UMHOS)	DATE	TIME	STREAM FLOW, INSTAN- TANEOUS (ft ³ /s)	TEMPER- ATURE (DEG C)	TEMPER- ATURE, AIR (DEG C)	SPE- CIFIC CON- DUCT- ANCE (UMHOS)
ANDROSCOGGIN RIVER BASIN--Continued											
01054000 - ANDROSCOGGIN RIVER NEAR GORHAM, NH (LAT 44°26'10" LONG 071°11'27")											
OCT , 1982						APR , 1983					
04...	1420	1930	13.0	19.0	66	29...	1515	7010	8.0	20.0	147
DEC						JUN					
06...	1600	1690	5.5	14.0	90	28...	0700	2190	21.0	14.0	71
FEB , 1983						AUG					
07...	1245	2230	0.5	- 7.0	80	17...	1430	1790	21.5	24.0	66
01054200 - WILD RIVER AT GILEAD, ME (LAT 44°23'26" LONG 070°58'46")											
FEB , 1983						AUG , 1983					
07...	1415	170	0.0	- 7.0	--	17...	1630	26.5	24.0	29.0	22
APR						SEP					
25...	1345	2740	10.0	9.0	16	07...	1100	16.6	21.0	24.0	24
01054500 - ANDROSCOGGIN RIVER AT RUMFORD, ME (LAT 44°32'33" LONG 070°32'50")											
OCT , 1982						MAY , 1983					
06...	0930	2120	12.0	10.0	61	11...	0915	--	9.0	8.5	--
DEC						JUN					
07...	1350	2900	6.5	5.0	76	27...	1330	2760	25.0	22.0	79
FEB , 1983						AUG					
09...	0940	3110	1.0	- 8.0	70	19...	1100	2280	29.0	33.0	95
MAR											
23...	1630	9390	2.5	- 2.0	65						
01055000 - SWIFT RIVER NEAR ROXBURY, ME (LAT 44°38'32" LONG 070°35'17")											
OCT , 1982						MAY , 1983					
06...	1100	35.7	10.0	13.0	25	03...	1200	1970	5.0	18.0	17
DEC						JUN					
06...	1125	185	5.0	9.5	24	27...	1545	55.6	18.0	22.0	28
FEB , 1983						AUG					
09...	1235	138	0.0	- 8.0	24	19...	1515	29.9	23.0	23.0	35
MAR						22...	1530	19.7	21.0	23.0	--
23...	0945	605	0.5	- 3.0	21						
APR											
25...	0945	3580	9.0	10.0	18						
01055500 - NEZINSCOT RIVER AT TURNER CENTER, ME (LAT 44°16'10" LONG 070°13'49")											
OCT , 1982						MAR , 1983					
12...	1230	68.0	11.0	10.0	66	03...	1315	1380	0.5	5.0	43
26...	1610	47.0	11.0	14.0	50	29...	1045	541	2.0	2.0	47
DEC						APR					
09...	1030	118	3.5	- 1.0	55	25...	1815	3220	9.0	10.0	35
JAN , 1983						JUN					
04...	1030	105	0.0	-10.0	61	30...	1600	103	24.0	31.0	64
FEB						JUL					
03...	1540	729	0.0	6.0	59	27...	1335	84.2	20.0	27.0	--
01057000 - LITTLE ANDROSCOGGIN RIVER NEAR SOUTH PARIS, ME (LAT 44°17'08" LONG 070°32'16")											
OCT , 1982						APR , 1983					
05...	1145	14.7	11.0	15.0	51	25...	1645	1910	9.5	10.0	25
26...	1730	--	11.0	13.0	50	MAY					
DEC						12...	1230	2.27	9.0	8.5	--
10...	1130	43.8	0.0	- 8.0	48	JUN					
17...	1130	141	0.5	0.0	43	21...	1300	97.5	22.0	23.0	42
FEB , 1983						JUL					
07...	1000	204	0.0	-10.0	39	27...	1200	18.2	20.0	24.0	--
MAR						SEP					
07...	1415	360	3.0	10.0	37	07...	1545	13.0	24.0	26.0	56
21...	1000	981	2.0	9.0	30						
01059000 - ANDROSCOGGIN RIVER NEAR AUBURN, ME (LAT 44°04'20" LONG 070°12'31")											
OCT , 1982						MAR , 1983					
12...	0935	3540	12.0	7.0	118	29...	1245	10700	3.0	1.0	52
NOV						APR					
29...	1530	3780	3.0	3.0	105	26...	1300	41500	6.0	10.0	47
DEC						JUN					
09...	1530	3430	2.5	-10.0	106	30...	1435	4210	24.0	29.0	103
27...	1300	3370	1.0	12.5	105	AUG					
JAN , 1983						18...	1600	3120	22.0	28.0	102
25...	0945	5340	1.0	8.0	92						
FEB											
08...	0930	5340	0.0	-10.0	54						

WATER QUALITY DATA, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983

DATE	TIME	STREAM- FLOW, INSTAN- TANEOUS (ft ³ /s)	TEMPER- ATURE (DEG C)	TEMPER- ATURE, AIR (DEG C)	SPE- CIFIC CON- DUCT- ANCE (UMHOS)	DATE	TIME	STREAM FLOW, INSTAN- TANEOUS (ft ³ /s)	TEMPER- ATURE (DEG C)	TEMPER- ATURE, AIR (DEG C)	SPE- CIFIC CON- DUCT- ANCE (UMHOS)
ROYAL RIVER BASIN											
01060000 - ROYAL RIVER AT YARMOUTH, ME (LAT 43°47'57" LONG 070°10'45")											
OCT , 1982						APR , 1983					
22...	1310	47.2	9.0	9.0	102	25...	1100	4210	7.0	10.0	38
DEC						JUN					
08...	1530	81.8	3.5	3.0	96	30...	0835	66.6	20.0	19.0	93
FEB , 1983						AUG					
10...	1505	157	0.0	- 8.0	72	15...	1200	61.3	20.0	24.0	120
MAR											
11...	1200	1860	1.0	4.0	50						
SACO RIVER BASIN											
01064500 - SACO RIVER NEAR CONWAY, NH (LAT 43°59'27" LONG 071°05'29")											
OCT , 1982						JUN , 1983					
12...	1100	379	7.0	--	36	20...	1200	631	14.0	--	38
FEB , 1983						AUG					
22...	1300	560	0.0	--	27	12...	1500	256	17.5	--	38
APR						SEP					
06...	1200	1370	2.0	--	36	19...	1400	153	16.0	--	50
MAY											
12...	1400	1840	9.0	--	32						
01065500 - OSSIPPEE RIVER AT CORNISH, ME (LAT 43°48'26" LONG 070°47'55")											
OCT , 1982						MAR , 1983					
19...	1150	405	9.5	9.0	37	22...	1515	5650	3.5	5.0	31
DEC						JUN					
08...	1030	329	4.0	- 3.0	38	29...	1000	413	21.0	19.0	32
FEB , 1983						AUG					
10...	1015	1540	0.0	- 9.0	36	16...	1315	249	24.0	25.0	36
01069500 - MOUSAM RIVER NEAR WEST KENNEBUNK, ME (LAT 43°25'04" LONG 070°39'32")											
OCT , 1982						MAR , 1983					
22...	1010	237	11.0	9.5	101	21...	1500	1690	4.5	9.0	36
NOV						JUN					
15...	1055	159	8.0	3.0	68	30...	1150	175	23.0	19.0	66
DEC						AUG					
09...	1120	6.64	4.0	- 1.0	67	16...	1030	17.7	21.0	25.0	97
FEB , 1983											
10...	0840	196	1.5	-12.0	63						

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 west of the 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., June 1976 reported depth 45 ft, screened 42 to 45 ft. November 1982 measured depth 40 ft.

DATUM.--Altitude of land-surface datum is 310 ft. Measuring point: Top of casing at land-surface datum, which is 2.2 ft above the general land surface.

REMARKS.--Water-quality records for the current year are published elsewhere in this report.

PERIOD OF RECORD.--June 1976 to September 1983 (discontinued).

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 4.48 ft below land-surface datum, Mar. 29, 1983; lowest measured, 7.95 ft below land-surface datum, Nov. 29, 1978.

WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 25	7.28	DEC 27	7.33	FEB 24	6.86	APR 26	4.52	JUN 29	5.99	AUG 29	7.01
NOV 17	7.19	JAN 24	6.91	MAR 29	4.48	MAY 09	4.67	JUL 27	6.57	SEP 26	7.23
29	7.22										

440730070035303. Local number, An 988B.

LOCATION.--Lat 44°07'23", long 70°04'02", Hydrologic Unit 01040002, on Bowdoin Road, 0.4 mi 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., October 1976 reported depth 100 ft, screened 95 to 100 ft. November 1982 measured depth 90 ft.

DATUM.--Altitude of land-surface datum is 220 ft. Measuring point: Top of casing 4.35 ft above land-surface datum.

REMARKS.--The reliability of current and historical records is questionable.

PERIOD OF RECORD.--November 1976 to September 1983 (discontinued).

440730070035304. Local number, An 988C.

LOCATION.--Lat 44°07'23", long 70°04'02", Hydrologic Unit 01040002, on Bowdoin Road, 0.4 mi 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., depth 43 ft, screened 38 to 43 ft. DATUM.--Altitude of land-surface datum is 220 ft. Measuring point: Top of pipe at land-surface datum, which is 2.7 ft above the general land surface.

PERIOD OF RECORD.--October 1976 to September 1983 (discontinued).

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 3.95 ft below land-surface datum, May 29, 1979; lowest measured, 6.34 ft, below land-surface datum, Jan. 27, 1981.

WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 25	5.94	DEC 27	5.45	FEB 16	6.23	MAR 29	4.35	MAY 26	5.19	AUG 29	5.41
NOV 15	5.10	JAN 24	5.27	FEB 24	5.61	APR 27	3.99	JUN 27	5.75S	SEP 27	5.50S
29	5.97					MAY 09	5.05	JUL 27	5.20		

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 north of the 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., November 1942 measured depth 11 ft, open end. May 1958 measured depth 8 ft, installed driven point depth 11 ft, screened 8 to 11 ft. May 1968 and November 1982 measured depth 8 ft.

DATUM.--Altitude of land-surface datum is 930 ft. Measuring point: Top of pipe 1.75 ft above land-surface datum.

REMARKS.--The reliability of current and historical records is questionable.

PERIOD OF RECORD.--November 1942 to September 1983 (discontinued).

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 north of the village of Portage Lake.

Owner: William Condon.

AQUIFER.--Bedrock of Ordovician age.

WELL CHARACTERISTICS.--Drilled observation artesian well, diameter 6 in., depth 81 ft, open hole. There is a 1.5 in., pipe in the center, depth 24 ft.

DATUM.--Land-surface datum is 713.08 ft above mean sea level (Maine Department of Transportation bench mark). Measuring point: Top of 1.5 in. 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 below land-surface datum, Jan. 13, 1976 and Feb. 25, 1977.

WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 12	3.20	DEC 17	2.00	FEB 12	6.00	APR 12	M	JUN 14	3.20	AUG 15	6.50
28	3.68	29	2.68	28	8.00	27	2.40	29	4.55	29	8.12
NOV 04	3.78	JAN 13	2.90	MAR 14	M	MAY 03	2.67	JUL 13	5.92	SEP 12	7.75
12	2.70	27	3.80	29	M	13	2.70	28	3.45	27	8.10
29	2.65					27	2.70				

M - Frozen

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 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., depth 42 ft, screened 33 to 42 ft.

DATUM.--Altitude of land-surface datum is 380 ft. Measuring point: Top of casing at land-surface datum, which is 4.4 ft below the general land surface.

REMARKS.--Water-quality records for the current year are published elsewhere in this report.

PERIOD OF RECORD.--September 1980 to September 1983 (discontinued).

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 1.86 ft below land-surface datum, Apr. 26, 1982; lowest measured, 5.62 ft below land-surface datum, Sep. 15, 1980.

WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 15	4.23	DEC 15	3.67	FEB 15	3.83	APR 16	2.78	JUN 15	3.36	AUG 15	3.99
25	4.39	27	3.47	23	4.03	25	2.43	25	3.33	25	4.14
NOV 03	4.48	JAN 15	3.55	MAR 15	3.50	MAY 03	2.42	JUL 15	3.77	SEP 15	4.45
15	3.54	25	3.76	25	2.37	16	2.91	25	3.64	26	4.39
25	3.57					26	3.31				

GROUND-WATER LEVELS

AROOSTOOK COUNTY--Continued

471457068353001. Local number, Ar 890.

LOCATION.--Lat 47°14'57", long 68°35'30", Hydrologic Unit 01010003, 0.25 mi 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., November 1976 constructed depth 50 ft, open end. November 1982 measured depth 48 ft.

DATUM.--Altitude of land-surface datum is 530 ft. Measuring point: Floor of recorder shelter at land-surface datum, which is 3.0 ft above the general land surface.

REMARKS.--Water levels, October 1979 to September 1981, were incorrectly reported from land surface. They should be referenced from land-surface datum. Water-quality records for the current year are published elsewhere in this report.

PERIOD OF RECORD.--November 1976 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level, 2.23 ft below land-surface datum, May 1, 1979; lowest, 15.28 ft below land-surface datum, Jan. 22 and 23, 1979.

WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	11.94	12.06	10.68	9.61	---	11.17	10.55	2.75	4.06	7.20	9.71	11.40
10	11.96	11.77	10.06	9.82	---	11.33	9.86	3.18	4.17	7.60	10.06	11.57
15	11.87	11.58	9.91	9.20	---	11.45	8.46	3.57	4.67	8.08	10.40	11.81
20	12.01	11.48	9.59	---	---	11.19	4.51	4.25	5.19	8.65	10.65	12.00
25	12.11	11.30	9.57	---	10.63	10.29	3.87	4.53	5.94	8.88	10.99	12.05
EQM	12.14	11.01	9.47	---	10.84	10.32	2.50	4.43	6.60	9.34	11.27	12.19
WTR YR 1983			HIGH			2.25 APR 28		LOW		12.19 SEP 29 AND 30		

463642069344601. Local number, Ar 891.

LOCATION.--Lat 46°36'42", long 69°34'46", Hydrologic Unit 01010002, about 2.7 mi west of the 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., depth 80 ft, open hole.

DATUM.--Altitude of land-surface datum is 1,050 ft. Measuring point: Electric tape gage index at land-surface datum, which is 2.8 ft above the general land surface.

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, 6.96 ft below land-surface datum, Apr. 26, 1983; lowest, 16.62 ft below land-surface datum, Aug. 23, 1982.

WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	14.65	15.29	13.20	14.24	13.85	14.64	13.64	9.28	11.91	14.94	15.25	16.29
10	14.70	14.10	12.60	14.59	13.99	14.74	12.32	---	11.93	15.25	15.48	16.28
15	14.79	13.35	12.52	14.14	14.22	14.49	12.09	---	13.11	15.48	15.78	16.33
20	15.08	14.06	13.16	14.38	14.51	14.12	---	12.78	12.57	15.74	15.94	16.19
25	15.34	13.63	13.80	14.31	14.37	13.16	7.98	12.67	13.95	15.08	16.19	15.59
EQM	15.64	12.94	13.65	14.73	14.49	13.52	---	11.17	14.71	15.25	16.25	15.71
WTR YR 1983			HIGH			6.96 APR 26		LOW		16.35 SEP 16		

CUMBERLAND COUNTY

435453070013601. Local number, C 26.

LOCATION.--Lat 43°54'53", long 70°01'36", Hydrologic Unit 01060001, 0.3 mi 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., reported depth 101 ft in 1953, screened 81 to 101 ft. November 1982 measured depth 96 ft.

DATUM.--Altitude of land-surface datum is 139 ft. Measuring point: Electric tape gage index 2.93 ft 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 means for March 20 and 25, 1977 have been revised to 28.61 ft and 28.44 ft respectively. These values supersede those previously published.

REVISED RECORDS.--WDR ME-82-1: 1978, 1981.

EXTREMES FOR PERIOD OF RECORD.--Highest water level, 27.10 ft below land-surface datum, Jan. 8, 1978; lowest 36.41 ft below land-surface datum, Feb. 10, 1966.

WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	31.18	31.53	31.69	31.89	31.99	---	30.69	29.33	28.92	29.06	29.58	29.96
10	31.23	31.61	31.72	31.96	32.02	---	30.66	29.26	28.87	29.14	29.62	30.03
15	31.23	31.62	31.78	31.90	32.01	31.83	30.42	29.18	28.82	29.19	29.71	30.15
20	31.37	31.62	31.73	31.95	---	31.55	30.26	29.23	28.88	29.29	29.74	30.21
25	31.45	31.66	31.81	31.94	---	31.00	29.98	29.24	28.91	29.37	29.86	30.31
FROM	31.50	31.67	31.88	31.96	---	30.79	29.53	29.06	29.03	29.51	29.91	30.38

WTR YR 1983

HIGH 28.82 JUN 12 AND 15

LOW 32.07 FEB 16

HANCOCK COUNTY

444950068220601. Local number, H 1.

LOCATION.--Lat 44°49'50", long 68°22'06", Hydrologic Unit 01050002, on State Highway 9, 0.25 mi west of the 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., depth 14 ft, cased with rock to 14 ft, open end.

DATUM.--Altitude of land-surface datum is 330 ft. Measuring point: Top edge of hole in base of recorder shelter 0.65 ft below land-surface datum. It is 1.4 ft above the general land surface.

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.

REVISED RECORDS.--WDR ME-82-1: 1981.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 2.10 ft below land-surface datum, May 29, 1961; lowest estimated, 17.8 ft below land-surface datum Sept. 27, 1965. Well goes dry frequently.

WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	13.07	---	6.15	5.55	4.52	5.47	4.25	3.74	4.15	7.98	9.95	11.69
10	13.26	10.76	6.19	6.02	---	5.56	4.50	4.15	4.79	8.08	10.25	12.08
15	13.30	9.01	6.38	5.23	---	4.05	3.82	4.63	5.34	8.71	9.84	12.44
20	13.23	6.97	5.84	5.46	---	3.48	2.93	5.06	5.93	9.34	10.19	12.86
25	13.37	6.56	6.03	5.20	---	---	2.50	5.16	6.60	9.20	10.77	12.48
FROM	---	6.37	5.56	5.43	4.63	3.98	3.31	4.22	7.34	9.68	11.25	12.71

WTR YR 1983

HIGH 2.50 APR 25

LOW 13.37 OCT 25

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 south of Southwest Harbor.

Owner: National Park Service.

AQUIFER.--Bedrock of Devonian age.

WELL CHARACTERISTICS.--Drilled observation artesian well, diameter 6 in., depth 175 ft, open hole.

DATUM.--Altitude of land-surface datum is 40 ft. Measuring point: Top of casing 1.3 ft 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 below land-surface datum, May 6, 1982; lowest measured, 11.5 ft below land-surface datum, Nov. 4, 1982.

WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 07	9.7	DEC 02	9.9	FEB 03	8.8	APR 07	8.6	JUN 02	7.8	AUG 11	10.5
21	10.8	16	9.7	17	9.6	21	9.2	23	8.3	25	10.2
NOV 04	11.5	JAN 06	9.6	MAR 03	7.8	MAY 05	9.7	JUL 14	9.2	SEP 08	10.7
08	10.3	20	10.0	17	7.8	19	7.6	28	9.7	22	10.0
18	10.0										

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 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., depth 22 ft, cased with rock to 22 ft, open end.

DATUM.--Altitude of land-surface datum is 220 ft. Measuring point: Top of shelter house floor 0.07 ft below land-surface datum.

REMARKS.--Water-quality records for the current year are published elsewhere in this report.

PERIOD OF RECORD.--December 1960 to current year.

REVISED RECORDS.--WDR ME-82-1: 1978, 1979, 1981.

EXTREMES FOR PERIOD OF RECORD.--Highest water level, 3.02 ft below land-surface datum, Apr. 25, 1983; lowest, 15.61 ft below land-surface datum, Nov. 28-30, 1978.

WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	9.32	9.97	---	---	4.35	---	4.07	4.19	4.44	7.41	8.52	9.67
10	9.46	9.74	---	---	5.25	---	4.41	4.74	5.05	7.57	8.72	9.95
15	9.55	---	---	---	5.87	---	4.35	5.04	5.70	7.74	8.90	10.26
20	9.56	---	---	---	6.28	---	4.07	5.32	6.21	7.96	8.95	10.62
25	9.64	---	---	4.86	6.46	---	3.02	4.74	6.69	8.15	9.10	10.94
EOM	9.79	---	---	5.57	6.57	---	4.41	3.73	7.05	8.34	9.41	11.27
WTR YR 1983	HIGH 3.02 APR 25			LOW 11.27 SEP 30								

442023069553801. Local number, K 88.

LOCATION.--Lat 44°20'21", long 69°55'37", Hydrologic Unit 01030003, on State Highway 135, 1.4 mi 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., April 1962 measured depth (partially obstructed) 298 ft, open hole. November 1982 measured depth 436 ft.

DATUM.--Altitude of land-surface datum is 350 ft. Measuring point: Top of pipe at land-surface datum.

REMARKS.--The reliability of current and historical records is questionable.

PERIOD OF RECORD.--April 1962 to September 1983 (discontinued).

KENNEBEC COUNTY--Continued

440918069564001. Local number, K 766.

LOCATION.--Lat 44°09'18", long 69°56'40", Hydrologic Unit 01030003, 690 ft 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., depth 62 ft, cased to 59 ft, open end.

DATUM.--Altitude of land-surface datum is 300 ft. Measuring point: Floor of recorder shelter at land-surface datum, which is 2.7 ft above the general land surface. Previously reported without 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. Water-quality records for the current year are published elsewhere in this report.

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 below land-surface datum, Apr. 29, 1979; lowest, 51.46 ft below land-surface datum, Sept. 21-24, 1981.

WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	49.05	49.82	50.24	50.76	49.33	48.81	45.37	42.38	42.62	43.98	45.14	46.16
10	---	49.91	50.36	50.83	49.84	49.26	45.57	42.77	42.91	44.16	45.37	46.34
15	---	49.96	50.44	50.36	49.95	46.92	44.85	42.91	43.11	44.37	45.45	46.54
20	---	49.97	50.51	50.55	50.07	45.71	44.35	43.05	43.32	44.58	45.59	46.77
25	49.59	50.05	50.49	50.62	50.13	44.97	42.41	43.15	43.55	44.73	45.82	46.90
EOB	49.71	50.15	50.67	50.64	50.22	45.12	42.29	42.44	43.79	44.93	46.03	47.05
WTR YR 1983				HIGH	40.91	APR 26				LOW	50.83	JAN 10

440810069553601. Local number, K 872 A.

LOCATION.--Lat 44°08'17", long 69°55'36", Hydrologic Unit 01030003, on Small Road, 0.40 mi north of State Highway 197, Litchfield.

Owner: Stephen Condon.

AQUIFER.--Bedrock of Devonian age.

WELL CHARACTERISTICS.--Drilled observation artesian well, diameter 6 in., depth 404 ft, cased to bedrock, open end.

DATUM.--Altitude of land-surface datum is 220 ft. Measuring point: Top of casing at land-surface datum, which is 2.2 ft above the general land surface.

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.

REVISED RECORDS.--WDR ME-82-1: 1980.

EXTREMES FOR PERIOD OF RECORD.--Highest water level, 6.35 ft below land-surface datum, Apr. 25, 1983; lowest, 19.11 ft below land-surface datum, Oct. 4, 1980.

WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	16.85	16.51	11.19	10.93	8.58	8.72	9.22	9.27	9.30	13.04	16.27	17.17
10	16.96	16.07	11.33	11.17	9.88	9.04	9.81	10.00	10.32	13.15	16.59	17.50
15	16.81	12.26	11.66	9.50	10.29	8.43	9.27	10.21	11.11	13.58	16.49	17.78
20	16.48	11.47	11.13	10.16	10.46	6.96	8.91	10.40	11.55	14.09	16.52	18.03
25	16.37	11.42	11.36	9.35	10.52	8.72	6.35	9.75	12.21	14.68	16.86	18.18
EOB	16.46	11.32	10.52	10.15	10.60	9.04	9.20	7.98	12.71	15.81	17.28	18.24
WTR YR 1983				HIGH	6.35	APR 25				LOW	19.24	SEP 30

GROUND-WATER LEVELS

OXFORD COUNTY

444637070552301. Local number, O 400.

LOCATION.--Lat 44°46'37", long 70°55'23", Hydrologic Unit 01040001, at Middle Dam, Lower Richardson Lake.

Owner: Union Water Power Co.

AQUIFER.--Glacial till of Pleistocene age.

WELL CHARACTERISTICS.--Dug observation water-table well, diameter 24 in., depth 15 ft, cased with concrete pipe to 15 ft, open end.

DATUM.--Altitude of land-surface datum is 1,450 ft. Measuring point: Top of concrete pipe 1.8 ft above land-surface datum. Formerly it was land surface at land-surface datum. Prior to October 1981 it was incorrectly reported as top of casing, 2.0 ft above land-surface datum.

REMARKS.--Prior to 1973 well was used for domestic supply.

PERIOD OF RECORD.--April 1944 to current year. Records from May 16 to September 30, 1982 are unreliable and should not be used.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 0.4 ft above land-surface datum, Apr. 11, 1976; lowest measured, 12.2 ft below land-surface datum, Oct. 9, 16, 23, 1966.

WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
FEB 20	5.20	APR 03	2.90	MAY 15	1.20	JUN 12	2.87	JUL 17	5.50	AUG 21	8.47
27	5.60	10	1.40	22	1.30	19	2.90	24	5.90	28	8.98
MAR 06	4.60	17	.60	29	1.30	26	3.93	31	7.58	SEP 04	9.24
13	4.30	24	.60	JUN 05	2.50	JUL 03	4.69	AUG 07	8.95	11	9.57
27	2.70	MAY 01	.90	08	3.69	11	4.90	14	8.63	18	10.37

440642070583401. Local number, O 615.

LOCATION.--Lat 44°06'41", long 70°58'32", Hydrologic Unit 01060002, at the 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., depth 40 ft, which is screened 35 to 40 ft.

DATUM.--Altitude of land-surface datum is 390 ft. Measuring point: Top of casing at land-surface datum, which is 2.9 ft above the general land surface.

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

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 4.20 ft below land-surface datum, Mar. 20, 1983; lowest measured, 11.58 ft below land-surface datum, Oct. 1, 1978.

WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
NOV 16	9.32	JAN 22	8.90	MAR 20	4.20	APR 30	5.30	JUN 01	5.80	AUG 04	9.80
DEC 04	9.05	FEB 06	7.90	APR 10	5.45	MAY 11	6.08	JUL 11	9.10	SEP 14	10.10

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., August 1978 constructed depth 21 ft, screened 16 to 21 ft. November 1982 measured depth 20 ft.

DATUM.--Altitude of land-surface datum is 650 ft. Measuring point: Top of casing 0.6 ft below land-surface datum, which is 2.0 ft above the general land surface.

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

REVISIONS.--The date of the March 3, 1979 water level is in error. The correct date is March 16, 1979.

REVISED RECORDS.--WDR ME-82-1: 1979, 1980, 1981.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 6.6 ft below land-surface datum, May 1 and 16, 1983; lowest measured, 12.6 ft below land-surface datum, Nov. 16, 1978.

WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 18	12.1	NOV 29	12.1	JAN 28	10.3	MAR 29	8.1	MAY 16	6.6	AUG 15	10.1
NOV 01	12.3	DEC 14	12.1	FEB 15	9.9	APR 15	7.9	26	6.9	29	10.3
15	12.1	28	11.6	26	10.1	MAY 01	6.6	JUN 28	8.4	SEP 15	10.1
16	12.2	JAN 14	10.3	MAR 14	9.1	11	6.9	JUL 29	10.3	28	10.3

GROUND-WATER LEVELS
OXFORD COUNTY--Continued

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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 east of the 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., September 1980 constructed depth 39 ft, cased with 6 in. steel to 35 ft, screened 35 to 39 ft. November 1982 measured depth 38 ft.

DATUM.--Elevation of measuring-point datum is 334.04 ft. Measuring point: Mark on electric tape gage, which is 1.2 ft above the general land surface.

REMARKS.--Test hole adjacent to this well shows a depth to bedrock of 174 ft. Water levels, September 1980 to September 1981, were incorrectly reported below land surface. They should be referenced from the measuring-point datum. Water-quality records for the current year are published elsewhere in this report.

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

REVISED RECORDS.--WDR ME-82-1: 1981.

EXTREMES FOR PERIOD OF RECORD.--Highest water level, 5.82 ft below measuring-point datum, Jun. 2, 1982; lowest, 10.13 ft below measuring-point datum, Oct. 23-25, 1980.

WATER LEVEL, IN FEET BELOW MEASURING-POINT DATUM, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	9.15	9.50	9.58	9.76	9.12	9.02	7.22	6.00	5.84	6.88	7.55	---
10	9.19	9.56	9.63	9.79	9.13	8.91	7.13	6.13	6.05	6.76	7.68	---
15	9.26	9.50	9.66	9.37	9.16	8.34	6.87	6.27	6.24	6.99	7.64	---
20	9.32	9.43	9.68	9.35	9.22	7.81	6.80	6.43	6.37	7.15	7.76	---
25	9.38	9.45	9.70	9.31	9.31	7.26	6.55	6.45	6.52	7.27	---	8.49
FOU	9.45	9.52	9.73	9.30	9.36	7.24	6.10	6.04	6.71	7.47	---	8.59
WTR YR 1983				HIGH	5.82 JUN 2			LOW	9.79 JAN 9 AND 10			

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 north of the 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., depth 23 ft, cased with rock to 23 ft, open end.

DATUM.--Altitude of land-surface datum is 410 ft. Measuring point: Painted nail in north side of windlass housing 0.07 ft below land-surface datum, which is 2.7 ft above the general land-surface.

REMARKS.--Water levels are infrequently affected by pumping.

PERIOD OF RECORD.--November 1975 to September 1983 (discontinued).

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 2.55 ft below land-surface datum, Mar. 15, 1979; lowest measured, 15.78 ft below land-surface datum, Oct. 15, 1978.

WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 15	14.66	DEC 11	8.13	FEB 13	6.30	APR 13	3.76	JUN 13	5.52	AUG 11	8.18
24	14.55	26	7.33	26	7.19	24	4.10	26	7.12	28	9.47
NOV 02	14.44	JAN 15	5.50	MAR 13	5.17	MAY 02	3.77	JUL 14	7.24	SEP 11	10.51
14	15.18	30	6.53	26	4.16	14	4.21	27	7.22	24	11.55
28	10.27					28	3.62				

GROUND-WATER LEVELS
PENOBSCOT COUNTY--Continued

445319068560101. Local number, Pe 456.

LOCATION.--Lat 44°53'19", long 68°56'01", Hydrologic Unit 01020005, on Kenduskeag-Levant Road, 2.5 mi 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., depth 98 ft, open hole.

DATUM.--Altitude of land-surface datum is 190 ft. Measuring point: Floor of fiberglass shelter 0.36 ft above land-surface datum, which is 4.3 ft above the general land surface.

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, 14.92 ft below land-surface datum, Apr. 26, 1983; lowest, 26.64 ft below land-surface datum, Nov. 6, 1982.

WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	26.23	26.61	24.29	23.40	21.44	21.13	18.60	16.59	18.57	21.62	22.90	24.07
10	26.31	26.61	24.07	23.36	21.22	20.84	18.83	17.32	19.18	21.77	23.11	24.27
15	26.42	26.25	23.94	22.54	21.28	19.40	18.02	18.03	19.75	22.10	23.27	24.47
20	26.47	25.41	23.77	22.40	21.60	18.72	15.75	18.74	20.29	22.29	23.47	24.64
25	26.51	24.99	23.76	22.21	21.74	17.74	15.47	19.25	20.81	22.34	23.70	24.80
END	26.55	24.63	23.54	22.08	21.89	18.22	15.94	18.95	21.29	22.66	23.90	24.95
WTR YR 1983												
HIGH				14.92 APR 26			LOW		26.64 NOV 6			

451955068344501. Local number, Pe 457.

LOCATION.--Lat 45°19'55", long 68°34'45", Hydrologic Unit 01020005, in Lincoln about 0.2 mi, 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., depth 39 ft, cased with iron pipe, open hole.

DATUM.--Altitude of land-surface datum is 200 ft. Measuring point: Top of casing 3.6 ft above land-surface datum.

REMARKS.--Water levels may be affected by pumping from nearby municipal well.

PERIOD OF RECORD.--July 1982 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 17.97 ft below land-surface datum, May 2, 1983; lowest measured, 24.72 ft below land-surface datum, Sept. 17, 1983

WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 21	24.20	FEB 01	23.20	MAR 17	22.02	MAY 02	17.97	JUN 15	20.78	JUL 25	22.49
NOV 03	24.19	17	21.80	APR 01	21.79	16	18.50	JUL 01	21.89	AUG 15	23.11
JAN 02	22.16	MAR 01	22.55	15	21.27	JUN 02	20.30	15	22.74	24	24.50
17	21.60									SEP 17	24.72

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 north of the village of Mercer.

Owner: J. Harrison Farrand.

AQUIFER.--Eolian deposits of late Pleistocene age.

WELL CHARACTERISTICS.--Dug observation water-table well, diameter 60 in., November 1942 measured depth 14 ft, cased with rock to 14 ft, open end. November 1982 measured depth 12 ft.

DATUM.--Altitude of land-surface datum is 270 ft. Measuring point: Nail in top of horizontal timber at northeast corner of well cover, 0.72 ft above land-surface datum.

REMARKS.--The reliability of current and historical records is questionable.

PERIOD OF RECORD.--November 1942 to September 1983 (discontinued).

SOMERSET COUNTY--Continued

450234069525701. Local number, Sm 48.

LOCATION.--Lat 45°02'34", long 69°52'57", Hydrologic Unit 01030003, 500 ft west of State Highway 16, 0.6 mi south of the end of the Bingham-Concord bridge, and 1.0 mi 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., depth 45 ft, cased with iron pipe, open end.

DATUM.--Altitude of land-surface datum is 350 ft. Measuring point: Top of casing 0.6 ft above land-surface datum.

REMARKS.--The reliability of current and historical records is questionable.

PERIOD OF RECORD.--July 1981 to September 1983 (discontinued).

454105070170201. Local number, Sm 49.

LOCATION.--Lat 45°41'05", long 70°17'02", Hydrologic Unit 01030001, in Dennistown, about 0.6 mi 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., depth 15 ft, cased with field stone to 15 ft, open end.

DATUM.--Altitude of land-surface datum is 1430 ft. Measuring point: Top of board cover at land-surface datum.

REMARKS.--The reliability of current and historical records is questionable.

PERIOD OF RECORD.--May 1981 to September 1983 (discontinued).

454105070170202. Local number, Sm 49A.

LOCATION.--Lat 45°41'05", long 70°17'02", Hydrologic Unit 01030001, in Dennistown, about 0.6 mi 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., depth 14 ft, cased with field stone to 14 ft, open end.

DATUM.--Altitude of land-surface datum is 1440 ft. Measuring point: Chiseled square on top of board set across well 0.5 ft above land-surface datum.

REMARKS.--The reliability of current and historical records is questionable.

PERIOD OF RECORD.--June 1981 to September 1983 (discontinued).

WALDO COUNTY

442858068593201. Local number, Wo 78.

LOCATION.--Lat 44°28'58", long 68°59'32", Hydrologic Unit 01050002, near the 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., depth 42 ft, screened 27 to 42 ft.

DATUM.--Altitude of land-surface datum is 200 ft. Measuring point: Base of pump 1.4 ft above land-surface datum.

REMARKS.--Water levels may be affected by pumping.

PERIOD OF RECORD.--February 1980 to September 1983 (discontinued).

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 7.9 ft below land-surface datum, May 3 and 31, 1983; lowest measured, 21.6 ft below land-surface datum, Jan. 11, 1983.

WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 05	12.2	DEC 07	15.4	FEB 01	16.9	APR 05	13.9	JUN 07	8.4	AUG 02	11.1
12	11.7	14	16.1	08	17.1	12	13.4	14	8.6	09	11.6
19	13.4	21	15.8	15	16.8	20	11.2	21	8.8	16	11.9
26	13.6	28	15.6	22	16.6	26	9.1	28	9.4	23	10.6
NOV 02	14.6	JAN 04	21.0	MAR 02	17.9	MAY 03	7.9	JUL 05	9.7	30	12.0
09	14.8	11	21.6	08	17.2	10	8.1	12	10.6	SEP 06	10.6
16	14.6	18	21.4	15	16.3	17	8.1	19	10.8	13	12.6
23	15.1	25	21.5	22	15.3	24	8.3	26	11.1	20	12.5
30	14.7			29	14.3	31	7.9			27	11.8

WALDO COUNTY--Continued

442858068593202. Local number, W 79.

LOCATION.--Lat 44°28'58", long 68°59'32", Hydrologic Unit 01050002, near the 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., July 1955 constructed depth 54 ft, cased with iron pipe. November 1982 measured depth 39 ft.

DATUM.--Altitude of land-surface datum is 200 ft. Measuring point: Top of casing 1.1 ft above land-surface datum.

REMARKS.--The reliability of current and historical records is questionable.

PERIOD OF RECORD.--February 1980 to September 1983 (discontinued).

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 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., July 1958 reported depth 54 ft, open hole. November 1982 measured depth 72 ft.

DATUM.--Altitude of land-surface datum is 140 ft. Measuring point: Top of 1 inch hole in well cover at land-surface datum, which is 1.5 ft above the general land surface.

REMARKS.--Well is used for stock supply. Water-quality records for the current year are published elsewhere in this report.

PERIOD OF RECORD.--July 1958 to August 1973, October 1974 to September 1983 (discontinued).

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 5.29 ft below land-surface datum, Apr. 16, 1961; lowest measured, 14.80 ft below land-surface datum, Oct. 31, 1977.

WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 19	10.75	DEC 01	9.55	FEB 16	10.07	APR 19	6.57	JUN 01	9.67	AUG 15	10.85
NOV 02	11.16	15	10.05	28	10.55	MAY 02	8.71	16	11.95	30	11.72
09	9.82	31	8.96	MAR 16	7.99	04	7.55	30	12.51	SEP 19	12.12
18	9.10	JAN 18	9.84	31	8.33	05	18.24	JUL 15	11.88	29	11.55
		31	9.58			18	10.88	29	11.33		

444955067000501. Local number, W 2.

LOCATION.--Lat 44°49'53", long 67°00'05", Hydrologic Unit 01050002, on Maple Tree Road, 1.0 mi 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., July 1957 constructed depth 50 ft, screened 40 to 50 ft. July 1958 measured depth 45 ft. November 1982 measured depth 37 ft.

DATUM.--Altitude of land-surface datum is 50 ft. Measuring point: Top of casing at land-surface datum, which is 1.6 ft above the general land surface.

REMARKS.--The reliability of current and historical records is questionable.

PERIOD OF RECORD.--July 1958 to September 1983 (discontinued).

WASHINGTON COUNTY--Continued

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 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., September 1967 reported depth 150 ft, cased with steel to 21 ft, open hole. November 1982 measured depth 146 ft.

DATUM.--Altitude of land-surface datum is about 130 ft. Measuring point: Top of casing at land-surface datum, which is 0.8 ft above the general land surface.

REMARKS.--Water-quality records for the current year are published elsewhere in this report.

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, Apr. 16, 1982, Mar. 20 and 26, Apr. 22 and 28, May 4, and Jun. 1, 1983; lowest measured, 5.34 ft below land-surface datum, Sept. 16, 1980.

WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 17	4.27	NOV 27	2.62	JAN 28	2.55	MAR 26	Q	MAY 19	0.69	JUL 15	4.70
NOV 01	5.07	DEC 20	2.59	FEB 15	2.74	APR 22	Q	JUN 01	Q	JUL 28	3.63
10	2.22	28	3.07	27	4.44	28	Q	18	2.83	AUG 13	3.97
16	.68	JAN 19	3.13	MAR 20	Q	MAY 04	Q	JUL 03	3.57	AUG 27	4.17
										SEP 21	4.36

Q - Flowing

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 east of the 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., November 1943 measured depth 24 ft, cased with brick to 24 ft, open end. November 1982 measured depth 21 ft.

DATUM.--Altitude of land-surface datum is 370 ft. Measuring point: Upper edge of notch in house floor 0.67 ft above land-surface datum.

REMARKS.--The reliability of current and historical records is questionable.

PERIOD OF RECORD.--November 1943 to September 1983 (discontinued).

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983

STATION NUMBER	GEO-LOGIC UNIT	DATE	TIME	SAM-PLING DEPTH (FEET)	SPE-CIFIC CON-DUCT-ANCE LAB (UMHOS)	PH LAB (UNITS)	TEMPER-ATURE (DEG C)	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)
ANDROSCOGGIN COUNTY											
440438070261601	112ICCC	82-11-17	0945	40.0	38	6.5	7.5	14	0.0	4.3	0.8
	112ICCC	83-05-09	1040	40.0	42	6.2	8.0	17	0.0	5.2	0.99
AROSTOOK COUNTY											
460728067513201	112ICCC	82-11-03	1145	38.0	338	7.7	9.5	110	0.0	33	6.7
	112ICCC	83-05-03	1820	38.0	1100	7.4	9.5	370	0.0	89	36
471457048353001	112ICCC	82-11-04	1015	48.0	178	8.1	7.0	90	1.0	31	3.1
	112ICCC	83-05-03	1315	48.0	181	7.7	7.5	88	0.0	30	3.1
KENNEBEC COUNTY											
441849069442001	112TILL	82-11-01	1525	22.0	286	6.7	8.5	87	37	23	7.1
	112TILL	83-05-10	0945	10.0	179	5.9	7.5	51	21	13	4.4
440918069564001	112ICCC	82-11-18	1200	62.0	165	6.4	8.0	51	20	17	2.0
	112ICCC	83-05-10	1300	62.0	175	5.7	8.5	57	21	19	2.3
OXFORD COUNTY											
440823070291501	112DTSH	82-11-17	1350	38.0	61	6.8	8.0	21	0.0	6.0	1.5
	112DTSH	83-05-09	1230	38.0	64	6.4	10.7	25	1.0	7.0	1.9
PENOBSCOT COUNTY											
451047068512201	112TILL	82-11-02	1245	23.0	64	6.4	9.0	26	0.0	8.4	0.98
	112TILL	83-05-02	1500	5.6	50	6.2	8.0	19	2.0	6.6	0.72
WASHINGTON COUNTY											
444240067283501	300BDRK	82-11-09	1000	72.0	205	7.0	9.0	95	1.0	34	2.4
	300BDRK	83-05-05	0855	72.0	196	6.7	9.0	80	0.0	28	2.4
450713067162801	300BDRK	82-11-10	1010	29.0	179	7.9	8.0	31	0.0	10	1.5
	300BDRK	83-05-04	1215	61.0	206	7.7	8.0	30	0.0	9.5	1.6

Geologic unit (aquifer):

112ICCC - Ice-contact deposits, Pleistocene age.

112DTSH - Outwash, Pleistocene age.

112TILL - Till, Pleistocene age.

300BDRK - Bedrock, undifferentiated.

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983

STATION	NUMBER	SODIUM, DIS- SOLVED (MG/L AS NA)	PERCENT SODIUM	SODIUM AD- SORP- TION RATIO	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)	SOLIDS, RESIDUE AT 180 DEG. C DIS- SOLVED (MG/L)	SOLIDS, SUM OF CONSTITUENTS, DIS- SOLVED (MG/L)
ANDROSCOGGIN COUNTY.--Continued												
440438070261601		1.8 2.3	21 22	0.2 0.3	0.6 0.6	17 19	3.0 2.8	1.1 1.5	<0.1 <0.1	13 12	33 38	35 37
ARODSTOOK COUNTY.--Continued												
460728067513201		25 83	38 32	1.4 2.0	1.7 6.0	119 424	2.0 25	35 96	<0.1 <0.1	1.9 14	185 628	181 613
471457068353001		3.0 3.0	7 7	0.1 0.1	0.2 0.3	89 89	11 7.3	0.9 0.7	<0.1 <0.1	10 9.6	115 133	113 108
KENNEBEC COUNTY.--Continued												
441849069442001		24 13	37 35	1.2 0.9	2.2 1.6	50 30	15 15	51 26	<0.1 <0.1	11 11	172 105	164 102
440918069564001		9.2 9.4	28 26	0.6 0.6	1.3 1.6	31 36	10 9.1	15 16	<0.1 <0.1	11 12	108 125	86 93
OXFORD COUNTY.--Continued												
440823070291501		2.8 3.0	21 19	0.3 0.3	1.5 1.8	25 24	8.0 10	1.5 1.7	<0.1 <0.1	20 19	59 62	58 61
PENOBSCOT COUNTY.--Continued												
451047068512201		1.5 1.1	11 11	0.1 0.1	0.9 0.7	30 17	3.0 5.0	0.6 0.9	<0.1 <0.1	5.8 3.5	75 46	44 29
WASHINGTON COUNTY.--Continued												
444240067283501		6.9 6.2	13 14	0.3 0.3	1.7 2.1	94 81	13 9.3	3.5 3.0	<0.1 <0.1	16 15	126 106	136 117
450713067162801		29 33	67 70	2.4 2.7	0.2 0.3	61 68	17 17	9.8 12	0.3 0.4	13 13	114 118	118 128

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983

STATION NUMBER	NITRO- GEN, NO2+NO3 TOTAL (MG/L AS N)	PHOS- PHORUS, TOTAL (MG/L AS P)	PHOS- PHORUS TOTAL (MG/L AS P04)	IRON, TOTAL RECOV- ERABLE (UG/L AS FE)	IRON, SUS- PENDE RECOV- ERABLE (UG/L AS FE)	IRON, DIS- SOLVED (UG/L AS FE)	MANGA- NESE, TOTAL RECOV- ERABLE (UG/L AS MN)	MANGA- NESE, SUS- PENDE RECOV. (UG/L AS MN)	MANGA- NESE, DIS- SOLVED (UG/L AS MN)	CARBON, ORGANIC TOTAL (MG/L AS C)
ANDROSCOGGIN COUNTY.--Continued										
440438070261601	<0.1	0.02	0.06	3600	3500	77	30	20	8	0.4
	<0.1	<0.01	--	6500	6300	220	50	10	37	0.9
AROSTOOK COUNTY.--Continued										
460728067513201	<0.1	0.02	0.06	7300	300	7000	410	70	340	8.4
	<0.1	0.03	0.09	11000	5200	5800	3100	200	2900	8.7
471457068353001	0.1	0.07	0.21	11000	11000	98	340	240	99	0.7
	<0.1	0.02	0.06	5400	5400	34	150	50	100	1.6
KENNEBEC COUNTY.--Continued										
441849069442001	<0.1	0.02	0.06	4100	0.00	4100	270	40	230	1.7
	<0.1	<0.01	--	220	170	48	10	8	2	2.3
440918069564001	3.3	0.36	1.1	38000	37000	1500	230	200	35	1.4
	3.6	0.06	0.18	19000	17000	1600	110	80	35	1.4
OXFORD COUNTY.--Continued										
440823070291501	<0.1	0.02	0.06	5800	4600	1200	840	80	760	0.5
	<0.1	0.01	0.03	4700	3400	1300	840	0.00	860	--
PENOBSCOT COUNTY.--Continued										
451047068512201	0.1	0.09	0.28	4600	600	4000	140	40	100	3.9
	0.2	0.02	0.06	50	40	9.00	10	--	<1	3.1
WASHINGTON COUNTY.--Continued										
444240067283501	<0.1	<0.01	--	13000	11000	1600	170	100	74	1.0
	<0.1	0.03	0.09	45000	43000	1800	300	180	120	1.5
450713067162801	0.2	0.01	0.03	8200	8200	25	90	80	11	0.9
	<0.1	0.11	0.34	8200	8100	64	140	130	6	2.2

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FACTORS FOR CONVERTING INCH-POUND UNITS TO INTERNATIONAL SYSTEM UNITS (SI)

The following factors may be used to convert the inch-pound units published herein to the International System of Units (SI). This report contains both the inch-pound and SI unit equivalents in the station manuscript descriptions.

Multiply inch-pound units	By	To obtain SI units
<i>Length</i>		
inches (in)	2.54×10^1	millimeters (mm)
	2.54×10^{-2}	meters (m)
feet (ft)	3.048×10^{-1}	meters (m)
miles (mi)	1.609×10^0	kilometers (km)
<i>Area</i>		
acres	4.047×10^3	square meters (m ²)
	4.047×10^{-1}	square hectometers (hm ²)
	4.047×10^{-3}	square kilometers (km ²)
square miles (mi ²)	2.590×10^0	square kilometers (km ²)
<i>Volume</i>		
gallons (gal)	3.785×10^0	liters (L)
	3.785×10^0	cubic decimeters (dm ³)
	3.785×10^{-3}	cubic meters (m ³)
million gallons	3.785×10^3	cubic meters (m ³)
	3.785×10^{-3}	cubic hectometers (hm ³)
cubic feet (ft ³)	2.832×10^1	cubic decimeters (dm ³)
	2.832×10^{-2}	cubic meters (m ³)
cfs-days	2.447×10^3	cubic meters (m ³)
	2.447×10^{-3}	cubic hectometers (hm ³)
acre-feet (acre-ft)	1.233×10^3	cubic meters (m ³)
	1.233×10^{-3}	cubic hectometers (hm ³)
	1.233×10^{-6}	cubic kilometers (km ³)
<i>Flow</i>		
cubic feet per second (ft ³ /s)	2.832×10^1	liters per second (L/s)
	2.832×10^1	cubic decimeters per second (dm ³ /s)
	2.832×10^{-2}	cubic meters per second (m ³ /s)
gallons per minute (gal/min)	6.309×10^{-2}	liters per second (L/s)
	6.309×10^{-2}	cubic decimeters per second (dm ³ /s)
	6.309×10^{-5}	cubic meters per second (m ³ /s)
million gallons per day	4.381×10^1	cubic decimeters per second (dm ³ /s)
	4.381×10^{-2}	cubic meters per second (m ³ /s)
<i>Mass</i>		
tons (short)	9.072×10^1	megagrams (Mg) or metric tons

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