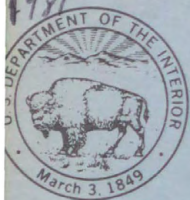
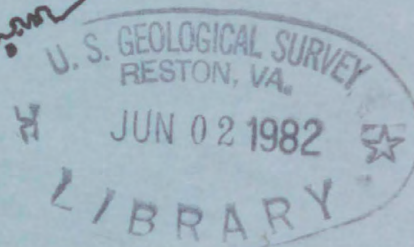
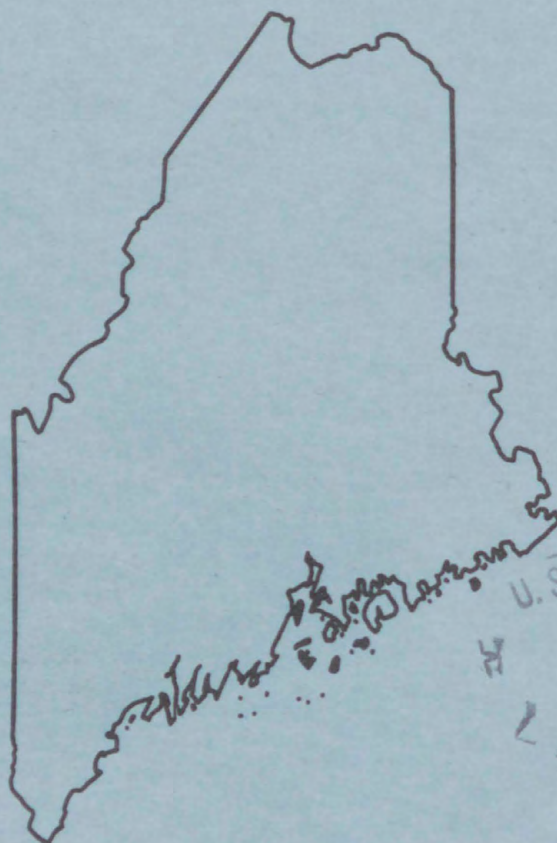


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Water Resources Data Maine Water Year 1981



U.S. GEOLOGICAL SURVEY WATER-DATA REPORT ME-81-1
Prepared in cooperation with the State of Maine
and with other agencies

CALENDAR FOR WATER YEAR 1981

1980

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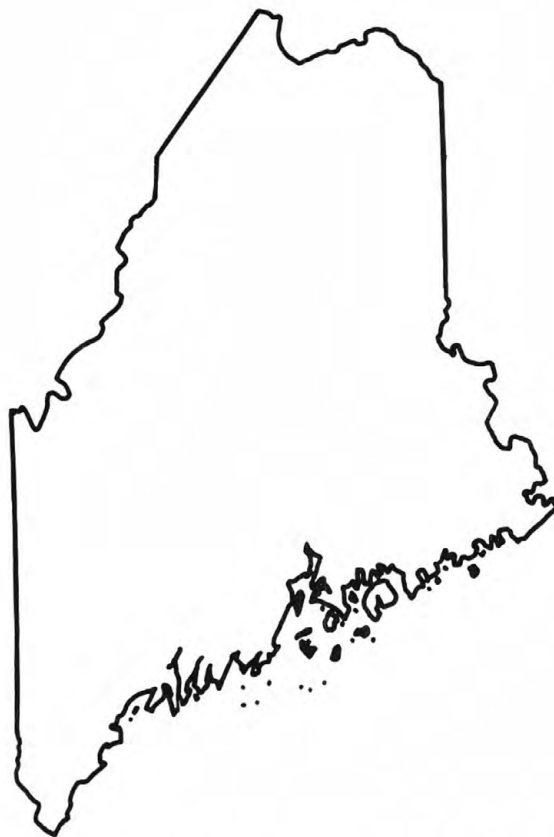
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Water Resources Data Maine Water Year 1981



U.S. GEOLOGICAL SURVEY WATER-DATA REPORT ME-81-1
Prepared in cooperation with the State of Maine
and with other agencies

UNITED STATES DEPARTMENT OF THE INTERIOR

JAMES G. WATT, Secretary

GEOLOGICAL SURVEY

Dallas L. Peck, Director

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Subdistrict Chief, Water Resources Division
U.S. Geological Survey
26 Ganneston Drive
Augusta, ME 04330

PREFACE

This report was prepared by personnel of the Maine Subdistrict, New England District of the Water Resources Division of the U.S. Geological Survey under the supervision of D.J. Cowing, Sub-district Chief, I.C. James, II, District Chief, and J.E. Biesecker, Regional Hydrologist, Northeastern Region. It was done in cooperation with the State of Maine, and with other agencies.

Maine subdistrict personnel directly responsible for the collection, analysis, and publication of the data contained herein are: R.A. Morrill and G.C. Prescott, Jr., Supervisory hydrologists; J.T. Adamik, R.A. Fontaine, C.R. Haskell, T.J. Maloney, D.J. Morrissey, W.J. Nichols, G.W. Parker, J.A. Smath, and D.H. Tepper, hydrologists; W.B. Higgins, G.R. Keezer, R.G. Lippert, M.A. Morgan, and J.D. Scerra, hydrologic technicians; and P.G. Clark, G.L. Laliberte, and M.L. Rogers.

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

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CONTENTS

	Page
Preface.....	III
List of gaging stations, in downstream order, for which records are published.....	VI
Introduction.....	1
Cooperation.....	1
Hydrologic conditions.....	3
Definition of terms.....	3
Downstream order and station numbers.....	10
Numbering system for wells and miscellaneous sites.....	10
Special networks and programs.....	11
Explanation of stage and water-discharge records.....	11
Collection and computation of data.....	11
Accuracy of field data and computed results.....	13
Other data available.....	13
Explanation of water-quality records.....	14
Collection and examination of data.....	14
Water analysis.....	14
Water temperature.....	14
Sediment.....	14
Explanation of ground-water level records.....	15
Collection of the data.....	15
Publications on techniques of water-resources investigations.....	16
Gaging station records.....	17
Discharge at partial-record stations and miscellaneous sites.....	188
Measurements made at miscellaneous sites.....	188
Miscellaneous temperature and specific conductance determinations.....	190
Ground-water records.....	197
Ground-water level records.....	197
Quality of ground water records.....	209
Index.....	211

ILLUSTRATIONS

Figure 1. Map showing location of data collection stations.....	2
2. Comparison of discharge at three long-term index gaging stations during 1981 water year with median discharge for period 1951-80.....	4
3. System for numbering wells and miscellaneous sites.....	10

TABLES

Factors for converting inch-pound units to International System units (SI).inside back cover

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

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

NORTH ATLANTIC SLOPE BASINS

ST. JOHN RIVER BASIN

St. John River at Ninemile Bridge (dc).....	17
Big Black River near Seven Islands (c).....	19
Shields Branch Big Black River near Seven Islands (c).....	20
Little Black River near Dickey (c).....	21
St. John River at Dickey (dc).....	22
Allagash River near Allagash (dc).....	24
St. John River at Lincoln School (c).....	26
St. Francis River at outlet of Glasier Lake, near Connors, New Brunswick (d).....	27

Fish River:

Clayton Stream:	
Bald Mountain Brook near Bald Mountain (d).....	28
Fish River near Fort Kent (d).....	29
St. John River below Fish River, at Fort Kent (d).....	30
St. John River at Van Buren (bcmt).....	31
Aroostook River near Masardis (d).....	38
Machias River near Ashland (d).....	39
Aroostook River at Washburn (d).....	40
Aroostook River at Caribou (bcmt).....	41

Meduxnekeag River:

Timoney Lake Outlet Stream:	
Marley Brook near Ludlow (d).....	49
Meduxnekeag River near Houlton (d).....	50

ST. CROIX RIVER BASIN

St. Croix River at Vanceboro (d).....	51
Grand Lake Stream at Grand Lake Stream (d).....	52
St. Croix River near Baileyville (d).....	53
St. Croix River at Baring (d).....	54
St. Croix River at Milltown (bcmst).....	55

DENNYS RIVER BASIN

Dennys River at Dennysville (d).....	66
--------------------------------------	----

PLEASANT RIVER BASIN

Pleasant River near Epping (d).....	67
-------------------------------------	----

NARRAGUAGUS RIVER BASIN

Narraguagus River at Cherryfield (dbcmt).....	68
---	----

UNION RIVER BASIN

West Branch Union River:

Garland Brook near Mariaville (d).....	76
--	----

PENOBSCOT RIVER BASIN

Penobscot River:

East Branch Penobscot River at Grindstone (d).....	77
Penobscot River near Mattawamkeag (d).....	78
Mattawamkeag River near Mattawamekeag (d).....	79
Piscataquis River near Dover-Foxcroft (d).....	80
Sebec River at Sebec (d).....	81
Piscataquis River at Medford (d).....	82
Penobscot River at West Endfield (d).....	83
Penobscot River at Eddington (dbcmt).....	84
Reservoirs in Penobscot River basin (e).....	97

SHEEPSHOT RIVER BASIN

Sheepscot River at North Whitefield (d).....	98
--	----

KENNEBEC RIVER BASIN

Moose River (head of Kennebec River):

Moosehead Lake at East Outlet (e).....	99
Kennebec River at Moosehead (d).....	100
Kennebec River at The Forks (d).....	101
Dead River near Dead River (d).....	102

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

VII

NORTH ATLANTIC SLOPE BASINS--Continued	Page
Kennebec River BASIN--Continued	
Kennebec River--Continued	
Kennebec River at Bingham (d).....	103
Carrabassett River near North Anson (d).....	104
Wilson Stream at East Wilton (d).....	105
Sebasticook River near Pittsfield (d).....	106
Johnson Brook at South Albion (d).....	107
Kennebec River at North Sidney (dbcmt).....	108
Bond Brook:	
Tanning Brook:	
North Branch Tanning Brook near Manchester (d).....	120
Cobbosseecontee Stream:	
Mill Stream at Winthrop (d).....	121
Jock Stream at South Monmouth (d).....	122
Cobbosseecontee Lake at East Winthrop (e).....	123
Cobbosseecontee Stream at Gardiner (d).....	124
Reservoirs in Kennebec River Basin (e).....	125
ANDROSCOGGIN RIVER BASIN	
Androscoggin River:	
Umbagog Lake:	
Magalloway River:	
Diamond River near Wentworth Location, NH (d).....	126
Androscoggin River at Errol, NH (d).....	127
Androscoggin River near Gorham, NH (d).....	128
Wild River at Gilead (dcmt).....	129
Ellis River at South Andover (d).....	135
Androscoggin River at Rumford (d).....	136
Swift River near Roxbury (d).....	137
Nezinscot River at Turner Center (d).....	138
Androscoggin River at Turner Bridge (t).....	139
Gulf Island Pond near Lewiston (ct).....	142
Little Androscoggin River near South Paris (d).....	145
Pennesseewasee Lake Outlet at Norway (d).....	146
Thompson Lake Outlet at Oxford (d).....	147
Little Androscoggin River near Auburn (d).....	148
Androscoggin River near Auburn (d).....	149
Androscoggin River at Brunswick (bcmt).....	150
Reservoirs in Androscoggin River basin (e).....	158
ROYAL RIVER BASIN	
Royal River:	
Collyer Brook near Gray (d).....	159
Royal River at Yarmouth (d).....	160
PRESUMPSCOT RIVER BASIN	
Presumpscot River at Outlet of Sebago Lake (d).....	161
Presumpscot River near West Falmouth (dct).....	162
SACO RIVER BASIN	
Saco River near Conway, NH (d).....	173
Ossipee River at Effingham Falls, NH (d).....	174
Ossipee River at Cornish (d).....	175
Saco River at Cornish (dbcmt).....	176
Little Ossipee River near South Limington (d).....	185
MOUSAM RIVER BASIN	
Mousam River near West Kennebunk (d).....	186
PISCATAQUA RIVER BASIN	
Salmon Falls River (head of Piscataqua River) at Milton, NH (d).....	187

INTRODUCTION

Water resources data for the 1981 water year for Maine consist of records of stage, discharge, and water quality of streams; stage and contents of lakes and reservoirs; and water levels and water quality of ground water. This report contains discharge records for 66 gaging stations; stage only records for 2 gaging stations; contents for 17 lakes and reservoirs; water quality for 19 gaging stations and 8 wells; and water levels for 24 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-81-1." 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 Subdistrict Chief at the address given on the back of the title page of this book, or by telephone at (207) 623-4797.

COOPERATION

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

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

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

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

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

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

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

Boise Cascade

Central Maine Power Company

Great Northern Paper Company

Kennebec Water Power Company

Union Water Power Company

The following organizations aided in collecting records:

Bangor Hydro-Electric Company

Georgia-Pacific Corporation

Maine Public Service Company

Organizations that supplied data are acknowledged in 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

Runoff for the 1981 water year was in the excessive range (in the upper quartile of record) at the St. John River below Fish River at Fort Kent index gaging station; in the normal range at the Piscataquis River near Dover-Foxcroft and the Saco River at West Buxton stations; and in the deficient range (in the lower quartile of record) at the Little Androscoggin River near South Paris index station.

Three hydrologic events occurred during the water year which deserve special mention. The first began during a period in February with unseasonably warm temperatures that reached into the mid-sixties in many parts of the State. Following light showers on the 15th and 17th, heavy rains began on the 20th and continued over most of the State for the next week. The greatest amounts were recorded in the southern and western areas of the State (8.21 inches at Sanford and 5.26 inches at Bridgton) and substantial amounts were received Statewide.

The warm temperatures and rain virtually eliminated the snow cover over most of the State, cleared streams and rivers of their winter ice cover, and produced significant peaks at all index stations. Mean monthly flows at the index stations ranged from 267 percent to 611 percent of normal.

The other two significant hydrologic events occurred in northern Maine during the month of August. Heavy rains that fell on the 5th and 6th, totaling over 9 inches in the upper St. John River basin, produced the peak daily discharge for the year at the Fort Kent index station and a new August mean of record.

Damaging local flooding occurred later in August along the Aroostook River, when more than 8 inches of rain fell in the Caribou area from the 15th through the 17th (6.67 inches of which fell on the 17th). Precipitation recorded at the Caribou Airport totaled 12.09 inches for the month.

A monthly review of hydrologic conditions shows that mean monthly runoff was in the normal range at all four index gaging stations for October and November, and at three of the four for December.

Very low January temperatures slowed runoff. Flow at all index stations, except at Fort Kent where low January temperatures were normal, was deficient during the month.

Above normal February temperatures, combined with above average precipitation that largely fell as rain, caused most of the snowpack to melt. As a result, runoff for the month was in the excessive range over the entire State. The depletion of the snowpack during this period had further significance during the spring runoff months.

Runoff in March remained in the excessive range at the Fort Kent and West Buxton stations, but was in the normal range at the Dover-Foxcroft and South Paris stations.

The loss of the snowpack in February caused unseasonably low runoff in April. Runoff was deficient at all but the Fort Kent station, where it was in the normal range. Continued below-normal precipitation over the entire State resulted in deficient May runoff at all index gaging stations.

In June, runoff was about normal except at the Dover-Foxcroft station where it was excessive. All index stations were in the normal range during July.

August runoff was in the normal range at the Dover-Foxcroft station and was in the excessive range at the other three index stations. Two periods of heavy rainfall in the northern portion of the State resulted in record high monthly mean flows at the Fort Kent station. Damage from flash flooding in the Caribou area was estimated at three million dollars.

The high runoff continued through September and was in the upper quartile of record at all four index gaging stations.

Ground-water levels were in the normal range at the beginning of the water year except in a small section in south-central Maine, where they were in the below-normal range. These below-normal levels persisted in the localized south-central area during October and November. Water levels were above average in extreme eastern Maine during October. Elsewhere, average conditions prevailed during October to December. By the end of January, ground-water had declined to below-normal levels in all but small sections in the extreme eastern and northwestern parts of the State where they were in the normal range. Unusually warm weather during February induced recharge from rain and snowmelt, and groundwater levels were in the above-normal range Statewide at the end of the month. New high water levels were recorded in several observation wells in February.

Ground-water levels declined to the normal range during March in all but northern Maine where they remained above normal. During April and May, levels continued in the normal range in all but the southern part of the State, where they were below-normal. Levels in June were above-normal in the eastern two-thirds of the State, below-normal in the southwest, and nearly normal elsewhere. Generally, normal levels prevailed during July, except in south-western Maine where they continued below average, and in extreme eastern Maine where they were above average. Through August and September, ground-water levels were above-normal in all but an area ranging northeastward from the southwest corner to the center of the State, where they were nearly normal.

Usable storage in seven reservoir systems in Maine was below normal at the start of the water year, rose to above normal by the end of October and, except for January, remained above normal through the end of the winter. By the end of May, storage had reached almost 156,000 mcf (87 percent of capacity), slightly below average for the date. Storage remained slightly below normal through June and July, but rose to above normal in August. By the end of September storage had reached about 157,000 mcf, the maximum for the year.

Figure 2 shows a comparison of the monthly and yearly mean discharges for the 1981 water year with median discharges for the 1951-80 period, taken from records of long-term index stations in Maine.

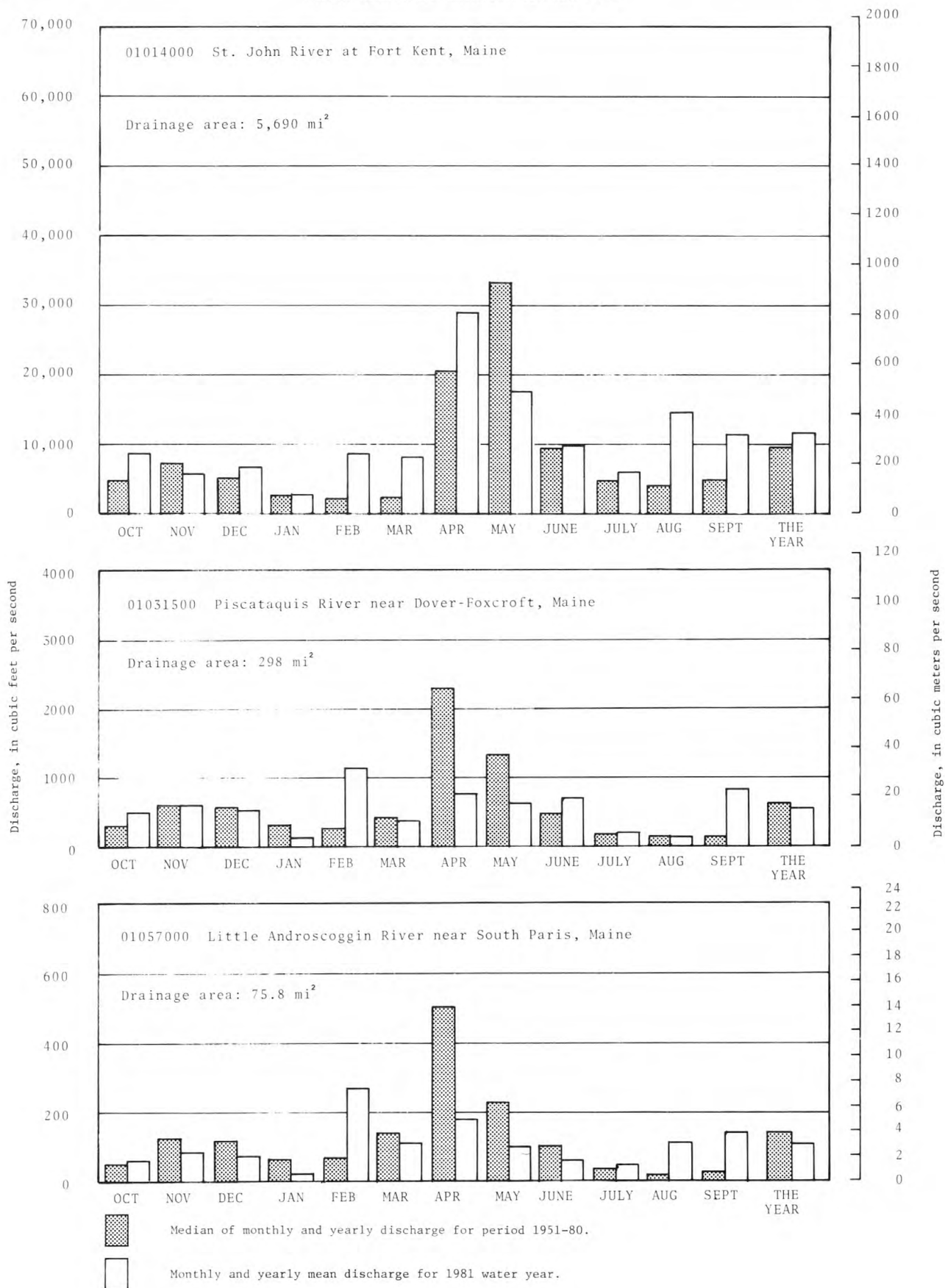


Figure 2.-- Comparison of discharge at three long-term index gaging stations during 1981 water year with median discharge for period 1951-80.

DEFINITION OF TERMS

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

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

Aquifer is a geologic formation, group of formations, or part of a formation that contains sufficient saturated permeable material to yield significant quantities of water to wells or springs.

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

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

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

Fecal coliform bacteria are bacteria that are present in the intestines or feces of warmblooded animals. They are often used as indicators of the sanitary quality of water. These bacteria are defined as all organisms which produce blue colonies within 24 hours when incubated at 44.5°C +0.2°C on M-FC medium (nutrient medium for bacterial growth). Concentrations are expressed as number of colonies per 100 mL of sample.

Fecal streptococcal bacteria are bacteria found in the intestines of warmblooded animals. Their presence in water is considered to verify fecal pollution. They are characterized as gram-positive, cocci bacteria which are capable of growth in brain-heart infusion broth. These bacteria are defined as all organisms which produce red or pink colonies within 48 hours at 35°C +1.0°C on KF Streptococcus agar (nutrient medium for bacterial growth). Concentrations are expressed as number of colonies per 100 mL of sample.

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

Bottom material: See Bed material.

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

Drainage area of a stream at a specific location is that area, measured in a horizontal plane, enclosed by a topographic divide from which direct surface runoff from precipitation normally drains by gravity into the stream above the specified point. Figures of drainage area given herein include all closed basins, or noncontributing areas, within the area unless otherwise noted.

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

Substrate is the physical surface upon which an organism lived.

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

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

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

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

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

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

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

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

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

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

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

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

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

Total (as used in tables of chemical analysis):

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

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

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

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

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

DOWNSTREAM ORDER AND STATION NUMBER

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

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

NUMBERING SYSTEM FOR WELLS AND MISCELLANEOUS SITES

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

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

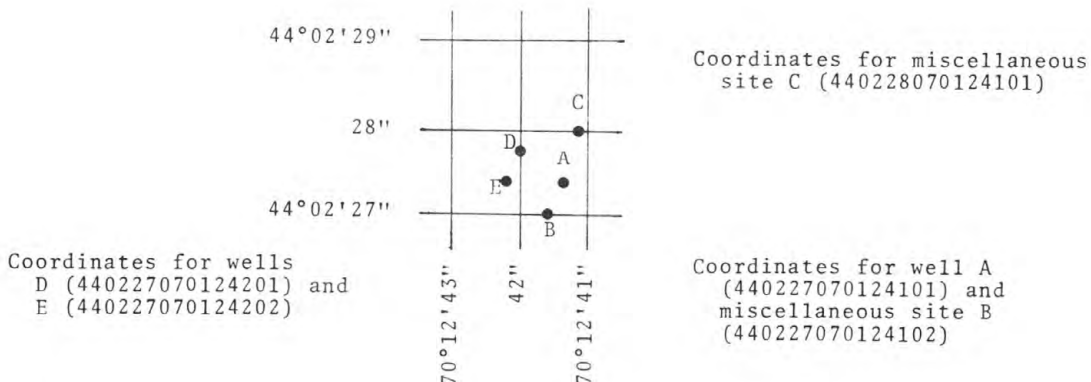


Figure 3.--System for numbering wells and miscellaneous sites (latitude and longitude)

SPECIAL NETWORKS AND PROGRAMS

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

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

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

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

EXPLANATION OF STAGE AND WATER-DISCHARGE RECORDS

Collection and computation of data

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

Accuracy of field data and computed results

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

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

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

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

Other data available

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

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

EXPLANATION OF WATER-QUALITY RECORDS

Collection and examination of data

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

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

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

Water analysis

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

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

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

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

Water temperature

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

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

Sediment

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

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

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

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

EXPLANATION OF GROUND-WATER LEVEL RECORDS

Collection of the data

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

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

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

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

PUBLICATIONS ON TECHNIQUES OF WATER-RESOURCES INVESTIGATIONS

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

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

HYDROLOGIC-DATA STATION RECORDS

NORTH ATLANTIC SLOPE BASINS

17

ST. JOHN RIVER BASIN

01010000 ST. JOHN RIVER AT NINEMILE BRIDGE, ME

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

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

WATER DISCHARGE RECORDS

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

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

REMARKS.--Records good except those for winter period and period of no gage-height record July 11 to Aug. 24, which are fair.

AVERAGE DISCHARGE.--31 years, 2,310 ft³/s (65.42 m³/s), 24.32 in/yr (618 mm/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 44,400 ft³/s (1,260 m³/s) May 1, 1974, gage height, 12.63 ft (3.850 m); maximum gage-height, 20.01 ft (6.099 m) Apr. 2, 1976 (backwater from ice); minimum, 59 ft³/s (1.67 m³/s) Sept. 5, 1953; minimum gage height, 0.25 ft (0.076 m) Sept. 5, 1953, Sept. 11, 12, 1960.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 39,000 ft³/s (1,100 m³/s) Aug. 6, gage height 11.30 ft (3.444 m) from flood marks; minimum discharge not determined, occurred during period of ice effect; minimum daily 270 ft³/s (7.65 m³/s) Jan. 30, 31, Feb. 1.

DISCHARGE, IN CURIC FEET PER SECOND, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1890	1910	2150	420	270	3250	2500	7080	3480	1320	550	779
2	2050	2030	2020	410	275	2800	5000	5650	3110	1050	510	688
3	2230	1860	2000	395	290	2500	10000	4730	2410	858	470	614
4	3110	1680	2350	385	440	2250	17500	4090	1950	706	450	547
5	6170	1600	2600	375	630	2000	13000	3530	1680	629	430	487
6	6050	1820	2700	370	580	1800	10000	3200	1450	629	36200	438
7	4850	1860	2400	360	520	1650	8300	3720	1500	702	22000	417
8	3780	1890	2650	350	475	1480	7700	4110	1600	633	14500	385
9	3170	2430	2650	345	430	1380	11000	3470	1380	527	8800	427
10	3040	2570	2850	340	400	1250	13300	2880	1730	1010	6500	906
11	2590	2300	2600	330	450	1180	11900	2550	1810	2290	5000	1220
12	2620	2120	1750	325	540	1070	9640	3060	1460	2500	4200	1110
13	3060	1880	1500	320	750	1000	7510	4060	1170	1600	3600	944
14	2900	1660	1350	320	1000	900	6000	5610	966	2100	3200	811
15	2530	1510	1200	310	1300	840	5260	5380	821	3800	2640	773
16	2190	1110	1050	310	1200	760	4290	4370	805	4350	2800	893
17	1920	967	950	305	1120	700	3680	4340	1760	2500	3500	859
18	1750	1010	870	300	1070	640	4170	5500	2390	1700	9500	727
19	1810	952	790	300	1040	645	5140	4830	1980	1000	21000	639
20	1760	899	740	300	1020	760	4680	3870	1500	940	11000	653
21	1590	1020	690	295	1400	970	3740	3100	1320	900	7200	978
22	1460	938	650	290	2100	1000	3030	2610	1320	890	5000	1200
23	1360	861	620	290	3000	970	2660	2480	2470	1000	3400	1200
24	1270	895	585	285	4500	930	2620	2330	3560	840	2560	4500
25	1190	1080	560	285	6600	900	3130	2000	2970	690	2300	27000
26	1330	2120	530	280	5800	865	3740	1750	3670	610	1950	22000
27	2770	2560	510	280	4700	850	3760	1710	5220	530	1650	15500
28	3210	2460	485	275	4000	840	3590	1950	3600	640	1440	12000
29	2700	2460	465	275	---	845	3720	2870	2440	790	1240	7800
30	2260	2290	450	270	---	900	7180	3010	1760	720	1040	6000
31	1970	---	430	270	---	1200	---	2870	---	610	891	---
TOTAL	80580	50742	43145	9965	45900	39125	197740	112710	63282	39064	185521	112495
MEAN	2599	1691	1392	321	1639	1262	6591	3636	2109	1260	5985	3750
MAX	6170	2570	2850	420	6600	3250	17500	7080	5220	4350	36200	27000
MIN	1190	861	430	270	270	640	2500	1710	805	527	430	385
CFSM	2.02	1.31	1.08	.25	1.27	.98	5.11	2.82	1.64	.98	4.64	2.91
IN.	2.32	1.46	1.24	.29	1.32	1.13	5.70	3.25	1.82	1.13	5.35	3.24

CAL YR 1980 TOTAL 613010 MEAN 1675 MAX 15200 MIN 120 CFSM 1.30 IN 17.68
WTR YR 1981 TOTAL 980269 MEAN 2686 MAX 36200 MIN 270 CFSM 2.08 IN 28.27

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

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 1976 to October 1981.

PERIOD OF DAILY RECORD.--

SPECIFIC CONDUCTANCE: October 1975 to July 1980.

WATER TEMPERATURES: October 1975 to July 1980.

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

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

EXTREMES FOR PERIOD OF DAILY RECORD.--

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

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

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

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)	OXYGEN, DIS- SOLVED (MG/L)	NITRO- GEN, NO ₂ +NO ₃ TOTAL (MG/L AS N)	NITRO- GEN, AMMONIA TOTAL (MG/L AS N)	NITRO- GEN, TOTAL (MG/L AS N)
MAY										
05...	0930	3530	43	6.7	16.0	10.0	10.7	.17	.040	.69
JUN										
03...	1630	2410	40	6.5	24.5	18.5	8.4	.04	.060	.67
JUL										
14...	1000	2100	40	6.5	16.5	17.0	9.2	.02	<.010	.47
AUG										
24...	1830	2560	38	6.6	17.5	17.0	9.3	.06	.010	.61
* OCT 1981										
01...	1600	9370	33	6.3	13.0	7.0	11.8	.06	.020	.43

DATE	PHOS- PHORUS, TOTAL (MG/L AS P)	IRON, TOTAL RECOV- ERABLE (UG/L AS FE)	IRON, DIS- SOLVED (UG/L AS FE)	LEAD, TOTAL RECOV- ERABLE (UG/L AS PB)	LEAD, DIS- SOLVED (UG/L AS PB)	MERCURY TOTAL RECOV- ERABLE (UG/L AS HG)	MERCURY DIS- SOLVED (UG/L AS HG)	ZINC, TOTAL RECOV- ERABLE (UG/L AS ZN)	ZINC, DIS- SOLVED (UG/L AS ZN)
MAY									
05...	.020	--	90	--	0	--	<.1	--	10
JUN									
03...	.010	--	230	--	0	--	<.1	--	10
JUL									
14...	<.010	310	--	5	--	<.1	--	10	--
AUG									
24...	.030	830	--	6	--	1.5	--	30	--
OCT									
01...	.010	350	--	2	--	--	--	30	--

* The October 1, 1981 sample has been published in the 1981 water year report to present the sample series intact.

01010080 BIG BLACK RIVER NEAR SEVEN ISLANDS, ME

LOCATION.--Lat 46°52'28", long 69°39'43", Aroostook County, Hydrologic Unit 01010001, at the downstream side of the Great North Woods road bridge in T14 R15, 0.9 mi (1.5 km) downstream from Connors Brook, and 7.7 mi (12.4 km) northwest of Seven Islands.

DRAINAGE AREA.--304 mi² (787 km²).

PERIOD OF RECORD.--May to September 1981.

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DATE	TIME	SPF- CIFIC CON- DUCT- ANCE (UMHOS)	PH (UNITS)	TEMPER- ATURE, AIR (DEG C)	TEMPER- ATURE (DEG C)	OXYGEN, DIS- SOLVED (MG/L)	NITRO- GEN, NO2+NO3 TOTAL (MG/L AS N)	NITRO- GEN, AMMONIA TOTAL (MG/L AS N)	NITRO- GEN, TOTAL (MG/L AS N)
MAY									
05...	1345	53	6.8	18.0	11.0	10.7	.11	.050	.95
JUN									
04...	1330	60	6.9	23.0	18.0	8.9	.05	.080	.55
JUL									
14...	1500	80	7.0	21.0	18.0	8.6	.06	<.010	.35
AUG									
25...	0930	51	6.8	15.0	15.0	9.2	.07	.030	.65
SEP									
30...	1530	42	6.7	8.0	6.5	12.1	.06	.040	.66

DATE	PHOS- PHORUS, TOTAL (MG/L AS P)	IRON, TOTAL RECOV- ERABLE (UG/L AS FE)	IRON, DIS- SOLVED (UG/L AS FE)	LEAD, TOTAL RECOV- ERABLE (UG/L AS PB)	LEAD, DIS- SOLVED (UG/L AS PB)	MERCURY TOTAL RECOV- ERABLE (UG/L AS HG)	MERCURY DIS- SOLVED (UG/L AS HG)	ZINC, TOTAL RECOV- ERABLE (UG/L AS ZN)	ZINC, DIS- SOLVED (UG/L AS ZN)
MAY									
05...	<.010	--	90	--	5	--	<.1	--	10
JUN									
04...	.020	--	170	--	4	--	<.1	--	10
JUL									
14...	<.010	540	--	4	--	<.1	--	10	--
AUG									
25...	.010	580	--	6	--	.9	--	20	--
SEP									
30...	.010	330	--	3	--	--	--	20	--

01010100 SHIELDS BRANCH BIG BLACK RIVER NEAR SEVEN ISLANDS, ME

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

DRAINAGE AREA.--161 mi² (417 km²).

PERIOD OF RECORD.--May to September 1981.

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DATE	TIME	SPF- CIFIC CON- DUCT- ANCE (UMHOS)	PH (UNITS)	TEMPER- ATURE ΔIP (DEG C)	TEMPER- ATURE (DEG C)	OXYGEN, DIS- SOLVED (MG/L)	NITRO- GEN, NO ₂ +NO ₃ TOTAL (MG/L AS N)	NITRO- GEN, AMMONIA TOTAL (MG/L AS N)	NITRO- GEN, TOTAL (MG/L AS N)
MAY									
05...	1530	53	6.7	16.5	10.5	11.6	.15	.050	.68
JUN									
04...	1100	73	6.9	20.0	15.0	9.4	.04	.040	.43
JUL									
14...	1400	69	6.8	21.5	15.0	9.4	.11	<.010	.48
AUG									
25...	1100	78	6.9	14.0	13.0	9.3	.07	.040	.41
SEP									
30...	1400	58	6.8	9.0	6.5	12.0	.13	.030	.60

DATE	PHOS- PHORUS, TOTAL (MG/L AS P)	IRON, TOTAL RECOV- ERABLE (UG/L AS FE)	IRON, DIS- SOLVED (UG/L AS FE)	LEAD, TOTAL RECOV- ERABLE (UG/L AS PB)	LEAD, DIS- SOLVED (UG/L AS PB)	MERCURY TOTAL RECOV- ERABLE (UG/L AS HG)	MERCURY DIS- SOLVED (UG/L AS HG)	ZINC, TOTAL RECOV- ERABLE (UG/L AS ZN)	ZINC, DIS- SOLVED (UG/L AS ZN)
MAY									
05...	.010	--	--	--	--	--	--	--	--
JUN									
04...	.040	--	160	--	0	--	<.1	--	10
JUL									
14...	.030	680	--	6	--	<.1	--	10	--
AUG									
25...	.020	580	--	3	--	1.3	--	20	--
SEP									
30...	.020	500	--	3	--	--	--	10	--

01010480 LITTLE BLACK RIVER NEAR DICKEY, ME

LOCATION.--Lat 47°07'22", long 69°05'50", Aroostook County, Hydrologic Unit 01010001, at downstream side of town road bridge, 0.5 mi (0.8 km) upstream from mouth, and 1.0 mi (1.6 km) northwest of Dickey.

DRAINAGE AREA.--264 mi² (684 km²).

PERIOD OF RECORD.--May to September 1981.

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DATE	TIME	SPF- CIFIC CON- DUCT- ANCE (UMHOS)	PH (UNITS)	TEMPER- ATURE, AIR (DEG C)	TEMPER- ATURE (DEG C)	OXYGEN, DIS- SOLVED (MG/L)	NITRO- GEN, NO ₂ +NO ₃ TOTAL (MG/L AS N)	NITRO- GEN, AMMONIA TOTAL (MG/L AS N)	NITRO- GEN, TOTAL (MG/L AS N)
MAY									
06...	0800	53	6.9	22.0	9.5	11.0	.16	.040	.68
JUN									
04...	1900	74	7.1	20.0	16.5	9.5	.07	.040	.54
JUL									
15...	0830	73	6.9	15.5	16.0	9.3	.08	<.010	.33
AUG									
25...	1700	84	6.9	19.5	15.5	9.3	.14	.050	.50
SEP									
29...	1245	81	7.1	14.0	9.0	11.8	.11	.030	.34

DATE	PHOS- PHORUS, TOTAL (MG/L AS P)	IRON, TOTAL RECOV- ERABLE (UG/L AS FE)	IRON, DIS- SOLVED (UG/L AS FE)	LEAD, TOTAL RECOV- ERABLE (UG/L AS PB)	LEAD, DIS- SOLVED (UG/L AS PB)	MERCURY TOTAL RECOV- ERABLE (UG/L AS HG)	MERCURY DIS- SOLVED (UG/L AS HG)	ZINC, TOTAL RECOV- ERABLE (UG/L AS ZN)	ZINC, DIS- SOLVED (UG/L AS ZN)
MAY									
06...	.020	--	40	--	0	--	<.1	--	10
JUN									
04...	<.010	--	120	--	0	--	<.1	--	10
JUL									
15...	<.010	400	--	4	--	<.1	--	10	--
AUG									
25...	<.010	1000	--	4	--	1.2	--	20	--
SEP									
29...	.010	360	--	7	--	--	--	30	--

01010500 ST. JOHN RIVER AT DICKEY, ME

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

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

WATER-DISCHARGE RECORDS

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

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

REMARKS.--Records good except those for winter period and period of no gage-height record, Aug. 1-19, which are fair. Peak discharge on Aug. 7, computed from wire-weight reading of observer.

AVERAGE DISCHARGE.--35 years (water years 1947-81), 4,745 ft³/s (134.4 m³/s), 23.87 in/yr (606 mm/yr).

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

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

Date	Time	Discharge (ft ³ /s) (m ³ /s)	Gage height (ft) (m)	Date	Time	Discharge (ft ³ /s) (m ³ /s)	Gage height (ft) (m)
Feb. 24	1800	ice jam	* 21.71 6.617	Aug. 7	1400	* 77000 2181	17.65 5.380
Apr. 6	0100	43700 1240	13.65 4.161	Aug. 19	1100	35200 997	12.42 3.786
Apr. 11	0400	32800 929	12.04 3.670	Sep. 25	1500	56500 1600	15.31 4.666

Minimum discharge not determined, occurred during period of backwater from ice; minimum daily discharge, 720 ft³/s (20.4 m³/s), Feb. 2, 3.

DISCHARGE, IN CURIC FEET PER SECOND, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	3440	3310	3460	1420	725	8600	4300	18000	6400	3970	1300	1810
2	3170	3190	3300	1370	720	7700	7600	14600	6380	3270	1250	1640
3	3370	3120	3280	1320	720	7000	14000	12200	5340	2780	1190	1490
4	4420	2840	3750	1270	730	5600	21700	10700	4210	2360	1140	1340
5	9120	2530	4200	1220	1520	5000	27400	9490	3880	2090	1100	1200
6	11700	2560	4800	1180	1500	4700	40100	9070	3420	2490	8000	1090
7	9540	2500	4250	1150	1380	4300	37100	9610	3080	4380	76100	1000
8	7210	2560	3800	1120	1340	3800	30600	10200	2940	4480	50000	938
9	6070	2650	4200	1080	1250	3600	25100	8420	2930	3290	20000	1000
10	6000	2840	4880	1050	1250	3300	28400	7380	2940	2510	13500	1590
11	5670	3120	4400	1030	1350	3100	32400	6560	3490	2720	10800	2200
12	5260	3300	4100	1000	1500	2850	30100	8010	3300	4050	9500	2370
13	5900	3000	3750	990	1700	2700	24300	10800	2750	3130	7500	2040
14	6120	2800	3500	960	1950	2600	18400	13600	2320	3970	6300	1750
15	5510	2620	3250	930	2210	2300	14900	13400	2010	9670	5500	1520
16	4730	2400	3050	915	2500	2100	12800	10900	1990	10400	5900	1390
17	4050	2200	2850	900	2800	1500	10800	9840	3570	6870	7000	1400
18	3610	2000	2700	880	3100	1070	9520	11600	6160	4440	15000	1400
19	3440	1900	2550	860	3400	1200	10300	11000	5720	2870	33700	1250
20	3580	1820	1950	840	3750	1350	11500	8870	4220	2190	25600	1200
21	3450	1900	2300	830	4150	1700	10000	7200	3140	2150	16800	1260
22	3120	1980	2200	820	4900	2000	8230	6160	2610	2080	10800	1540
23	2850	1920	2100	800	6500	2210	7120	5490	3640	2430	7470	1850
24	2630	1900	2000	790	8500	2220	6850	5180	6670	2210	5920	3030
25	2440	2150	1930	775	15100	2180	7500	4670	6530	1690	4870	48000
26	2450	3500	1920	760	13500	2100	8800	4320	8320	1460	4120	45500
27	3240	4400	1720	755	11200	2000	10000	4220	14700	1290	3510	32500
28	5360	4200	1670	750	10000	1980	9890	4620	11500	1420	3010	21400
29	5180	3900	1600	745	---	1980	9940	6140	7430	1910	2620	15400
30	4330	3600	1520	740	---	2100	15000	7500	5250	1870	2310	11900
31	3700	---	1480	730	---	2400	---	7010	---	1390	2040	---
TOTAL	150660	82810	92360	29980	109245	97240	504650	277160	146840	101830	363850	211998
MEAN	4860	2760	2979	967	3902	3137	16820	8941	4895	3285	11740	7067
MAX	11700	4400	4880	1420	15100	8600	40100	18000	14700	10400	76100	48000
MIN	2440	1820	1480	730	720	1070	4300	4220	1990	1290	1100	938
CFSM	1.80	1.02	1.10	.36	1.45	1.16	6.23	3.31	1.81	1.22	4.35	2.62
INF.	2.08	1.14	1.27	.41	1.51	1.34	6.95	3.82	2.02	1.40	5.01	2.92
CAL YR 1980	TOTAL	1216693	MEAN	3324	MAX	33700	MIN	295	CFSM	1.23	IN	16.76
WTR YR 1981	TOTAL	2168623	MEAN	5941	MAX	76100	MIN	720	CFSM	2.20	IN	29.88

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

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 1975 to September 1981.

PERIOD OF DAILY RECORD.--

SPECIFIC CONDUCTANCE: April 1975 to September 1980.

WATER TEMPERATURES: April 1975 to September 1980.

SUSPENDED SEDIMENT DISCHARGE: October 1975 to September 1976.

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

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

EXTREMES FOR PERIOD OF DAILY RECORD.--

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

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

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

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

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DATE	TIME	STREAM- FLOW, INSTAN- TANEOUS (CFS)	SPE- CIFIC CON- DUCT- ANCE (UMHOS)	PH (UNITS)	TEMPER- ATURE, AIR (DEG C)	TEMPER- ATURE (DEG C)	OXYGEN, DIS- SOLVED (MG/L)	NITRO- GEN, NO2+NO3 TOTAL (MG/L AS N)	NITRO- GEN, AMMONIA TOTAL (MG/L AS N)	NITRO- GEN, TOTAL (MG/L AS N)
MAY										
06...	0845	9070	44	6.7	23.5	12.0	10.6	.15	.040	.64
JUN										
04...	1830	4210	57	6.9	20.5	18.5	9.5	.06	.040	.58
JUL										
15...	0900	9670	52	6.9	15.5	15.5	9.2	.02	<.010	.39
AUG										
25...	1600	4870	45	6.7	17.5	18.0	9.0	.10	.060	.38
SEP										
29...	1345	15400	38	6.6	12.5	9.0	11.6	.09	.020	.46

DATE	PHOS- PHORUS, TOTAL (MG/L AS P)	IRON, TOTAL RECOV- ERABLE (UG/L AS FE)	IRON, DIS- SOLVED (UG/L AS FE)	LEAD, TOTAL RECOV- ERABLE (UG/L AS PB)	LEAD, DIS- SOLVED (UG/L AS PB)	MERCURY TOTAL RECOV- ERABLE (UG/L AS HG)	MERCURY DIS- SOLVED (UG/L AS HG)	ZINC, TOTAL RECOV- ERABLE (UG/L AS ZN)	ZINC, DIS- SOLVED (UG/L AS ZN)
MAY									
06...	.010	--	60	--	0	--	<.1	--	10
JUN									
04...	<.010	--	110	--	0	--	<.1	--	10
JUL									
15...	<.010	380	--	4	--	<.1	--	10	--
AUG									
25...	<.010	720	--	4	--	1.5	--	30	--
SEP									
29...	.010	370	--	5	--	--	--	40	--

01011000 ALLAGASH RIVER NEAR ALLAGASH, ME

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

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

WATER-DISCHARGE RECORDS

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

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

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

REMARKS.--Records good except those for winter period, which are fair. No gage-height record Dec. 21 to Feb. 4. Some regulation for recreational purposes since May 1969 by Churchill Lake, usable capacity, about 3.4 billion ft³ (96 million m³), 58 mi (93 km) upstream.

AVERAGE DISCHARGE.--50 years (water years 1932-81), 1,924 ft³/s (54.49 m³/s), 20.90 in/yr (531 mm/yr).

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

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 11,200 ft³/s (317 m³/s) Apr. 11, gage height 7.86 ft (2.396 m); maximum gage height, 12.76 ft (3.889 m) Apr. 5 (backwater from ice); minimum discharge not determined, occurred during period of backwater from ice; minimum daily discharge 450 ft³/s (12.7 m³/s) Jan. 31, Feb. 1.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1140	1080	1500	820	450	4600	2950	4770	3690	1150	700	2690
2	1080	1040	1410	800	455	3950	4600	4340	3420	1030	673	2550
3	1050	967	1450	775	465	3600	5100	4120	3030	981	653	2440
4	1050	952	1610	760	500	3300	6500	3900	2730	913	703	2300
5	1060	971	1510	755	525	3000	7900	3640	2510	853	728	2140
6	2300	955	1990	735	525	2750	10000	3540	2230	863	4080	2020
7	2250	926	2370	720	520	2550	10200	3560	2180	1000	7830	1900
8	2120	981	2290	710	520	2350	8590	3300	2110	982	6420	1780
9	1770	1060	2510	705	535	2100	8430	2990	2080	920	5220	1810
10	1660	1040	2460	695	595	1950	10400	2750	2100	907	4460	2180
11	1520	1040	2300	680	640	1750	10900	2550	1940	871	3870	2140
12	1610	1040	1940	660	730	1600	10300	2670	1780	817	3940	2020
13	1930	1040	1850	645	820	1500	8740	2880	1650	775	3940	1880
14	1810	1030	1790	640	1000	1350	7570	3460	1530	1090	3540	1740
15	1620	942	1700	630	1140	1240	6810	3090	1470	1540	3150	1680
16	1490	868	1600	610	1280	1130	5870	2830	1530	1310	3200	1600
17	1380	838	1500	590	1440	1040	5360	3550	1990	1140	4360	1500
18	1320	834	1400	585	1600	960	5020	3590	2000	1030	10000	1390
19	1280	819	1340	575	1850	970	5230	3110	1690	1000	8670	1320
20	1200	712	1280	565	2090	1030	5040	2810	1470	1010	6850	1350
21	1140	814	1230	545	2450	1140	4610	2510	1370	1010	5750	1450
22	1090	774	1180	540	2980	1210	4170	2320	1310	961	5040	1380
23	1040	680	1120	530	3650	1200	3950	2210	1410	863	4560	1340
24	985	758	1040	520	6300	1150	3840	2050	1410	780	4570	2450
25	952	930	1000	510	9200	1120	3880	1900	1310	727	4140	7470
26	1100	1590	960	500	8300	1110	3730	1930	1620	692	3790	9720
27	1340	1630	930	485	6400	1100	3690	1990	2000	739	3500	7770
28	1250	1670	910	480	5300	1090	3650	2130	1690	805	3320	6380
29	1220	1760	890	470	---	1120	3750	2750	1450	721	3150	5530
30	1140	1630	860	460	---	1200	4950	3240	1290	679	2980	4990
31	1090	---	840	450	---	1700	---	3410	---	690	2840	---
TOTAL	42987	31371	46760	19145	62260	55860	185730	93890	57990	28849	126627	86910
MFAN	1387	1046	1508	618	2224	1802	6191	3029	1933	931	4085	2897
MAX	2300	1760	2510	820	9200	4600	10900	4770	3690	1540	10000	9720
MIN	952	680	840	450	450	960	2950	1900	1290	679	653	1320
CFSM	1.11	.84	1.21	.49	1.78	1.44	4.95	2.42	1.55	.75	3.27	2.32
IN.	1.28	.93	1.39	.57	1.85	1.66	5.53	2.79	1.73	.86	3.77	2.59
CAL YR 1980	TOTAL	479186	MEAN	1309	MAX	8610	MIN	300	CFSM	1.05	IN	14.26
WTR YR 1981	TOTAL	838379	MEAN	2297	MAX	10900	MIN	450	CFSM	1.84	IN	24.95

01011000 ALLAGASH RIVER NEAR ALLAGASH, ME--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 1975 to September 1981.

PERIOD OF DAILY RECORD.--

SPECIFIC CONDUCTANCE: April 1975 to September 1980.

WATER TEMPERATURES: April 1975 to September 1980.

SUSPENDED SEDIMENT DISCHARGE: October 1975 to September 1976.

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

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

EXTREMES FOR PERIOD OF DAILY RECORD.--

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

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

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

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

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

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)	OXYGEN, DIS- SOLVED (MG/L)	NITRO- GEN, NO2+NO3 TOTAL (MG/L AS N)	NITRO- GEN, AMMONIA TOTAL (MG/L AS N)	NITRO- GEN, TOTAL (MG/L AS N)
MAY 06...	1000	3540	47	6.9	21.0	10.0	11.8	.11	.030	.59
JUN 04...	1700	2730	53	6.9	23.0	18.0	10.0	.07	.050	.49
JUL 14...	1700	1090	55	7.0	19.5	20.0	9.0	.01	.020	.19
AUG 25...	1515	4140	52	6.9	20.0	17.0	9.6	.06	.030	.29
SEP 29...	1445	5530	43	6.8	10.0	9.5	11.8	.09	.040	.45

DATE	PHOS- PHORUS, TOTAL (UG/L AS P)	IRON, TOTAL RECOV- ERABLE (UG/L AS FE)	IRON, DIS- SOLVED (UG/L AS FE)	LEAD, TOTAL RECOV- ERABLE (UG/L AS PB)	LEAD, DIS- SOLVED (UG/L AS PB)	MERCURY TOTAL RECOV- ERABLE (UG/L AS HG)	MERCURY DIS- SOLVED (UG/L AS HG)	ZINC, TOTAL RECOV- ERABLE (UG/L AS ZN)	ZINC, DIS- SOLVED (UG/L AS ZN)
MAY 06...	.020	--	20	--	<1	--	<.1	--	10
JUN 04...	<.010	--	60	--	0	--	<.1	--	10
JUL 14...	<.010	90	--	6	--	<.1	--	10	--
AUG 25...	.010	290	--	2	--	.9	--	20	--
SEP 29...	.020	250	--	5	--	--	--	10	--

01011400 ST. JOHN RIVER AT LINCOLN SCHOOL, ME

LOCATION.--Lat 47°09'44", long 68°55'58", Aroostook County, Hydrologic Unit 01010001, at section 0.3 mi (0.5 km) downstream of Lincoln School, 1.5 mi (2.4 km) upstream from mouth of St. Francis River, and 1.8 mi (2.9 km) west of St. Francis.

DRAINAGE AREA.--4014 mi² (10,723 km²).

PERIOD OF RECORD.--May to September 1981.

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DATE	TIME	SPECIFIC CONDUCTANCE (UMHOS)	PH (UNITS)	TEMPERATURE AIR (DEG C)	TEMPERATURE (DEG C)	OXYGEN, DISSOLVED (MG/L)	NITROGEN, NO2+NO3 TOTAL (MG/L AS N)	NITROGEN, AMMONIA TOTAL (MG/L AS N)	NITROGEN, TOTAL (MG/L AS N)
MAY 07...	1015	47	6.7	4.0	7.5	12.0	.14	.040	.74
JUN 05...	0830	52	6.8	19.0	16.0	9.3	.06	.050	.52
JUL 15...	1100	53	7.0	16.5	17.0	9.3	.04	.020	.55
AUG 26...	0930	52	6.9	17.0	15.5	9.3	.07	.050	.37
SEP 30...	0930	38	6.7	5.0	7.5	11.2	.11	.030	.50

DATE	PHOSPHORUS, TOTAL (MG/L AS P)	IRON, TOTAL RECOVERABLE (UG/L AS FE)	IRON, DISSOLVED (UG/L AS FE)	LEAD, TOTAL RECOVERABLE (UG/L AS PB)	LEAD, DISSOLVED (UG/L AS PB)	MERCURY, TOTAL RECOVERABLE (UG/L AS HG)	MERCURY, DISSOLVED (UG/L AS HG)	ZINC, TOTAL RECOVERABLE (UG/L AS ZN)	ZINC, DISSOLVED (UG/L AS ZN)
MAY 07...	.030	--	50	--	0	--	<.1	--	10
JUN 05...	<.010	--	80	--	2	--	<.1	--	10
JUL 15...	<.010	330	--	3	--	<.1	--	10	--
AUG 26...	<.010	340	--	9	--	1.1	--	30	--
SEP 30...	.020	330	--	18	--	--	--	30	--

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

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

DRAINAGE AREA.--520 mi² (1,347 km²).

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

REVISED RECORDS.--WSP 1621: Drainage area.

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

REMARKS.--Records excellent.

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

AVERAGE DISCHARGE.--30 years, 890 ft³/s (25.20 m³/s), 23.24 in/yr (590 mm/yr).

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

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 5,080 ft³/s (144 m³/s) Aug. 11, gage height, 8.75 ft (2.667 m); minimum, 172 ft³/s (4.87 m³/s) Feb. 1, gage height, 2.49 ft (0.759 m).

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	773	724	545	294	173	3060	815	2680	1530	1010	361	652
2	759	689	525	293	187	2690	1060	2900	1490	918	347	600
3	742	675	500	289	204	2380	1270	2920	1380	848	333	570
4	784	660	485	286	211	2120	1450	2770	1280	780	305	535
5	879	636	475	281	219	1900	1680	2630	1170	724	306	501
6	1030	624	485	275	232	1740	2180	2510	1050	703	450	472
7	1160	610	510	272	247	1580	2950	2480	983	650	1100	448
8	1180	590	550	268	272	1460	3490	2460	858	636	2770	418
9	1170	575	620	265	302	1360	3600	2400	805	609	4380	397
10	1100	563	660	261	314	1250	3670	2270	756	585	4910	400
11	1050	568	655	261	330	1140	3990	2120	724	557	5050	389
12	1020	575	640	259	374	1060	4430	2020	689	532	4760	384
13	1010	570	620	250	396	1000	4570	2180	653	506	4510	376
14	1030	555	600	246	457	946	4370	2550	618	506	4240	367
15	1040	535	580	236	536	874	4080	3090	583	513	3680	354
16	1010	510	560	238	612	807	3730	3270	572	518	3140	342
17	975	490	530	235	687	777	3430	3200	593	509	2720	327
18	950	465	508	232	746	743	3150	3090	590	504	2590	312
19	908	448	488	227	818	683	2900	2980	590	490	2410	299
20	886	430	465	220	932	645	2690	2750	572	466	2190	297
21	869	410	442	218	1080	627	2560	2480	547	461	1940	294
22	855	400	421	212	1370	615	2370	2230	523	468	1720	289
23	830	390	407	208	1950	602	2180	2010	547	461	1520	290
24	788	400	391	205	2840	590	2040	1830	600	453	1400	311
25	756	410	377	203	3560	585	1970	1650	713	444	1260	315
26	742	440	364	200	3810	563	1950	1510	872	422	1110	306
27	745	465	349	191	3750	550	1980	1420	1020	418	991	301
28	752	505	335	185	3410	537	2050	1320	1160	399	909	312
29	766	540	322	183	---	532	2160	1290	1190	392	827	316
30	763	550	309	180	---	546	2370	1350	1110	383	759	319
31	745	---	298	177	---	649	---	1470	---	377	704	---
TOTAL	28067	16002	15016	7350	30019	34611	81135	71830	25768	17242	63692	11493
MEAN	905	533	484	237	1072	1116	2705	2317	859	556	2055	383
MAX	1180	724	660	294	3810	3060	4570	3270	1530	1010	5050	652
MIN	742	390	298	177	173	532	815	1290	523	377	305	289
CFSM	1.74	1.03	.93	.46	2.06	2.15	5.20	4.46	1.65	1.07	3.95	.74
IN.	2.01	1.14	1.07	.53	2.15	2.48	5.80	5.14	1.84	1.23	4.56	.82
CAL YR 1980	TOTAL	263723	MEAN	721	MAX	4360	MIN	120	CFSM	1.39	IN	18.87
WTR YR 1981	TOTAL	402225	MEAN	1102	MAX	5050	MIN	173	CFSM	2.12	IN	28.77

01012520 BALD MOUNTAIN BROOK NEAR BALD MOUNTAIN, ME

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

DRAINAGE AREA.--1.69 mi² (4.38 km²).

PERIOD OF RECORD.--October 1980 to October 1981.

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

REMARKS.--Records good except those for winter period and period of no gage-height record Aug. 19 to Sept. 21, which are fair.

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

Date	Time	Discharge (ft ³ /s) (m ³ /s)	Gage height (ft) (m)	Date	Time	Discharge (ft ³ /s) (m ³ /s)	Gage height (ft) (m)
Feb. 20	2300	ice jam	* 6.30 1.920	Apr. 7	1330	28 0.79	5.41 1.649
Apr. 6	1400	70 1.98	6.10 1.859	Aug. 17	2120	* 84 2.38	6.27 1.911

Minimum discharge, 0.14 ft³/s (0.004 m³/s) July 24, 25, Aug. 4, 5, gage height, 4.43 ft (1.350 m).

DISCHARGE, IN CUPIC FEET PER SECOND, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	3.0	2.0	3.6	.24	.21	5.0	6.0	6.0	3.7	.67	.37	.19
2	2.8	1.9	1.7	.24	.25	4.1	15	5.3	2.3	.51	.21	.18
3	2.6	1.6	3.8	.24	1.5	3.5	17	5.3	1.7	.42	.17	.17
4	2.5	1.4	1.8	.24	5.3	3.1	12	4.6	1.7	.38	.16	.17
5	5.8	1.7	4.4	.23	7.1	2.8	17	4.2	1.6	.38	1.2	.16
6	2.5	1.6	2.6	.23	5.5	2.6	25	4.1	1.5	.46	38	.16
7	2.0	1.4	1.7	.23	4.7	2.4	21	3.4	1.6	1.6	32	.16
8	1.7	2.5	1.2	.23	4.2	2.2	14	3.0	1.3	1.0	15	.16
9	1.6	2.3	1.6	.23	3.8	2.1	13	2.7	1.2	.70	9.2	7.1
10	1.5	1.8	.92	.23	3.4	2.0	21	2.5	1.3	.44	6.5	2.5
11	1.4	1.9	.60	.22	3.2	2.1	16	2.4	1.1	.36	5.4	.55
12	2.3	2.1	.44	.22	6.8	2.1	12	2.4	.93	.30	5.8	.26
13	7.0	1.9	.38	.22	9.1	1.8	8.7	6.3	.79	.27	5.1	.24
14	4.5	1.7	.36	.22	6.8	1.5	6.8	7.1	.69	.49	3.5	.24
15	3.2	1.5	.34	.22	5.4	1.3	6.0	4.6	.89	.57	2.8	.74
16	2.5	1.3	.33	.22	4.8	1.2	8.5	4.4	1.4	.29	9.9	.54
17	2.1	1.2	.32	.22	4.3	1.1	6.1	8.0	1.5	.22	34	.43
18	1.8	1.1	.31	.22	4.0	.93	5.2	6.7	1.1	.20	35	.38
19	1.7	1.1	.30	.22	4.1	.83	5.9	4.9	.70	.18	14	.35
20	1.6	1.2	.29	.22	5.0	.76	5.7	4.0	.73	.18	5.8	6.3
21	1.5	1.0	.29	.22	6.6	.71	4.6	3.5	1.6	.19	3.0	2.4
22	1.4	.96	.28	.22	9.2	.68	3.9	3.3	1.4	.22	2.0	1.4
23	1.3	1.0	.27	.22	10	.68	3.6	3.1	2.3	.16	1.4	2.9
24	1.3	.95	.27	.22	8.4	.78	4.2	2.7	1.3	.16	6.9	13
25	1.2	3.3	.27	.22	7.1	.90	5.4	2.4	1.0	.15	4.2	12
26	3.9	7.0	.26	.22	6.5	.88	5.1	2.4	4.9	.16	2.5	6.2
27	4.7	15	.26	.22	7.5	.98	5.0	2.6	3.4	.37	1.4	4.5
28	2.8	9.5	.26	.22	6.4	1.1	4.5	3.0	1.6	.32	.80	4.3
29	2.1	4.0	.25	.21	---	1.2	5.2	3.7	1.1	.22	.42	3.6
30	2.0	8.0	.25	.21	---	1.5	7.9	2.8	.81	1.9	.29	3.0
31	1.8	---	.25	.21	---	2.2	---	3.3	---	1.1	.21	---
TOTAL	78.1	83.91	46.10	6.93	151.16	55.03	291.3	124.7	47.14	14.57	247.23	74.28
MFAN	2.52	2.80	1.49	.22	5.40	1.78	9.71	4.02	1.57	.47	7.98	2.48
MAX	7.0	15	18	.24	10	5.0	25	8.0	4.9	1.9	38	13
MIN	1.2	.95	.25	.21	.21	.68	3.6	2.4	.69	.15	.16	.16
CFSM	1.49	1.66	.88	.13	3.20	1.05	5.75	2.38	.93	.28	4.72	1.47
IN.	1.72	1.85	1.01	.15	3.33	1.21	6.41	2.74	1.04	.32	5.44	1.63

WTR YR 1981 TOTAL 1220.45 MEAN 3.34 MAX 38 MIN .15 CFSM 1.98 IN 26.85

01013500 FISH RIVER NEAR FORT KENT, ME

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

DRAINAGE AREA.--871 mi² (2,256 km²).

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

REVISED RECORDS.--WSP 1001: Drainage area.

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

REMARKS.--Records good except those for winter period and period of no gage-height record June 29 to Aug. 20, which are fair. Large lake area above station has not yet been developed for storage. Several observations of water temperature and specific conductance were made during the year.

AVERAGE DISCHARGE.--57 years (water years 1904-08, 1930-81), 1,402 ft³/s (39.70 m³/s), 21.86 in/yr (555 mm/yr).

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

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 6,140 ft³/s (174 m³/s) Apr. 13, gage height, 7.18 ft (2.188 m); minimum discharge not determined, occurred during period of no gage-height record; minimum daily, 340 ft³/s (9.63 m³/s) Aug. 5.

DISCHARGE, IN CURIC FEET PER SECOND, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	509	884	948	550	390	2780	1560	3550	3180	1260	380	2180
2	518	856	915	540	395	2780	1790	3580	3150	1210	365	1980
3	516	845	915	530	660	2710	2010	3570	3060	1150	350	1810
4	620	840	900	520	660	2640	2260	3540	2960	1090	365	1640
5	759	821	910	510	660	2560	2780	3470	2840	1030	340	1480
6	801	795	950	490	660	2470	3470	3380	2800	980	690	1360
7	842	781	1020	485	620	2350	3990	3270	2490	1050	2010	1260
8	876	781	1090	480	570	2240	4310	3150	2260	990	2190	1180
9	890	781	1160	470	545	2140	4650	3050	2180	950	2470	1170
10	878	785	1210	460	540	2020	5260	2910	2040	900	2710	1130
11	888	771	1210	450	545	1920	5780	2730	1960	855	2830	1050
12	1000	776	1190	445	570	1820	6080	2590	1820	795	3000	998
13	1050	791	1150	440	625	1730	6120	2520	1700	775	3000	942
14	1060	793	1100	435	725	1630	6040	3020	1590	750	2900	903
15	1060	780	1050	430	810	1530	5930	3210	1480	800	2760	865
16	1060	751	990	430	900	1450	5640	3200	1460	755	2760	810
17	1050	743	950	425	980	1400	5350	3270	1520	710	3030	755
18	1050	735	925	420	1100	1380	5050	3810	1430	675	4500	718
19	1010	719	900	410	1200	1310	4850	3910	1350	645	4670	696
20	982	711	870	400	1400	1250	4600	3920	1280	625	4800	703
21	955	709	850	400	1550	1190	4320	3860	1230	600	4640	688
22	925	684	820	400	1700	1150	4060	3730	1200	560	4410	667
23	877	670	780	395	1900	1120	3820	3570	1220	520	4190	653
24	854	664	760	390	2100	1110	3630	3400	1150	495	4010	763
25	833	766	740	390	2310	1090	3570	3200	1120	465	3780	794
26	926	886	700	385	2510	1080	3460	3020	1310	450	3540	802
27	914	883	670	385	2670	1060	3370	2960	1360	465	3310	818
28	921	909	650	380	2740	1040	3290	2860	1360	450	3050	842
29	909	966	630	385	---	1060	3210	2770	1350	435	2810	818
30	899	952	610	385	---	1150	3430	2930	1350	415	2600	786
31	899	---	585	385	---	1420	---	3110	---	395	2380	---
TOTAL	27331	23828	28148	13600	32035	52580	123680	101060	55200	23245	84840	31261
MEAN	882	794	908	439	1144	1696	4123	3260	1840	750	2737	1042
MAX	1060	966	1210	550	2740	2780	6120	3920	3180	1260	4800	2180
MIN	509	664	585	380	390	1040	1560	2520	1120	395	340	653
CFSM	1.01	.91	1.04	.50	1.31	1.95	4.73	3.74	2.11	.86	3.14	1.20
IN.	1.17	1.02	1.20	.58	1.37	2.25	5.28	4.32	2.36	.99	3.62	1.34

CAL YR 1980 TOTAL 350429 MEAN 957 MAX 5560 MIN 195 CFSM 1.10 IN 14.97
WTR YR 1981 TOTAL 596808 MEAN 1635 MAX 6120 MIN 340 CFSM 1.88 IN 25.49

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

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

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

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

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

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

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

AVERAGE DISCHARGE.--55 years, 9,682 ft³/s (274 m³/s), 23.11 in/yr (587 mm/yr).

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

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

Date	Time	Discharge (ft ³ /s) (m ³ /s)	Gage height (ft) (m)	Date	Time	Discharge (ft ³ /s) (m ³ /s)	Gage height (ft) (m)
Apr. 7	0400	57800 1640	16.66 5.078	Aug. 19	0700	56500 1600	16.46 5.017
Apr. 11	1000	54100 1530	16.11 4.910	Sep. 25	2400	62400 1770	17.32 5.279
Aug. 7	1900	* 88900 2520	20.78 6.334				

Minimum discharge not determined, occurred during period of backwater from ice; minimum daily discharge, 1,900 ft³/s (53.8 m³/s) Feb. 1.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	6470	6590	6930	4000	1900	19000	9500	28300	15000	8110	3390	7980
2	5980	6270	6660	3850	1920	16400	16000	26000	14500	6970	3100	7410
3	6080	6130	6660	3750	1950	14800	21000	23200	13200	6220	2820	6910
4	7160	5930	6800	3650	2250	13800	23500	21200	12000	5620	2830	6440
5	11700	5650	6480	3550	2650	12600	27500	19600	11100	5080	2740	5970
6	15700	5470	7560	3450	3100	11800	50100	18700	10100	5050	11600	5560
7	14300	5460	9310	3300	3120	11000	56700	18700	9430	5950	80200	5200
8	12300	5720	9600	3250	3080	10200	49300	18900	8830	7730	78600	4870
9	10700	5690	9650	3150	2900	9500	42700	17700	8640	6400	55800	4800
10	10100	6180	9650	3050	2850	8900	46300	15800	8430	5430	40000	5290
11	9880	6480	9500	3000	3050	8200	53600	14400	8450	4760	37500	5960
12	9510	6340	8550	2900	3400	7750	52800	14700	8200	5850	32800	6250
13	10000	6060	7950	2800	3800	7300	46200	18300	7510	5580	28900	5890
14	10700	5720	7500	2750	4350	6950	38400	21900	6800	5560	24400	5370
15	10000	5270	7050	2650	4900	6600	33200	22700	6420	9380	20000	4970
16	9090	4740	6700	2600	5600	6100	28700	21000	6140	13200	17600	4650
17	8270	4060	6390	2500	6400	5600	25600	21300	7360	10400	18500	4400
18	7630	3880	6100	2450	6750	4200	23200	22100	9900	7740	35100	4280
19	7250	3840	5850	2400	7200	4100	22800	21600	10300	6070	54400	4080
20	7130	3560	5650	2320	8100	4500	23400	19300	8590	5080	42200	4050
21	7050	3940	5400	2300	9400	4900	22000	16900	7120	4720	31800	4070
22	6620	4110	5200	2220	10800	5300	19500	15100	6250	4870	23800	4110
23	6230	3890	5050	2200	16000	5500	17500	13700	6360	5680	19200	4400
24	5870	3900	4900	2140	21900	5500	16600	12700	8920	5490	16900	5290
25	5540	4450	4800	2100	31500	5300	16900	11800	10300	4500	15000	36700
26	5730	5530	4700	2050	27000	5150	17600	11400	10600	3820	13400	57600
27	6170	6040	4500	2000	24000	5300	18600	10900	16900	3490	12100	43200
28	7780	7450	4500	1980	21200	5200	18900	11000	16600	3830	11000	30100
29	8680	7460	4400	1940	---	4900	18900	12500	12700	4550	10100	22800
30	7890	7400	4300	1920	---	5200	23100	15200	9900	4420	9330	18300
31	7110	---	4250	1920	---	5900	---	15700	---	3800	8640	---
TOTAL	264620	163210	202640	84140	241070	247450	880100	552300	296550	185350	763750	336900
MEAN	8536	5440	6537	2714	8610	7982	29340	17820	9885	5979	24640	11230
MAX	15700	7460	9650	4000	31500	19000	56700	28300	16900	13200	80200	57600
MIN	5540	3560	4250	1920	1900	4100	9500	10900	6140	3490	2740	4050
CFSM	1.50	.96	1.15	.48	1.51	1.40	5.16	3.13	1.74	1.05	4.33	1.97
IN.	1.73	1.07	1.32	.55	1.58	1.62	5.75	3.61	1.94	1.21	4.99	2.20

CAL YR 1980 TOTAL 2528910 MEAN 6910 MAX 54800 MIN 1010 CFSM 1.21 IN 16.53
WTR YR 1981 TOTAL 4218080 MEAN 11560 MAX 80200 MIN 1900 CFSM 2.03 IN 27.58

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

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

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

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

PERIOD OF DAILY RECORD.--

SPECIFIC CONDUCTANCE: November 1978 to September 1981.

WATER TEMPERATURES: November 1978 to September 1981.

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

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

EXTREMES FOR PERIOD OF DAILY RECORD.--

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

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

EXTREMES FOR CURRENT YEAR.--

SPECIFIC CONDUCTANCE: Maximum recorded, 141 micromhos May 29; minimum recorded, 45 micromhos Apr. 7.

WATER TEMPERATURES: Maximum, 24.5°C Aug. 3,4; minimum, 0.0°C on many days during winter period.

REVISIONS.--The dissolved organic carbon data published in the 1978, 1979, and 1980 reports are invalid due to a sample contamination problem.

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DATE	TIME	ESTI- MATED, DIS- CHARGE, (CFS)	SPF- CIFIC CON- DUCT- ANCE (UMHOS)	SPF- CIFIC CON- DUCT- ANCE LAB (UMHOS)	PH (UNITS)	TEMPER- ATURE, AIR (DEG C)	TEMPER- ATURE (DEG C)	TUR- BID- ITY (NTU)	OXYGEN, DIS- SOLVED (MG/L)
NOV									
19...	0830	5580	93	98	7.0	-4.5	.5	.50	13.0
JAN									
13...	1100	4070	114	126	6.9	-18.0	.0	.40	12.9
MAR									
10...	0900	12900	105	108	7.2	-2.0	.0	.80	14.0
MAY									
28...	1330	16000	86	86	7.1	18.0	14.0	.95	9.7
JUL									
21...	1600	6860	92	91	7.2	21.5	21.0	5.0	7.7
SEP									
16...	1245	6760	97	96	7.3	18.5	15.0	1.0	9.0

DATE	COLI- FORM, FECAL, 0.7 UM-MF (COLS./ 100 ML)	STREP- TOCOCCI FECAL, KF AGAR (COLS. PER 100 ML)	HARD- NESS (MG/L AS CAC03)	HARD- NESS NONCAR- BONATE (MG/L AS CAC03)	CALCIUM DIS- SOLVED (MG/L AS CA)	MAGNE- SIUM, DIS- SOLVED (MG/L AS MG)	SODIUM, DIS- SOLVED (MG/L AS NA)	POTAS- SIUM, DIS- SOLVED (MG/L AS K)	ALKA- LITY LAB (MG/L AS CAC03)
NOV									
19...	880	52	41	19	13	2.1	2.5	.4	22
JAN									
13...	460	94	50	15	16	2.4	3.1	.5	35
MAR									
10...	300	51	50	--	17	1.7	1.7	.4	33
MAY									
28...	180	66	34	8.0	11	1.6	1.7	.3	26
JUL									
21...	K110	K28	41	13	13	2.0	2.4	.4	28
SEP									
16...	350	K36	39	9.0	12	2.2	2.3	.3	30

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

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

CHEMICAL ANALYSFS, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DATE	SULFATE DIS- SOLVED (MG/L AS SO4)	CHLO- RIDE, DIS- SOLVED (MG/L AS CL)	FLUO- RIDE, DIS- SOLVED (MG/L AS F)	SILICA, DIS- SOLVED (MG/L AS SiO2)	SOLIDS, RESIDUE AT 180 DEG. C DIS- SOLVED (MG/L)	SOLIDS, SUM OF CONSTITU- ENTS, DIS- SOLVED (MG/L)	SOLIDS, DIS- SOLVED (TONS PER AC-FT)	SOLIDS, DIS- SOLVED (TONS PER DAY)	NITRO- GEN, NO2+NO3 TOTAL (MG/L AS N)
NOV 19...	11	3.6	<.1	3.9	77	51	.10	1160	.19
JAN 13...	9.4	4.0	<.1	4.5	81	62	.11	890	.25
MAR 10...	9.0	2.0	<.1	4.7	68	59	.09	2370	.46
MAY 28...	6.5	2.5	<.1	2.8	59	43	.08	--	.14
JUL 21...	8.0	3.4	<.1	2.5	68	49	.09	1260	.13
SEP 16...	8.0	3.3	<.1	2.9	74	49	.10	1350	.08

DATE	NITRO- GEN, NO2+NO3 DIS- SOLVED (MG/L AS N)	NITRO- GEN, AMMONIA TOTAL (MG/L AS N)	NITRO- GEN, AMMONIA DIS- SOLVED (MG/L AS N)	NITRO- GEN,AM- MONIA + ORGANIC TOTAL (MG/L AS N)	NITRO- GEN,AM- MONIA + ORGANIC DIS- SOLVED (MG/L AS N)	NITRO- GEN, TOTAL (MG/L AS N)	NITRO- GEN, DIS- SOLVED (MG/L AS N)	PHOS- PHORUS, TOTAL (MG/L AS P)	PHOS- PHORUS, DIS- SOLVED (MG/L AS P)
NOV 19...	.21	.000	.000	.05	.24	.24	.45	.010	<.010
JAN 13...	.20	.040	.040	.13	.18	.38	.38	<.010	<.010
MAR 10...	.44	.040	.040	<.10	.19	--	.63	.060	<.010
MAY 28...	.14	.030	.030	.47	.27	.61	.41	.020	<.010
JUL 21...	.06	.040	.050	.54	.42	.67	.48	.060	<.010
SEP 16...	.10	.030	.040	.26	.25	.34	.35	.010	<.010

DATE	ARSENIC TOTAL (UG/L AS AS)	ARSENIC DIS- SOLVED (UG/L AS AS)	BARIUM, TOTAL RECOV- ERABLE (UG/L AS BA)	BARIUM, DIS- SOLVED (UG/L AS BA)	CADMIUM TOTAL RECOV- ERABLE (UG/L AS CD)	CADMIUM DIS- SOLVED (UG/L AS CD)	CHRO- MIUM, TOTAL RECOV- ERABLE (UG/L AS CR)	CHRO- MIUM, DIS- SOLVED (UG/L AS CR)	COBALT, TOTAL RECOV- ERABLE (UG/L AS CO)	COBALT, DIS- SOLVED (UG/L AS CO)
NOV 19...	1	0	<50	10	0	0	10	10	2	0
MAR 10...	0	0	100	100	0	0	50	<10	0	0
MAY 28...	2	1	100	10	1	<1	10	<10	1	0
JUL 21...	1	1	<50	10	1	2	10	10	3	1

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

CHEMICAL ANALYSFS, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DATE	COPPER, TOTAL RECOV- ERABLE (UG/L AS CU)	COPPER, DIS- SOLVED (UG/L AS CU)	IRON, TOTAL RECOV- ERABLE (UG/L AS FE)	IRON, DIS- SOLVED (UG/L AS FE)	LEAD, TOTAL RECOV- ERABLE (UG/L AS PB)	LEAD, DIS- SOLVED (UG/L AS PB)	MANGA- NESE, TOTAL RECOV- ERABLE (UG/L AS MN)	MANGA- NESE, DIS- SOLVED (UG/L AS MN)	MERCURY TOTAL RECOV- ERABLE (UG/L AS HG)
NOV 19...	4	2	260	100	10	0	30	20	.2
MAR 10...	3	1	160	90	10	3	20	10	.1
MAY 28...	4	1	270	60	1	0	20	10	.2
JUL 21...	11	5	600	90	3	6	60	30	.1

DATE	MERCURY DIS- SOLVED (UG/L AS HG)	NICKEL, TOTAL RECOV- ERABLE (UG/L AS NI)	NICKEL, DIS- SOLVED (UG/L AS NI)	SELE- NIUM, TOTAL (UG/L AS SE)	SELE- NIUM, DIS- SOLVED (UG/L AS SE)	SILVER, TOTAL RECOV- ERABLE (UG/L AS AG)	SILVER, DIS- SOLVED (UG/L AS AG)	ZINC, TOTAL RECOV- ERABLE (UG/L AS ZN)	ZINC, DIS- SOLVED (UG/L AS ZN)
NOV 19...	<.1	5	0	0	0	0	0	20	8
MAR 10...	<.1	4	2	0	0	0	0	70	30
MAY 28...	.1	11	0	0	0	0	0	30	<4
JUL 21...	<.1	5	4	0	0	<1	0	10	40

DATE	CARBON, ORGANIC TOTAL (MG/L AS C)	CARBON, ORGANIC SUS- PENDE TOTAL (MG/L AS C)	PHYTO- PLANK- TON, TOTAL (CELLS PER ML)	SEDI- MENT, SUS- PENDE (MG/L)	SEDI- MENT, DIS- CHARGE, SUS- PENDE (T/DAY)	SED. SUSP. SIEVE DIAM. % FINER THAN .062 MM
NOV 19...	--	--	13	4	60	100
JAN 13...	6.6	--	--	1	11	100
MAR 10...	--	.2	71	3	104	--
MAY 28...	--	.4	340	8	--	82
JUL 21...	--	.9	1900	20	370	75
SEP 16...	7.8	--	520	2	37	17

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

PHYTOPLANKTON ANALYSES, OCTOBER 1980 TO SEPTEMBER 1981

DATE TIME	NOV 19.80 0830		MAR 10.81 0900		MAY 28.81 1330		JUL 21.81 1600		SEP 16.81 1245	
TOTAL CELLS/ML	13		71		340		1900		520	
DIVERSITY: DIVISION	0.0		0.7		0.6		1.0		1.2	
..CLASS	0.0		0.7		0.6		1.0		1.2	
...ORDER	0.0		0.7		1.1		1.1		1.8	
...FAMILY	0.0		1.4		2.1		1.3		2.5	
....GENUS	0.0		1.4		2.4		1.4		2.5	
ORGANISM	CELLS /ML	PER- CENT	CELLS /ML	PER- CENT	CELLS /ML	PER- CENT	CELLS /ML	PER- CENT	CELLS /ML	PER- CENT
CHLOROPHYTA (GREEN ALGAE)										
..CHLOROPHYCEAE										
...CHLOROCOCCALES										
....MICRACTINIACEAE										
....MICRACTINIUM	--	-	--	-	--	-	13	1	--	-
....OOCYSTACEAE										
....ANKISTRODESMUS	--	-	14#	20	26	8	26	1	43	8
....DICTYOSPHAERIUM	--	-	--	-	--	-	100	5	--	-
....SCENEDESMACEAE										
....SCENEDESMUS	--	-	--	-	--	-	180	9	--	-
..VOLVOCALES										
...CHLAMYDOMONADACEAE										
....CHLAMYDOMONAS	--	-	--	-	26	8	13	1	--	-
CHRYSTOPHYTA										
..BACILLARIOPHYCEAE										
...CENTRALES										
....COSCINODISCACEAE										
....CYCLOTELLA	--	-	--	-	26	8	13	1	--	-
....MELOSIRA	--	-	--	-	--	-	--	-	130#	25
..PENNALES										
...ACHNANTHACEAE										
....ACHNANTHES	--	-	14#	20	--	-	13	1	43	8
....COCCONEIS	13#	100	--	-	--	-	--	-	--	-
...FRAGILARIACEAE										
....ASTRIONELLA	--	-	--	-	140#	42	--	-	--	-
....SYNEDRA	--	-	43#	60	26	8	13	1	--	-
...GOMPHONEMATACEAE										
....GOMPHONEMA	--	-	--	-	--	-	26	1	--	-
...NAVICULACEAE										
....NAVICULA	--	-	--	-	39	12	13	1	86#	17
...NITZSCHIAEAE										
....NITZSCHIA	--	-	--	-	--	-	13	1	86#	17
...TABELLARIACEAE										
....TABELLARIA	--	-	--	-	52#	15	--	-	--	-
CYANOPHYTA (BLUE-GREEN ALGAE)										
..CYANOPHYCEAE										
...CHROOCOCCALES										
....CHROOCOCCACEAE										
....ANACYSTIS	--	-	--	-	--	-	1500#	77	--	-
...HORMOGONALES										
....NOSTOCACEAE										
....ANABAENA	--	-	--	-	--	-	--	-	130#	25
PYRRHOPHYTA (FIRE ALGAE)										
..DINOPHYCEAE										
...PERIDINIALES										
....GLENODINIACEAE										
....GLENODINIUM	--	-	--	-	--	-	13	1	--	-

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

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

SPECIFIC CONDUCTANCE (MICROMHOS/CM AT 25 DEG. C), WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
FEBRUARY				MARCH			APRIL			MAY		
1	---	---	---	117	115	116	129	123	126	75	68	70
2	---	---	---	---	---	---	126	112	123	69	66	67
3	---	---	---	---	---	---	111	89	98	71	69	70
4	---	---	---	---	---	---	89	64	75	80	72	77
5	---	---	---	---	---	---	63	58	60	80	78	79
6	---	---	---	---	---	---	60	53	57	80	77	78
7	---	---	---	---	---	---	61	45	52	79	75	76
8	---	---	---	---	---	---	53	46	49	76	74	75
9	---	---	---	---	---	---	56	52	54	78	75	76
10	---	---	---	---	---	---	58	55	56	85	80	83
11	---	---	---	108	106	107	59	57	58	93	85	89
12	---	---	---	111	108	110	58	55	56	96	92	94
13	---	---	---	112	111	111	57	55	56	98	87	95
14	---	---	---	113	111	112	61	57	59	86	76	80
15	---	---	---	117	114	115	62	60	61	77	72	74
16	---	---	---	118	116	117	66	62	64	76	72	74
17	---	---	---	121	118	119	75	67	71	80	77	79
18	---	---	---	131	122	126	80	76	78	79	74	76
19	111	109	110	137	133	135	84	78	80	75	73	74
20	110	106	108	134	132	133	83	78	79	79	75	76
21	105	99	102	132	129	130	88	81	85	86	79	82
22	99	86	93	130	125	128	83	81	82	92	86	89
23	87	80	82	126	123	124	90	84	87	97	92	94
24	91	79	83	124	123	123	96	91	94	99	92	96
25	94	90	92	125	123	124	96	93	94	92	90	91
26	104	90	97	124	121	122	95	91	93	98	90	92
27	112	104	109	122	119	121	99	95	98	104	99	102
28	114	112	113	120	118	119	98	93	95	99	93	96
29	---	---	---	120	118	119	95	93	94	141	84	91
30	---	---	---	118	116	117	93	75	83	84	81	82
31	---	---	---	123	117	119	---	---	---	81	79	80
MONTH	114	79	99	137	106	120	129	45	77	141	66	82
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
JUNE				JULY			AUGUST			SEPTEMBER		
1	81	79	80	90	86	88	120	109	114	95	93	94
2	84	81	82	95	89	91	118	109	113	97	95	96
3	84	83	84	101	95	99	127	118	123	98	97	98
4	87	84	85	102	99	100	131	125	128	100	97	99
5	88	86	87	113	103	108	134	127	130	103	99	100
6	90	88	89	110	103	105	137	119	130	102	99	100
7	90	88	89	104	100	102	118	65	93	102	98	99
8	94	90	92	106	102	104	65	58	59	106	102	104
9	99	92	96	104	101	102	62	59	61	106	96	1

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

TEMPERATURE, WATER (DEG. C), WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

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

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

01015800 AROOSTOOK RIVER NEAR MASARDIS, ME

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

DRAINAGE AREA.--888 mi² (2,300 km²).

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

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

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

AVERAGE DISCHARGE.--24 years, 1,505 ft³/s (42.62 m³/s).

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

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 10,000 ft³/s (283 m³/s) Sept. 25, gage height 12.22 ft (3.725 m); maximum gage height, 14.25 ft (4.343 m) Apr. 6 (backwater from ice); minimum discharge not determined, occurred during period of backwater from ice; minimum daily discharge, 260 ft³/s (7.363 m³/s) Jan. 30, 31.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	802	1000	1400	415	290	2600	1600	3070	2300	724	327	870
2	774	940	1300	405	355	2150	2600	2840	2110	605	313	788
3	764	859	1280	385	470	1800	3800	2570	1760	530	299	713
4	862	789	1800	375	720	1580	5800	2340	1490	469	334	652
5	1500	763	1980	360	700	1380	7800	2130	1290	420	326	599
6	1760	753	1750	350	640	1220	8600	2010	1180	382	475	548
7	1620	727	1550	345	590	1100	9330	1930	1340	372	2330	505
8	1420	744	1500	340	530	1020	8510	1820	1890	432	4060	472
9	1230	966	1600	335	485	930	7600	1650	1780	499	3960	447
10	1100	1000	1250	330	470	840	8400	1490	1580	530	3400	472
11	985	1080	1100	325	480	765	8850	1350	1660	512	2810	558
12	1110	1140	950	315	580	720	8000	1290	1210	466	2670	604
13	1650	1220	900	310	770	660	6600	2120	1140	405	3270	598
14	1810	1280	850	305	1000	620	5330	3700	1040	367	2820	570
15	1640	1210	800	300	1270	585	4500	3550	934	752	2050	553
16	1400	951	750	295	1320	550	3780	3200	880	1170	1640	557
17	1180	851	720	295	1280	495	3280	3900	959	969	1920	544
18	959	879	700	290	1140	450	2960	4640	1030	765	4400	503
19	871	713	670	290	1060	425	3090	4130	925	635	5840	413
20	816	809	640	285	1050	440	3090	3420	801	560	5500	477
21	753	874	625	280	1500	485	2790	2800	850	509	4370	922
22	703	793	615	280	1950	565	2430	2360	1130	485	3610	1110
23	663	733	600	280	3000	650	2160	1960	1530	464	3020	1050
24	631	715	580	275	4100	710	2050	1660	2250	429	2950	2050
25	591	887	545	270	4400	705	2470	1470	2070	388	2890	8390
26	781	2110	520	270	3850	680	2740	1350	1630	352	2080	9490
27	1470	1820	500	270	3500	625	2630	1360	1590	330	1570	8160
28	1650	1800	485	270	3100	580	2440	1380	1440	331	1320	6620
29	1470	1600	465	265	---	590	2320	1900	1150	334	1170	5260
30	1260	1500	450	260	---	680	2790	2350	900	321	1090	4090
31	1110	---	430	260	---	940	---	2290	---	322	969	---
TOTAL	35335	31506	29305	9630	40600	27540	138340	74030	41839	15829	73783	58585
MEAN	1140	1050	945	311	1450	888	4611	2388	1395	511	2380	1953
MAX	1810	2110	1980	415	4400	2600	9330	4640	2300	1170	5840	9490
MIN	591	713	430	260	290	425	1600	1290	801	321	299	413
CAL YR 1980	TOTAL	358481	MEAN	979	MAX	7410	MIN	145				
WTR YR 1981	TOTAL	576322	MEAN	1579	MAX	9490	MIN	260				

01016500 MACHIAS RIVER NEAR ASHLAND, ME

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

DRAINAGE AREA.--330 mi² (855 km²).

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

REVISED RECORDS.--WSP 1501: Drainage area.

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

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

AVERAGE DISCHARGE.--30 years, 570 ft³/s (16.14 m³/s), 23.46 in/yr (596 mm/yr).

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

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

Date	Time	Discharge (ft ³ /s) (m ³ /s)	Gage height (ft) (m)	Date	Time	Discharge (ft ³ /s) (m ³ /s)	Gage height (ft) (m)
Feb. 24	1400	ice jam	* 7.79 2.374	Aug. 8	1900	* 4990 141	5.59 1.704
Apr. 7	1600	3680 104	4.75 1.448	Aug. 19	0800	4340 123	5.18 1.579
Apr. 11	1700	3680 104	4.75 1.448				

Minimum discharge, 65 ft³/s (184 m³/s) July 26, 27, gage height, 0.66 ft (0.212 m).

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	236	322	513	160	82	830	340	1480	583	263	92	362
2	234	313	460	155	86	730	620	1410	476	234	88	328
3	228	296	535	150	100	635	1100	1300	433	209	83	295
4	305	284	731	150	135	550	1700	1200	410	189	77	269
5	501	277	741	145	185	490	2200	1100	395	171	73	247
6	546	279	625	140	305	440	3160	1010	390	157	372	227
7	519	259	555	140	275	410	3500	923	385	167	2080	208
8	468	285	540	135	240	375	3260	818	380	168	3380	194
9	417	305	630	130	215	340	2960	708	380	175	3090	197
10	379	316	530	130	195	320	3380	616	380	164	2380	242
11	346	340	470	130	185	295	3640	561	380	152	1710	262
12	396	343	410	125	265	275	3520	670	336	138	1650	265
13	471	352	365	125	350	250	2930	1350	310	122	1460	253
14	463	340	335	120	475	240	2360	1380	283	122	1170	241
15	425	314	315	120	775	230	1970	1160	262	139	890	246
16	380	256	300	115	640	215	1620	1330	269	151	983	237
17	348	266	280	115	560	205	1360	1920	311	154	1710	216
18	327	269	265	110	515	190	1200	1770	301	143	4120	199
19	314	244	255	105	460	185	1200	1400	410	132	4260	192
20	300	237	245	105	440	180	1170	1130	355	119	3490	269
21	283	268	230	100	675	175	1070	915	320	109	2390	318
22	266	244	220	98	880	180	945	731	315	101	1630	295
23	253	231	215	95	1200	215	845	626	315	93	1240	310
24	243	242	205	93	1520	260	836	544	325	82	1190	801
25	227	333	200	90	1800	265	1010	525	340	74	1080	1660
26	283	620	190	88	1500	235	1050	642	367	68	904	2060
27	404	591	185	87	1200	210	1010	756	435	76	735	1970
28	411	619	180	86	1000	195	977	781	418	80	611	1590
29	386	537	175	85	---	195	1020	849	356	72	524	1260
30	362	558	170	84	---	215	1360	868	305	87	455	1020
31	336	---	165	83	---	265	---	778	---	98	402	---
TOTAL	11057	10140	11235	3594	16258	9795	53313	31251	10925	4209	44319	16233
MEAN	357	338	362	116	581	316	1777	1008	364	136	1430	541
MAX	546	620	741	160	1800	830	3640	1920	583	263	4260	2060
MIN	227	231	165	83	82	175	340	525	262	68	73	192
CFSM	1.08	1.02	1.10	.35	1.76	.96	5.39	3.06	1.10	.41	4.33	1.64
IN.	1.25	1.14	1.27	.41	1.83	1.10	6.01	3.52	1.23	.47	5.00	1.83
CAL YR 1980	TOTAL	130289	MEAN 356	MAX 3190	MIN 42	CFSM 1.08	IN 14.69					
WTR YR 1981	TOTAL	222329	MEAN 609	MAX 4260	MIN 68	CFSM 1.85	IN 25.06					

01017000 AROOSTOOK RIVER AT WASHBURN, ME

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

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

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

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

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

REMARKS.--Records fair. Doubtful or no gage-height record Nov. 17 to Dec. 17, Jan 5 to Feb. 3, and Apr. 16 to June 15. Considerable regulation by Squa Pan Lake, capacity 2,893,000,000 ft³ (81,900,000 m³), and by Millinocket Lake, capacity 1,110,000,000 ft³ (31,400,000 m³) used for power. Several observations of water temperature and specific conductance were made during the year.

AVERAGE DISCHARGE.--51 years, 2,647 ft³/s (74.96 m³/s).

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

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 17,200 ft³/s (487 m³/s) Aug. 18, gage height 8.76 (2.670 m); maximum gage height, 11.17 ft (3.405 m) Apr. 6 (backwater from ice); minimum daily discharge, 398 ft³/s (11.3 m³/s) Aug. 3.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1440	1580	2200	940	770	4700	2900	5400	4200	1570	463	2510
2	1420	1490	2050	900	900	3850	4500	5000	3850	1370	432	2160
3	1390	1400	2000	870	1040	3100	6200	4600	3400	1210	398	1970
4	1540	1310	2650	850	1150	2700	8100	4200	3000	1060	410	1720
5	2490	1270	3050	830	1250	2150	12000	3800	2600	949	426	1510
6	3020	1240	3200	820	1310	1800	13600	3550	2350	869	909	1130
7	2800	1200	2950	800	1350	1400	15300	3440	2200	773	5600	987
8	2450	1250	2700	770	1350	1200	14500	3300	2300	747	9720	952
9	2140	1470	2500	760	1250	1040	13200	3000	2480	817	9060	1040
10	2010	1630	2600	750	1060	1000	14300	2750	2680	802	7120	1100
11	1720	1710	2500	740	1010	950	15300	2550	2450	737	6000	1260
12	1880	1750	2320	740	1140	900	14300	2350	2200	655	5730	1300
13	2620	1930	2150	730	1500	880	12400	3100	2050	572	6180	1080
14	2840	1980	2000	720	2050	840	10300	6500	1900	525	4930	1000
15	2580	1850	1850	710	2300	820	8620	6400	1750	650	3540	999
16	2280	1510	1750	700	2270	810	7000	5800	1700	1300	3510	990
17	2030	1400	1680	700	2100	800	6100	6400	1810	1220	8930	1110
18	1680	1320	1580	700	1890	800	5600	8100	1940	994	16600	1010
19	1490	1270	1500	690	1750	820	5500	7100	1800	846	14300	948
20	1450	1300	1450	670	1950	880	5300	6200	1610	775	12200	1140
21	1480	1450	1400	660	2300	1100	4900	5400	1610	702	9410	1700
22	1380	1350	1340	660	3000	1530	4500	4500	1960	623	7190	1940
23	1300	1270	1300	650	3900	1520	4100	3600	3120	587	6610	1850
24	1190	1220	1250	650	4800	1490	3850	3100	3510	538	6690	2970
25	1030	1350	1200	650	6300	1450	3700	2750	3300	485	6540	8350
26	1170	1900	1150	650	6500	1400	5000	2550	3570	437	5780	11900
27	1810	2850	1120	640	6200	1360	4900	2500	3600	440	4930	11300
28	2400	3050	1100	640	5700	1350	4700	2540	3070	431	4200	9550
29	2230	2650	1070	640	---	1340	4200	3300	2470	431	3710	7850
30	1950	2400	1030	630	---	1530	4700	3900	1960	466	3210	6150
31	1720	---	980	640	---	2100	---	4300	---	477	2850	---
TOTAL	58930	49350	57620	22500	68090	47610	239570	131980	76440	24058	177578	89476
MEAN	1901	1645	1859	726	2432	1536	7986	4257	2548	776	5728	2983
MAX	3020	3050	3200	940	6500	4700	15300	8100	4200	1570	16600	11900
MIN	1030	1200	980	630	770	800	2900	2350	1610	431	398	948
CAL YR 1980	TOTAL	646416	MEAN	1766	MAX	13300	MIN	309				
WTR YR 1981	TOTAL	1043202	MEAN	2858	MAX	16600	MIN	398				

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

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

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

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

PERIOD OF DAILY RECORD.--

SPECIFIC CONDUCTANCE: October 1975 to September 1981.

WATER TEMPERATURES: October 1975 to September 1981.

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

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

EXTREMES FOR PERIOD OF DAILY RECORD.--

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

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

EXTREMES FOR CURRENT YEAR.--

SPECIFIC CONDUCTANCE: Maximum, 124 micromhos Feb. 3, 4; minimum, 40 micromhos Apr. 7.

WATER TEMPERATURES: Maximum, 26.0°C July 4-6, Aug. 3, 4; minimum, 0.0°C on many days during winter period.

REVISIONS.--The dissolved organic carbon data published in the 1979 and 1980 reports are invalid due to a sample contamination problem.

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DATE	TIME	ESTI- MATED, DIS- CHARGE, (CFS)	SPE- CIFIC CON- DUCT- ANCE (UMHOS)	SPE- CIFIC CON- DUCT- ANCE LAB (UMHOS)	PH (UNITS)	TEMPER- ATURE, AIR (DEG C)	TEMPER- ATURE (DEG C)	TUR- BID- ITY (NTU)	OXYGEN, DIS- SOLVED (MG/L)	COLI- FORM, FECAL, 0.7 UM-MF (COLS./ 100 ML)	STREP- TOCOCCI FECAL, KF AGAR (COLS. PER 100 ML)	HARD- NESS (MG/L AS CAC03)
OCT												
29...	0900	2620	74	69	7.1	.0	3.5	.50	12.4	260	460	26
NOV												
19...	1045	1490	85	80	6.9	-4.0	.0	.50	12.8	120	K15	36
DEC												
09...	0930	2940	68	66	6.9	-1.0	.0	.30	13.8	190	39	28
JAN												
12...	1545	870	92	91	6.8	-18.0	.0	.30	10.1	100	>1600	39
FEB												
17...	1615	2470	80	78	6.6	4.0	.0	.40	12.2	65	K1500	32
MAR												
09...	1730	1220	70	74	7.0	-1.0	.0	.50	12.6	220	130	32
APR												
15...	0815	10200	50	49	6.6	-3.5	2.5	2.4	12.1	68	K19	21
MAY												
28...	1000	2990	67	66	7.2	19.0	18.0	.85	8.9	71	K9	27
JUN												
25...	0930	3880	63	62	7.0	13.0	17.0	1.5	8.6	200	780	27
JUL												
27...	0830	734	87	88	7.3	18.0	20.5	1.2	8.3	K20	K11	39
AUG												
10...	1615	8370	55	53	6.7	25.0	18.0	2.8	9.1	K95	160	27
SEP												
16...	1015	1160	99	97	7.4	17.0	15.5	1.3	9.6	180	110	39

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

01017100 AROOSTOOK RIVER AT CARIBOU, ME--Continued

CHEMICAL ANALYSFS, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DATE	HARD- NESS NONCAR- BONATE (MG/L AS CAC03)	CALCIUM DIS- SOLVED (MG/L AS CA)	MAGNE- SIUM, DIS- SOLVED (MG/L AS MG)	SODIUM, DIS- SOLVED (MG/L AS NA)	POTAS- SIUM, DIS- SOLVED (MG/L AS K)	ALKA- 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)
OCT 29...	6.0	7.8	1.6	1.6	.7	20	7.0	2.4	.0	4.0	61	38
NOV 19...	16	11	2.0	1.8	.8	21	7.5	2.7	.0	5.2	66	45
DEC 09...	3.0	8.6	1.7	1.6	.4	25	6.1	1.7	.1	5.4	58	43
JAN 12...	17	12	2.1	2.0	.6	22	7.2	2.4	<.1	5.2	66	47
FEB 17...	18	10	1.7	1.7	.6	14	7.8	2.9	<.1	4.9	64	41
MAR 09...	13	9.8	1.8	1.8	.6	19	7.0	2.2	<.1	4.9	55	42
APR 15...	8.0	6.7	1.1	1.1	.5	13	4.9	1.2	<.1	4.5	62	29
MAY 28...	3.0	8.3	1.5	1.3	.4	24	5.7	1.6	<.1	2.2	49	36
JUN 25...	10	8.5	1.3	1.3	.4	17	4.3	1.7	--	3.6	40	36
JUL 22...	10	12	2.1	2.6	1.0	29	5.7	2.2	<.1	2.6	77	47
AUG 10...	7.0	8.2	1.5	1.4	.4	20	6.0	1.8	<.1	4.7	67	37
SEP 16...	1.0	13	1.7	2.2	.6	38	6.3	2.7	<.1	3.3	72	54
DATE	SOLIDS, DIS- SOLVED (TONS PER AC-FT)	SOLIDS, DIS- SOLVED (TONS PER DAY)	NITRO- GEN, NO2+NO3 TOTAL (MG/L AS N)	NITRO- GEN, NO2+NO3 DIS- SOLVED (MG/L AS N)	NITRO- GEN, AMMONIA TOTAL (MG/L AS N)	NITRO- GEN, AMMONIA DIS- SOLVED (MG/L AS N)	NITRO- GEN,AM- MONIA + ORGANIC TOTAL (MG/L AS N)	NITRO- GEN,AM- MONIA + ORGANIC DIS. (MG/L AS N)	NITRO- GEN, TOTAL (MG/L AS N)	NITRO- GEN DIS- SOLVED (MG/L AS N)	PHOS- PHORUS, TOTAL (MG/L AS P)	PHOS- PHORUS, DIS- SOLVED (MG/L AS P)
OCT 29...	.08	432	.19	.20	.030	.040	.43	.23	.62	.43	.040	.030
NOV 19...	.09	266	.37	.37	.020	.030	.22	.19	.59	.56	.040	.030
DEC 09...	.08	460	.46	.45	.050	.020	.35	.42	.81	.87	.050	.000
JAN 12...	.09	155	.46	.48	.060	.070	.24	.22	.70	.70	.030	.030
FEB 17...	.09	427	--	.66	.090	.050	.37	.17	--	.83	.060	.010
MAR 09...	.07	181	.47	.46	<.010	.030	.22	.21	.69	.67	.050	.020
APR 15...	.08	1710	.24	.25	.010	.030	.36	.27	.60	.52	.040	.010
MAY 28...	.07	396	.17	.16	.040	.040	.48	.47	.65	.63	<.010	<.010
JUN 25...	.05	419	.10	.10	.030	.020	.48	.34	.58	.44	.020	<.010
JUL 22...	.10	153	.24	.23	.090	.090	.80	.48	1.0	.71	.040	.020
AUG 10...	.09	1510	.10	.08	.050	.050	.53	.48	.63	.56	.020	.010
SEP 16...	.10	226	.24	.23	.030	.030	.49	.36	.73	.59	.050	.040

01017100 AROOSTOOK RIVER AT CARIBOU, ME--Continued

CHEMICAL ANALYSFS, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DATE	ARSENIC TOTAL (UG/L AS AS)	ARSENIC DIS- SOLVED (UG/L AS AS)	BARIUM, TOTAL RECOV- ERABLE (UG/L AS BA)	BARIUM, DIS- SOLVED (UG/L AS BA)	CADMIUM TOTAL RECOV- ERABLE (UG/L AS CD)	CADMIUM DIS- SOLVED (UG/L AS CD)	CHRO- MIUM, TOTAL RECOV- ERABLE (UG/L AS CR)	CHRO- MIUM, DIS- SOLVED (UG/L AS CR)	COBALT, TOTAL RECOV- ERABLE (UG/L AS CO)	COBALT, DIS- SOLVED (UG/L AS CO)
NOV 19...	1	0	100	10	0	0	10	10	2	0
FEB 17...	1	1	<50	100	1	0	10	<10	1	0
MAY 28...	2	1	100	10	1	1	10	10	1	1
AUG 10...	1	1	<50	10	1	1	10	10	<1	<1

DATE	COPPER, TOTAL RECOV- ERABLE (UG/L AS CU)	COPPER, DIS- SOLVED (UG/L AS CU)	IRON, TOTAL RECOV- ERABLE (UG/L AS FE)	IRON, DIS- SOLVED (UG/L AS FE)	LEAD, TOTAL RECOV- ERABLE (UG/L AS PB)	LEAD, DIS- SOLVED (UG/L AS PB)	MANGA- NESE, TOTAL RECOV- ERABLE (UG/L AS MN)	MANGA- NESE, DIS- SOLVED (UG/L AS MN)	MERCURY TOTAL RECOV- ERABLE (UG/L AS HG)
NOV 19...	3	1	270	100	3	1	30	20	.1
FEB 17...	2	2	160	90	4	0	40	20	.3
MAY 28...	5	2	240	60	2	0	20	20	.2
AUG 10...	4	2	440	130	4	<1	50	20	<.1

DATE	MERCURY DIS- SOLVED (UG/L AS HG)	NICKEL, TOTAL RECOV- ERABLE (UG/L AS NI)	NICKEL, DIS- SOLVED (UG/L AS NI)	SELE- NIUM, TOTAL (UG/L AS SE)	SELE- NIUM, DIS- SOLVED (UG/L AS SE)	SILVER, TOTAL RECOV- ERABLE (UG/L AS AG)	SILVER, DIS- SOLVED (UG/L AS AG)	ZINC, TOTAL RECOV- ERABLE (UG/L AS ZN)	ZINC, DIS- SOLVED (UG/L AS ZN)
NOV 19...	.1	6	0	0	0	0	0	30	2
FEB 17...	.2	2	0	0	0	1	0	10	<10
MAY 28...	<.1	16	1	0	0	0	0	30	5
AUG 10...	<.1	2	4	<1	<1	<1	<1	10	4

DATE	CARBON, ORGANIC TOTAL (MG/L AS C)	CARBON, ORGANIC SUS- PENDE TOTAL (MG/L AS C)	PHYTO- PLANK- TON, TOTAL (CELLS PER ML)	SEDI- MENT, SUS- PENDE (MG/L)	SEDI- MENT, DIS- CHARGE, SUS- PENDE (T/DAY)	SED. SUSP. SIEVE DIAM. % FINER THAN .062 MM
OCT 29...	10	--	--	4	28	100
NOV 19...	--	--	600	2	8.0	100
DEC 09...	8.3	--	--	2	16	100
JAN 12...	5.5	--	--	1	2.3	100
FEB 17...	--	.3	--	4	27	92
MAR 09...	--	--	460	2	6.6	--
APR 15...	7.7	--	--	9	248	87
MAY 28...	--	.4	430	4	32	87
JUN 25...	8.5	--	800	6	63	80
JUL 22...	9.5	--	8000	4	7.9	91
AUG 10...	--	--	70	1	23	100
SEP 16...	6.7	--	42	1	3.1	100

01017100 AROOSTOOK RIVER AT CARIBOU, ME--Continued

PHYTOPLANKTON ANALYSES, OCTOBER 1980 TO SEPTEMBER 1981

DATE TIME	NOV 19,80 1045	MAR 9,81 1730	MAY 28,81 1000	JUN 25,81 0930
TOTAL CELLS/ML	600	460	430	800
DIVERSITY: DIVISION	0.3	0.2	1.3	1.4
..CLASS	0.3	0.2	1.3	1.4
..ORDER	0.4	0.9	1.9	1.7
...FAMILY	0.4	0.9	3.2	2.1
....GENUS	0.4	0.9	3.3	2.2

ORGANISM	CELLS /ML	PER- CENT	CELLS /ML	PER- CENT	CELLS /ML	PER- CENT	CELLS /ML	PER- CENT
CHLOROPHYTA (GREEN ALGAE)								
..CHLOROPHYCEAE								
...CHLOROCOCCALES								
....HYDRODICTYACEAE								
....PEDIASTRUM	--	-	--	-	--	-	--	-
....MICRACTINIACEAE								
....MICRACTINIUM	--	-	--	-	91#	21	52	6
....OOCYSTACEAE								
....ANKISTRODESMUS	--	-	--	-	--	-	13	2
....KIRCHNERIELLA	--	-	13	3	--	-	--	-
....SELENASTRUM	13	2	--	-	--	-	--	-
....SCENEDESMACEAE								
....SCENEDESMUS	--	-	--	-	52	12	52	6
....TETRASTRUM	--	-	--	-	--	-	52	6
..VOLVOCALES								
...CHLAMYDOMONADACEAE								
....CHLAMYDOMONAS	13	2	--	-	26	6	26	3
..ZYGNEMATALES								
...DESMIDIACEAE								
....EUASTRUM	--	-	--	-	--	-	13	2
CHRYSOPHYTA								
..BACILLARIOPHYCEAE								
...CENTRALES								
....COSCINODISCACEAE								
....CYCLOTELLA	--	-	--	-	13	3	13	2
....MELOSIRA	--	-	--	-	26	6	--	-
..PENNALES								
...ACHNANTHACEAE								
....ACHNANTHES	--	-	--	-	--	-	--	-
...CYMBELLACEAE								
....CYMBELLA	--	-	--	-	39	9	--	-
...DIATOMACEAE								
....DIATOMA	--	-	--	-	--	-	--	-
...FRAGILARIACEAE								
....FRAGILARIA	--	-	--	-	--	-	39	5
....SYNEDRA	--	-	--	-	65#	15	--	-
...GOMPHONEMACEAE								
....GOMPHONEMA	--	-	--	-	13	3	--	-
...NAVICULACEAE								
....NAVICULA	--	-	--	-	39	9	39	5
...NITZSCHIACEAE								
....NITZSCHIA	--	-	--	-	39	9	26	3
CYANOPHYTA (BLUE-GREEN ALGAE)								
..CYANOPHYCEAE								
...CHROOCOCCALES								
....CHROOCOCCACEAE								
....AGMENELLUM	--	-	100#	22	--	-	--	-
....ANACYSTIS	13	2	--	-	13	3	480#	60
...HORMOGONALES								
...OSCILLATORIACEAE								
....OSCILLATORIA	570#	94	350#	75	--	-	--	-
EUGLENOPHYTA (EUGLENOIDS)								
..EUGLENOPHYCEAE								
...EUGLENALES								
....EUGLENACEAE								
....EUGLENA	--	-	--	-	13	3	--	-
PYRRHOPHYTA (FIRE ALGAE)								
..DINOPHYCEAE								
...PERIDINIALES								
...GLENODINIACEAE								
....GLENODINIUM	--	-	--	-	--	-	--	-

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

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

01017100 AROOSTOOK RIVER AT CARIBOU, ME--Continued

PHYTOPLANKTON ANALYSES, OCTOBER 1980 TO SEPTEMBER 1981

DATE TIME	JUL 22,81 0830	AUG 10,81 1615	SEP 16,81 1015
TOTAL CELLS/ML	8000	70	42
DIVERSITY: DIVISION	0.3	0.0	0.0
..CLASS	0.3	0.0	0.0
..ORDER	0.3	0.0	0.0
...FAMILY	0.7	1.9	1.6
....GENUS	0.7	1.9	1.6

ORGANISM	CELLS /ML	PER- CENT	CELLS /ML	PER- CENT	CELLS /ML	PER- CENT
CHLOROPHYTA (GREEN ALGAE)						
..CHLOROPHYCEAE						
...CHLOROCOCCALES						
...HYDRODICTYACEAE						
....PEDIASTRUM	120	1	--	-	--	-
....MICRACTINIACEAE						
....MICRACTINIUM	7300#	90	--	-	--	-
....OOCYSTACEAE						
....ANKISTRODESMUS	--	-	--	-	--	-
....KIRCHNERIELLA	--	-	--	-	--	-
....SELENASTRUM	--	-	--	-	--	-
....SCENEDESMACEAE						
....SCENEDESMUS	350	4	--	-	--	-
....TETRASTRUM	--	-	--	-	--	-
..VOLVOCELES						
...CHLAMYDOMONADACEAE						
...CHLAMYDOMONAS	--	-	--	-	--	-
..ZYGNEMATALES						
...DESMIDIACEAE						
....EUASTRUM	--	-	--	-	--	-
CHRYSOPHYTA						
..BACILLARIOPHYCEAE						
...CENTRALES						
...COSCINODISCACEAE						
....CYCLOTELLA	*	0	--	-	--	-
....MELOSIRA	--	-	--	-	--	-
..PENNALES						
...ACHNANTHACEAE						
....ACHNANTHES	--	-	28#	40	--	-
...CYMBELLACEAE						
....CYMBELLA	--	-	--	-	14#	33
...DIATOMACEAE						
....DIATOMA	--	-	14#	20	--	-
...FRAGILARIACEAE						
....FRAGILARIA	--	-	--	-	--	-
....SYNEDRA	*	0	--	-	--	-
...GOMPHONEMATAACEAE						
....GOMPHONEMA	43	1	--	-	--	-
...NAVICULACEAE						
....NAVICULA	--	-	14#	20	14#	33
...NITZSCHIA	--	-	14#	20	14#	33
...NITZSCHIA	--	-	14#	20	14#	33
CYANOPHYTA (BLUE-GREEN ALGAE)						
..CYANOPHYCEAE						
...CHROOCOCCALES						
...CHROOCOCCACEAE						
....AGMENELLUM	--	-	--	-	--	-
....ANACYSTIS	220	3	--	-	--	-
...HORMOGONALES						
...OSCILLATORIACEAE						
....OSCILLATORIA	--	-	--	-	--	-
EUGLENOPHYTA (EUGLENIDS)						
..EUGLENOPHYCEAE						
...EUGLENALES						
...EUGLENACEAE						
....EUGLENA	--	-	--	-	--	-
PYRRHOPHYTA (FIRE ALGAE)						
..DINOPHYCEAE						
...PERIDINIALES						
...GLENODINIACEAE						
....GLENODINIUM	*	0	--	-	--	-

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

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

01017100 AROOSTOOK RIVER AT CARIBOU, ME--Continued

SPECIFIC CONDUCTANCE (MICROMHOS/CM AT 25 DEG. C), WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
OCTOBER			NOVEMBER			DECEMBER			JANUARY			
1	78	73	75	76	72	75	71	69	70	---	---	---
2	79	73	76	80	74	77	72	68	70	---	---	---
3	81	75	78	80	72	78	80	69	74	---	---	---
4	85	77	81	78	74	76	---	---	---	---	---	---
5	93	83	89	84	74	80	---	---	---	---	---	---
6	89	72	79	86	76	83	---	---	---	---	---	---
7	72	68	69	86	76	83	---	---	---	---	---	---
8	69	67	68	91	82	86	---	---	---	---	---	---
9	73	68	70	91	89	90	---	---	---	---	---	---
10	74	70	72	91	82	88	74	70	72	---	---	---
11	73	69	72	84	76	81	74	72	73	---	---	---
12	87	70	79	82	76	79	78	73	75	---	---	---
13	93	83	88	80	78	80	82	78	80	91	85	87
14	82	71	76	80	76	78	83	82	83	92	85	88
15	73	68	70	78	74	76	85	83	84	93	89	92
16	71	68	70	76	74	76	89	82	84	92	87	90
17	74	71	72	84	74	79	94	90	91	96	91	92
18	75	70	73	86	82	84	95	90	92	97	90	93
19	81	73	77	86	84	85	96	91	93	90	88	89
20	83	78	81	87	84	86	96	86	91	89	84	87
21	85	79	82	93	87	90	92	89	90	89	84	87
22	85	78	82	89	82	85	91	86	88	91	86	89
23	89	80	84	83	75	80	---	---	---	92	88	90
24	88	81	84	88	82	85	---	---	---	96	90	92
25	91	81	85	93	87	90	---	---	---	97	90	93
26	---	---	---	103	92	98	---	---	---	93	89	91
27	---	---	---	93	73	82	---	---	---	92	90	91
28	---	---	---	73	68	71	---	---	---	94	89	92
29	---	---	---	68	67	68	---	---	---	93	91	92
30	72	70	71	72	68	71	---	---	---	92	89	91
31	74	72	73	---	---	---	---	---	---	96	91	92
MONTH	93	67	77	103	67	81	96	68	82	97	84	90

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
FEBRUARY			MARCH			APRIL			MAY			
1	97	89	93	---	---	---	94	79	87	61	56	59
2	95	89	92	---	---	---	78	72	75	59	55	57
3	124	92	102	---	---	---	72	65	68	58	56	57
4	124	111	116	---	---	---	65	57	60	59	58	59
5	114	111	113	---	---	---	60	57	58	63	59	61
6	112	104	106	---	---	---	59	45	53	69	63	66
7	104	95	98	---	---	---	48	40	44	68	65	67
8	94	88	91	---	---	---	43	41	42	70	65	67
9	88	84	86	---	---	---	48	43	46	70	65	68
10	88	83	85	71	67	70	50	46	48	68	67	68
11	85	77	82	72	67	70	46	43	44	71	68	69
12	97	78	90	74	67	71	44	42	43	74	70	72
13	98	91	93	77	69	73	45	42	44	83	70	76
14	96	91	94	76	70	73	49	46	47	76	56	65
15	91	84	87	74	69	72	52	49	50	56	52	54
16	84	81	82	76	68	72	53	50	51	55	52	54
17	---	---	---	78	69	74	56	53	55	58	54	56
18	---	---	---	83	70	76	61	56	59	56	49	52
19	---	---	---	80	52	68	61	59	61	49	46	47
20	---	---	---	80	57	67	61	58	59	50	48	49
21	---	---	---	79	75	77	60	58	59	53	50	52
22	---	---	---	78	73	75	61	59	60	59	53	57
23	---	---	---	77	71	74	65	61	63	62	58	60
24	---	---	---	76	70	73	68	65	66	63	59	62
25	---	---	---	80	71	76	71	65	69	67	61	64
26	---	---	---	81	75	78	67	58	63	70	65	67
27	---	---	---	86	76	81	61	59	60	71	67	69
28	---	---	---	88	79	83	62	58	60	73	67	70
29	---	---	---	93	81	87	68	60	62	80	73	76
30	---	---	---	95	87	92	68	61	66	74	66	70
31	---	---	---	100	94	98	---	---	---	67	63	65
MONTH	124	77	94	100	52	76	94	40	57	83	46	62

01017100 AROOSTOOK RIVER AT CARIBOU, ME--Continued

SPECIFIC CONDUCTANCE (MICROMHOS/CM AT 25 DEG. C), WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
	JUNE			JULY			AUGUST			SEPTEMBER		
1	65	63	64	74	68	72	110	103	107	93	89	91
2	64	60	61	78	74	76	103	101	102	96	91	94
3	63	60	62	82	77	80	112	103	108	101	94	98
4	65	63	63	89	81	84	105	103	104	94	91	93
5	72	64	68	90	85	87	109	105	107	102	90	95
6	74	67	70	94	88	91	123	63	107	105	95	98
7	79	70	75	102	93	97	117	89	106	105	100	103
8	80	74	77	111	100	105	85	59	68	109	101	106
9	73	62	67	110	100	107	58	54	56	110	105	108
10	69	67	68	101	95	98	58	54	56	109	103	106
11	74	67	69	97	92	94	59	48	57	108	103	106
12	74	67	70	95	91	94	62	58	61	105	98	101
13	75	67	70	95	93	94	62	59	61	100	93	97
14	75	68	71	98	93	95	61	58	59	98	94	96
15	78	74	76	99	94	97	62	58	60	99	95	98
16	79	74	77	102	96	99	79	61	72	101	96	98
17	82	77	80	95	80	85	95	78	84	96	92	95
18	82	80	81	80	78	79	93	67	75	91	89	90
19	84	80	82	83	78	81	67	56	60	92	84	87
20	88	78	82	86	83	85	57	56	57	113	92	98
21	85	80	82	91	85	88	61	57	59	119	102	113
22	88	82	85	95	89	91	66	61	64	101	83	91
23	92	82	88	94	90	92	76	66	71	83	76	78
24	89	70	80	95	92	93	78	75	77	80	75	78
25	69	61	65	96	93	94	75	71	73	80	52	66
26	75	64	69	97	95	96	73	70	72	51	42	45
27	76	71	73	106	97	103	79	73	76	43	42	43
28	71	66	68	105	98	100	82	79	81	48	43	46
29	68	65	67	106	103	105	84	81	83	49	47	48
30	71	67	69	113	106	110	89	82	86	51	48	50
31	---	---	---	115	105	110	90	86	89	---	---	---
MONTH	92	60	73	115	68	93	123	48	77	119	42	87
YEAR	124	40	78									

TEMPERATURE, WATER (DEG. C), WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

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

TEMPERATURE, WATER (DEG. C), WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

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

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
JUNE			JULY			AUGUST			SEPTEMBER			
1	16.0	14.5	15.5	22.5	22.0	22.0	24.0	22.5	23.0	20.0	19.0	19.5
2	16.5	15.0	15.5	23.0	22.0	22.5	25.5	23.5	24.5	20.5	19.0	19.5
3	17.0	16.5	16.5	25.0	23.0	24.0	26.0	24.5	25.0	21.0	20.0	20.5
4	19.0	17.0	18.0	26.0	25.0	25.5	26.0	24.5	25.0	21.0	20.0	20.5
5	20.0	18.5	19.0	26.0	25.0	25.5	25.5	24.5	25.0	21.0	20.5	21.0
6	20.0	19.0	20.0	26.0	24.5	25.0	24.5	21.5	23.5	21.5	20.0	20.5
7	19.0	17.5	18.5	25.5	24.5	25.0	21.0	17.5	19.0	20.5	19.5	20.0
8	18.5	16.5	17.5	25.0	24.0	24.5	17.5	17.0	17.5	20.0	19.0	19.5
9	18.5	16.0	17.5	24.5	23.5	24.0	17.5	17.5	17.5	19.5	17.5	18.5
10	16.0	15.0	15.0	24.0	23.5	23.5	18.5	17.5	18.0	17.5	15.5	16.5
11	16.5	15.0	15.5	24.0	23.0	23.5	20.0	18.0	19.0	16.0	15.5	15.5
12	17.5	16.0	17.0	24.0	22.5	23.5	21.0	20.0	20.5	15.5	15.0	15.0
13	20.0	16.5	18.0	24.5	22.5	23.5	21.0	20.0	20.5	16.0	15.0	16.0
14	20.5	19.5	19.5	23.5	22.0	23.5	20.0	19.0	19.5	17.0	15.5	16.0
15	20.5	19.0	19.5	22.0	19.0	20.0	19.5	18.5	19.0	15.5	14.5	15.0
16	19.5	18.5	19.0	19.5	18.0	18.5	19.0	18.5	19.0	16.5	15.5	16.0
17	19.5	18.0	18.5	22.0	19.5	20.5	18.5	16.5	18.0	16.0	15.0	15.5
18	20.5	19.0	19.5	22.5	21.5	22.0	16.5	15.0	15.5	15.5	14.0	15.0
19	22.5	20.5	21.5	23.0	22.5	22.5	16.5	15.0	16.0	14.0	13.0	14.0
20	22.5	21.5	22.0	23.0	22.0	22.5	17.0	16.0	16.5	13.0	12.5	12.5
21	22.5	20.5	21.5	22.5	21.5	22.0	18.5	16.5	17.5	12.5	11.5	12.0
22	20.5	19.5	20.0	21.0	20.5	20.5	19.5	17.5	18.5	12.0	11.0	11.5
23	19.5	17.5	18.0	21.5	20.0	20.5	19.5	19.0	19.5	11.5	10.5	11.0
24	18.0	16.5	17.0	21.5	20.0	20.5	19.5	18.5	19.0	10.5	10.5	10.5
25	18.0	15.5	16.5	22.5	21.0	22.0	18.0	17.0	17.5	11.0	10.0	10.5
26	16.0	15.5	16.0	23.0	21.5	22.5	18.0	17.0	17.5	11.0	10.0	10.5
27	17.5	15.5	16.0	23.0	21.5	22.0	18.0	17.0	17.5	11.0	10.5	10.5
28	19.0	17.0	18.0	21.5	20.0	20.5	17.5	16.5	17.0	12.0	11.0	11.5
29	21.0	19.0	19.5	22.0	20.0	21.0	18.5	17.0	17.5	11.5	10.5	11.0
30	22.0	20.0	21.0	21.5	20.5	21.0	19.0	18.0	18.5	10.5	9.0	9.5
31	---	---	---	22.5	21.0	21.5	19.5	18.5	19.0	---	---	---
MONTH	22.5	14.5	18.0	26.0	18.0	22.5	26.0	15.0	19.5	21.5	9.0	15.0
YEAR	26.0	.0	9.5									

01017900 MARLEY BROOK NEAR LUDLOW, ME

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

DRAINAGE AREA.--1.47 mi² (3.81 km²).

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

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

REMARKS.--Records good except those for winter period and periods of questionable gage-height record, May 3 to June 9, July 6 to Aug. 17, which are fair. Several observations of water temperature and specific conductance were made during the year.

AVERAGE DISCHARGE.--17 years (water years 1965-81), 2.84 ft³/s (0.080 m³/s), 26.24 in/yr (666 mm/yr).

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

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

Date	Time	Discharge (ft ³ /s) (m ³ /s)	Gage height (ft) (m)	Date	Time	Discharge (ft ³ /s) (m ³ /s)	Gage height (ft) (m)
Nov. 26	0300	25 0.71	4.64 1.414	Apr. 5	2000	34 0.96	4.87 1.484
Dec. 3	1700	31 0.88	4.81 1.466	Sep. 24	2145	* 73 2.07	5.78 1.762
Apr. 3	0015	36 1.02	4.94 1.506				

Minimum discharge, 0.09 ft³/s (0.003 m³/s) Aug. 30 to Sept. 8, gage height, 3.53 ft (1.076 m).

DISCHARGE, IN CURIC FEET PER SECOND, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	2.8	1.9	4.1	.86	.52	5.8	12	4.5	3.8	1.1	.32	.09
2	2.8	1.8	3.5	.85	.60	5.0	20	3.8	2.4	1.1	.31	.09
3	2.5	1.7	15	.84	1.2	4.3	24	3.3	1.9	.97	.30	.09
4	8.1	1.8	12	.83	6.0	3.7	17	2.9	1.6	.89	.36	.09
5	4.5	2.1	6.3	.82	5.5	3.3	25	2.6	1.5	.89	.42	.09
6	2.6	1.7	4.3	.81	4.5	2.9	22	2.4	1.3	.92	4.5	.09
7	2.0	1.6	3.6	.80	3.6	2.6	12	2.7	3.0	2.0	5.0	.09
8	1.8	4.0	3.3	.79	3.2	2.3	11	2.5	2.3	1.4	3.3	1.7
9	1.6	3.4	6.5	.78	2.9	2.0	15	2.2	1.7	1.3	1.8	6.1
10	1.3	3.6	4.5	.77	2.7	1.8	17	1.9	2.1	1.1	1.3	.22
11	1.6	4.0	3.5	.75	3.1	1.6	11	1.7	1.4	.90	.90	.22
12	12	4.5	2.8	.74	7.0	1.5	7.9	1.6	1.7	.68	.70	.22
13	6.8	3.1	2.1	.73	9.0	1.3	5.8	4.5	1.9	.78	.57	.20
14	4.1	2.4	1.8	.71	6.8	1.2	4.9	3.6	1.3	1.2	.50	.26
15	3.3	2.0	1.5	.69	5.2	1.1	7.1	2.1	1.1	1.1	.45	.52
16	2.7	1.7	1.3	.66	4.2	1.1	4.5	1.8	1.8	.82	3.0	.36
17	2.4	1.5	1.3	.64	3.6	1.0	4.1	6.6	2.1	.65	2.0	.31
18	2.3	1.5	1.2	.62	3.5	.93	4.7	4.7	1.2	.55	1.9	.26
19	2.4	1.5	1.1	.61	3.6	.88	5.6	3.1	.89	.48	.97	1.9
20	2.1	1.3	1.1	.59	5.4	.82	4.3	2.4	.82	.47	.57	5.8
21	1.8	1.3	1.1	.57	10	.82	3.8	2.0	6.3	.57	.26	1.6
22	1.7	1.3	1.0	.56	13	.82	3.3	1.8	4.0	.63	.20	1.8
23	1.6	1.2	1.0	.55	11	.97	3.1	1.6	8.5	.47	.22	16
24	1.5	1.4	.98	.52	10	1.2	4.1	1.4	3.5	.40	.31	36
25	1.4	11	.96	.52	9.2	1.4	5.8	1.3	2.8	.36	.31	20
26	8.7	18	.94	.52	7.6	1.4	4.5	1.4	5.3	.35	.22	8.7
27	4.5	7.3	.92	.52	8.5	1.7	4.0	1.5	3.6	.42	.22	6.3
28	3.1	4.5	.91	.52	7.0	1.6	3.5	1.8	2.3	.47	.22	7.3
29	2.6	6.3	.90	.52	---	2.4	4.9	6.6	1.7	.43	.22	5.6
30	2.3	5.8	.88	.52	---	4.9	6.5	3.3	1.5	.42	.19	4.3
31	2.1	---	.87	.52	---	14	---	4.7	---	.36	.09	---
TOTAL	101.0	105.2	91.26	20.73	158.42	76.34	278.4	88.3	75.31	24.18	31.63	126.30
MEAN	3.26	3.51	2.94	.67	5.66	2.46	9.28	2.85	2.51	.78	1.02	4.21
MAX	12	18	15	.86	13	14	25	6.6	8.5	2.0	5.0	36
MIN	1.3	1.2	.87	.52	.52	.82	3.1	1.3	.82	.35	.09	.09
CFSM	2.22	2.39	2.00	.46	3.85	1.67	6.31	1.94	1.71	.53	.69	2.86
IN.	2.55	2.66	2.31	.52	4.01	1.93	7.04	2.23	1.90	.61	.80	3.19
CAL YR 1980	TOTAL	1047.76	MEAN 2.86	MAX 52	MIN .06	CFSM 1.95	IN 26.50					
WTR YR 1981	TOTAL	1177.07	MEAN 3.22	MAX 36	MIN .09	CFSM 2.19	IN 29.77					

01018000 MEDUXNEAG RIVER NEAR HOULTON, ME

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

DRAINAGE AREA.--175 mi² (453 km²).

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

REVISED RECORDS.--WSP 1031: 1944.

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

REMARKS.--Records good except those for winter period, which are fair. No gage-height record Dec. 25 to Feb. 2. Several observations of water temperature and specific conductance were made during the year.

AVERAGE DISCHARGE.--41 years, 297 ft³/s (8.410 m³/s), 23.05 in/yr (585 mm/yr).

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

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

Date	Time	Discharge (ft ³ /s) (m ³ /s)	Gage height (ft) (m)	Date	Time	Discharge (ft ³ /s) (m ³ /s)	Gage height (ft) (m)
Apr. 6	1700	2830 80.1	6.66 2.030	Sep. 25	1900	* 3310 93.7	7.12 2.170

Minimum discharge, 34 ft³/s (0.96 m³/s) Aug. 3, 4, gage height, 2.47 ft (0.753 m).

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	101	205	720	160	82	560	1180	561	357	184	41	48
2	98	191	605	160	94	480	1400	473	301	157	37	46
3	101	171	913	160	160	430	1940	400	241	137	35	44
4	191	164	1530	160	290	390	1980	349	204	126	37	41
5	391	175	1330	155	540	345	2060	315	182	110	37	40
6	362	171	1050	150	650	320	2700	298	160	116	97	38
7	283	160	826	145	600	295	2420	301	200	178	327	37
8	249	224	675	140	500	275	1770	279	280	159	386	36
9	209	316	757	135	420	255	1580	247	258	151	309	40
10	179	311	707	130	370	240	1820	219	276	125	225	45
11	160	367	599	130	350	225	1680	202	234	106	169	48
12	325	410	520	125	425	210	1310	192	200	90	127	50
13	524	420	450	120	650	200	1000	318	192	81	98	48
14	461	391	420	115	940	195	815	455	183	88	78	44
15	362	339	365	110	900	190	788	384	161	107	67	53
16	288	288	330	110	800	185	699	319	159	97	151	56
17	245	253	305	105	640	180	601	342	201	82	285	52
18	221	228	280	100	560	175	565	406	191	70	297	48
19	217	224	260	100	500	170	621	362	158	63	248	61
20	202	240	245	98	530	195	569	301	128	61	186	421
21	183	213	235	96	650	200	491	253	318	65	140	469
22	167	205	220	94	900	190	419	219	419	69	108	367
23	153	202	210	92	1400	201	380	200	536	63	96	615
24	139	205	205	90	1250	203	376	177	480	55	96	1220
25	133	480	195	88	940	197	481	161	367	50	91	2970
26	275	1190	190	86	800	197	482	178	440	46	81	2560
27	377	1230	180	85	720	219	427	202	520	50	72	1460
28	339	940	175	84	630	222	381	225	406	53	67	990
29	293	820	170	83	---	278	389	291	302	50	61	829
30	253	846	165	82	---	486	582	296	230	49	55	651
31	224	---	165	82	---	930	---	307	---	46	51	---
TOTAL	7705	11579	14997	3570	17291	8838	31906	9232	8284	2884	4155	13427
MEAN	249	386	484	115	618	285	1064	298	276	93.0	134	448
MAX	524	1230	1530	160	1400	930	2700	561	536	184	386	2970
MIN	98	160	165	82	82	170	376	161	128	46	35	36
CFSM	1.42	2.21	2.77	.66	3.53	1.63	6.08	1.70	1.58	.53	.77	2.56
IN.	1.64	2.46	3.19	.76	3.68	1.88	6.78	1.96	1.76	.61	.88	2.85
CAL YR 1980	TOTAL	103177	MEAN 282	MAX 2860	MIN 23	CFSM 1.61	IN 21.93					
WTR YR 1981	TOTAL	133868	MEAN 367	MAX 2970	MIN 35	CFSM 2.10	IN 28.46					

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

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

DRAINAGE AREA.--417 mi² (1,080 km²).

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

REVISED RECORDS.--WSP 1431: Drainage area.

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

REMARKS.--Records good except those for period of no gage-height record, Dec. 15 to Mar. 10, which are fair. Flow regulated by Chiputneticook Lakes, combined usable capacity, about 13,200,000,000 ft³ (374,000,000 m³). Final regulation is at Spednik Lake Dam about 400 ft (120 m) upstream. Several observations of water temperature and specific conductance were made during the year.

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

AVERAGE DISCHARGE.--53 years, 720 ft³/s (20.39 m³/s).

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

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 3,540 ft³/s (100 m³/s) Apr. 13, gage height, 8.78 ft (2.676 m); minimum daily, 224 ft³/s (6.34 m³/s) Oct. 15-19.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	444	805	253	1140	1070	886	410	840	1470	1050	986	410
2	444	805	255	1140	1240	725	414	840	1470	1050	986	410
3	444	800	258	1140	1240	577	428	840	1470	1050	981	630
4	444	800	262	1140	1240	577	443	836	1450	1040	981	854
5	444	970	267	1140	1240	581	451	836	1450	1040	976	845
6	444	1070	267	1130	1230	581	469	836	1440	1040	986	845
7	437	1070	267	1130	1230	890	483	836	1440	1160	986	597
8	437	1070	270	1130	1230	890	486	1040	1440	1340	992	407
9	440	1060	270	1130	1000	886	850	1190	1420	1330	987	403
10	440	1060	273	1120	840	800	1260	959	1210	1310	981	403
11	440	1070	275	1120	840	855	1260	643	730	1310	975	403
12	444	1060	462	1120	845	1000	1260	643	845	1300	970	403
13	447	895	690	1120	845	1000	2410	647	1070	1290	867	403
14	447	781	690	1120	849	938	2950	647	1070	970	601	403
15	224	781	685	1110	849	1080	2890	643	1230	721	593	545
16	224	786	685	1110	849	1080	2650	643	1290	717	502	699
17	224	849	685	1110	854	1090	2190	647	1390	717	403	699
18	224	911	860	1110	858	1270	2030	647	1380	712	410	695
19	224	911	1030	1100	863	1430	1910	541	1220	717	410	699
20	227	911	1030	1100	867	1410	1530	466	1040	717	410	712
21	227	906	1030	1100	867	1400	1220	466	1040	732	410	712
22	227	777	1030	1090	872	1390	1410	1020	863	900	410	708
23	227	668	1040	1090	872	1380	1590	1370	762	998	410	712
24	548	668	1040	1090	872	1380	1580	1360	758	992	413	540
25	809	549	1030	1090	872	996	1580	1350	758	998	413	424
26	809	318	1030	1080	877	993	1570	1340	762	992	424	427
27	479	241	1030	1080	881	1120	1370	1330	762	992	434	427
28	236	243	1020	1080	886	923	1200	1340	762	992	444	430
29	236	248	1080	1070	---	884	1200	1420	916	992	430	430
30	234	248	1150	1070	---	829	1000	1480	1050	986	424	430
31	541	---	1150	1070	---	525	---	1480	---	992	410	---
TOTAL	12116	23331	21364	34370	27078	30366	40494	29176	33958	31147	20605	16705
MEAN	391	778	689	1109	967	980	1350	941	1132	1005	665	557
MAX	809	1070	1150	1140	1240	1430	2950	1480	1470	1340	992	854
MIN	224	241	253	1070	840	525	410	466	730	712	403	403
CAL YR 1980	TOTAL	215251	MEAN	588	MAX	1510	MIN	224				
WTR YR 1981	TOTAL	320710	MEAN	879	MAX	2950	MIN	224				

01019000 GRAND LAKE STREAM AT GRAND LAKE STREAM, ME

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

DRAINAGE AREA.--224 mi² (580 km²).

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

REVISED RECORDS.--WSP 971: Drainage area.

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

REMARKS. Records good except those for period of no gage-height record, Oct. 17 to Nov. 18, which are fair. Flow completely regulated by Grand Lake, 0.8 mi (1.3 km) upstream, and other lakes, combined usable capacity about 8,250,000,000 ft³ (234,000,000 m³). Several observations of water temperature and specific conductance were made during the year.

AVERAGE DISCHARGE.--53 years, 396 ft³/s (11.21 m³/s).

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

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 1,140 ft³/s (32.3 m³/s) June 15, gage height, 4.10 ft (1.250 m); minimum daily discharge, 130 ft³/s (3.68 m³/s) Oct. 17-30.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	170	200	213	271	801	477	271	154	729	649	762	178
2	190	200	219	271	796	411	286	255	735	648	757	178
3	277	200	221	271	790	259	288	298	820	712	748	178
4	283	200	222	271	785	258	288	298	896	783	739	177
5	284	200	218	271	775	258	288	285	891	779	797	175
6	284	200	217	271	765	258	293	241	886	779	846	175
7	284	200	219	271	760	260	291	244	887	779	849	175
8	283	200	219	271	750	261	291	242	882	777	841	175
9	283	200	220	271	560	261	291	241	876	780	828	175
10	281	200	220	330	470	399	290	241	880	780	817	175
11	281	200	225	525	470	558	288	240	870	780	805	175
12	286	200	225	520	470	709	288	241	865	743	777	175
13	285	200	239	520	465	707	288	241	860	649	650	175
14	290	200	324	520	465	706	288	240	854	650	510	175
15	254	200	247	517	465	706	291	240	920	915	508	176
16	132	200	228	514	460	702	290	240	1130	909	414	175
17	130	200	228	512	460	708	290	240	1130	900	262	175
18	130	200	228	508	460	813	291	240	1120	891	254	172
19	130	201	228	503	461	933	291	240	1110	886	206	178
20	130	201	228	502	464	924	291	240	1100	650	183	182
21	130	201	228	502	467	917	292	235	1100	619	183	181
22	130	204	228	503	470	905	291	235	918	615	183	181
23	130	202	228	568	472	894	291	235	721	810	182	181
24	130	202	228	609	473	886	293	235	557	805	181	170
25	130	208	228	609	473	877	295	235	430	797	181	151
26	130	212	256	637	474	867	294	475	431	788	181	149
27	130	210	271	838	478	816	295	480	431	788	181	148
28	130	212	271	830	476	762	295	483	427	782	181	149
29	130	216	271	821	---	759	297	619	546	777	180	149
30	130	214	271	813	---	644	208	728	652	775	178	146
31	175	---	271	804	---	360	---	732	---	769	178	---
TOTAL	6142	6083	7339	15444	15675	19255	8624	9593	24654	23764	14542	5124
MEAN	198	203	237	498	560	621	287	309	822	767	469	171
MAX	290	216	324	838	801	933	297	732	1130	915	849	182
MIN	130	200	213	271	460	258	208	154	427	615	178	146
CAL YR 1980	TOTAL	118265	MEAN 323	MAX 1180	MIN 130							
WTR YR 1981	TOTAL	156239	MEAN 428	MAX 1130	MIN 130							

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

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

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

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

REVISED RECORDS.--WSP 1231: 1922.

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

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

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

AVERAGE DISCHARGE.--62 years, 2,344 ft³/s (66.38 m³/s).

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

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 11,200 ft³/s (317 m³/s) Sept. 26, gage height, 7.56 ft (2.304 m); minimum daily, 1,050 ft³/s (29.7 m³/s) May 13.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	2280	3060	4800	2070	2120	4090	3130	2940	2960	2680	2660	1650
2	1880	3030	3930	2080	2130	4010	4880	2930	2980	2880	2670	1610
3	1860	2850	3540	2110	2180	3500	8380	2930	2890	2640	2670	1580
4	2180	2630	4210	2110	2230	3200	9320	2920	2450	2660	2590	1550
5	2980	2620	3260	2090	2310	3100	8720	2910	2790	2380	2640	1540
6	2980	2600	2310	2100	2400	2980	8460	2900	2810	2550	2640	1530
7	2980	2340	3250	2130	2480	2950	8340	2910	2890	2500	2550	1530
8	2980	2600	4150	2180	2540	2920	7500	2910	3020	2520	2770	1510
9	2960	2600	3850	2180	2880	2900	6000	2900	3030	2580	2970	1490
10	2850	2440	3560	2170	3430	2870	5560	2900	3040	2610	2670	2040
11	2710	1990	3290	2180	3330	2850	5550	2290	2950	2610	3160	1910
12	2870	1990	2930	2190	4320	2870	5440	1060	2830	2630	2920	1700
13	2990	1910	2660	2180	5370	2880	5340	1050	2790	2520	2720	1660
14	3020	1710	2620	2180	5380	2870	5280	1220	2890	2550	2060	1620
15	3010	1690	2800	2180	4900	2860	5370	2080	2900	2670	2260	1560
16	2810	1680	2640	2170	4240	2820	5350	2010	2990	2520	3290	1530
17	2900	1690	2420	2170	4080	2680	5310	2670	2950	2620	5170	1510
18	2900	1690	2410	2160	3780	2720	5220	2980	2970	2650	5720	1500
19	2240	1690	2410	2160	3550	2560	4660	2960	2740	2540	5140	1510
20	1930	1880	2420	2150	3600	2500	3510	2940	2580	2470	4610	1680
21	1750	1980	2420	2140	3620	2870	2940	2940	2830	2860	3610	1800
22	1740	1860	2200	2130	3700	2820	2950	2930	2840	2610	2840	1840
23	1720	1900	2030	2140	4200	2930	2910	2910	3110	2620	2890	1860
24	1590	2050	1840	2130	4200	2680	2900	2900	3200	2420	2050	2600
25	1220	2010	2080	2130	4170	2830	2920	2910	3190	2420	2330	8090
26	1800	2870	2090	2130	4150	2680	2940	2900	3130	2550	2500	11000
27	2290	3790	2080	2120	4140	2500	2930	2660	3080	2540	2560	9870
28	2260	3860	1980	2120	4090	2490	2900	2740	3010	2520	1980	8240
29	2460	3950	1770	2120	---	2660	2910	2790	2800	2540	1730	7090
30	2760	4610	2020	2120	---	2780	2930	2740	2490	2590	1710	6230
31	2860	---	2090	2120	---	3020	---	2740	---	2660	1670	---
TOTAL	75760	73570	86060	66340	99520	90390	150550	81570	87130	80110	89750	90830
MEAN	2444	2452	2776	2140	3554	2916	5018	2631	2904	2584	2895	3028
MAX	3020	4610	4800	2190	5380	4090	9320	2980	3200	2880	5720	11000
MIN	1220	1680	1770	2070	2120	2490	2900	1050	2450	2380	1670	1490
CAL YR 1980	TOTAL	780183	MEAN	2132	MAX	4990	MIN	700				
WTR YR 1981	TOTAL	1071580	MEAN	2936	MAX	11000	MIN	1050				

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

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

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

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

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

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

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

AVERAGE DISCHARGE.--22 years (water years 1960-81), 2,732 ft³/s (77.37 m³/s).

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

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 12,300 ft³/s (348 m³/s) Sept. 25, gage height, 10.43 ft (3.179 m); minimum daily, 1,290 ft³/s (36.5 m³/s) Oct. 25.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	2360	3250	5360	2150	2200	4210	3600	3090	2940	2610	2500	1660
2	2050	3300	4470	2180	2220	4130	6040	3060	2970	2650	2430	1600
3	2000	3120	3880	2200	2230	3860	9530	3050	2930	2640	2570	1580
4	2300	2900	4780	2170	2280	3320	10300	3020	2710	2480	2560	1550
5	3170	2800	3590	2150	2390	3120	9470	3000	2750	2340	2450	1540
6	3150	2750	2600	2180	2430	3060	9300	3040	2730	2430	2880	1540
7	3140	2550	3300	2200	2520	3000	8940	3130	2840	2450	2870	1530
8	3130	2750	3400	2230	2700	2910	8170	3000	2940	2480	2840	1530
9	3120	2750	3450	2220	3360	2920	6100	2990	2980	2390	3010	1530
10	3050	2700	3550	2200	3610	2900	5990	3000	3070	2430	2770	2250
11	2900	2350	3520	2220	3770	2860	5860	2280	3060	2540	2880	2000
12	3000	2150	3160	2250	5600	2890	5760	1560	2970	2460	2870	1850
13	3130	2080	2880	2250	6150	2910	5590	1440	2760	2430	2680	1700
14	3240	1920	2780	2240	5990	2920	5450	1420	2810	2490	1920	1660
15	3320	1800	2760	2220	5380	2900	5680	1690	2800	2480	2510	1600
16	2990	1780	2980	2220	4610	2750	5540	2170	2930	2440	4700	1500
17	2860	1790	2700	2210	4360	2760	5560	2900	2910	2430	5700	1500
18	2880	1800	2550	2200	4110	2900	5500	3160	2880	2410	6070	1480
19	2960	1850	2500	2200	3810	2660	5210	3120	2770	2470	5350	1560
20	2230	2000	2480	2200	3850	2390	3900	3090	2490	2340	4680	1920
21	1520	2100	2490	2210	3880	2760	3050	3030	2680	2820	3570	1990
22	1610	1980	2330	2210	3930	2780	3030	3000	2920	2650	2730	1910
23	1840	1870	2180	2200	4190	2860	2970	2990	3090	2570	2780	1990
24	1750	2020	2000	2200	4450	2910	3040	2960	3130	2570	2080	4460
25	1290	2130	2120	2200	4420	2770	3110	2950	3290	2500	2480	8500
26	1980	2610	2150	2190	4280	2800	3020	2940	3220	2470	2560	12100
27	2550	3940	2100	2190	4290	2560	2990	2750	3050	2520	2550	10900
28	2720	4400	2070	2190	4320	2530	2980	2780	2950	2360	2300	9180
29	2660	4470	1900	2200	---	2700	2990	2880	2800	2400	1850	7530
30	2900	5110	2100	2200	---	3020	3090	2870	2450	2460	1750	6420
31	3050	---	2120	2190	---	3460	---	2880	---	2580	1710	---
TOTAL	80850	79020	90250	68270	107330	92520	161760	85240	86820	77290	92600	98060
MEAN	2608	2634	2911	2202	3833	2985	5392	2750	2894	2493	2987	3269
MAX	3320	5110	5360	2250	6150	4210	10300	3160	3290	2820	6070	12100
MIN	1290	1780	1900	2150	2200	2390	2970	1420	2450	2340	1710	1480
CAL YR 1980	TOTAL	814767	MEAN	2226	MAX	5450	MIN	778				
WTR YR 1981	TOTAL	1120010	MEAN	3069	MAX	12100	MIN	1290				

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

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

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

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

PERIOD OF DAILY RECORD.--

SPECIFIC CONDUCTANCE: July 1972 to current year.

pH: July 1972 to current year.

WATER TEMPERATURES: September 1969 to current year.

DISSOLVED OXYGEN: September 1969 to current year.

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

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

EXTREMES FOR PERIOD OF DAILY RECORD.--

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

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

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

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

EXTREMES FOR CURRENT YEAR.--

SPECIFIC CONDUCTANCE: Maximum, 106 micromhos Sept. 15; minimum, 34 micromhos Sept. 27, 28.

pH: Maximum, 7.4 units June 23, July 1; minimum, 6.1 units Sept. 27, 28.

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

DISSOLVED OXYGEN: Maximum, 13.7 mg/L Dec. 28; minimum, 5.7 mg/L July 9.

REVISIONS.--The dissolved organic carbon data published in the 1979 and 1980 reports are invalid due to a sample contamination problem.

CHEMICAL ANALYSFS, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DATE	TIME	STREAM- FLOW, INSTAN- TANEOUS (CFS)	SPE- CIFIC CON- DUCT- ANCE (UMHOS)	SPE- CIFIC CON- DUCT- ANCE LAB (UMHOS)	PH (UNITS)	TEMPER- ATURE, AIR (DEG C)	TEMPER- ATURE (DEG C)	TUR- BID- ITY (NTU)	OXYGEN, DIS- SOLVED (MG/L)	COLI- FORM, FECAL, 0.7 UM-MF (COLS./ 100 ML)	STREP- TOCOCCI FECAL, KF AGAR (COLS. PER 100 ML)	HARD- NESS (MG/L AS CAC03)
OCT												
30...	0830	2880	57	54	6.7	5.5	5.5	.60	11.1	65	29	12
NOV												
20...	1400	E2000	73	63	6.8	--	.5	.80	12.0	42	K13	14
DEC												
09...	1500	E3450	46	41	6.5	-1.0	.0	.30	12.8	39	K16	11
JAN												
13...	1930	E2250	63	62	6.5	-12.0	.0	.70	11.8	K18	K7	13
FEB												
19...	1000	3820	50	50	6.4	6.0	1.0	.40	12.0	K22	K12	13
MAR												
11...	0900	2910	52	50	6.6	4.0	2.0	1.0	12.6	36	K2	13
APR												
16...	0830	5380	40	45	6.3	--	5.0	.50	12.0	K2	K9	10
MAY												
27...	1000	3010	56	56	6.7	28.0	15.0	1.4	8.9	K6	27	11
JUN												
24...	0830	3390	58	53	6.8	23.0	18.0	1.4	7.6	40	86	10
JUL												
23...	0930	2570	64	63	6.8	22.5	21.0	1.4	6.8	25	340	13
AUG												
12...	0930	2880	62	58	6.7	23.0	21.5	1.4	6.9	K16	384	15
SEP												
15...	0830	E1600	100	98	6.8	20.5	19.0	1.8	7.1	24	98	14

E ESTIMATED

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

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

CHEMICAL ANALYSFS. WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DATE	HARD- NESS NONCAR- BONATE (MG/L AS CAC03)	CALCIUM DIS- SOLVED (MG/L AS CA)	MAGNE- SIUM, DIS- SOLVED (MG/L AS MG)	SODIUM, DIS- SOLVED (MG/L AS NA)	POTAS- SIUM, DIS- SOLVED (MG/L AS K)	ALKA- 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 SI02)	SOLIDS, RESIDUE AT 180 DEG. C DIS- SOLVED (MG/L)	SOLIDS, SUM OF CONSTITUENTS, DIS- SOLVED (MG/L)
OCT 30...	.00	3.7	.7	5.2	.5	12	5.7	5.4	.0	2.3	54	31
NOV 20...	4.0	4.3	.7	6.3	.6	10	6.3	7.5	.0	2.5	56	35
DEC 09...	.00	3.2	.7	3.8	.4	16	4.7	4.0	.1	3.2	42	30
JAN 13...	.00	4.0	.7	6.2	.6	15	6.3	6.4	<.1	3.1	51	37
FEB 19...	11	3.7	.8	4.5	.5	10	5.8	5.4	<.1	2.9	44	30
MAR 11...	3.0	3.7	.8	5.2	.5	10	5.7	5.5	<.1	2.7	40	30
APR 16...	.00	2.9	.6	3.5	.5	13	4.8	3.9	<.1	2.4	48	27
MAY 27...	1.0	3.5	.6	5.2	.5	10	6.2	5.6	<.1	1.2	37	29
JUN 24...	5.0	3.5	.4	5.3	.5	5.0	3.7	6.2	--	1.3	33	26
JUL 23...	.00	4.0	.8	7.6	.7	17	5.5	6.4	<.1	1.5	55	37
AUG 12...	2.0	4.5	.8	6.0	.6	13	3.9	5.7	<.1	1.9	46	32
SEP 15...	.00	4.4	.8	13	.8	20	9.1	10	<.1	2.4	64	53

DATE	SOLIDS, DIS- SOLVED (TONS PER AC-FT)	SOLIDS, DIS- SOLVED (TONS PER DAY)	NITRO- GEN, NO2+NO3 TOTAL (MG/L AS N)	NITRO- GEN, NO2+NO3 DIS- SOLVED (MG/L AS N)	NITRO- GEN, AMMONIA TOTAL (MG/L AS N)	NITRO- GEN, AMMONIA DIS- SOLVED (MG/L AS N)	NITRO- GEN,AM- MONIA + ORGANIC TOTAL (MG/L AS N)	NITRO- GEN,AM- MONIA + ORGANIC DIS. (MG/L AS N)	NITRO- GEN, TOTAL (MG/L AS N)	NITRO- GEN DIS- SOLVED (MG/L AS N)	PHOS- PHORUS, TOTAL (MG/L AS P)	PHOS- PHORUS, DIS- SOLVED (MG/L AS P)
OCT 30...	.07	420	.04	.05	.110	.120	.49	.53	.53	.58	.020	.010
NOV 20...	.08	302	.11	.08	.120	.130	--	.55	--	.63	.020	.010
DEC 09...	.06	391	.06	.07	.060	.080	.46	.27	.52	.34	.000	.000
JAN 13...	.07	310	.07	.07	.180	.170	.54	.35	.61	.42	.030	<.010
FEB 19...	.06	454	.11	.09	.110	.090	.29	.30	.40	.39	.020	<.010
MAR 11...	.05	314	.13	.08	.100	.110	.25	.37	.38	.45	.010	<.010
APR 16...	.07	697	.12	.04	.050	.060	.31	.29	.43	.33	.030	<.010
MAY 27...	.05	301	.06	.10	.090	.080	.59	.30	.65	.40	.030	<.010
JUN 24...	.04	302	.05	.05	.050	.120	.45	.34	.50	.39	.020	<.010
JUL 23...	.07	382	.11	.11	.020	.020	.62	.26	.73	.37	.020	<.010
AUG 12...	.06	358	.12	.08	.070	.050	.29	.34	.41	.42	.020	<.010
SEP 15...	.09	276	.12	.11	.070	.060	.36	.38	.48	.49	.030	.010

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

CHEMICAL ANALYSFS, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DATE	ARSENIC TOTAL (UG/L AS AS)	ARSENIC DIS- SOLVED (UG/L AS AS)	BARIUM, TOTAL RECOV- ERABLE (UG/L AS RA)	BARIUM, DIS- SOLVED (UG/L AS RA)	CADMIUM TOTAL RECOV- ERABLE (UG/L AS CD)	CADMIUM DIS- SOLVED (UG/L AS CD)	CHRO- MIUM, TOTAL RECOV- ERABLE (UG/L AS CR)	CHRO- MIUM, DIS- SOLVED (UG/L AS CR)	COBALT, TOTAL RECOV- ERABLE (UG/L AS CO)	COBALT, DIS- SOLVED (UG/L AS CO)
NOV 20...	0	0	100	10	0	3	10	<10	0	0
FEB 19...	1	0	<50	100	1	0	10	<10	1	0
MAY 27...	2	1	100	9	1	2	10	10	1	0
AUG 12...	1	1	<50	8	1	2	10	10	<1	<1

DATE	COPPER, TOTAL RECOV- ERABLE (UG/L AS CU)	COPPER, DIS- SOLVED (UG/L AS CU)	IRON, TOTAL RECOV- ERABLE (UG/L AS FE)	IRON, DIS- SOLVED (UG/L AS FE)	LEAD, TOTAL RECOV- ERABLE (UG/L AS PB)	LEAD, DIS- SOLVED (UG/L AS PB)	MANGA- NESE, TOTAL RECOV- ERABLE (UG/L AS MN)	MANGA- NESE, DIS- SOLVED (UG/L AS MN)	MERCURY TOTAL RECOV- ERABLE (UG/L AS HG)
NOV 20...	2	2	380	140	9	0	50	30	<.1
FEB 19...	4	2	1600	70	8	0	170	40	.1
MAY 27...	3	2	260	100	1	0	30	20	.2
AUG 12...	3	1	410	170	8	1	60	30	<.1

DATE	MERCURY DIS- SOLVED (UG/L AS HG)	NICKEL, TOTAL RECOV- ERABLE (UG/L AS NI)	NICKEL, DIS- SOLVED (UG/L AS NI)	SELE- NIUM, TOTAL (UG/L AS SE)	SELE- NIUM, DIS- SOLVED (UG/L AS SE)	SILVER, TOTAL RECOV- ERABLE (UG/L AS AG)	SILVER, DIS- SOLVED (UG/L AS AG)	ZINC, TOTAL RECOV- ERABLE (UG/L AS ZN)	ZINC, DIS- SOLVED (UG/L AS ZN)
NOV 20...	<.1	3	0	0	0	0	0	30	10
FEB 19...	.1	5	0	0	0	1	0	10	<10
MAY 27...	<.1	4	0	0	0	0	0	20	4
AUG 12...	<.1	2	4	<1	<1	<1	<1	10	4

DATE	CARRON, ORGANIC TOTAL (MG/L AS C)	CARRON, ORGANIC SUS- PENDED TOTAL (MG/L AS C)	PHYTO- PLANK- TON, TOTAL (CELLS PER ML)	SEDI- MENT, SUS- PENDED (MG/L)	SEDI- MENT, DIS- CHARGE, SUS- PENDED (T/DAY)	SED. SUSP. SIEVE DIAM. % FINER THAN .062 MM
OCT 30...	12	--	--	21	163	92
NOV 20...	--	--	7700	6	32	90
DEC 09...	9.6	--	--	3	28	100
JAN 13...	8.5	--	--	8	49	100
FEB 19...	--	.4	--	15	155	27
MAR 11...	5.7	--	490	2	16	--
APR 16...	7.8	--	--	12	174	92
MAY 27...	--	.6	140	5	41	67
JUN 24...	8.7	--	100	4	37	64
JUL 23...	9.6	--	65	3	21	82
AUG 12...	--	--	72	1	7.8	100
SEP 15...	--	--	680	1	4.3	100

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

PHYTOPLANKTON ANALYSES, OCTOBER 1980 TO SEPTEMBER 1981

DATE TIME	NOV 20.80 1400	MAR 11.81 0900	MAY 27.81 1000	JUN 24.81 0830				
TOTAL CELLS/ML	7700	490	140	100				
DIVERSITY: DIVISION	0.0	0.3	1.5	1.8				
..CLASS	0.0	0.3	1.5	1.8				
...ORDER	0.0	0.4	2.0	1.8				
...FAMILY	0.0	0.4	2.0	1.8				
...GENUS	0.0	0.4	2.0	1.8				
ORGANISM	CELLS /ML	PER- CENT	CELLS /ML	PER- CENT	CELLS /ML	PER- CENT	CELLS /ML	PER- CENT
CHLOROPHYTA (GREEN ALGAE)								
..CHLOROPHYCEAE								
...CHLOROCOCCALES								
...OOCYSTACEAE								
....ANKISTRODESMIUS	--	-	--	-	--	-	39#	38
....DICTYOSPHAERIUM	--	-	--	-	--	-	--	-
....GLOEOACTINIUM	--	-	--	-	--	-	--	-
...VOLVOCALES								
...CHLAMYDOMONADACEAE								
....CHLAMYDOMONAS	--	-	--	-	26#	18	--	-
..ZYGNEATALES								
...DESMIDIACEAE								
....CLOSTERIUM	--	-	--	-	13	9	--	-
CHRYSTOPHYTA								
..BACILLARIOPHYCEAE								
...CENTRALES								
...COSCINODISCAEAE								
....CYCLOTELLA	--	-	13	3	26#	18	--	-
....MELOSIRA	--	-	--	-	--	-	--	-
...PENNALES								
...ACHNANTHACEAE								
....ACHNANTHES	--	-	--	-	13	9	--	-
...COCONEIS	--	-	--	-	--	-	--	-
...CYMBELLACEAE								
....CYMBELLA	--	-	--	-	--	-	--	-
...FRAGILARIACEAE								
....FRAGILARIA	--	-	13	3	--	-	--	-
...SYNEDRA	--	-	--	-	--	-	--	-
...NAVICULACEAE								
....NAVICULA	--	-	--	-	--	-	13	13
...NITZSCHACEAE								
....NITZSCHIA	--	-	--	-	--	-	--	-
CRYPTOPHYTA (CRYPTOMONADS)								
..CRYPTOPHYCEAE								
...CRYPTOMONADALES								
...CRYPTOMONADACEAE								
....CRYPTOMONAS	--	-	--	-	--	-	13	13
CYANOPHYTA (BLUE-GREEN ALGAE)								
..CYANOPHYCEAE								
...CHROOCOCCALES								
...CHROOCOCCACEAF								
....ANACYSTIS	--	-	--	-	65#	45	39#	38
...HORMOGONALES								
...OSCILLATORIACEAE								
....OSCILLATORIA	7700#100		460#	95	--	-	--	-

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

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

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

PHYTOPLANKTON ANALYSES, OCTOBER 1980 TO SEPTEMBER 1981

DATE TIME	JUL 23,81 0930	AUG 12,81 0930	SEP 15,81 0830
TOTAL CELLS/ML	65	72	680
DIVERSITY: DIVISION	1.4	1.0	0.6
..CLASS	1.4	1.0	0.6
...ORDER	1.9	1.0	0.6
...FAMILY	1.9	1.4	0.8
....GENUS	1.9	1.9	0.8

ORGANISM	CELLS /ML	PER- CENT	CELLS /ML	PER- CENT	CELLS /ML	PER- CENT
CHLOROPHYTA (GREEN ALGAE)						
..CHLOROPHYCEAE						
...CHLOROCOCCALES						
....OOCYSTACEAE						
.....ANKISTRODESMUS	--	-	14# 20	--	--	-
.....DICTYOSPHAERIUM	13# 20	--	--	--	--	--
.....GLOEOACTINIUM	--	-	29# 40	--	--	-
...VOLVOCALES						
...CHLAMYDOMONADACEAE						
....CHLAMYDOMONAS	--	-	--	-	--	-
..ZYGNEATALES						
...DESMIDIACEAE						
....CLOSTERIUM	--	-	--	-	--	-
CHRYSOPHYTA						
..BACILLARIOPHYCEAE						
...CENTRALES						
....COSCINODISCACEAE						
.....CYCLOTELLA	--	-	--	-	--	-
.....MELOSIRA	26# 40	--	--	--	--	--
...PENNALES						
...ACHNANTHACEAE						
....ACHNANTHES	--	-	--	-	--	-
....COCCONEIS	--	-	14# 20	--	--	-
...CYMBELLACEAE						
....CYMBELLA	--	-	--	-	29	4
...FRAGILARIACEAE						
....FRAGILARIA	--	-	--	-	--	-
....SYNEDRA	--	-	14# 20	--	--	-
...NAVICULACEAE						
....NAVICULA	13# 20	--	--	--	43	6
...NITZSCHACEAE						
....NITZSCHIA	--	-	--	-	29	4
CRYPTOPHYTA (CRYPTOMONADS)						
..CRYPTOPHYCEAE						
...CRYPTOMONADALES						
....CRYPTOMONADACEAE						
.....CRYPTOMONAS	--	-	--	-	--	-
CYANOPHYTA (BLUE-GREEN ALGAE)						
..CYANOPHYCEAE						
...CHROOCOCCALES						
....CHROOCOCCACEAE						
.....ANACYSTIS	13# 20	--	--	--	--	--
...HORMOGONALES						
....OSCILLATORIACEAE						
.....OSCILLATORIA	--	-	--	-	580#	85

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

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

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

SPECIFIC CONDUCTANCE (MICROMHOS/CM AT 25 DEG. C), WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

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

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
FEBRUARY			MARCH			APRIL			MAY			
1	72	70	71	54	51	52	60	58	59	62	59	60
2	71	65	69	54	53	53	58	48	55	63	60	61
3	79	68	73	55	52	53	47	41	44	63	60	61
4	68	60	64	57	54	55	41	38	39	61	60	61
5	64	62	63	59	57	58	38	37	38	62	60	61
6	65	63	64	58	57	57	---	---	---	63	62	62
7	66	63	64	65	58	59	---	---	---	66	62	64
8	67	64	66	63	57	58	---	---	---	66	63	64
9	70	61	67	60	58	59	---	---	---	66	53	57
10	63	59	61	61	59	60	---	---	---	64	57	61
11	63	57	61	61	59	60	---	---	---	72	64	66
12	61	53	58	60	58	59	---	---	---	71	63	66
13	52	49	50	63	60	62	---	---	---	61	52	55
14	50	48	49	63	60	62	---	---	---	56	54	55
15	50	47	48	63	61	62	---	---	---	55	51	53
16	52	51	51	62	61	61	---	---	---	52	47	49
17	54	51	52	64	60	62	46	45	46	51	47	48
18	56	54	55	67	63	65	46	45	46	61	46	49
19	57	56	57	65	64	64	46	45	46	66	63	65
20	58	57	57	65	64	64	52	46	48	66	63	65
21	58	57	57	65	59	63	56	53	55	64	62	63
22	57	57	57	60	59	59	57	54	55	63	62	62
23	58	54	57	62	60	61	57	55	56	65	62	64
24	56	54	55	74	61	64	57	56	57	62	60	62
25	55	54	55	75	57	63	60	58	59	62	60	61
26	54	49	51	61	59	60	59	57	58	62	60	61
27	52	50	52	---	---	---	59	58	59	63	61	62
28	53	51	52	---	---	---	60	58	59	66	63	64
29	---	---	---	---	---	---	62	60	61	64	63	63
30	---	---	---	---	---	---	63	61	62	65	63	64
31	---	---	---	---	---	---	---	---	---	68	64	65
MONTH	79	47	58	75	51	60	63	37	53	72	46	60

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

SPECIFIC CONDUCTANCE (MICROMHOS/CM AT 25 DEG. C), WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
	JUNE			JULY			AUGUST			SEPTEMBER		
1	71	67	69	73	70	71	69	65	67	80	77	78
2	69	64	66	69	67	68	69	67	68	83	78	81
3	65	63	64	68	66	67	70	66	68	85	78	82
4	67	63	64	70	66	68	68	66	67	79	76	77
5	68	64	67	73	68	71	72	67	70	75	62	67
6	71	63	66	74	71	72	72	68	70	85	70	78
7	70	69	70	75	73	74	72	68	70	94	82	87
8	70	66	68	75	72	73	67	62	65	81	52	67
9	68	66	67	78	74	76	63	61	62	51	47	49
10	72	67	70	76	70	75	64	61	63	53	45	50
11	68	66	67	69	67	68	69	64	66	45	41	43
12	74	69	72	70	66	68	64	62	63	48	41	44
13	77	73	75	73	70	71	65	63	64	49	46	47
14	79	70	74	75	71	73	72	63	68	78	50	65
15	79	73	75	74	70	71	80	71	75	106	79	97
16	77	74	76	71	66	68	69	58	67	100	97	98
17	74	70	72	69	66	68	56	47	50	98	94	97
18	73	70	71	70	67	69	47	45	46	97	93	95
19	70	68	69	71	68	69	48	45	46	97	93	95
20	75	68	72	71	67	69	50	47	49	101	89	95
21	75	73	74	73	64	68	---	---	---	93	83	88
22	73	71	72	69	66	68	---	---	---	83	75	78
23	73	69	71	68	63	65	---	---	---	85	78	81
24	69	60	64	64	62	63	62	56	59	82	53	71
25	66	62	64	65	63	64	77	62	70	53	41	48
26	70	60	63	65	63	64	69	66	67	40	35	37
27	64	62	63	65	63	64	67	65	65	36	34	35
28	64	61	63	67	63	65	71	67	70	37	34	36
29	67	62	65	67	62	64	76	69	72	40	37	38
30	73	67	69	67	61	63	79	77	78	42	39	40
31	---	---	---	69	62	64	79	76	78	---	---	---
MONTH	79	60	69	78	61	68	80	45	65	106	34	68
YEAR	106	34	63									

PH (STANDARD UNITS), WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

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

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

PH (STANDARD UNITS), WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

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

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

TEMPERATURE, WATER (DEG. C), WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

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

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

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

TEMPERATURE, WATER (DEG. C), WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

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

OXYGEN, DISSOLVED (DO), MG/L, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
	OCTOBER			NOVEMBER			DECEMBER			JANUARY		
1	8.5	8.4	8.4	11.0	10.7	10.9	13.0	12.8	12.9	12.4	12.1	12.2
2	8.5	8.0	8.3	11.3	11.0	11.2	13.0	12.6	12.9	12.2	11.9	12.0
3	8.2	8.1	8.1	11.5	11.3	11.4	12.6	12.5	12.5	11.9	11.6	11.7
4	8.4	8.3	8.3	11.6	11.4	11.5	12.9	12.5	12.7	11.6	11.3	11.4
5	8.7	8.4	8.6	11.4	11.1	11.2	13.0	12.8	12.9	12.1	11.5	11.8
6	8.9	8.7	8.8	11.4	11.3	11.3	13.1	12.9	12.9	11.9	11.8	11.9
7	9.0	8.9	9.0	11.3	11.1	11.3	12.9	12.7	12.8	11.9	11.6	11.7
8	9.0	9.0	9.0	11.2	11.0	11.1	13.0	12.8	12.9	11.7	11.6	11.6
9	9.3	9.1	9.2	11.4	11.2	11.3	12.8	12.7	12.8	11.9	11.7	11.8
10	9.5	9.4	9.5	11.3	11.2	11.3	12.7	12.6	12.7	11.9	11.8	11.9
11	9.7	9.6	9.6	11.5	11.2	11.3	12.9	12.7	12.8	11.9	11.7	11.8
12	---	---	---	11.5	11.4	11.4	12.9	12.5	12.7	11.9	11.8	11.8
13	---	---	---	11.8	11.6	11.7	12.6	12.3	12.5	11.9	11.6	11.8
14	---	---	---	11.8	11.6	11.7	12.4	12.3	12.4	11.7	11.5	11.6
15	9.8	9.6	9.7	11.8	11.6	11.7	12.5	12.4	12.5	11.7	11.6	11.6
16	9.6	9.3	9.5	12.1	11.7	11.9	12.5	12.2	12.4	11.6	11.4	11.5
17	9.3	9.1	9.3	12.2	12.0	12.1	12.3	12.0	12.1	11.6	11.4	11.5
18	9.2	8.9	9.1	12.1	11.9	12.0	12.5	12.1	12.3	12.2	11.4	11.5
19	8.9	8.7	8.8	12.1	12.0	12.1	12.4	12.2	12.3	12.0	11.6	11.7
20	8.7	8.3	8.5	12.1	11.9	12.0	12.4	12.0	12.2	11.7	11.5	11.6
21	8.9	8.3	8.6	12.2	12.0	12.1	12.1	12.0	12.0	11.6	10.8	11.5
22	9.2	8.8	8.9	12.2	12.1	12.1	12.0	11.8	11.9	11.6	11.5	11.5
23	9.9	9.2	9.5	12.2	12.0	12.1	11.8	11.7	11.7	11.7	11.5	11.6
24	10.2	9.7	9.9	12.2	12.1	12.1	11.7	11.5	11.6	12.1	11.6	11.8
25	10.4	10.2	10.2	12.1	11.9	12.0	11.8	11.5	11.7	12.0	11.7	11.9
26	10.4	9.9	10.2	12.3	11.8	12.1	11.8	11.6	11.6	12.0	11.8	11.9
27	10.8	10.3	10.6	12.8	12.4	12.6	11.6	11.5	11.6	12.0	11.8	11.9
28	10.7	10.7	10.7	12.9	12.8	12.8	13.7	11.5	12.2	12.0	11.8	11.9
29	11.0	10.6	10.8	12.8	12.4	12.6	13.6	12.8	13.2	12.0	11.9	11.9
30	11.3	10.8	11.1	12.9	12.4	12.5	12.8	12.6	12.7	12.0	11.8	11.9
31	10.9	10.7	10.8	---	---	---	12.7	12.3	12.5	12.0	11.8	11.9
MONTH	11.3	8.0	9.4	12.9	10.7	11.8	13.7	11.5	12.4	12.4	10.8	11.8

OXYGEN, DISSOLVED (DO), MG/L, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
FEBRUARY				MARCH			APRIL			MAY		
1	---	---	---	11.6	11.3	11.4	---	---	---	10.3	10.0	10.1
2	---	---	---	11.6	11.4	11.5	---	---	---	10.2	9.8	10.0
3	---	---	---	11.5	11.3	11.4	---	---	---	10.2	9.7	9.9
4	---	---	---	11.6	11.4	11.5	---	---	---	10.2	9.7	10.0
5	---	---	---	13.1	11.5	11.7	---	---	---	10.1	9.6	9.8
6	---	---	---	12.8	12.5	12.6	---	---	---	9.6	9.3	9.4
7	---	---	---	12.6	12.5	12.6	---	---	---	9.8	9.1	9.5
8	---	---	---	12.8	12.6	12.7	---	---	---	9.7	9.1	9.4
9	12.6	12.1	12.3	12.8	12.7	12.7	---	---	---	9.7	9.1	9.4
10	12.5	11.3	12.0	12.7	12.6	12.7	---	---	---	9.5	9.0	9.2
11	11.9	11.0	11.6	12.7	11.4	12.1	---	---	---	9.2	8.7	8.9
12	11.8	11.7	11.7	12.4	12.3	12.4	---	---	---	9.3	8.3	8.6
13	11.7	11.4	11.5	12.4	12.1	12.2	---	---	---	9.5	8.3	8.6
14	---	---	---	---	---	---	---	---	---	9.5	8.1	8.6
15	---	---	---	---	---	---	---	---	---	9.5	8.3	8.8
16	---	---	---	---	---	---	---	---	---	9.3	8.1	8.5
17	---	---	---	---	---	---	12.0	11.8	11.9	9.0	8.0	8.4
18	---	---	---	---	---	---	11.8	11.7	11.8	9.2	8.6	9.0
19	---	---	---	---	---	---	11.8	11.5	11.7	9.2	8.8	9.0
20	12.2	11.5	11.9	---	---	---	11.5	11.1	11.4	9.1	8.7	8.9
21	12.9	12.0	12.3	---	---	---	11.4	11.1	11.2	9.7	8.6	8.9
22	12.0	11.7	11.9	---	---	---	11.7	11.3	11.5	9.7	8.6	8.9
23	11.7	11.4	11.6	12.3	11.9	12.2	11.4	11.0	11.3	9.4	8.5	8.9
24	12.0	11.3	11.5	12.4	12.1	12.3	11.0	10.9	10.9	9.2	8.9	9.1
25	12.0	11.8	12.0	12.4	11.9	12.0	11.0	10.7	10.9	9.7	8.7	8.9
26	11.9	11.7	11.8	12.5	12.0	12.3	11.0	10.8	10.9	9.5	8.4	8.7
27	11.7	11.7	11.7	---	---	---	10.8	10.6	10.7	8.5	8.0	8.3
28	11.7	11.5	11.6	---	---	---	10.7	10.4	10.6	9.0	7.7	8.1
29	---	---	---	---	---	---	10.5	10.2	10.4	8.0	7.6	7.8
30	---	---	---	---	---	---	10.4	10.0	10.2	7.7	7.3	7.5
31	---	---	---	---	---	---	---	---	---	7.5	7.1	7.2
MONTH	12.9	11.0	11.8	13.1	11.3	12.1	12.0	10.0	11.1	10.3	7.1	8.9
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
JUNE				JULY			AUGUST			SEPTEMBER		
1	7.7	7.0	7.4	7.5	7.0	7.2	8.1	7.2	7.6	8.0	7.2	7.6
2	7.8	7.2	7.5	7.4	6.8	7.1	8.0	7.1	7.5	8.0	7.0	7.6
3	7.9	7.3	7.6	7.1	6.6	6.8	7.9	7.0	7.4	8.0	7.1	7.5
4	7.6	7.2	7.4	6.8	6.3	6.5	7.7	6.9	7.3	8.0	7.2	7.6
5	7.6	7.0	7.3	6.5	6.0	6.2	7.6	6.8	7.2	8.2	7.4	7.7
6	7.2	7.0	7.1	6.4	5.9	6.2	7.4	6.6	7.0	8.1	7.3	7.6
7	7.2	6.6	6.9	6.9	5.9	6.4	7.2	6.5	6.8	7.9	7.2	7.5
8	7.4	6.8	7.1	6.9	6.0	6.5	7.5	6.7	7.1	8.3	7.2	7.6
9	7.1	6.7	6.8	6.8	5.7	6.3	7.6	6.8	7.2	8.2	7.6	7.9
10	7.3	6.8	7.1	7.0	6.0	6.5	7.3	6.7	7.1	8.8	7.6	8.1
11	7.3	6.9	7.1	7.1	6.1	6.6	7.7	6.8	7.2	8.4	7.7	8.0
12	7.2	6.8	7.0	7.1	6.1	6.6	7.7	6.9	7.3	8.5	7.8	8.1
13	7.0	6.7	6.8	7.0	6.2	6.6	7.6	7.0	7.3	8.5	7.8	8.3
14	7.0	6.4	6.7	6.8	6.1	6.5	8.2	7.1	7.5	8.5	7.5	7.9
15	7.2	6.4	6.7	7.4	6.6	7.0	8.0	7.2	7.6	8.1	7.1	7.6
16	7.2	7.0	7.1	7.6	6.8	7.2	7.8	7.3	7.5	7.8	7.1	7.4
17	7.3	7.0	7.1	7.6	6.8	7.2	8.1	7.7	7.8	8.2	7.4	7.7
18	7.4	6.9	7.2	7.6	6.8	7.2	---	---	---	8.3	7.6	7.9
19	7.5	7.0	7.2	7.3	6.6	6.9	---	---	---	8.2	7.5	7.8
20	7.2	6.9	7.1	7.5	6.8	7.1	---	---	---	8.4	7.7	8.0
21	7.1	6.8	7.0	7.2	6.8	7.0	---	---	---	8.6	7.9	8.2
22	7.1	6.7	6.9	7.4	6.6	7.0	---	---	---	8.6	7.8	8.3
23	7.5	6.8	7.2	7.7	6.7	7.2	---	---	---	8.8	8.4	8.5
24	7.8	7.2	7.5	7.8	6.8	7.3	8.1	7.7	7.9	9.4	8.7	9.0
25	7.6	7.3	7.4	7.9	6.8	7.3	8.2	7.4	7.8	10.2	9.3	9.6
26	7.6	7.0	7.4	7.9	6.9	7.4	8.2	7.5	7.8	10.5	10.2	10.4
27	7.8	7.2	7.5	7.6	6.8	7.2	7.8	7.3	7.6	10.4	10.2	10.3
28	7.8	7.2	7.5	8.0	7.0	7.5	8.0	7.3	7.6	10.3	10.0	10.2
29	7.8	7.2	7.5	7.6	7.0	7.4	7.9	7.3	7.6	10.2	10.0	10.1
30	7.7	7.2	7.4	7.9	7.1	7.5	8.0	7.2	7.6	10.5	10.2	10.4
31	---	---	---	8.1	7.2	7.6	7.9	7.3	7.6	---	---	---
MONTH	7.9	6.4	7.2	8.1	5.7	6.9	8.2	6.5	7.4	10.5	7.0	8.4
YEAR	13.7	5.7	9.7									

01021200 DENNY'S RIVER AT DENNYVILLE, ME

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

DRAINAGE AREA.--92.4 mi² (239.3 km²).

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

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

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

AVERAGE DISCHARGE.--26 years, 195 ft³/s (5.522 m³/s), 28.66 in/yr (728 mm/yr).

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

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

Date	Time	Discharge (ft ³ /s) (m ³ /s)	Gage height (ft) (m)	Date	Time	Discharge (ft ³ /s) (m ³ /s)	Gage height (ft) (m)
Nov. 26	0800	929 26.3	4.25 1.295	Apr. 2	2300	1470 41.6	5.47 1.667
Nov. 29	1700	1050 29.7	4.55 1.387	Aug. 16	1500	900 25.5	4.18 1.274
Feb. 12	1800	900 25.5	4.18 1.274	Sep. 24	2100	* 1580 44.7	5.69 1.734

Minimum discharge, 48 ft³/s (1.36 m³/s) Sept. 1, 2, gage height, 0.85 ft (0.259 m).

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	67	115	513	120	92	471	584	253	362	93	136	48
2	62	106	322	120	108	438	862	204	255	86	116	58
3	60	97	359	115	339	293	1250	169	191	82	102	78
4	215	91	514	115	377	213	847	150	164	79	95	70
5	319	97	324	115	343	191	586	140	151	81	92	65
6	221	100	311	115	289	182	621	137	140	94	166	61
7	175	95	255	120	245	178	610	202	144	112	296	59
8	155	111	218	160	211	175	493	211	147	106	251	58
9	132	135	245	155	188	169	415	174	150	96	189	79
10	108	160	230	150	173	165	441	149	257	95	149	104
11	87	246	215	145	172	165	536	136	212	90	127	89
12	217	242	205	140	709	163	573	142	174	86	116	79
13	267	194	190	140	801	160	544	245	154	85	109	72
14	197	158	180	135	632	158	358	320	137	96	103	71
15	144	141	170	130	453	153	321	242	128	108	98	73
16	114	126	165	125	324	145	283	233	129	102	702	73
17	97	114	160	120	265	108	256	292	142	91	688	69
18	90	106	150	115	265	132	260	323	141	86	456	58
19	115	110	145	110	281	171	274	277	128	84	270	71
20	124	106	140	110	336	153	249	237	122	82	175	225
21	110	104	140	110	459	145	241	216	134	185	137	212
22	96	169	135	105	513	140	227	200	145	486	116	156
23	85	247	135	110	477	142	209	193	229	323	90	145
24	78	211	130	115	416	145	179	229	204	201	75	875
25	83	365	130	112	442	153	246	219	158	146	68	1270
26	378	887	130	106	484	155	224	203	240	120	61	802
27	396	659	125	103	522	172	189	200	239	145	56	429
28	258	389	125	102	504	180	165	185	178	172	54	252
29	183	799	120	98	---	205	167	176	129	172	53	188
30	146	818	125	95	---	358	267	339	104	185	51	154
31	126	---	130	93	---	638	---	338	---	167	49	---
TOTAL	4905	7298	6436	3704	10420	6416	12477	6734	5188	4136	5246	6043
MEAN	158	243	208	119	372	207	416	217	173	133	169	201
MAX	396	887	514	160	801	638	1250	339	362	486	702	1270
MIN	60	91	120	93	92	108	165	136	104	79	49	48
CFSM	1.71	2.63	2.25	1.29	4.03	2.24	4.50	2.35	1.87	1.44	1.83	2.18
IN.	1.97	2.94	2.59	1.49	4.20	2.58	5.02	2.71	2.09	1.67	2.11	2.43

CAL YR 1980	TOTAL	62099	MEAN	170	MAX	1300	MIN	44	CFSM	1.84	IN	25.00
WTR YR 1981	TOTAL	79003	MEAN	216	MAX	1270	MIN	48	CFSM	2.34	IN	31.81

01022260 PLEASANT RIVER NEAR EPPING, ME

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

DRAINAGE AREA.--60.6 mi² (157 km²).

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

GAGE.--Water-stage recorder. Datum of gage is 127.02 ft (38.7 m) National Geodetic Vertical Datum of 1929.

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

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 840 ft³/s (23.8 m³/s) Feb. 6, 1981, gage height, 9.42 ft (2.871 m); minimum, 17 ft³/s (0.48 m³/s) Sept. 10, 1980, gage height 4.99 ft (1.521 m).

EXTREMES FOR PERIOD JULY 20 TO SEPT. 30, 1980.--Maximum discharge, 99 ft³/s (2.80 m³/s) Sept. 27, 1980, gage height, 6.05 ft (1.844 m); minimum, 17 ft³/s (0.48 m³/s) Sept. 10, 1980, gage height 4.99 ft (1.521 m).

EXTREMES FOR CURRENT YEAR.--Peak discharges above base of 440 ft³/s (12.5 m³/s) and maximums (*):

Date	Time	Discharge (ft ³ /s) (m ³ /s)	Gage height (ft) (m)	Date	Time	Discharge (ft ³ /s) (m ³ /s)	Gage height (ft) (m)
Dec. 1	1400	530 15.0	8.29 2.527	Feb. 15	--	595 16.9	ice jam
Dec. 24	1000	ice jam	* 9.44 2.887	Apr. 4	2215	452 12.8	7.96 2.426
Feb. 6	1130	* 840 23.8	9.42 2.871				

Minimum discharge 34 ft³/s (0.963 m³/s) Oct. 3, gage height 5.33 ft (1.625 m).

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	40	115	520	82	52	185	224	214	154	65	154	54
2	36	99	452	82	61	174	257	205	148	59	120	44
3	34	89	413	82	170	165	320	174	120	54	96	43
4	84	82	382	81	430	148	408	148	102	50	81	44
5	171	80	335	81	650	138	439	136	95	48	74	45
6	169	80	350	80	790	131	396	128	92	67	89	44
7	128	75	333	80	620	126	359	126	86	78	122	42
8	106	80	283	84	430	124	341	118	84	68	140	41
9	87	95	267	88	310	118	322	106	81	63	144	44
10	75	98	253	90	280	114	295	98	116	62	124	57
11	70	115	215	88	260	109	261	94	135	57	103	61
12	135	127	190	85	325	105	233	91	132	50	91	58
13	169	121	180	84	430	103	203	117	118	48	82	52
14	153	105	160	81	530	101	179	157	104	68	77	48
15	120	97	150	78	570	93	190	148	85	83	72	45
16	96	89	140	76	466	104	202	126	80	70	154	45
17	83	80	130	74	384	83	190	140	79	59	220	43
18	78	79	125	72	330	64	173	180	75	50	253	42
19	85	73	120	70	290	87	177	185	66	46	263	47
20	94	81	115	68	290	112	174	157	59	45	237	120
21	103	87	115	66	310	112	160	131	60	92	192	244
22	101	98	110	66	333	105	148	114	72	202	151	299
23	80	140	105	64	337	110	133	104	118	244	105	312
24	68	147	100	62	320	110	131	102	126	293	86	299
25	61	171	98	60	277	116	160	94	101	287	102	305
26	129	242	96	60	226	118	168	86	126	219	106	366
27	202	271	94	58	202	126	153	83	140	163	90	418
28	222	285	91	58	195	144	137	79	112	173	81	375
29	197	307	88	56	---	148	133	75	87	184	75	309
30	157	361	86	54	---	165	182	96	73	185	65	257
31	139	---	84	52	---	202	---	122	---	177	57	---
TOTAL	3472	3969	6180	2262	9868	3840	6848	3934	3026	3409	3806	4203
MEAN	112	132	199	73.0	352	124	228	127	101	110	123	140
MAX	222	361	520	90	790	202	439	214	154	293	263	418
MIN	34	73	84	52	52	64	131	75	59	45	57	41
CFSM	1.85	2.18	3.28	1.21	5.81	2.05	3.76	2.10	1.67	1.82	2.03	2.31
IN.	2.13	2.44	3.79	1.39	6.06	2.36	4.20	2.41	1.86	2.09	2.34	2.58
WTR YR 1981	TOTAL	54817	MEAN	150	MAX	790	MIN	34	CFSM	2.48	IN	33.65

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

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

DRAINAGE AREA.--232 mi² (601 km²).

WATER-DISCHARGE RECORDS

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

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

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

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

AVERAGE DISCHARGE.--33 years, 500 ft³/s (14.16 m³/s), 29.27 in/yr (743 mm/yr).

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

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

Date	Time	Discharge (ft ³ /s) (m ³ /s)	Gage height (ft) (m)	Date	Time	Discharge (ft ³ /s) (m ³ /s)	Gage height (ft) (m)
Nov. 29	2000	* 2710 76.7	12.31 3.752	Sep. 25	1200	2190 62	11.77 3.587

Minimum discharge, 124 ft³/s (3.51 m³/s) July 20, Sept. 19, gage height, 7.78 ft (2.371 m).

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	224	411	1910	306	200	665	857	735	518	189	385	205
2	190	365	1440	289	245	617	1180	625	453	172	315	194
3	171	326	1340	280	1360	565	1860	526	379	159	263	184
4	316	299	1540	270	1300	501	1680	455	325	148	228	175
5	457	306	1340	260	1140	462	1340	410	298	157	228	166
6	420	303	1070	250	990	434	1200	389	273	216	565	154
7	384	286	867	245	828	419	1260	388	257	272	612	146
8	331	316	837	240	685	404	1140	358	241	252	624	140
9	281	363	836	235	589	384	948	331	240	213	486	159
10	239	387	762	230	512	369	836	307	384	190	385	199
11	232	448	610	225	491	356	712	288	401	175	325	208
12	485	468	506	220	1560	343	658	279	405	161	285	208
13	578	432	495	215	1640	331	576	391	369	167	252	194
14	540	403	469	210	1430	332	528	487	313	179	228	177
15	447	387	430	210	1240	320	733	441	271	180	207	163
16	364	354	436	205	984	318	654	399	252	169	784	152
17	305	318	379	205	824	251	581	626	278	151	1210	142
18	276	303	384	205	815	227	573	792	261	141	1570	131
19	311	315	355	200	849	328	606	698	229	132	1550	238
20	350	290	350	200	923	338	546	560	206	127	1030	1550
21	359	271	340	200	1100	322	519	458	203	523	661	1360
22	329	380	330	200	1190	299	463	393	251	1210	497	1090
23	290	539	325	205	1090	305	419	350	422	1140	405	851
24	259	504	320	210	942	335	451	319	422	806	392	1580
25	243	872	310	215	808	365	566	287	374	509	646	2160
26	944	1570	305	210	743	362	525	265	400	356	409	2000
27	1120	1450	300	210	741	406	473	251	368	404	333	1540
28	982	1180	303	210	714	498	425	246	306	501	296	1070
29	754	2260	290	205	---	486	464	243	254	457	265	806
30	575	2380	322	200	---	552	758	290	214	486	239	643
31	471	---	329	200	---	774	---	389	---	457	220	---
TOTAL	13227	18486	19830	6965	25933	12668	23531	12976	9567	10399	15895	17985
MEAN	427	616	640	225	926	409	784	419	319	335	513	600
MAX	1120	2380	1910	306	1640	774	1860	792	518	1210	1570	2160
MIN	171	271	290	200	200	227	419	243	203	127	207	131
CFSM	1.84	2.66	2.76	.97	3.99	1.76	3.38	1.81	1.38	1.44	2.21	2.59
IN.	2.12	2.96	3.18	1.12	4.16	2.03	3.77	2.08	1.53	1.67	2.55	2.88

CAL YR 1980	TOTAL	149757	MEAN 409	MAX 2380	MIN 44	CFSM 1.76	IN 24.01
WTR YR 1981	TOTAL	187462	MEAN 514	MAX 2380	MIN 127	CFSM 2.22	IN 30.06

01022500 NARRAGUAGUS RIVER AT CHERRYFIELD, ME--Continued

WATER-QUALITY RECORDS

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

PERIOD OF DAILY RECORD.--

SPECIFIC CONDUCTANCE: January 1978 to September 1981.

WATER TEMPERATURES: January 1978 to September 1981.

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

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

EXTREMES FOR PERIOD OF DAILY RECORD.--

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

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

EXTREMES FOR CURRENT YEAR.--

SPECIFIC CONDUCTANCE: Maximum, 42 micromhos Oct. 1,10,11; minimum, 17 micromhos Feb. 18,19.

WATER TEMPERATURES: Maximum, 25.0°C July 3,4; minimum, 0.0°C on many days during winter period.

REVISIONS.--The dissolved organic carbon data published in the 1979 and 1980 reports are invalid due to a sample contamination problem

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DATE	TIME	DIS- CHARGE, IN CUBIC FEET PER SECOND	STREAM- FLOW, INSTAN- TANEOUS (CFS)	SPE- CIFIC CON- DUCT- ANCE (UMHOS)	SPE- CIFIC CON- DUCT- ANCE LAB (UMHOS)	PH (UNITS)	TEMPER- ATURE, AIR (DEG C)	TEMPER- ATURE (DEG C)	TUR- BID- ITY (NTU)	OXYGEN, DIS- SOLVED (MG/L)
NOV 21...	1030	--	245	39	30	6.0	2.0	.0	.50	12.2
JAN 15...	1000	210	--	35	30	6.0	-8.0	.0	.80	13.2
MAR 12...	0945	--	344	28	26	6.1	2.0	3.0	.90	13.3
MAY 26...	1800	--	258	29	31	6.5	28.0	17.5	1.3	9.2
JUL 24...	1145	--	826	28	29	5.8	30.0	20.0	3.0	8.2
SEP 14...	1645	--	173	32	32	6.8	22.5	18.5	1.4	9.0

DATE	COLI- FORM, FECAL, 0.7 UM-MF (COLS./ 100 ML)	STREP- TOCOCCHI FECAL, KF AGAR (COLS. PER 100 ML)	HARD- NESS (MG/L AS CAC03)	HARD- NESS NONCAR- BONATE (MG/L AS CAC03)	CALCIUM DIS- SOLVED (MG/L AS CA)	MAGNE- SIUM, DIS- SOLVED (MG/L AS MG)	SODIUM, DIS- SOLVED (MG/L AS NA)	POTAS- SIUM, DIS- SOLVED (MG/L AS K)	ALKA- LITY LAB (MG/L AS CAC03)
NOV 21...	K7	K2	9	3.0	2.3	.7	2.3	.5	6.0
JAN 15...	K3	K2	8	.00	2.2	.6	2.6	.4	9.0
MAR 12...	K2	K4	7	--	1.8	.6	3.0	.4	4.0
MAY 26...	K16	48	7	4.0	1.9	.6	2.3	.4	3.0
JUL 24...	120	95	9	5.0	2.4	.7	2.3	.5	4.0
SEP 14...	60	K16	9	.00	2.5	.7	2.8	.4	11

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

01022500 NARRAGUAGUS RIVER AT CHERRYFIELD, ME--Continued

CHEMICAL ANALYSFS, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DATE	SULFATE DIS- SOLVED (MG/L AS S04)	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)	SOLIDS, DIS- SOLVED (TONS PER AC-FT)	SOLIDS, DIS- SOLVED (TONS PER DAY)	NITRO- GEN, NO2+NO3 TOTAL (MG/L AS N)
NOV 21...	4.8	3.3	.1	7.4	52	26	.07	34.4	.07
JAN 15...	3.5	3.1	.2	8.7	36	27	.05	20.4	.09
MAR 12...	4.8	2.9	.1	6.1	30	23	.04	27.9	.07
MAY 26...	3.7	2.9	.1	3.2	32	17	.04	22.3	.03
JUL 24...	5.3	2.9	.1	5.5	32	23	.04	71.4	.09
SEP 14...	4.0	2.9	.2	5.6	43	26	.06	20.1	.02

DATE	NITRO- GEN, NO2+NO3 DIS- SOLVED (MG/L AS N)	NITRO- GEN, AMMONIA TOTAL (MG/L AS N)	NITRO- GEN, AMMONIA DIS- SOLVED (MG/L AS N)	NITRO- GEN,AM- MONIA + ORGANIC TOTAL (MG/L AS N)	NITRO- GEN,AM- MONIA + ORGANIC DIS- SOLVED (MG/L AS N)	NITRO- GEN, TOTAL (MG/L AS N)	NITRO- GEN DIS- SOLVED (MG/L AS N)	PHOS- PHORUS, TOTAL (MG/L AS P)	PHOS- PHORUS, DIS- SOLVED (MG/L AS P)
NOV 21...	.06	.000	.030	.22	.19	.29	.25	.010	<.010
JAN 15...	.09	.050	.040	.17	.12	.26	.21	<.010	<.010
MAR 12...	.07	.030	.020	.15	.12	.22	.19	.060	<.010
MAY 26...	.02	.020	.040	.36	.20	.39	.22	<.010	<.010
JUL 24...	.07	.010	.020	.61	.69	.70	.76	.020	<.010
SEP 14...	.04	.020	.050	.61	.36	.63	.40	<.010	.010

DATE	ARSENIC TOTAL (UG/L AS AS)	ARSENIC DIS- SOLVED (UG/L AS AS)	BARIUM, TOTAL RECOV- ERABLE (UG/L AS BA)	BARIUM, DIS- SOLVED (UG/L AS BA)	CADMIUM TOTAL RECOV- ERABLE (UG/L AS CD)	CADMIUM DIS- SOLVED (UG/L AS CD)	CHRO- MIUM, TOTAL RECOV- ERABLE (UG/L AS CR)	CHRO- MIUM, DIS- SOLVED (UG/L AS CR)	COBALT, TOTAL RECOV- ERABLE (UG/L AS CO)	COBALT, DIS- SOLVED (UG/L AS CO)
NOV 21...	0	1	<50	10	0	0	10	10	0	0
MAR 12...	0	0	100	100	0	0	10	<10	0	0
MAY 26...	2	2	100	8	1	1	10	10	1	2
JUL 24...	1	1	100	7	1	5	<10	10	2	1

DATE	COPPER, TOTAL RECOV- ERABLE (UG/L AS CU)	COPPER, DIS- SOLVED (UG/L AS CU)	IRON, TOTAL RECOV- ERABLE (UG/L AS FE)	IRON, DIS- SOLVED (UG/L AS FE)	LEAD, TOTAL RECOV- ERABLE (UG/L AS PB)	LEAD, DIS- SOLVED (UG/L AS PB)	MANGA- NESE, TOTAL RECOV- ERABLE (UG/L AS MN)	MANGA- NESE, DIS- SOLVED (UG/L AS MN)	MERCURY TOTAL RECOV- ERABLE (UG/L AS HG)
NOV 21...	2	2	350	180	7	1	20	20	<.1
MAR 12...	3	2	200	120	15	4	10	10	.1
MAY 26...	5	5	380	180	3	3	20	20	.2
JUL 24...	9	6	570	320	9	12	80	40	.1

01022500 NARRAGUAGUS RIVER AT CHERRYFIELD, ME--Continued

CHEMICAL ANALYSFS, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DATE	MERCURY DIS- SOLVED (UG/L AS HG)	NICKEL, TOTAL RECOV- ERABLE (UG/L AS NI)	NICKEL, DIS- SOLVED (UG/L AS NI)	SELE- NIUM, TOTAL (UG/L AS SE)	SELE- NIUM, DIS- SOLVED (UG/L AS SE)	SILVER, TOTAL RECOV- ERABLE (UG/L AS AG)	SILVER, DIS- SOLVED (UG/L AS AG)	ZINC, TOTAL RECOV- ERABLE (UG/L AS ZN)	ZINC, DIS- SOLVED (UG/L AS ZN)
NOV 21...	<.1	4	1	0	0	0	0	20	3
MAR 12...	<.1	4	2	0	0	1	0	60	20
MAY 26...	.1	7	5	0	0	0	0	30	20
JUL 24...	<.1	5	2	0	0	<1	0	10	9

DATE	CARBON, ORGANIC TOTAL (MG/L AS C)	CARBON, ORGANIC SUS- PENDED TOTAL (MG/L AS C)	PHYTO- PLANK- TON, TOTAL (CELLS PER ML)	SEDI- MENT, SUS- PENDED (MG/L)	SEDI- MENT, DIS- CHARGE, SUS- PENDED (T/DAY)	SED. SUSP. SIEVE DIAM. % FINER THAN .062 MM
NOV 21...	--	--	65	4	2.6	100
JAN 15...	6.7	--	--	1	.57	100
MAR 12...	--	--	26	3	2.8	--
MAY 26...	--	.4	39	6	4.2	82
JUL 24...	--	.6	170	7	16	86
SEP 14...	9.0	--	14	1	.47	100

01022500 NARRAGUAGUS RIVER AT CHERRYFIELD, ME--Continued

PHYTOPLANKTON ANALYSES, OCTOBER 1980 TO SEPTEMBER 1981

DATE TIME	NOV 21,80 1030	MAR 12,81 0945	MAY 26,81 1800	JUL 24,81 1145	SEP 14,81 1645					
TOTAL CELLS/ML	65	26	39	170	14					
DIVERSITY: DIVISION	0.7	0.0	0.9	1.1	0.0					
..CLASS	0.7	0.0	0.9	1.1	0.0					
..ORDER	0.7	1.0	0.9	1.1	0.0					
...FAMILY	0.7	1.0	1.6	1.8	0.0					
....GFNUS	0.7	1.0	1.6	2.1	0.0					
ORGANISM	CELLS /ML	PER- CENT	CELLS /ML	PER- CENT	CELLS /ML	PER- CENT	CELLS /ML	PER- CENT	CELLS /ML	PER- CENT
CHLOROPHYTA (GREEN ALGAE)										
..CHLOROPHYCEAE										
...CHLOROCOCCALES										
....OOCYSTACEAE										
....ANKISTRODESMUS	--	-	--	-	13#	33	13	8	--	-
....DICTYOSPHAERIUM	--	-	--	-	--	-	52#	31	--	-
....TETRAEDRON	--	-	13#	50	--	-	--	-	--	-
....SCENEDESMACEAE										
....SCENEDESMUS	52#	80	--	-	--	-	52#	31	--	-
...VOLVOCALES										
...CHLAMYDOMONADACEAE										
....CHLAMYDOMONAS	--	-	13#	50	--	-	--	-	--	-
CHRYSOPHYTA										
..BACILLARIOPHYCEAE										
...PENNALES										
....ACHNANTHACEAE										
....ACHNANTHES	--	-	--	-	13#	33	--	-	--	-
....NITZSCHIA	--	-	--	-	13#	33	39#	23	14#	100
EUGLENOPHYTA (EUGLENOIDS)										
..EUGLENOPHYCEAE										
...EUGLENALES										
....EUGLENACEAE										
....TRACHELOMONAS	13#	20	--	-	--	-	--	-	--	-
PYRRHOPHYTA (FIRE ALGAE)										
..DINOPHYCEAE										
...PERIDINIALES										
....GLENODINIACEAE										
....GLENODINIUM	--	-	--	-	--	-	13	8	--	-

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

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

01022500 NARRAGUAGUS RIVER AT CHERRYFIELD, ME--Continued

SPECIFIC CONDUCTANCE (MICROMHOS/CM AT 25 DEG. C), WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
OCTOBER			NOVEMBER			DECEMBER			JANUARY			
1	42	41	41	35	31	33	33	31	32	35	34	35
2	41	41	41	36	31	35	33	27	30	35	32	33
3	41	40	41	36	35	36	32	27	31	35	35	35
4	40	38	39	36	35	36	32	31	32	35	35	35
5	40	39	39	35	35	35	34	32	32	36	35	36
6	39	33	36	36	32	35	33	31	32	36	35	36
7	40	33	38	37	33	36	32	31	31	35	26	28
8	40	40	40	36	36	36	32	31	31	36	28	35
9	41	40	40	36	36	36	32	31	32	36	35	35
10	42	41	41	36	36	36	33	31	31	35	35	35
11	42	40	41	36	36	36	32	31	32	36	35	36
12	41	40	41	37	36	37	34	32	33	36	35	36
13	40	40	40	37	37	37	33	32	33	36	36	36
14	39	39	39	37	37	37	33	32	32	36	36	36
15	40	39	39	38	37	38	34	33	33	36	36	36
16	39	39	39	38	38	38	34	33	33	36	35	36
17	39	39	39	39	38	39	33	33	33	35	31	32
18	39	38	39	39	38	38	33	32	33	36	31	34
19	39	38	38	38	38	38	33	32	32	36	35	36
20	38	38	38	39	38	38	34	33	33	36	35	36
21	38	38	38	39	38	39	34	33	33	35	35	35
22	38	38	38	39	38	38	35	33	34	35	34	35
23	39	38	38	38	36	38	35	33	34	35	34	34
24	39	38	39	38	36	38	34	33	33	35	34	35
25	39	38	39	38	37	37	34	33	34	34	34	34
26	39	38	38	37	35	36	35	34	35	34	33	34
27	38	36	37	36	36	36	36	35	35	34	34	34
28	36	35	35	36	35	36	35	34	35	34	33	33
29	35	34	35	35	30	31	34	25	28	33	32	33
30	35	34	35	32	30	32	34	23	27	33	32	33
31	35	34	35	---	---	---	35	34	34	33	32	33
MONTH	42	33	39	39	30	36	36	23	32	36	26	35

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
FEBRUARY			MARCH			APRIL			MAY			
1	34	32	33	22	20	20	27	25	26	25	24	24
2	37	33	35	21	19	20	29	26	28	24	24	24
3	37	28	31	23	21	22	25	23	24	24	24	24
4	28	28	28	22	21	22	26	24	25	25	24	25
5	28	24	26	23	23	23	28	26	27	27	25	26
6	28	24	25	27	24	26	27	25	26	27	25	26
7	27	23	25	29	25	27	24	24	24	26	25	25
8	28	23	27	26	25	25	24	23	24	25	25	25
9	28	25	27	27	26	27	25	23	24	25	24	25
10	25	25	25	28	27	27	25	23	24	27	25	26
11	30	25	28	28	27	27	25	23	24	27	26	27
12	32	18	23	28	24	26	24	23	24	28	26	27
13	22	18	20	26	24	25	23	23	23	28	28	28
14	25	21	23	27	25	26	26	23	24	28	26	26
15	23	21	22	26	25	25	26	23	24	26	26	26
16	25	21	22	26	25	26	24	23	23	27	26	27
17	27	19	22	27	25	26	25	24	24	28	26	27
18	22	17	19	27	26	27	27	25	26	26	25	25
19	23	17	19	28	27	27	26	23	25	26	25	25
20	21	19	20	27	27	27	25	24	24	26	25	25
21	23	19	20	28	27	28	25	24	24	27	25	26
22	23	18	20	27	27	27	24	24	24	26	25	26
23	22	18	19	27	27	27	24	24	24	26	25	26
24	23	20	20	28	27	27	25	24	25	26	26	26
25	24	19	21	27	26	27	25	24	25	27	26	26
26	26	21	24	28	26	27	25	24	24	30	26	28
27	25	18	22	28	27	28	24	23	24	30	27	30
28	---	---	16	27	26	26	24	24	24	30	27	29
29	---	---	---	27	26	26	27	24	25	30	27	29
30	---	---	---	28	26	27	27	24	26	31	30	31
31	---	---	---	28	27	28	---	---	---	30	29	29
MONTH	37	17	24	29	19	26	29	23	25	31	24	26

01022500 NARRAGUAGUS RIVER AT CHERRYFIELD, ME--Continued

SPECIFIC CONDUCTANCE (MICROMHOS/CM AT 25 DEG. C), WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

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

TEMPERATURE, WATER (DEG. C), WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

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

TEMPERATURE, WATER (DEG. C), WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

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

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
JUNE				JULY			AUGUST			SEPTEMBER		
1	17.0	15.0	16.0	23.0	21.0	22.0	22.0	19.5	20.5	19.5	19.0	19.5
2	17.5	15.5	16.5	23.5	22.5	23.0	23.0	21.0	21.5	19.5	18.5	19.0
3	18.0	15.5	16.5	25.0	23.0	24.0	23.0	22.0	22.5	19.0	18.5	18.5
4	18.5	16.5	17.5	25.0	23.5	24.0	23.0	22.0	22.5	19.0	18.0	18.5
5	20.5	18.5	19.5	24.0	23.0	23.5	22.5	21.0	21.5	19.0	18.0	18.5
6	20.5	19.0	19.5	22.5	21.5	22.0	21.0	18.5	19.0	19.5	18.5	19.0
7	19.0	18.5	18.5	23.0	21.5	22.5	18.5	18.5	18.5	19.5	18.5	19.0
8	19.0	18.0	18.5	24.5	22.0	23.5	19.5	18.0	18.5	19.0	18.0	18.5
9	18.5	17.0	18.0	24.5	23.0	23.5	21.0	18.5	19.5	19.0	17.5	18.0
10	18.0	16.0	17.0	24.0	22.0	23.0	20.5	20.0	20.0	17.5	17.0	17.5
11	18.5	16.5	17.5	24.0	23.0	23.5	20.5	19.5	20.0	17.0	16.0	16.5
12	19.0	17.0	18.0	23.5	23.0	23.5	21.5	20.5	21.0	16.5	16.0	16.0
13	19.5	18.0	18.5	23.0	21.5	22.5	22.0	20.5	21.0	17.5	16.0	17.0
14	19.0	18.5	19.0	21.5	20.5	21.0	21.0	20.0	20.5	18.5	17.5	18.0
15	19.0	17.0	18.0	21.0	20.0	20.5	20.0	19.0	19.5	18.0	17.5	18.0
16	17.0	16.5	16.5	22.0	20.0	21.0	19.0	17.5	18.0	17.5	17.0	17.5
17	18.5	16.0	17.5	22.5	20.5	21.5	18.5	17.5	18.0	17.5	16.5	17.0
18	20.5	18.5	19.5	22.5	21.0	21.5	19.0	17.5	18.0	17.5	16.0	16.5
19	21.5	19.5	20.5	22.0	21.0	21.5	18.5	17.5	18.0	16.0	14.5	16.0
20	21.0	20.0	20.5	21.5	20.0	21.0	19.0	17.5	18.0	14.5	13.0	13.5
21	20.0	19.5	19.5	20.0	18.0	19.0	20.0	18.5	19.0	14.0	13.0	13.5
22	19.5	17.5	18.5	19.5	18.0	18.5	21.0	19.0	20.0	13.5	12.5	13.0
23	19.0	17.0	18.0	20.0	18.5	19.5	22.0	20.0	21.0	12.5	12.5	12.5
24	19.5	18.0	18.5	20.5	18.5	19.5	21.5	20.5	21.0	12.5	12.5	12.5
25	19.0	17.5	18.5	21.0	19.0	20.0	20.0	18.0	19.0	13.0	12.0	12.5
26	19.0	17.0	18.0	21.5	20.0	21.0	19.0	17.5	18.0	13.0	12.5	13.0
27	20.5	18.5	19.0	21.5	20.5	21.0	18.5	17.5	18.0	13.0	12.5	12.5
28	21.0	19.0	20.0	20.5	19.0	20.0	19.0	17.5	18.0	14.0	13.0	13.5
29	21.0	20.0	20.5	20.0	18.0	19.0	19.0	18.0	18.5	13.5	11.0	12.5
30	21.5	20.0	21.0	18.5	17.0	18.0	19.5	18.5	19.0	11.0	10.0	10.5
31	---	---	---	20.5	18.0	19.0	20.0	19.0	19.5	---	---	---
MONTH	21.5	15.0	18.5	25.0	17.0	21.5	23.0	17.5	19.5	19.5	10.0	16.0
YEAR	25.0	.0	9.0									

01024200 GARLAND BROOK NEAR MARIAVILLE, ME

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

DRAINAGE AREA.--9.80 mi² (25.38 km²).

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

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

REMARKS.--Records fair. No gage-height record June 23 to July 24. Several observations of water temperature and specific conductance were made during the year.

AVERAGE DISCHARGE.--17 years, 22.2 ft³/s (0.629 m³/s, 30.76 in/yr (781 mm/yr).

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

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

Date	Time	Discharge (ft ³ /s) (m ³ /s)	Gage height (ft) (m)	Date	Time	Discharge (ft ³ /s) (m ³ /s)	Gage height (ft) (m)
Nov. 29	1015	* 222 6.29	6.63 2.021	Apr. 2	2045	180 5.10	6.19 1.887
Feb. 12	1245	152 4.30	5.88 1.792	Sep. 20	0245	167 4.73	6.05 1.844

Minimum discharge, 2.7 ft³/s (0.076 m³/s) Sept. 7-9, gage height, 2.81 ft (0.856 m).

DISCHARGE, IN CURIC FEET PER SECOND, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	3.6	12	55	8.9	6.9	32	44	34	20	4.4	9.0	3.5
2	3.3	11	39	8.5	25	29	99	27	12	3.7	7.0	3.4
3	3.1	9.6	51	8.3	99	25	115	23	8.7	3.0	5.8	3.4
4	39	9.0	48	8.2	57	21	67	21	7.5	4.4	5.0	3.5
5	29	9.6	32	8.0	48	19	57	18	7.2	8.0	5.6	3.2
6	15	9.8	27	8.0	35	19	74	17	6.4	15	24	3.0
7	9.8	8.9	23	7.8	28	18	70	18	6.2	11	29	2.8
8	7.2	13	21	7.8	24	18	57	16	5.4	8.0	20	2.7
9	5.5	16	28	7.7	22	17	45	15	9.3	6.0	15	8.9
10	4.7	14	24	7.7	21	16	38	14	18	4.8	12	13
11	4.8	14	19	7.7	23	16	32	13	11	4.0	11	8.7
12	39	14	15	7.6	113	15	28	17	9.0	4.6	9.0	6.7
13	26	13	15	7.6	81	13	26	30	6.0	6.0	8.7	5.3
14	15	12	14	7.6	54	13	24	23	5.7	8.0	7.0	4.4
15	9.9	13	13	7.6	38	13	35	20	4.9	5.5	15	3.9
16	8.1	11	13	7.6	30	15	26	19	4.9	4.4	40	3.5
17	7.1	9.6	12	7.6	29	13	24	40	5.1	3.8	70	3.2
18	6.8	8.9	12	7.6	33	13	23	35	4.4	3.4	60	3.0
19	12	11	12	7.6	38	14	29	28	3.6	3.0	25	20
20	11	9.4	12	7.6	48	14	25	22	3.2	7.0	15	104
21	8.6	8.6	11	7.7	66	14	24	18	6.9	60	11	35
22	7.1	17	11	7.6	66	14	21	15	39	33	8.8	20
23	5.6	21	11	7.6	50	15	20	13	20	18	7.3	22
24	5.4	16	11	7.6	39	18	25	12	10	12	6.4	103
25	5.8	72	11	7.6	36	19	33	11	25	8.3	5.8	78
26	95	111	11	7.6	36	19	27	10	17	6.0	5.0	39
27	46	52	11	7.6	42	22	23	9.7	13	21	4.5	26
28	25	34	10	8.0	36	28	20	9.1	9.5	18	4.6	22
29	19	159	10	7.8	---	30	28	8.3	7.0	21	4.1	18
30	15	97	14	7.5	---	37	50	9.7	5.3	16	3.7	14
31	13	---	9.6	7.2	---	50	---	17	---	12	3.5	---
TOTAL	505.4	816.4	605.6	240.8	1223.9	619	1209	582.8	312.1	343.3	457.8	587.1
MEAN	16.3	27.2	19.5	7.77	43.7	20.0	40.3	18.8	10.4	11.1	14.8	19.6
MAX	95	159	55	8.9	113	50	115	40	39	60	70	104
MIN	3.1	8.6	9.6	7.2	6.9	13	20	8.3	3.2	3.0	3.5	2.7
CFSM	1.66	2.78	1.99	7.79	4.46	2.04	4.11	1.92	1.06	1.13	1.51	2.00
IN.	1.92	3.10	2.30	9.1	4.65	2.35	4.59	2.21	1.18	1.30	1.74	2.23
CAL YR 1980	TOTAL	6249.45	MEAN	17.1	MAX	255	MIN	.55	CFSM	1.75	IN	23.72
WTR YR 1981	TOTAL	7503.20	MEAN	20.6	MAX	159	MIN	2.7	CFSM	2.10	IN	28.48

01029500 EAST BRANCH PENOBSCOT RIVER AT GRINDSTONE, ME

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

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

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

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

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

REMARKS.--Records good except those for winter period, which are fair. No gage-height record Nov. 1 to Dec. 1, and Dec. 12 to Jan. 14. Flow regulated by Chamberlain, Telos, Second and Grand Lakes, and Round Pond (Reservoirs in Penobscot River basin). Final regulation at Grand Lake Dam 35 mi (56 km) upstream. Several observations of water temperature and specific conductance were made during the year.

AVERAGE DISCHARGE.--79 years, 1,943 ft³/s (55.03 m³/s).

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

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 20,000 ft³/s (566 m³/s) Sept. 25, gage height, 12.34 ft (3.761 m); minimum daily, 653 ft³/s (18.5 m³/s) Aug. 5.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1540	1500	2240	990	880	3500	3540	2950	2130	1460	741	1260
2	1260	1370	2020	1020	950	3050	3960	2470	2570	1310	698	1140
3	908	1280	2340	1030	1300	2750	5530	2150	2340	1190	667	1060
4	1160	1200	4140	1000	2380	2450	5920	2050	2050	1120	708	1030
5	1860	1160	4010	980	2320	2200	6700	1980	1870	1070	653	1010
6	1560	1130	3140	970	2100	2020	8210	2140	1770	1030	2290	985
7	1330	1120	2810	970	2000	1900	7970	2170	1680	1030	5000	950
8	1220	1220	2640	960	1880	1830	6980	1850	1670	959	4160	940
9	1010	1500	2990	980	1770	1780	5570	1570	2080	1060	3300	1000
10	896	1450	3050	990	1710	1740	5170	1520	1910	1100	2430	1670
11	863	1400	2500	1000	1700	1690	4900	1480	1820	1100	2220	1850
12	1210	1300	2120	990	2100	1660	4470	1470	1730	1030	1790	1620
13	1570	1210	1800	980	3400	1640	4090	2190	1570	930	1850	1400
14	1370	1150	1630	970	3480	1610	3540	4310	1550	1330	1950	1250
15	1180	1100	1520	960	3250	1470	3530	3710	1510	2860	1870	1680
16	1080	1030	1450	950	2880	1370	3320	3000	1430	2070	1840	2100
17	1010	1000	1380	940	2620	1280	3590	3930	1290	1490	1980	1950
18	965	1030	1320	930	2330	1200	3990	4820	1300	1250	3570	1800
19	978	1020	1260	920	2200	1400	4170	4180	1450	1170	5400	1720
20	953	1020	1200	900	2200	1500	4060	3440	1340	1160	6430	1700
21	908	1050	1170	890	2500	1460	3830	2990	1200	1140	5940	1700
22	871	1030	1130	870	3300	1440	3470	2710	1130	1170	4410	1830
23	850	1000	1090	860	4500	1360	3010	2500	1320	1070	3610	1920
24	820	1000	1060	860	4400	1340	2750	2240	1510	968	3480	8400
25	801	1500	1040	860	4150	1320	2470	2080	2960	901	3430	19000
26	1610	2980	1020	860	4000	1280	2210	1960	2960	846	2930	16200
27	2490	2200	990	870	4100	1320	2030	1850	2260	859	2730	12600
28	1900	1800	970	880	4000	1290	1910	1790	2070	877	2480	8850
29	2020	2550	960	880	---	1420	2060	1600	1990	825	1940	7260
30	1980	3750	950	870	---	2050	2940	1770	1700	808	1530	6460
31	1850	---	950	860	---	2840	---	1940	---	781	1460	---
TOTAL	40023	43050	56890	28990	74400	55160	125890	76810	54160	35964	83487	112335
MEAN	1291	1435	1835	935	2657	1779	4196	2478	1805	1160	2693	3745
MAX	2490	3750	4140	1030	4500	3500	8210	4820	2960	2860	6430	19000
MIN	801	1000	950	860	880	1200	1910	1470	1130	781	653	940
CAL YR 1980	TOTAL	548818	MEAN	1500	MAX	6440	MIN	560				
WTR YR 1981	TOTAL	787159	MEAN	2157	MAX	19000	MIN	653				

01030000 PENOBSCOT RIVER NEAR MATTAWAMKEAG, ME

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

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

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

REVISED RECORDS.--WSP 2101: Drainage area.

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

REMARKS.--Records fair. Flow regulated by many reservoirs above station (Reservoirs in Penobscot River basin). Several observations of water temperature and specific conductance were made during the year.

AVERAGE DISCHARGE.--41 years, 5,756 ft³/s (163.0 m³/s).

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

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 41,500 ft³/s (1,180 m³/s) Sept. 25, gage height, 11.15 ft (3.399 m); minimum daily, 2,500 ft³/s (70.8 m³/s) Dec. 20, 24.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	3800	4000	3800	3300	3200	7370	6870	6340	5300	4350	4340	5430
2	3500	3780	3500	3350	4500	6750	7400	5850	5650	4400	4300	5400
3	2980	3350	5400	3400	5200	6420	9080	5490	5430	3700	4100	4550
4	4100	3300	6200	3200	5600	6180	9280	5230	4850	3100	3960	4300
5	4950	3880	6180	3100	5650	5470	10100	5380	4400	2600	4300	5100
6	4450	3970	5450	3340	5600	5340	11800	5380	5300	3800	6800	3200
7	4130	3500	4900	3300	5400	5000	11600	5870	5470	3700	8500	4000
8	3900	4350	5200	3300	4950	5470	10700	5230	5550	3600	7700	5300
9	3000	4600	5500	3150	4550	5470	8670	5070	5680	4220	6400	5250
10	3500	4300	5700	3270	5050	5460	7980	4800	4900	4300	5300	6050
11	2950	4100	5200	3540	5250	5280	7880	4960	5500	4220	5250	5600
12	4200	4700	4600	3650	5300	5380	7590	4870	5550	4350	5200	5300
13	4520	4100	4500	3400	8250	5310	7260	6370	4850	4000	5250	5200
14	4250	4400	4700	3220	7230	5260	6670	8300	4450	5750	5300	5330
15	3940	4280	4100	3500	6320	5040	6700	6760	4550	6400	5350	4900
16	3600	3900	3500	3880	5870	4990	6290	6430	5000	5650	5400	4050
17	3350	3600	3200	3700	5740	4850	6280	8180	4850	5300	6000	4600
18	3180	4300	3330	3300	5620	4560	6780	8570	4600	4750	7800	5400
19	3700	3850	3000	3170	5480	4940	6750	7260	4500	5100	8900	5270
20	4100	3620	2500	3280	5640	5400	6790	6550	4600	5400	9450	4750
21	3600	3480	3000	3230	6590	5080	6720	6260	4900	5100	8700	4400
22	3130	3530	3480	3890	7620	5300	6610	6190	5180	4250	7600	5100
23	3350	3200	3100	3700	8440	5250	5990	5900	6000	4700	7150	6000
24	3570	3500	2500	3300	8850	5160	5730	5900	5930	5000	6800	21300
25	3850	4900	3480	3800	9160	4860	5810	5470	5780	4670	6230	40500
26	4380	7200	3700	3650	7710	5190	5500	5250	5700	4480	6170	34800
27	5200	6400	3300	3620	7670	4860	5100	5280	5800	4600	5630	28000
28	4800	7100	3800	3200	7590	5230	5610	5380	5300	3800	5750	20900
29	4440	6850	3720	3600	---	5090	5140	5200	4950	4100	5600	17100
30	4300	6100	4030	3370	---	5330	6200	5450	4600	4200	5550	14500
31	4650	---	3640	3220	---	6890	---	6180	---	3900	5480	---
TOTAL	121370	132140	128210	105930	174030	168180	220880	185350	155120	137490	190260	291580
MEAN	3915	4405	4136	3417	6215	5425	7363	5979	5171	4435	6137	9719
MAX	5200	7200	6200	3890	9160	7370	11800	8570	6000	6400	9450	40500
MIN	2950	3200	2500	3100	3200	4560	5100	4800	4400	2600	3960	3200
CAL YR 1980 TOTAL	1516160			MEAN 4143	MAX 9910	MIN 2100						
WTR YR 1981 TOTAL	2010540			MEAN 5508	MAX 40500	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 (1.6 km) upstream from Mattakeunk Stream, 3.7 mi (6.0 km) upstream from Mattawamkeag, and 4.6 mi (6.6 km) upstream from mouth.

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

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

REVISED RECORDS.--WSP 1501: Drainage area.

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

REMARKS.--Records good except those for winter period, which are fair. No gage-height record Feb. 11 to Mar. 18. Several observations of water temperature and specific conductance were made during the year.

AVERAGE DISCHARGE.--47 years, 2,491 ft³/s (70.5 m³/s), 23.86 in/yr (606 mm/yr).

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

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 22,000 ft³/s (623 m³/s) Sept. 26, gage height, 12.59 ft (3.837 m); minimum, 287 ft³/s (8.13 m³/s) Sept. 19.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1060	2210	6730	1100	450	5200	4750	3790	2900	2340	559	547
2	1010	2030	6230	1100	520	4550	6110	3870	3080	1920	496	509
3	1010	1860	5940	1060	1100	4000	8480	3620	2880	1610	429	486
4	1300	1720	6670	1010	2800	3500	10800	3280	2520	1370	378	439
5	2280	1700	6670	960	3600	3100	11800	2960	2180	1190	351	392
6	2880	1690	6640	890	3800	2800	12700	2700	1930	1110	707	365
7	2970	1640	6700	850	3500	2550	13700	2570	1940	1080	1710	340
8	2780	1720	6210	800	2850	2250	13800	2510	2240	1030	2610	317
9	2510	2160	6020	770	2350	2100	13300	2380	2480	993	2930	313
10	2220	2480	5450	740	2050	1950	12400	2160	2740	950	2820	320
11	1980	2850	4670	690	2150	1800	11500	1940	2730	896	2480	329
12	2100	3200	3930	660	2450	1700	10700	1790	2490	844	2090	328
13	2870	3340	3130	630	3000	1580	9660	1870	2200	780	1740	323
14	3380	3280	2680	610	4300	1470	8410	2450	1940	879	1450	318
15	3410	3100	2360	590	6200	1400	7320	3100	1740	1140	1210	304
16	3150	2830	2200	580	7000	1300	6380	3440	1580	1310	1460	295
17	2800	2530	2050	570	6500	1160	5590	3550	1610	1250	2930	300
18	2490	2330	1940	555	5000	1000	4860	3900	1630	1070	4030	297
19	2320	2070	1800	540	4050	1460	4460	4350	1520	990	4230	341
20	2180	1890	1700	530	4200	1750	4280	4430	1340	1060	3850	1390
21	2020	1890	1620	515	4650	1770	4070	4090	1340	1120	3210	2880
22	1850	1990	1520	500	5700	1660	3750	3570	1810	1220	2580	3070
23	1680	1870	1450	490	6900	1660	3380	3070	2400	1220	2100	3680
24	1530	1830	1370	485	8500	1660	3110	2640	2790	1090	1810	7020
25	1420	2250	1300	480	10000	1610	3120	2300	3000	923	1540	17500
26	1660	4030	1230	480	9600	1570	3290	2070	3370	780	1320	21600
27	2350	5630	1180	480	7900	1670	3320	1970	3890	734	1150	21300
28	2720	6090	1140	475	6400	1700	3180	2190	3920	744	1020	19900
29	2760	6430	1100	465	---	1850	3020	2330	3480	722	882	17800
30	2620	6780	1070	460	---	2350	3310	2280	2880	678	738	15200
31	2400	---	1080	450	---	3450	---	2460	---	621	608	---
TOTAL	69710	85420	103780	20515	127520	67570	214550	89630	72550	33664	55418	138203
MEAN	2249	2847	3348	662	4554	2180	7152	2891	2418	1086	1788	4607
MAX	3410	6780	6730	1100	10000	5200	13800	4430	3920	2340	4230	21600
MIN	1010	1640	1070	450	450	1000	3020	1790	1340	621	351	295
CFSM	1.59	2.01	2.36	.47	3.21	1.54	5.04	2.04	1.71	.77	1.26	3.25
IN.	1.83	2.24	2.72	.54	3.35	1.77	5.63	2.35	1.90	.88	1.45	3.63
CAL YR 1980	TOTAL	783534	MEAN	2141	MAX	12300	MIN	161	CFSM	1.51	IN	20.56
WTR YR 1981	TOTAL	1078530	MEAN	2955	MAX	21600	MIN	295	CFSM	2.08	IN	28.29

01031500 PISCATAQUIS RIVER NEAR DOVER-FOXCROFT, ME

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

DRAINAGE AREA.--298 mi² (772 km²), revised.

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

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

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

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

AVERAGE DISCHARGE.--79 years, 602 ft³/s (17.05 m³/s), 27.43 in/yr (697 mm/yr).

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

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

Date	Time	Discharge (ft ³ /s) (m ³ /s)	Gage height (ft) (m)	Date	Time	Discharge (ft ³ /s) (m ³ /s)	Gage height (ft) (m)
Sep. 24	1500	* 10300 292	11.26 3.432				

Minimum discharge, 34 ft³/s (0.96 m³/s) Sept. 8, 9, gage height, 1.69 ft (0.515 m).

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	175	499	1460	155	83	740	853	629	1640	307	183	50
2	157	443	1070	150	275	630	1230	555	949	267	136	49
3	163	387	1820	145	1400	560	1600	515	671	236	108	48
4	493	350	2120	140	680	520	1260	456	536	194	93	49
5	900	345	1260	135	530	485	1130	410	573	210	89	42
6	615	321	925	135	425	450	1310	377	492	317	88	39
7	446	296	785	135	340	430	1090	369	895	320	100	37
8	356	414	620	140	300	410	886	346	757	226	103	35
9	297	603	530	135	270	390	779	310	592	189	89	84
10	252	522	450	130	250	375	801	282	591	180	81	311
11	231	480	400	125	300	365	734	264	474	166	78	191
12	482	419	360	120	2350	360	649	265	492	137	75	154
13	572	361	320	115	2800	345	573	973	399	129	69	120
14	431	333	285	115	1870	330	520	1210	325	194	62	99
15	343	318	265	110	1300	334	731	807	279	285	57	90
16	289	285	250	110	950	346	644	1090	293	217	307	81
17	259	261	240	105	750	329	561	1890	387	161	490	70
18	245	264	225	105	650	273	604	1280	330	129	405	64
19	256	246	215	100	620	240	873	935	268	136	268	64
20	248	268	205	100	750	246	697	721	225	134	190	73
21	231	252	190	98	2100	231	643	592	276	142	149	77
22	215	258	185	96	3690	228	530	501	1130	169	121	94
23	193	246	175	94	2750	224	461	449	2800	140	103	1200
24	184	235	170	92	1920	241	468	388	1490	111	93	8080
25	176	970	165	90	1450	252	609	334	931	94	96	5620
26	1820	1890	160	91	1220	245	595	327	970	82	94	2700
27	1940	1140	155	92	1050	282	523	336	877	88	60	1600
28	1220	842	150	92	860	265	461	384	631	111	47	1700
29	879	2310	150	88	---	293	467	421	473	171	57	1480
30	684	2340	155	86	---	446	703	464	370	385	55	1060
31	569	---	155	84	---	796	---	1540	---	281	52	---
TOTAL	15321	17898	15615	3508	31933	11661	22985	19420	21116	5908	3998	25361
MEAN	494	597	504	113	1140	376	766	626	704	191	129	845
MAX	1940	2340	2120	155	3690	796	1600	1890	2800	385	490	8080
MIN	157	235	150	84	83	224	461	264	225	82	47	35
CFSM	1.66	2.00	1.69	.38	3.83	1.26	2.57	2.10	2.36	.64	.43	2.84
IN.	1.91	2.23	1.95	.44	3.99	1.46	2.87	2.42	2.64	.74	.50	3.17
CAL YR 1980	TOTAL	154651	MEAN 423	MAX 4970	MIN 23	CFSM 1.42	IN 19.31					
WTR YR 1981	TOTAL	194724	MEAN 533	MAX 8080	MIN 35	CFSM 1.79	IN 24.31					

01033000 SEBEC RIVER AT SEBEC, ME

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

DRAINAGE AREA.--326 mi² (844 km²), revised.

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

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

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

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

AVERAGE DISCHARGE.--57 years, 631 ft³/s (17.87 m³/s), 26.29 in/yr (668 mm/yr), unadjusted.

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

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 2,950 ft³/s (83.5 m³/s) Sept. 28, gage height, 6.46 ft (1.969 m); minimum daily, 98 ft³/s (2.76 m³/s) May 12.

DISCHARGE, IN CURIC FEET PER SECOND, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	847	292	1460	240	236	1720	202	627	711	573	178	183
2	832	293	1500	240	238	1670	205	618	760	248	176	180
3	824	293	1760	240	238	1630	237	596	769	270	176	180
4	824	293	2470	240	236	1610	285	575	701	279	176	177
5	824	295	2670	240	236	1600	347	564	836	288	174	175
6	477	294	2360	240	235	1560	426	552	877	343	176	172
7	276	294	2150	240	236	1510	510	1080	940	373	175	171
8	276	299	2010	240	236	1470	566	1040	590	361	173	170
9	272	301	1890	240	236	1430	607	616	922	340	170	172
10	272	303	1760	240	236	1380	655	586	1060	340	170	170
11	272	306	1670	240	236	1320	681	492	954	314	170	171
12	272	310	914	240	793	1250	700	98	884	292	170	172
13	272	311	229	236	1530	1150	700	102	826	272	168	170
14	272	310	229	240	1660	1070	693	103	787	292	166	447
15	272	311	228	240	1670	1010	741	105	766	320	165	883
16	272	314	232	240	1670	925	801	115	763	305	171	870
17	272	308	232	240	1630	859	748	228	759	280	176	857
18	272	307	232	240	1480	688	733	600	451	270	182	841
19	272	309	232	240	1410	218	752	873	185	273	186	832
20	272	307	233	239	1490	220	759	990	169	272	192	820
21	272	307	235	240	1490	219	745	1030	193	554	197	800
22	272	307	236	240	1680	211	757	952	316	896	193	789
23	272	304	236	240	1880	205	718	895	1040	598	195	593
24	272	371	236	240	2020	205	659	849	1500	176	203	674
25	272	437	236	240	2140	205	664	822	1410	173	198	1800
26	281	594	236	240	2010	200	665	480	1420	173	198	2280
27	283	660	236	240	1900	198	648	399	1390	175	195	2300
28	284	673	236	237	1790	198	630	400	1310	173	191	2560
29	287	1010	238	236	---	198	617	405	1210	174	187	2780
30	289	1370	240	236	---	198	638	423	1120	179	185	2490
31	289	---	239	236	---	201	---	539	---	181	183	---
TOTAL	11517	12083	27065	7420	30842	26528	18089	17754	25619	9757	5615	24879
MEAN	372	403	873	239	1102	856	603	573	854	315	181	829
MAX	847	1370	2670	240	2140	1720	801	1080	1500	896	203	2780
MIN	272	292	228	236	235	198	202	98	169	173	165	170
MEAN†	524	650	624	357	1042	752	745	650	831	315	159	851
CFSM†	1.61	1.99	1.91	1.10	3.20	2.31	2.29	1.99	2.55	.97	.49	2.61
IN ‡	1.86	2.22	2.20	1.26	3.33	2.66	2.56	2.29	2.84	1.11	.56	2.91
CAL YR 1980	TOTAL	181298	MEAN 495	MAX	2670	MIN 20	MEAN† 493	CFSM†	1.51	IN ‡	20.56	
WTR YR 1981	TOTAL	217168	MEAN 595	MAX	2780	MIN 98	MEAN† 620	CFSM†	1.90	IN ‡	25.80	

† Adjusted for change in contents in Sebec Lake.

01034000 PISCATAQUIS RIVER AT MEDFORD, ME

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

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

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

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

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

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

AVERAGE DISCHARGE.--57 years, 2,354 ft³/s (66.66 m³/s).

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

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

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

Date	Time	Discharge (ft ³ /s) (m ³ /s)	Gage height (ft) (m)	Date	Time	Discharge (ft ³ /s) (m ³ /s)	Gage height (ft) (m)
Sep. 25	1000	* 30400 861	10.89 3.319				

Minimum discharge not determined, occurred during period of backwater from ice; minimum daily, 450 ft³/s (12.7 m³/s) Feb. 1.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1540	1800	5920	730	450	4560	2590	2760	4750	2010	1120	606
2	1450	1660	4840	765	550	4060	2900	2440	3570	1330	903	592
3	1440	1520	5450	760	1500	3730	4670	2220	2790	1140	759	579
4	1910	1420	8880	755	4400	3240	3970	2050	2370	1070	708	556
5	3120	1380	7180	755	3000	3070	3610	1880	2190	1050	651	532
6	2830	1290	6070	750	2300	3020	4680	1780	2280	1230	730	514
7	1990	1280	5040	745	1850	2880	4580	1880	2900	1420	1100	493
8	1660	1460	4470	745	1550	2760	3660	2340	3100	1300	1180	471
9	1430	2010	4300	760	1350	2640	3190	1790	2430	1130	1040	504
10	1260	2010	3900	770	1200	2520	3170	1580	2850	1110	907	778
11	1150	1870	3420	760	1050	2400	3100	1510	2550	1060	811	1090
12	1380	1720	3320	730	4200	2280	2840	1190	2310	978	740	933
13	1970	1570	2180	710	11000	2150	2570	1630	2140	911	678	818
14	1860	1460	1800	680	8990	2100	2350	3400	1920	1140	615	731
15	1580	1410	1580	650	6940	1820	2660	2670	1750	2090	568	1150
16	1400	1340	1430	620	5230	1850	2740	2650	1750	1900	946	1300
17	1270	1160	1300	590	4390	1590	2440	4920	2220	1440	2500	1260
18	1200	1220	1200	570	3870	1280	2380	4720	2070	1160	2980	1210
19	1250	1180	1100	550	3600	1290	2810	3890	1410	1110	2280	1210
20	1250	1210	1020	530	3980	1130	2760	3270	1130	1190	1660	1290
21	1090	1260	960	515	5240	1060	2530	2910	1170	1290	1300	1280
22	1230	1180	890	505	9010	1070	2300	2560	2330	1890	1080	1320
23	1070	1160	840	490	9470	1020	2070	2320	5830	1810	955	3060
24	1020	1170	800	480	7920	1040	2010	2130	5900	1190	1120	16000
25	981	2300	765	470	6820	1090	2310	1950	4230	871	1270	28500
26	2280	6230	740	460	5850	1090	2430	1840	3950	755	1060	17700
27	5150	4800	720	460	5460	1110	2260	1600	4030	765	916	9200
28	3650	3710	700	465	5140	1130	2080	1730	3330	875	828	7650
29	2780	5140	690	465	---	1130	2000	1880	2740	934	727	7690
30	2280	7830	690	460	---	1370	2630	1870	2340	1230	654	6160
31	1980	---	710	455	---	2070	---	2850	---	1390	638	---
TOTAL	56451	64750	82905	19150	126310	63550	86290	74210	84330	38769	33424	115177
MEAN	1821	2158	2674	618	4511	2050	2876	2394	2811	1251	1078	3839
MAX	5150	7830	8880	770	11000	4560	4680	4920	5900	2090	2980	28500
MIN	981	1160	690	455	450	1020	2000	1190	1130	755	568	471
CFSM	1.57	1.86	2.30	.53	3.88	1.76	2.48	2.06	2.42	1.08	.93	3.30
IN.	1.81	2.07	2.65	.61	4.04	2.03	2.76	2.38	2.70	1.24	1.07	3.69
CAL YR 1980	TOTAL	682698	MEAN	1865	MAX	13700	MIN	220	CFSM	1.61	IN	21.86
WTR YR 1981	TOTAL	845316	MEAN	2316	MAX	28500	MIN	450	CFSM	1.99	IN	27.06

01034500 PENOBSCOT RIVER AT WEST ENFIELD, ME

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

DRAINAGE AREA.--6,671 mi² (17,280 km²), revised, including 249 mi² (645 km²) drained by Chamberlain Lake through Telos Canal.

PERIOD OF RECORD.--Discharge: November 1901 to current year.
 Water-quality records: Water years 1966 to 1978.
 Specific conductance: July 1973 to September 1978.
 Water temperatures: July 1966 to September 1978.

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

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

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

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

AVERAGE DISCHARGE.--79 years (water years 1903-81), 11,889 ft³/s (337 m³/s).

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

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 95,600 ft³/s (2,710 m³/s) Sept. 25, gage height, 18.34 ft (5.590 m); minimum daily discharge, 5,080 ft³/s (144 m³/s) Sept. 7.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981
 MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	7490	9570	22600	14300	12900	22300	16500	14600	16200	10200	7090	7520
2	7370	8560	16900	13800	12800	19600	18300	14300	14700	8930	7070	7330
3	7230	8190	19300	13700	16200	17900	25000	12900	13400	7950	6710	7070
4	7330	7570	24600	15100	21800	16100	27900	11700	11600	6890	5920	6150
5	11100	7290	24900	15100	23600	14200	28200	11000	10400	6360	5940	5860
6	12900	7880	23300	14800	22800	13200	31300	10400	10100	6160	6490	6240
7	11200	7720	21800	14900	21900	12500	33800	10300	11000	7190	12300	5080
8	10300	7550	19800	15000	20900	12100	31700	11100	12200	6910	15400	5110
9	9390	9300	18900	15200	19600	11900	29100	9860	11600	6520	14000	7150
10	8270	10300	17500	14800	19100	11500	26300	9150	12700	7090	11800	6960
11	7650	10100	15900	14900	19300	11100	25200	8480	11800	7320	10300	8220
12	8070	10000	13500	15600	22700	10700	23000	8150	12000	7290	9600	7510
13	10400	10400	11000	15900	30400	10600	21900	9110	11400	7060	8950	6840
14	11300	10100	10400	16000	37200	10300	19900	14900	9990	7030	8520	7020
15	10700	10200	10300	15600	34400	9690	18700	15300	9370	11700	8090	7000
16	9960	9400	9470	15500	30600	9330	18100	14100	9010	12800	9230	6770
17	8990	8650	9580	15400	28200	8760	16200	17600	9940	10200	14300	6310
18	8430	8180	9420	15400	26600	6620	15700	20600	9950	9020	17300	6020
19	7960	8490	10200	15200	25300	7570	15700	19300	8710	8530	19000	7200
20	8190	7920	10000	14400	25100	9750	15700	16800	7890	8950	18500	8810
21	8440	7900	10100	14700	28700	9620	15000	16000	8530	9630	17400	10400
22	7660	7630	13800	14400	40200	9530	14300	13900	10200	10200	14900	10800
23	6860	7390	15000	13900	45600	9150	13000	13500	14600	9560	12400	14200
24	6800	7270	14800	15200	38200	8880	11900	11800	17600	9010	11600	38900
25	6750	8450	15200	13400	33700	8710	12400	11200	14900	8440	11400	88900
26	8080	17500	16400	13300	29900	8690	12700	10700	14700	7750	10500	85100
27	13200	21500	16000	14100	26300	8810	12200	10100	15800	7510	9420	64800
28	13700	19300	14800	13500	24500	8790	11600	10300	15200	7670	8950	54400
29	11800	20800	14500	13100	---	9050	11400	10800	12900	7230	8750	47600
30	10900	24800	13600	13000	---	9770	12500	10600	11600	7190	8010	41900
31	9980	---	14100	13000	---	12600	---	11700	---	7960	7640	---
TOTAL	288400	319910	477670	452200	738500	349320	585200	390250	359990	256250	337480	593170
MEAN	9303	10660	15410	14590	26380	11270	19510	12590	12000	8266	10890	19770
MAX	13700	24800	24900	16000	45600	22300	33800	20600	17600	12800	19000	88900
MIN	6750	7270	9420	13000	12800	6620	11400	8150	7890	6160	5920	5080
CAL YR 1980	TOTAL	3684780	MEAN	10070	MAX	39500	MIN	3500				
WTR YR 1981	TOTAL	5148340	MEAN	14110	MAX	88900	MIN	5080				

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

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

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

WATER-DISCHARGE RECORDS

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

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

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

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

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 102,000 ft³/s (2,889 m³/s) Sept. 26, gage height, 18.53 ft (5.648 m); minimum daily, 5,120 ft³/s (145 m³/s) Sept. 8.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	8720	11400	29900	8000	5900	27700	18300	17600	16100	11900	8620	8280
2	8520	10500	25900	7900	6000	26100	21800	19900	18100	10800	8090	7920
3	8280	9760	24200	7800	7700	24000	27600	19800	16200	9520	7690	7660
4	8650	9290	28200	7600	10800	20900	34100	17800	14400	8880	7140	7400
5	10600	8820	30200	8000	14600	18800	35700	14300	12800	7330	6590	6480
6	14200	8920	27700	7200	15200	17400	37400	12700	11300	7460	6370	6350
7	14300	9080	27000	7300	14400	16400	40600	12300	11500	6690	7990	6390
8	12800	9190	25400	7200	13300	15200	40200	12500	12500	8180	14600	5120
9	11400	9830	24200	6700	12600	14400	37400	12700	13400	7560	15300	6020
10	11000	11400	22600	6800	11500	14100	33600	12200	13500	7370	13500	7840
11	9700	11900	18900	6900	11300	13100	30900	11200	14000	7860	11800	7710
12	9700	11800	16800	6400	14700	12800	29200	10000	13200	8020	10400	8380
13	10600	11800	16300	6800	17800	12700	27100	9960	13500	7990	9790	7950
14	12400	11700	11900	6800	24300	12300	25300	13800	12400	7820	8880	7460
15	12400	11500	9790	6700	23600	12000	23900	19400	11000	8280	8850	7990
16	11800	11200	9590	6500	21000	11500	23100	17800	10300	12800	9520	7950
17	11800	10200	9760	6500	19200	10400	20500	19200	10200	12000	13700	7300
18	10400	9860	10200	6600	17800	6370	19600	24600	11100	10300	19300	6590
19	10100	9560	10000	6300	17100	7300	19600	25500	10700	9390	21900	6590
20	9900	9590	10600	6200	17800	9790	19500	23300	9830	9290	22400	8880
21	10400	8650	9100	5900	17900	11400	18900	20000	9490	9760	20700	10700
22	10100	9420	8000	6100	20500	10400	18000	18600	10400	10700	18500	12300
23	9100	9050	9300	5900	26000	11700	16400	17200	13900	11100	15500	14100
24	8700	8920	9500	6200	29300	10900	15100	15500	19100	10400	13500	28100
25	8500	9560	8900	6400	28800	10700	14200	12900	18900	9860	12800	74100
26	9300	18100	8000	5500	25700	10400	13900	12400	16900	9190	11900	97900
27	12300	26800	8800	5900	28800	10400	13900	11800	17900	8750	11200	85100
28	16800	25900	8300	6200	28000	10500	13900	11100	18100	7950	9960	71700
29	15200	26000	8100	6200	---	10600	14500	11700	16300	8450	9790	62600
30	13500	30100	8200	5600	---	11100	15500	11900	13800	8180	9350	55000
31	12300	---	7900	6000	---	12900	---	12100	---	7920	8720	---
TOTAL	343470	379800	483240	206100	501600	424260	719700	481760	410820	281700	374350	657860
MEAN	11080	12660	15590	6648	17910	13690	23990	15540	13690	9087	12080	21930
MAX	16800	30100	30200	8000	29300	27700	40600	25500	19100	12800	22400	97900
MIN	8280	8650	7900	5500	5900	6370	13900	9960	9490	6690	6370	5120
CAL YR 1980	TOTAL	4251040	MEAN	11610	MAX	45300	MIN	3500				
WTR YR 1981	TOTAL	5264660	MEAN	14420	MAX	97900	MIN	5120				

01036390 PENOBSCOT RIVER AT EDDINGTON, ME--Continued

WATER-QUALITY RECORDS

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

PERIOD OF DAILY RECORD.--

SPECIFIC CONDUCTANCE: April 1979 to current year.

pH: April 1979 to current year.

WATER TEMPERATURES: April 1979 to current year.

DISSOLVED OXYGEN: April 1979 to current year.

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

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

EXTREMES FOR PERIOD OF DAILY RECORD.--

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

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

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

DISSOLVED OXYGEN: Maximum, 14.4 mg/L Nov. 27, 1980, Feb. 6, 1981; minimum, 6.5 mg/L July 17, 18, 1980.

EXTREMES FOR CURRENT YEAR.--

SPECIFIC CONDUCTANCE: Maximum recorded, 86 micromhos Feb. 3; minimum recorded, 28 micromhos Sept. 26.

pH: Maximum, 7.5 units July 15; minimum, 6.0 units Sept. 26.

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

DISSOLVED OXYGEN: Maximum, 14.4 mg/L Nov. 27, Feb. 6; minimum, 8.0 mg/L Aug. 14.

REVISIONS.--The dissolved organic carbon data published for May 23, Aug. 28, 1979 and

Feb. 20, 1980 are invalid due to a sample contamination problem.

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DATE	TIME	DIS- CHARGE, IN CUBIC FEET PER SECOND	SPE- CIFIC CON- DUCT- ANCE (UMHOS)	SPE- CIFIC CON- DUCT- ANCE LAB (UMHOS)	PH (UNITS)	TEMPER- ATURE, AIR (DEG C)	TEMPER- ATURE (DEG C)	TUR- BID- ITY (NTU)	OXYGEN, DIS- SOLVED (MG/L)	COLI- FORM, FECAL, 0.7 UM-MF (COLS./ 100 ML)	STREP- TOCOCCI FECAL, KF AGAR (COLS. PER 100 ML)	HARD- NESS (MG/L AS CAC03)
OCT 28...	1130	16800	58	49	6.7	4.5	6.5	.40	12.0	840	110	15
NOV 18...	1045	9860	43	48	6.7	-1.0	1.0	.40	12.6	170	K4	17
DEC 08...	1100	25400	42	38	6.4	.5	.0	.30	14.2	1000	K18	14
JAN 12...	0930	6400	70	70	6.6	-23.0	.0	.60	14.5	K19	36	22
FEB 17...	1100	19200	53	45	6.4	.5	12.0	.40	13.4	200	K20	18
MAR 09...	1200	14400	46	43	6.7	3.0	1.0	.80	13.9	200	K20	17
APR 14...	1130	25300	40	38	6.5	6.0	6.5	1.6	12.8	840	K5	13
MAY 26...	1300	12400	45	48	6.8	28.0	17.0	.75	10.2	K100	195	16
JUN 23...	1030	13900	45	43	6.8	21.0	19.0	1.2	9.1	--	390	17
JUL 21...	1030	9760	49	52	6.9	20.5	21.0	2.0	8.9	180	250	18
AUG 10...	1015	13500	45	44	6.8	22.5	21.5	2.0	9.4	26	64	17
SEP 17...	1000	7300	61	59	6.9	17.5	18.0	1.0	9.3	K1600	100	19

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

01036390 PENOBSCOT RIVER AT EDDINGTON, ME--Continued

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DATE	HARD- NESS NONCAR- BONATE (MG/L AS CAC03)	CALCIUM DIS- SOLVED (MG/L AS CA)	MAGNE- SIUM, DIS- SOLVED (MG/L AS MG)	SODIUM, DIS- SOLVED (MG/L AS NA)	POTAS- SIUM, DIS- SOLVED (MG/L AS K)	ALKA- 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)
OCT 28...	3.0	4.3	1.0	2.5	.6	12	7.2	2.9	<.1	3.7	48	30
NOV 18...	2.0	5.0	1.1	2.3	.5	15	6.7	2.7	.1	4.0	50	32
DEC 08...	.00	4.0	1.0	2.1	.4	19	5.1	2.1	.1	4.4	43	31
JAN 12...	10	6.2	1.6	4.5	.7	12	7.8	5.3	<.1	5.0	57	39
FEB 17...	12	4.7	1.4	2.3	.5	6.0	6.7	3.2	<.1	4.1	46	28
MAR 09...	6.0	4.8	1.2	2.5	.5	11	6.1	2.4	<.1	4.1	40	29
APR 14...	.00	4.0	.7	1.7	.5	17	5.1	1.9	<.1	3.5	48	28
MAY 26...	11	4.6	1.0	2.1	.4	5.0	5.9	2.5	<.1	2.5	41	22
JUN 23...	10	5.0	1.1	3.0	.5	7.0	5.5	2.9	--	3.5	33	30
JUL 21...	5.0	5.2	1.3	2.6	.5	13	7.2	2.5	<.1	3.0	55	31
AUG 10...	.00	5.3	1.0	2.2	.5	22	4.1	2.1	<.1	3.7	--	33
SEP 17...	6.0	5.3	1.3	3.8	.5	13	6.1	3.6	<.1	2.9	51	32

DATE	SOLIDS, DIS- SOLVED (TONS PER AC-FT)	SOLIDS, DIS- SOLVED (TONS PER DAY)	NITRO- GEN, NO2+NO3 TOTAL (MG/L AS N)	NITRO- GEN, NO2+NO3 DIS- SOLVED (MG/L AS N)	NITRO- GEN, AMMONIA TOTAL (MG/L AS N)	NITRO- GEN, AMMONIA DIS- SOLVED (MG/L AS N)	NITRO- GEN,AM- MONIA + ORGANIC TOTAL (MG/L AS N)	NITRO- GEN,AM- MONIA + ORGANIC DIS- SOLVED (MG/L AS N)	NITRO- GEN, TOTAL (MG/L AS N)	NITRO- GEN DIS- SOLVED (MG/L AS N)	PHOS- PHORUS, TOTAL (MG/L AS P)	PHOS- PHORUS, DIS- SOLVED (MG/L AS P)
OCT 28...	.07	2180	.06	.07	.030	.040	.43	.43	.49	.50	.040	.010
NOV 18...	.07	1330	.09	.11	.000	.030	.61	.30	.70	.41	.010	.010
DEC 08...	.06	2950	.10	.10	.030	.020	.22	.21	.32	.31	.010	<.010
JAN 12...	.08	985	.15	.14	.070	.060	.24	.30	.39	.44	.030	.030
FEB 17...	.06	2390	.18	.20	.060	.040	.17	.33	.35	.53	.030	<.010
MAR 09...	.05	1560	.14	.12	.040	.030	.23	.20	.37	.32	.070	<.010
APR 14...	.07	3280	.09	.10	.020	.030	.38	.22	.47	.32	.020	<.010
MAY 26...	.06	1370	.08	.03	.020	.030	1.70	.28	1.8	.31	.010	<.010
JUN 23...	.04	1240	.13	.13	.040	.050	.56	.32	.69	.45	.030	.040
JUL 21...	.07	1450	.17	.15	.040	.030	.37	.20	.54	.35	.010	<.010
AUG 10...	.04	1200	.11	.13	.050	.050	.40	.33	.51	.46	.030	.010
SEP 17...	.07	1010	.07	.07	.030	.040	.37	.36	.44	.43	.030	.010

01036390 PENOBSCOT RIVER AT EDDINGTON, ME--Continued

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DATE	ALUM- INUM, TOTAL RECOV- ERABLE (UG/L AS AL)	ARSENIC TOTAL (UG/L AS AS)	ARSENIC DIS- SOLVED (UG/L AS AS)	BARIUM, TOTAL RECOV- ERABLE (UG/L AS BA)	BARIUM, DIS- SOLVED (UG/L AS BA)	CADMIUM TOTAL RECOV- ERABLE (UG/L AS CD)	CADMIUM DIS- SOLVED (UG/L AS CD)	CHRO- MIUM, TOTAL RECOV- ERABLE (UG/L AS CR)	CHRO- MIUM, DIS- SOLVED (UG/L AS CR)	COBALT, TOTAL RECOV- ERABLE (UG/L AS CO)
NOV 18...	--	1	1	<50	10	0	1	20	10	0
FEB 17...	--	0	0	<50	100	1	0	10	<10	1
MAY 26...	--	1	2	100	9	1	1	10	10	1
AUG 10...	4	1	1	100	7	2	2	20	<10	<1

DATE	COBALT, DIS- SOLVED (UG/L AS CO)	COPPER, TOTAL RECOV- ERABLE (UG/L AS CU)	COPPER, DIS- SOLVED (UG/L AS CU)	IRON, TOTAL RECOV- ERABLE (UG/L AS FE)	IRON, DIS- SOLVED (UG/L AS FE)	LEAD, TOTAL RECOV- ERABLE (UG/L AS PB)	LEAD, DIS- SOLVED (UG/L AS PB)	MANGA- NESE, TOTAL RECOV- ERABLE (UG/L AS MN)	MANGA- NESE, DIS- SOLVED (UG/L AS MN)	MERCURY TOTAL RECOV- ERABLE (UG/L AS HG)
NOV 18...	0	3	2	280	110	5	1	20	10	<.1
FEB 17...	0	3	2	230	60	3	0	50	30	.3
MAY 26...	0	5	2	260	90	1	0	20	10	.2
AUG 10...	<1	4	1	380	120	6	<1	40	9	.1

DATE	MERCURY DIS- SOLVED (UG/L AS HG)	NICKEL, TOTAL RECOV- ERABLE (UG/L AS NI)	NICKEL, DIS- SOLVED (UG/L AS NI)	SELE- NIUM, TOTAL (UG/L AS SE)	SELE- NIUM, DIS- SOLVED (UG/L AS SE)	SILVER, TOTAL RECOV- ERABLE (UG/L AS AG)	SILVER, DIS- SOLVED (UG/L AS AG)	ZINC, TOTAL RECOV- ERABLE (UG/L AS ZN)	ZINC, DIS- SOLVED (UG/L AS ZN)
NOV 18...	<.1	4	0	0	0	0	0	20	40
FEB 17...	.1	4	0	0	0	1	0	10	<10
MAY 26...	<.1	11	0	0	0	0	0	30	<4
AUG 10...	<.1	3	3	<1	<1	<1	<1	30	4

01036390 PENOBSCOT RIVER AT EDDINGTON, ME--Continued

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DATE	CARBON, ORGANIC TOTAL (MG/L AS C)	CARBON, ORGANIC DIS- SOLVED (MG/L AS C)	CARBON, ORGANIC SUS- PENDED TOTAL (MG/L AS C)	PHYTO- PLANK- TON, TOTAL (CFLLS PER ML)	SEDI- MENT, SUS- PENDED (MG/L)	SEDI- MENT, DIS- CHARGE, SUS- PENDED (T/DAY)	SED. SUSP. SIEVE DIAM. % FINER THAN .062 MM
OCT 28...	12	--	--	--	35	1590	78
NOV 18...	--	--	--	430	5	133	100
DEC 08...	8.8	--	--	--	--	--	--
JAN 12...	8.9	--	--	--	1	17	100
FEB 17...	--	8.8	.4	--	9	467	45
MAR 09...	6.6	--	--	90	3	117	--
APR 14...	8.7	--	--	--	9	615	74
MAY 26...	--	8.9	.6	1500	7	234	60
JUN 23...	12	--	--	840	4	150	93
JUL 21...	10	--	--	91	5	132	86
AUG 10...	--	11	--	1800	1	36	100
SEP 17...	6.1	--	--	84	1	20	100

RADIOCHEMICAL ANALYSES, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DATE	GROSS ALPHA, DIS- SOLVED (PCI/L AS U-NAT)	GROSS ALPHA, DIS- SOLVED (UG/L AS U-NAT)	GROSS ALPHA, SUSP. TOTAL (PCI/L AS U-NAT)	GROSS ALPHA, SUSP. TOTAL (UG/L AS U-NAT)	GROSS BETA, DIS- SOLVED (PCI/L AS CS-137)	GROSS BETA, DIS- SOLVED (PCI/L AS SR/ YT-90)	GROSS BETA, SUSP. TOTAL (PCI/L AS CS-137)	GROSS BETA, SUSP. TOTAL (PCI/L AS SR/ YT-90)	RADIUM 226, DIS- SOLVED, RADON METHOD (PCI/L)	URANIUM DIS- SOLVED, EXTRAC- TION (UG/L)
OCT 28...	.8	1.2	.3	.4	2.2	2.1	.4	.4	.03	.05
MAY 26...	.7	<1.0	.3	<.4	1.7	1.6	<.4	<.4	.05	.30

01036390 PENOBSCOT RIVER AT EDDINGTON, ME--Continued

PHYTOPLANKTON ANALYSES, OCTOBER 1980 TO SEPTEMBER 1981

DATE TIME	NOV 18.80 1045	MAR 9.81 1200	MAY 26.81 1300	JUN 23.81 1030
TOTAL CELLS/ML	430	90	1500	840
DIVERSITY: DIVISION	0.4	1.4	1.4	1.4
..CLASS	0.4	1.4	1.4	1.4
...ORDER	1.0	1.4	1.6	1.8
...FAMILY	1.0	1.4	1.8	1.9
....GFNUS	1.0	1.4	1.8	1.9

ORGANISM	CELLS /ML	PER- CENT	CELLS /ML	PER- CENT	CELLS /ML	PER- CENT	CELLS /ML	PER- CENT
CHLOROPHYTA (GREEN ALGAE)								
..CHLOROPHYCEAE								
...CHLOROCOCCALES								
....CHARACIACEAE								
....SCHROEDERIA	--	-	--	-	--	-	--	-
...MICRACTINIACEAE								
....MICRACTINIUM	26	6	--	-	400#	27	--	-
...OOCYSTACEAE								
....ANKISTRODESMUS	--	-	--	-	--	-	13	2
...SCENEDESMACEAE								
....CRUCIGENIA	--	-	--	-	--	-	--	-
....SCENEDESMUS	--	-	--	-	52	4	52	6
....TETRASTRUM	--	-	52#	57	--	-	--	-
..TETRASPORALES								
...PALMELLACEAE								
....SPHAEROCYSTIS	--	-	--	-	--	-	410#	49
..VOLVOCALES								
...CHLAMYDOMONADACEAE								
....CHLAMYDOMONAS	13	3	--	-	--	-	--	-
CHRYSOPHYTA								
..BACILLARIOPHYCEAE								
...CENTRALES								
....COSCINODISACEAE								
....CYCLOTELLA	--	-	--	-	52	4	26	3
....MELOSIRA	--	-	--	-	--	-	--	-
...PENNALES								
....CYMBELLACEAE								
....CYMBELLA	--	-	--	-	--	-	13	2
...FRAGILARIACEAE								
....ASTERIONELLA	--	-	26#	29	--	-	--	-
....FRAGILARIA	--	-	--	-	--	-	78	9
....SYNEDRA	--	-	--	-	160	11	--	-
...NAVICULACEAE								
....NAVICULA	--	-	--	-	--	-	--	-
...NITZSCHACEAE								
....NITZSCHIA	--	-	--	-	39	3	--	-
CYANOPHYTA (BLUE-GREEN ALGAE)								
..CYANOPHYCEAE								
...CHROOCOCCALES								
....CHROOCOCCACEAE								
....AGMENELLUM	--	-	--	-	--	-	--	-
....ANACYSTIS	52	12	13	14	760#	52	250#	29
...HORMOGONALES								
....OSCILLATORIACEAE								
....OSCILLATORIA	340#	79	--	-	--	-	--	-

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

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

01036390 PENOBSCOT RIVER AT EDDINGTON, ME--Continued

PHYTOPLANKTON ANALYSES, OCTOBER 1980 TO SEPTEMBER 1981

DATE TIME	JUL 21,81 1030	AUG 10,81 1015	SEP 17,81 1000
TOTAL CELLS/ML	91	1800	84
DIVERSITY: DIVISION	0.6	1.4	0.0
..CLASS	0.6	1.4	0.0
..ORDER	0.6	1.9	0.7
...FAMILY	1.4	2.1	1.3
....GENUS	1.4	2.1	1.3

ORGANISM	CELLS /ML	PER- CENT	CELLS /ML	PER- CENT	CELLS /ML	PER- CENT
CHLOROPHYTA (GREEN ALGAE)						
..CHLOROPHYCEAE						
...CHLOROCOCCALES						
...CHARACTACEAE						
....SCHROEDERIA	26#	29	--	-	--	-
...MICRACTINIACEAE						
....MICRACTINIUM	--	-	--	-	--	-
...OOCYSTACEAE						
....ANKISTRODESMUS	--	-	--	-	14#	17
...SCENEDESMACEAE						
....CRUCIGENIA	--	-	160	9	--	-
....SCENEDESMUS	52#	57	--	-	56#	67
....TETRASTRUM	--	-	--	-	--	-
..TETRASPORALES						
...PALMELLACEAE						
....SPHAEROCYSTIS	--	-	--	-	14#	17
..VOLVOCALES						
...CHLAMYDOMONADACEAE						
....CHLAMYDOMONAS	--	-	96	5	--	-
CHRYSOPHYTA						
..BACILLARIOPHYCEAE						
...CENTRALES						
...COSCINODISCACEAE						
....CYCLOTELLA	--	-	--	-	--	-
....MELOSTRA	--	-	410#	23	--	-
..PENNALES						
...CYMBELLACEAE						
....CYMBELLA	--	-	55	3	--	-
...FRAGILARIACEAE						
....ASTERIONELLA	--	-	--	-	--	-
....FRAGILARIA	--	-	--	-	--	-
....SYNEDRA	--	-	41	2	--	-
...NAVICULACEAE						
....NAVICULA	--	-	140	8	--	-
...NITZSCHACEAE						
....NITZSCHIA	13	14	--	-	--	-
CYANOPHYTA (BLUE-GREEN ALGAE)						
..CYANOPHYCEAE						
...CHROOCOCCALES						
...CHROOCOCCACEAE						
....AGMENELLUM	--	-	880#	49	--	-
....ANACYSTIS	--	-	--	-	--	-
...HORMOGONALES						
...OSCILLATORIACEAE						
....OSCILLATORIA	--	-	--	-	--	-

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

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

01036390 PENOBSCOT RIVER AT EDDINGTON, ME--Continued

SPECIFIC CONDUCTANCE (MICROMHOS/CM AT 25 DEG. C), WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
OCTOBER			NOVEMBER			DECEMBER			JANUARY			
1	---	---	---	54	53	54	47	46	46	---	---	---
2	---	---	---	55	54	55	46	46	46	---	---	---
3	---	---	---	---	---	---	46	45	46	69	68	68
4	---	---	---	---	---	---	47	46	47	71	68	69
5	---	---	---	---	---	---	47	46	47	71	69	70
6	---	---	---	---	---	---	47	46	47	71	70	70
7	---	---	---	---	---	---	46	45	46	---	---	---
8	56	56	56	---	---	---	46	45	46	---	---	---
9	56	56	56	---	---	---	47	46	46	---	---	---
10	57	56	57	---	---	---	47	46	47	---	---	---
11	58	57	58	---	---	---	48	47	48	---	---	---
12	59	57	58	---	---	---	49	48	49	---	---	---
13	59	58	58	---	---	---	49	48	49	77	75	76
14	58	57	58	---	---	---	49	49	49	76	74	75
15	57	56	56	---	---	---	52	49	51	75	75	75
16	57	56	56	---	---	---	53	52	52	76	74	75
17	57	56	56	---	---	---	54	53	54	75	74	74
18	57	56	56	---	---	---	54	54	54	78	75	77
19	58	57	57	53	52	53	55	54	54	78	77	78
20	58	57	57	55	53	54	55	54	55	77	75	76
21	58	57	57	58	54	56	57	55	56	79	76	77
22	59	58	58	56	55	55	58	57	57	78	68	76
23	59	58	58	57	55	56	58	58	58	77	65	69
24	60	58	58	56	56	56	58	57	58	77	70	73
25	62	60	60	56	55	55	57	56	57	70	68	69
26	62	58	60	54	52	53	---	---	---	77	70	75
27	59	56	58	52	49	50	---	---	---	78	76	77
28	56	54	55	49	47	48	---	---	---	79	77	77
29	55	54	54	47	46	46	---	---	---	79	77	79
30	55	54	54	46	46	46	---	---	---	80	77	78
31	54	53	54	---	---	---	---	---	---	80	78	79
MONTH	62	53	57	58	46	53	58	45	51	80	65	74

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
FEBRUARY				MARCH			APRIL			MAY		
1	80	78	80	48	47	47	59	56	57	46	45	46
2	81	79	80	---	---	---	56	53	54	46	45	45
3	86	72	78	---	---	---	53	50	51	46	45	45
4	72	69	70	---	---	---	49	48	48	47	43	45
5	73	67	69	---	---	---	48	46	47	45	44	44
6	70	67	68	---	---	---	---	---	---	46	45	45
7	69	67	67	---	---	---	---	---	---	47	46	46
8	66	65	66	---	---	---	---	---	---	47	46	47
9	65	65	65	---	---	---	---	---	---	47	46	47
10	65	64	65	---	---	---	---	---	---	48	47	47
11	68	65	66	---	---	---	---	---	---	49	47	47
12	---	---	---	---	---	---	---	---	---	51	48	49
13	---	---	---	---	---	---	---	---	---	---	---	---
14	---	---	---	---	---	---	---	---	---	---	---	---
15	---	---	---	---	---	---	43	43	43	---	---	---
16	---	---	---	---	---	---	44	43	43	---	---	---
17	---	---	---	59	57	58	45	44	44	---	---	---
18	56	55	55	67	60	64	---	---	---	---	---	---
19	56	56	56	66	59	62	---	---	---	---	---	---
20	56	56	56	58	57	58	---	---	---	---	---	---
21	56	55	56	60	57	58	---	---	---	---	---	---
22	55	53	54	61	59	60	---	---	---	---	---	---
23	53	49	51	60	57	59	---	---	---	43	42	42
24	49	47	48	59	58	59	---	---	---	44	43	43
25	47	46	47	59	58	59	45	44	45	---	---	---
26	47	46	46	60	59	59	45	44	45	45	44	44
27	46	45	46	59	58	59	46	45	45	47	45	45
28	48	46	47	59	58	59	46	45	46	47	44	45
29	---	---	---	59	58	59	46	45	45	47	45	46
30	---	---	---	60	59	60	46	45	45	48	46	47
31	---	---	---	60	59	60	---	---	---	47	46	47
MONTH	86	45	61	67	47	59	59	43	47	51	42	46

01036390 PENOBSCOT RIVER AT EDDINGTON, ME--Continued

SPECIFIC CONDUCTANCE (MICROMHOS/CM AT 25 DEG. C), WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
	JUNE			JULY			AUGUST			SEPTEMBER		
1	47	46	47	47	44	45	52	47	49	51	50	50
2	46	45	45	48	45	46	53	50	51	51	51	51
3	45	44	45	49	46	47	57	53	55	54	51	53
4	46	45	45	49	47	47	60	56	58	56	53	55
5	47	44	45	48	48	48	59	57	58	58	56	57
6	46	45	46	50	48	48	62	59	61	58	57	57
7	47	45	46	50	49	50	59	52	57	67	51	57
8	47	46	46	51	48	50	52	49	51	53	51	52
9	46	45	45	52	49	50	49	45	47	54	51	53
10	46	45	46	53	50	51	45	43	44	54	51	53
11	---	---	---	55	51	53	46	43	44	54	50	53
12	---	---	---	55	52	53	48	45	48	52	49	50
13	---	---	---	53	51	52	49	47	48	54	51	53
14	---	---	---	52	50	52	52	48	50	56	54	55
15	---	---	---	53	51	52	52	49	51	56	53	55
16	---	---	---	52	47	50	52	50	51	56	55	56
17	---	---	---	48	46	47	51	46	48	61	56	57
18	---	---	---	48	46	47	46	43	44	62	57	59
19	---	---	---	48	46	46	43	42	42	58	51	55
20	---	---	---	48	47	47	43	42	42	51	48	50
21	---	---	---	49	47	48	43	42	43	48	46	47
22	---	---	---	49	47	48	42	42	42	46	45	46
23	---	---	---	49	47	48	42	41	42	46	45	45
24	---	---	---	49	47	48	43	42	42	46	41	44
25	45	43	44	50	46	48	44	43	43	41	30	35
26	43	43	43	51	47	49	46	44	45	30	28	29
27	43	43	43	51	48	49	45	44	44	31	29	30
28	43	42	43	52	49	50	47	45	46	33	31	32
29	44	43	44	51	50	51	49	46	47	34	33	34
30	45	44	44	52	50	51	50	47	48	35	34	35
31	---	---	---	52	50	51	51	48	49	---	---	---
MONTH	47	42	45	55	44	49	62	41	48	67	28	49
Period	86	28	53									

PH (STANDARD UNITS), WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

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

01036390 PENOBSCOT RIVER AT EDDINGTON, ME--Continued

TEMPERATURE, WATER (DEG. C), WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
OCTOBER			NOVEMBER			DECEMBER			JANUARY			
1	---	---	---	5.0	4.5	4.5	.5	.5	.5	---	---	---
2	---	---	---	4.5	3.5	4.0	.5	.0	.5	---	---	---
3	---	---	---	---	---	---	1.5	.5	1.0	.5	.5	.5
4	---	---	---	---	---	---	1.0	.0	.5	.5	.0	.0
5	---	---	---	---	---	---	.0	.0	.0	.5	.0	.5
6	---	---	---	---	---	---	.0	.0	.0	.5	.5	.5
7	---	---	---	---	---	---	.0	.0	.0	---	---	---
8	12.0	11.5	11.5	---	---	---	.0	.0	.0	---	---	---
9	12.0	11.0	11.5	---	---	---	.5	.0	.0	---	---	---
10	11.0	10.5	10.5	---	---	---	.0	.0	.0	---	---	---
11	10.5	10.0	10.0	---	---	---	.0	.0	.0	---	---	---
12	10.0	10.0	10.0	---	---	---	.0	.0	.0	---	---	---
13	10.0	9.0	9.5	---	---	---	.0	.0	.0	.0	.0	.0
14	9.0	8.0	8.5	---	---	---	.0	.0	.0	.0	.0	.0
15	8.0	7.5	7.5	---	---	---	.0	.0	.0	.0	.0	.0
16	7.5	7.0	7.5	---	---	---	.0	.0	.0	.0	.0	.0
17	8.0	7.0	7.5	---	---	---	.0	.0	.0	.0	.0	.0
18	8.5	7.5	8.0	---	---	---	.0	.0	.0	.0	.0	.0
19	9.5	8.5	9.0	.5	.0	.0	.0	.0	.0	.0	.0	.0
20	9.5	9.0	9.5	.0	.0	.0	.0	.0	.0	.0	.0	.0
21	9.0	8.5	9.0	.5	.0	.0	.0	.0	.0	.0	.0	.0
22	8.5	8.0	8.5	.5	.0	.5	.0	.0	.0	.0	.0	.0
23	8.0	7.0	7.5	.5	.0	.5	.0	.0	.0	.0	.0	.0
24	7.5	6.5	7.0	1.0	.0	.5	.0	.0	.0	.0	.0	.0
25	7.0	6.0	6.5	1.5	1.0	1.5	.0	.0	.0	.0	.0	.0
26	7.0	7.0	7.0	1.5	1.0	1.5	---	---	---	.0	.0	.0
27	7.0	6.5	6.5	1.0	.0	.5	---	---	---	.0	.0	.0
28	6.5	5.5	6.0	.0	.0	.0	---	---	---	.0	.0	.0
29	5.5	5.0	5.5	.5	.0	.5	---	---	---	.0	.0	.0
30	5.0	4.5	5.0	.5	.5	.5	---	---	---	.0	.0	.0
31	5.0	4.5	5.0	---	---	---	---	---	---	.0	.0	.0
MONTH	12.0	4.5	8.0	5.0	.0	1.0	1.5	.0	.0	.5	.0	.0
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
FEBRUARY			MARCH			APRIL			MAY			
1	.0	.0	.0	.5	.5	.5	6.0	5.0	5.5	10.5	9.5	10.0
2	.0	.0	.0	---	---	---	4.5	4.0	4.5	11.0	10.0	10.5
3	.0	.0	.0	---	---	---	4.0	3.5	4.0	11.5	10.5	11.0
4	.0	.0	.0	---	---	---	4.5	4.0	4.0	11.5	11.0	11.0
5	.0	.0	.0	---	---	---	5.0	4.0	4.5	13.0	11.0	12.0
6	.0	.0	.0	---	---	---	---	---	---	14.0	13.0	13.5
7	.0	.0	.0	---	---	---	---	---	---	14.0	13.0	13.5
8	.0	.0	.0	---	---	---	---	---	---	14.0	12.5	13.5
9	.5	.0	.0	---	---	---	---	---	---	14.5	13.0	13.5
10	.5	.5	.5	---	---	---	---	---	---	15.0	13.0	14.0
11	.5	.0	.0	---	---	---	---	---	---	15.5	14.0	14.5
12	---	---	---	---	---	---	---	---	---	15.5	14.5	15.0
13	---	---	---	---	---	---	---	---	---	---	---	---
14	---	---	---	---	---	---	---	---	---	---	---	---
15	---	---	---	---	---	---	6.5	5.0	6.0	---	---	---
16	---	---	---	---	---	---	5.0	4.5	4.5	---	---	---
17	---	---	---	---	---	---	5.0	4.5	4.5	---	---	---
18	.5	.5	.5	.0	.0	.0	---	---	---	---	---	---
19	.5	.5	.5	.5	.0	.0	---	---	---	---	---	---
20	.5	.5	.5	.5	.0	.5	---	---	---	---	---	---
21	.5	.5	.5	.5	.5	.5	---	---	---	---	---	---
22	.5	.5	.5	1.5	.0	.5	---	---	---	---	---	---
23	.5	.5	.5	1.5	.5	1.0	---	---	---	13.0	12.5	13.0
24	.5	.5	.5	3.5	.5	2.0	---	---	---	14.0	12.5	13.0
25	.5	.5	.5	4.5	2.5	3.5	7.0	6.0	6.5	---	---	---
26	.5	.5	.5	5.0	3.0	4.0	7.0	6.0	6.5	17.0	15.5	16.5
27	.5	.5	.5	4.5	3.5	4.0	9.0	7.0	8.0	18.0	16.5	17.5
28	.5	.0	.5	4.0	3.0	3.5	10.0	8.5	9.5	19.0	17.5	18.5
29	---	---	---	5.0	3.5	4.0	9.5	9.0	9.5	19.0	18.5	18.5
30	---	---	---	6.5	4.5	5.5	10.0	9.0	9.5	19.0	18.0	18.5
31	---	---	---	6.5	6.0	6.5	---	---	---	19.0	18.0	18.5
MONTH	.5	.0	.5	6.5	.0	2.5	10.0	3.5	6.0	19.0	9.5	14.5

01036390 PENOBSCOT RIVER AT EDDINGTON, ME--Continued

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
	JUNE			JULY			AUGUST			SEPTEMBER		
1	18.0	17.0	17.5	22.5	21.0	22.0	24.0	21.5	22.5	20.5	20.0	20.5
2	18.0	17.0	17.5	23.5	21.5	22.5	24.5	22.5	23.5	20.5	19.5	20.0
3	18.0	17.0	17.5	25.0	23.0	24.0	25.0	23.5	24.0	20.5	19.5	20.0
4	18.5	17.5	18.0	25.0	24.0	24.5	25.5	24.0	24.5	21.0	19.5	20.5
5	20.0	18.0	19.0	24.5	24.0	24.0	25.0	24.5	24.5	21.0	20.0	20.5
6	20.0	19.5	19.5	24.5	23.0	23.5	24.5	24.0	24.0	21.0	20.5	20.5
7	20.0	19.0	19.5	25.5	23.5	24.5	23.5	22.5	23.0	21.0	20.0	20.5
8	19.5	18.5	19.0	26.0	24.0	25.0	22.5	22.0	22.0	20.5	20.0	20.0
9	19.0	18.0	18.5	25.5	24.5	25.0	22.5	22.0	22.0	20.0	19.5	20.0
10	19.0	17.5	18.0	25.0	24.0	24.5	22.0	21.5	21.5	19.5	18.5	19.0
11	---	---	---	25.5	24.0	24.5	22.5	21.0	21.5	19.0	18.0	18.5
12	---	---	---	25.0	23.5	24.0	23.5	22.0	22.5	18.5	18.0	18.0
13	---	---	---	24.0	23.0	23.5	23.0	22.5	22.5	18.5	18.0	18.0
14	---	---	---	23.0	22.5	22.5	22.5	21.0	22.0	19.0	18.0	18.5
15	---	---	---	22.5	21.0	21.5	22.0	21.0	21.0	19.5	18.5	19.0
16	---	---	---	22.5	21.0	21.5	21.0	20.5	20.5	19.0	18.5	18.5
17	---	---	---	23.0	21.0	22.0	21.0	20.5	20.5	18.5	18.0	18.5
18	---	---	---	23.5	21.5	22.5	20.5	20.0	20.0	18.5	18.0	18.0
19	---	---	---	23.0	22.5	22.5	20.5	19.5	20.0	18.0	16.0	17.0
20	---	---	---	22.5	21.5	21.5	20.5	20.0	20.0	16.0	15.0	15.5
21	---	---	---	21.5	21.0	21.0	21.0	20.0	20.5	15.5	14.5	15.0
22	---	---	---	22.5	20.5	21.5	22.0	20.5	21.0	14.5	13.5	14.0
23	---	---	---	23.0	21.5	22.0	22.5	21.5	22.0	13.5	13.0	13.0
24	---	---	---	23.5	21.5	22.5	22.5	21.5	22.0	12.5	12.0	12.5
25	19.0	19.0	19.0	23.5	22.0	22.5	21.5	20.5	21.0	12.0	11.5	11.5
26	19.5	18.5	19.0	23.5	22.0	22.5	21.5	20.0	20.5	12.0	10.5	11.0
27	19.5	18.5	19.0	23.5	22.0	22.5	20.5	20.0	20.5	12.0	11.5	11.5
28	20.5	19.0	19.5	23.0	21.5	22.0	21.0	19.5	20.0	12.5	12.0	12.0
29	21.5	20.0	20.5	22.0	21.0	21.5	21.5	19.5	20.5	12.0	11.5	11.5
30	22.0	20.5	21.0	21.5	20.5	21.0	21.5	20.0	21.0	11.5	10.5	10.5
31	---	---	---	23.0	20.5	21.5	21.0	20.5	21.0	---	---	---
MONTH	22.0	17.0	19.0	26.0	20.5	23.0	25.5	19.5	21.5	21.0	10.5	17.0
Period	26.0	.0	10.5									

OXYGEN, DISSOLVED (DO), MG/L, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
OCTOBER			NOVEMBER			DECEMBER			JANUARY			
1	---	---	---	11.6	11.4	11.5	13.9	13.8	13.9	---	---	---
2	---	---	---	12.0	11.6	11.8	14.0	13.6	13.9	---	---	---
3	---	---	---	---	---	---	13.5	13.1	13.2	13.0	12.9	13.0
4	---	---	---	---	---	---	14.3	13.4	13.8	13.2	13.0	13.1
5	---	---	---	---	---	---	14.3	14.2	14.3	13.4	13.1	13.2
6	---	---	---	---	---	---	14.3	14.2	14.2	13.3	13.1	13.2
7	---	---	---	---	---	---	14.3	14.2	14.2	---	---	---
8	10.2	9.9	10.1	---	---	---	14.3	13.8	14.1	---	---	---
9	10.1	9.9	10.0	---	---	---	14.0	13.8	13.9	---	---	---
10	10.5	10.2	10.3	---	---	---	14.0	13.7	13.9	---	---	---
11	10.4	10.2	10.3	---	---	---	14.0	13.7	13.8	---	---	---
12	10.4	10.2	10.3	---	---	---	13.8	13.6	13.7	---	---	---
13	10.8	10.3	10.6	---	---	---	13.5	13.3	13.5	13.9	13.5	13.7
14	11.3	10.8	11.0	---	---	---	13.5	13.3	13.4	13.8	13.6	13.7
15	11.6	11.4	11.5	---	---	---	13.6	13.4	13.5	13.7	13.5	13.6
16	11.7	11.4	11.5	---	---	---	13.5	13.0	13.2	13.7	13.3	13.5
17	11.6	11.2	11.4	---	---	---	13.1	12.9	13.0	13.5	13.4	13.4
18	11.2	10.7	10.9	---	---	---	13.2	13.0	13.1	13.5	13.4	13.5
19	10.7	10.5	10.6	13.1	12.7	12.9	13.3	13.0	13.1	13.6	13.2	13.4
20	10.6	10.4	10.5	13.2	13.0	13.1	13.5	13.3	13.4	---	---	---
21	10.8	10.5	10.7	13.2	12.7	12.9	13.5	13.3	13.4	13.4	13.3	13.4
22	11.0	10.7	10.9	13.1	12.8	12.9	13.4	13.3	13.4	13.5	13.3	13.4
23	11.4	11.0	11.3	13.2	12.8	13.0	13.3	13.1	13.2	---	---	---
24	11.7	11.3	11.5	13.1	12.6	12.8	13.1	12.6	12.9	---	---	---
25	11.6	11.0	11.4	12.7	12.3	12.5	13.1	12.8	12.9	---	---	---
26	11.2	10.9	10.9	13.8	12.5	13.1	---	---	---	---	---	---
27	11.7	11.1	11.4	14.4	13.8	14.0	---	---	---	---	---	---
28	11.7	11.4	11.6	14.0	13.6	13.8	---	---	---	---	---	---
29	11.7	11.5	11.6	13.6	13.3	13.4	---	---	---	---	---	---
30	11.8	11.7	11.7	13.8	13.4	13.7	---	---	---	---	---	---
31	11.7	11.4	11.5	---	---	---	---	---	---	---	---	---
MONTH	11.8	9.9	11.0	14.4	11.4	13.0	14.3	12.6	13.6	13.9	12.9	13.4

01036390 PENOBSCOT RIVER AT EDDINGTON, ME--Continued

OXYGEN, DISSOLVED (DO), MG/L, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
FEBRUARY				MARCH			APRIL			MAY		
1	---	---	---	14.0	13.8	13.9	12.9	12.3	12.7	11.4	11.2	11.3
2	---	---	---	---	---	---	13.0	12.8	12.9	11.4	11.2	11.3
3	---	---	---	---	---	---	13.6	13.1	13.4	11.4	11.1	11.2
4	---	---	---	---	---	---	13.7	13.5	13.6	11.2	11.1	11.1
5	---	---	---	---	---	---	13.6	13.3	13.5	11.2	10.5	10.9
6	14.4	14.1	14.1	---	---	---	---	---	---	10.6	10.1	10.4
7	14.3	13.8	14.0	---	---	---	---	---	---	10.4	10.2	10.3
8	13.9	13.1	13.5	---	---	---	---	---	---	10.7	10.4	10.5
9	13.5	13.1	13.3	---	---	---	---	---	---	10.7	10.4	10.6
10	13.9	13.5	13.7	---	---	---	---	---	---	10.7	10.3	10.6
11	13.6	13.3	13.4	---	---	---	---	---	---	10.4	10.1	10.3
12	---	---	---	---	---	---	---	---	---	10.2	9.9	10.1
13	---	---	---	---	---	---	---	---	---	---	---	---
14	---	---	---	---	---	---	---	---	---	---	---	---
15	---	---	---	---	---	---	13.0	12.4	12.7	---	---	---
16	---	---	---	---	---	---	13.3	13.0	13.2	---	---	---
17	---	---	---	---	---	---	13.2	12.8	13.0	---	---	---
18	13.2	13.1	13.1	13.3	12.9	13.1	---	---	---	---	---	---
19	13.2	13.1	13.2	13.5	13.3	13.4	---	---	---	---	---	---
20	13.2	13.1	13.2	13.6	13.4	13.5	---	---	---	---	---	---
21	13.5	13.3	13.4	14.0	13.5	13.7	---	---	---	---	---	---
22	13.7	12.8	13.5	14.2	13.7	13.9	---	---	---	---	---	---
23	13.8	13.4	13.7	14.2	13.5	13.8	---	---	---	10.8	10.7	10.8
24	---	---	---	13.6	12.9	13.2	---	---	---	10.9	10.5	10.7
25	---	---	---	13.1	12.7	12.9	11.8	11.6	11.6	---	---	---
26	13.9	13.9	13.9	13.1	12.6	12.8	12.0	11.8	11.9	10.0	9.7	9.8
27	14.0	13.9	14.0	12.9	12.5	12.7	11.8	11.4	11.6	9.7	9.5	9.6
28	14.1	13.1	13.9	13.3	12.9	13.1	11.4	11.1	11.3	9.6	9.2	9.4
29	---	---	---	12.9	12.4	12.6	11.2	11.0	11.1	9.4	9.3	9.3
30	---	---	---	12.4	11.8	12.1	11.3	11.1	11.2	9.4	9.2	9.3
31	---	---	---	12.3	11.7	11.9	---	---	---	9.5	9.2	9.3
MONTH	14.4	12.8	13.6	14.2	11.7	13.1	13.7	11.0	12.4	11.4	9.2	10.3

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
JUNE				JULY			AUGUST			SEPTEMBER		
1	10.0	9.6	9.8	9.3	9.0	9.2	9.0	8.5	8.8	9.6	9.4	9.5
2	10.1	9.8	9.9	9.2	8.7	9.0	8.5	8.2	8.4	10.0	9.4	9.7
3	10.0	9.7	9.8	8.9	8.4	8.6	8.3	8.1	8.2	10.0	9.8	9.9
4	9.9	9.5	9.6	8.5	8.2	8.4	---	---	---	9.8	9.6	9.7
5	9.6	9.2	9.4	8.4	8.2	8.3	---	---	---	9.7	9.4	9.5
6	9.3	9.0	9.1	8.5	8.3	8.4	---	---	---	9.6	9.3	9.5
7	9.2	9.0	9.1	8.5	8.3	8.4	---	---	---	9.7	9.4	9.5
8	9.5	9.2	9.4	8.5	8.2	8.4	9.4	9.0	9.3	9.4	9.2	9.3
9	9.4	9.2	9.3	8.4	8.2	8.3	9.4	9.3	9.3	9.4	9.2	9.3
10	9.6	9.4	9.5	8.6	8.3	8.5	9.5	9.3	9.4	9.9	9.1	9.5
11	---	---	---	8.7	8.4	8.5	9.5	9.1	9.3	9.6	9.2	9.4
12	---	---	---	8.8	8.5	8.7	---	---	---	9.8	9.5	9.6
13	---	---	---	8.8	8.4	8.7	---	---	---	9.5	9.3	9.4
14	---	---	---	8.8	8.5	8.7	9.2	8.0	8.7	9.4	9.0	9.2
15	---	---	---	9.1	8.8	9.0	9.3	9.1	9.2	9.3	9.0	9.2
16	---	---	---	9.4	9.1	9.3	9.4	9.2	9.3	9.1	8.8	9.0
17	---	---	---	9.4	9.2	9.3	9.8	9.4	9.5	9.4	8.8	9.1
18	---	---	---	9.3	9.0	9.2	10.1	9.8	10.0	9.5	9.1	9.3
19	---	---	---	9.1	8.9	9.0	10.3	10.1	10.2	9.7	9.2	9.4
20	---	---	---	9.2	8.8	9.0	10.2	9.9	10.1	10.2	9.6	9.9
21	---	---	---	8.9	8.8	8.9	10.0	9.9	10.0	10.5	10.2	10.3
22	---	---	---	9.1	8.8	9.0	10.0	9.7	9.8	10.7	10.5	10.6
23	---	---	---	9.1	8.8	9.0	9.7	9.4	9.5	11.1	10.7	10.9
24	---	---	---	9.1	8.8	9.0	9.5	9.3	9.4	12.0	11.1	11.5
25	9.8	9.6	9.7	9.1	8.7	8.9	9.8	9.6	9.7	12.2	10.8	11.8
26	9.7	9.6	9.6	9.1	8.7	8.9	9.9	9.5	9.7	12.1	11.4	11.8
27	9.9	9.8	9.8	8.9	8.7	8.8	9.7	9.6	9.7	12.0	11.5	11.7
28	9.8	9.5	9.7	9.1	8.4	8.8	9.9	9.6	9.8	11.5	11.3	11.4
29	9.6	9.3	9.5	8.9	8.7	8.8	9.9	9.5	9.7	11.6	11.4	11.5
30	9.4	9.2	9.3	9.0	8.8	8.8	9.8	9.4	9.6	12.0	11.6	11.8
31	---	---	---	8.9	8.7	8.8	9.6	9.4	9.5	---	---	---
MONTH	10.1	9.0	9.5	9.4	8.2	8.8	10.3	8.0	9.4	12.2	8.8	10.1
Period	14.4	8.0	11.2									

Reservoirs in Penobscot River Basin

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

MONTHEND CONTENTS, IN MILLIONS OF CUBIC FEET, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

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, 1980	22041	3298	1257
OCT. 31	22455	3532	1665
NOV. 30	22572	3785	2306
DEC. 31	23944	4374	1638
JAN. 31, 1981	19362	3147	1954
FEB. 28	24153	4190	1808
MAR. 31	23984	4300	1529
APR. 30	38254	5432	1896
MAY 31	40872	5984	2101
JUNE 30	39575	5805	2042
JULY 31	37792	5628	2042
AUG. 31	41313	5567	1984
SEPT. 30	51286	5867	2042

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

01038000 SHEEPSCOT RIVER AT NORTH WHITEFIELD, ME

LOCATION.--Lat 44°13'23", long 69°35'38", Lincoln County, Hydrologic Unit 01050003, on left bank 50 ft (15 m) upstream from highway bridge on State Route 126 at North Whitefield, at mouth of Finn Brook, and 0.8 mi (1.3 km) east of North Whitefield village.

DRAINAGE AREA.--148 mi² (383 km²).

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

Specific conductance: July 1974 to September 1976.

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

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

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

AVERAGE DISCHARGE.--43 years, 246 ft³/s (6.967 m³/s), 22.57 in/yr (573 mm/yr).

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

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

Date	Time	Discharge (ft ³ /s) (m ³ /s)	Gage height (ft) (m)	Date	Time	Discharge (ft ³ /s) (m ³ /s)	Gage height (ft) (m)
Nov. 29	0800	* 1040 29.5	5.11 1.558	Feb. 3	0400	ice jam	* 5.28 1.609

No peaks above base.

Minimum discharge, 24 ft³/s (0.68 m³/s) Oct. 17, gage height, 1.96 ft (0.597 m).

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	28	90	629	110	83	366	209	201	141	110	169	69
2	26	83	592	110	90	357	328	182	124	105	152	65
3	26	77	608	110	520	331	474	174	116	98	137	61
4	41	72	585	105	480	292	386	162	112	91	124	58
5	56	70	486	105	425	268	383	152	116	105	122	56
6	46	67	425	105	380	254	427	145	110	143	132	52
7	38	61	385	105	330	245	423	137	103	130	118	49
8	34	55	345	100	290	237	379	124	94	108	105	48
9	30	56	315	99	250	222	351	114	96	96	96	54
10	31	56	285	97	240	212	326	105	162	88	91	58
11	32	55	260	96	250	201	296	99	124	81	84	55
12	36	64	240	95	833	193	277	99	110	73	80	54
13	37	71	220	94	651	185	249	274	105	72	76	50
14	36	70	205	92	549	170	233	265	98	75	72	48
15	32	69	190	91	507	147	283	249	91	73	72	46
16	29	58	180	90	456	145	246	401	89	68	300	45
17	27	57	170	89	413	131	230	550	86	64	369	44
18	32	68	165	88	390	128	233	423	81	61	287	42
19	46	71	155	87	373	140	233	362	75	61	265	43
20	49	70	150	86	397	109	212	326	73	60	252	45
21	43	69	145	85	525	106	201	293	99	184	230	45
22	39	79	140	84	526	103	184	262	112	316	203	45
23	35	84	140	83	478	101	172	233	159	206	177	80
24	34	85	135	82	451	99	187	201	128	162	155	114
25	39	317	130	81	438	97	203	174	114	148	137	98
26	232	425	130	80	428	94	184	157	172	134	118	78
27	164	303	125	78	447	97	172	143	182	157	107	64
28	128	310	120	77	407	122	162	128	150	164	96	61
29	115	905	120	76	---	159	162	120	134	215	88	61
30	105	728	115	76	---	170	212	120	122	249	81	56
31	97	---	115	78	---	206	---	134	---	195	75	---
TOTAL	1743	4645	8005	2834	11607	5687	8017	6509	3478	3892	4570	1744
MEAN	56.2	155	258	91.4	415	183	267	210	116	126	147	58.1
MAX	232	905	629	110	833	366	474	550	182	316	369	114
MIN	26	55	115	76	83	94	162	99	73	60	72	42
CFSM	.38	1.05	1.74	.62	2.80	1.24	1.80	1.42	.78	.85	.99	.39
IN.	.44	1.17	2.01	.71	2.92	1.43	2.02	1.64	.87	.98	1.15	.44
CAL YR 1980	TOTAL	64746	MEAN 177	MAX 1180	MIN 14	CFSM 1.20	IN 16.27					
WTR YR 1981	TOTAL	62731	MEAN 172	MAX 905	MIN 26	CFSM 1.16	IN 15.77					

01040500 MOOSEHEAD LAKE AT EAST OUTLET, ME

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

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

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

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

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

REMARKS.--Lake is controlled by dams at East and West Outlets originally built prior to 1840. East Outlet partly rebuilt of concrete in 1947-48 with gate sills at elevation 7.0 ft (2.13 m). Remaining wooden section rebuilt of concrete in 1955-56. Lake outlet dredged in 1948 to permit drawing level down to elevation 10.0 ft (3.05 m) at a faster rate than formerly. Capacity, 23,735,000,000 ft³ (672,200,000 m³) between gage heights 10.0 ft (3.05 m) and 17.5 ft (5.33 m). Water is used primarily for power. Some water was diverted through gates in dam at West Outlet; monthly mean diversion, in cubic feet per second, during water year 1981 is given below:

October	30	February	30	June	420
November	30	March	140	July	170
December	30	April	60	August	125
January	25	May	450	September	70

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

EXTREMES FOR CURRENT YEAR.--Maximum gage height observed, 17.88 ft (5.450 m) May 31; minimum observed, 15.30 ft (4.663 m) Feb. 7-11.

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

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 1980 TO SEPTEMBER 1981

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	16.33	17.19	16.66	16.50	15.38	16.12	16.10	17.60	17.82	17.76	17.26	17.35
2	16.34	17.14	16.69	16.48	15.38	16.16	16.20	17.60	17.76	17.76	17.22	17.30
3	16.48	17.14	16.70	16.46	15.40	16.12	16.28	17.60	17.69	17.75	17.20	17.27
4	16.50	17.04	16.88	16.46	15.44	16.12	16.34	17.62	17.66	17.74	17.24	17.25
5	16.65	17.00	16.95	16.46	15.38	16.07	16.38	17.66	17.64	17.74	17.22	17.24
6	16.70	16.90	16.98	16.39	15.36	16.06	16.53	17.66	17.60	17.74	17.30	17.20
7	16.78	16.82	17.00	16.36	15.30	16.06	16.59	17.66	17.68	17.70	17.37	17.16
8	16.82	16.78	17.05	16.30	15.30	16.10	16.62	17.68	17.68	17.66	17.40	17.08
9	16.82	16.73	17.17	16.24	15.30	16.10	16.68	17.68	17.68	17.63	17.40	17.02
10	16.90	16.83	17.07	16.22	15.30	16.10	16.72	17.67	17.70	17.62	17.40	17.03
11	17.00	16.76	17.07	16.20	15.30	16.06	16.82	17.67	17.72	17.60	17.39	17.04
12	17.04	16.76	17.03	16.20	15.43	16.06	16.86	17.67	17.72	17.58	17.37	17.02
13	17.08	16.74	17.02	16.17	15.44	16.04	16.89	17.77	17.71	17.52	17.34	17.02
14	17.09	16.70	17.04	16.08	15.46	16.00	16.89	17.77	17.71	17.54	17.28	17.03
15	17.10	16.70	17.04	16.02	15.54	16.02	17.02	17.77	17.70	17.54	17.22	17.03
16	17.10	16.67	17.04	15.98	15.52	16.04	17.02	17.77	17.68	17.53	17.29	16.96
17	17.12	16.56	17.04	15.92	15.53	16.04	17.06	17.81	17.70	17.52	17.32	16.90
18	17.14	16.54	17.02	15.88	15.54	16.04	17.09	17.80	17.70	17.50	17.42	16.81
19	17.22	16.46	16.92	15.82	15.54	16.06	17.13	17.76	17.68	17.51	17.45	16.74
20	17.26	16.44	16.82	15.70	15.52	16.02	17.20	17.72	17.68	17.50	17.46	16.76
21	17.27	16.38	16.86	15.68	15.61	16.04	17.26	17.72	17.69	17.49	17.47	16.76
22	17.27	16.36	16.84	15.68	15.70	16.04	17.28	17.70	17.70	17.48	17.50	16.70
23	17.25	16.38	16.80	15.68	15.78	16.04	17.30	17.70	17.72	17.46	17.57	16.72
24	17.15	16.40	16.72	15.66	15.87	15.98	17.36	17.69	17.78	17.42	17.59	17.10
25	17.10	16.43	16.72	15.63	15.91	15.98	17.40	17.67	17.78	17.40	17.55	17.50
26	17.06	16.43	16.72	15.60	15.99	15.98	17.40	17.67	17.80	17.38	17.49	17.56
27	17.15	16.50	16.71	15.60	16.03	15.98	17.45	17.64	17.79	17.41	17.43	17.56
28	17.18	16.54	16.70	15.50	16.08	16.00	17.50	17.78	17.78	17.38	17.42	17.68
29	17.19	16.60	16.68	15.49	---	15.98	17.48	17.80	17.78	17.36	17.41	17.68
30	17.21	16.64	16.64	15.42	---	16.03	17.52	17.84	17.76	17.33	17.39	17.68
31	17.20	---	16.58	15.42	---	16.08	---	17.88	---	17.30	17.37	---
MAX	17.27	17.19	17.17	16.50	16.08	16.16	17.52	17.88	17.82	17.76	17.59	17.68
MIN	16.33	16.36	16.58	15.42	15.30	15.98	16.10	17.60	17.60	17.30	17.20	16.70
†	22,766	20,962	20,770	17,053	19,165	19,165	23,800	24,966	24,577	23,089	23,315	24,448
‡	+2,831	-1,804	-192	-3,717	+2,112	0	+4,635	+1,166	-389	-1,488	+226	+1,133

CAL YR 1980. ‡ +289

WTR YR 1981. ‡ +4,513

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

‡ Change in contents, in millions of cubic feet.

01041000 KENNEBEC RIVER AT MOOSEHEAD, ME

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

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

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

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

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

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

AVERAGE DISCHARGE.--62 years, 1,945 ft³/s (55.08 m³/s).

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

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 16,700 ft³/s (473 m³/s) Sept. 25, gage height, 9.76 ft (2.975 m); minimum, 94 ft³/s (2.66 m³/s) May 15, gage height, 2.08 ft (0.634 m).

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	936	1460	724	3380	1620	252	257	601	4560	1020	608	2470
2	1550	1160	447	2510	1140	1200	263	922	4050	1030	496	1840
3	1470	2330	420	1940	1130	1810	263	1090	3500	1030	493	1580
4	1890	2980	419	1940	2330	1810	263	1340	3200	1030	1560	1940
5	1910	2970	488	2470	2430	1790	263	1500	1790	1900	1380	2630
6	1920	2940	395	3310	1590	748	263	1490	819	2110	301	2620
7	1940	2920	396	3290	1580	274	268	1500	823	1880	191	2600
8	1350	2910	845	3250	1580	270	268	1490	822	1880	191	2240
9	930	1550	2420	2640	1560	812	246	1490	1610	1870	443	2030
10	719	1090	2930	1870	799	1550	236	1150	2150	1870	1710	1610
11	578	1980	2450	1870	302	1800	230	931	2040	1870	2280	977
12	584	1970	2050	2630	308	1620	230	931	1610	774	2280	705
13	1480	1960	1390	3200	308	1150	230	1420	1610	900	2280	703
14	2050	1940	960	3210	308	586	230	1750	1600	1940	2050	2010
15	2050	1940	1850	3130	308	252	230	1270	1600	1970	1150	2540
16	2050	2460	2730	3100	810	800	230	1430	1910	798	414	2960
17	1380	3410	3280	3090	298	1160	230	3770	1980	801	241	3090
18	633	3440	3610	3060	1080	1170	230	5440	1340	809	1310	1940
19	457	3140	3590	3020	1630	1170	236	4070	1330	820	1270	1290
20	910	2780	2530	2990	838	1170	230	3000	1260	1260	298	921
21	1730	2770	2020	2170	306	584	230	1540	398	1270	300	1980
22	2100	2020	2380	1690	308	263	230	1540	1400	1070	302	2670
23	3130	1660	3530	1690	308	1200	230	1590	1380	1070	302	1230
24	3120	1660	2610	1690	270	1190	230	1750	636	933	2000	3800
25	1340	1370	2050	1690	246	741	225	1260	639	498	3150	14800
26	713	1140	2040	1670	249	406	225	1140	1090	498	3130	7970
27	352	1140	2030	2040	252	252	225	751	2210	920	1960	3370
28	352	1140	2020	2880	252	252	399	428	2350	1640	1190	3420
29	352	1140	2590	2850	---	257	577	840	2110	1800	1190	3310
30	502	1140	3440	2140	---	257	577	2640	1350	1800	1190	3260
31	1200	---	3410	1600	---	257	---	5010	---	1180	1760	---
TOTAL	41678	62510	62044	78010	24140	27053	8044	55074	53167	40241	37420	84506
MEAN	1344	2084	2001	2516	862	873	268	1777	1772	1298	1207	2817
MAX	3130	3440	3610	3380	2430	1810	577	5440	4560	2110	3150	14800
MIN	352	1090	395	1600	246	252	225	428	398	498	191	703
CAL YR 1980	TOTAL	486235	MEAN	1329	MAX	3610	MIN	236				
WTR YR 1981	TOTAL	573887	MEAN	1572	MAX	14800	MIN	191				

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

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

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

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

REMARKS.--Records good. 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.--80 years, 2,596 ft³/s (73.53 m³/s).

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

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 21,600 ft³/s (612 m³/s) Sept. 25, gage height, 11.06 ft (3.371 m); minimum daily, 260 ft³/s (7.36 m³/s) Sept. 13.

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1750	1570	2190	3570	435	550	702	1590	7200	2480	591	3230
2	2700	662	1450	4200	3630	3410	939	972	5580	2750	270	2600
3	2580	3510	1390	2340	1960	1590	891	578	5410	2250	2660	2610
4	1090	3390	2080	429	2010	1880	1640	1970	4130	1150	2770	2780
5	705	3690	1210	4840	4310	1340	924	1540	3900	378	1950	2030
6	2560	3530	1430	4740	2480	1430	1470	1330	2070	2710	683	584
7	1560	3390	1140	4400	1340	423	1080	1370	2050	2700	1220	1900
8	2020	1730	2740	3830	477	453	984	1890	2180	2670	418	3340
9	2060	556	2730	4560	2430	2900	948	1760	1520	2230	267	2740
10	1760	2890	3130	1570	2400	1750	1320	498	2270	2220	2910	2720
11	891	2900	3540	441	1300	1720	1070	2970	3340	1720	2330	1640
12	545	2870	3240	5210	670	1760	894	2350	3260	505	2290	1010
13	1230	4030	1580	3420	1020	1300	1440	1930	2340	2720	1860	260
14	1930	3960	1400	4180	762	315	1610	1100	1700	2810	1700	2830
15	2580	2470	3790	4640	753	342	1340	2640	2980	1450	1100	2760
16	2960	1350	3570	3890	1690	2130	932	2820	2380	1800	296	2760
17	2430	3510	4170	1700	1540	1190	862	5760	2190	1750	1280	2890
18	1380	3360	4120	3010	1630	1890	843	7930	2090	729	2020	2850
19	525	3880	4290	3910	2080	1380	711	6070	1900	320	1160	1630
20	2850	4250	2750	3660	1030	1380	969	4830	1900	2220	1660	359
21	3190	1990	1580	3620	860	467	1340	3490	1180	1920	1740	3160
22	3540	2280	4370	2680	1230	430	608	2980	2510	1220	956	2760
23	3630	1100	4380	2610	1990	2240	1360	2460	2240	1140	277	1910
24	3430	3440	3880	1220	1680	917	1440	2380	2080	1180	2580	6820
25	1350	3960	3130	570	1560	777	1260	2280	1770	1010	2720	20700
26	688	2290	3380	3110	1670	1140	803	2290	2640	600	2200	13600
27	831	601	996	2850	1520	1440	1970	1840	1950	2620	1140	5090
28	652	869	844	3500	953	753	1480	1780	2950	2730	1610	5110
29	1090	663	4310	3610	---	441	1090	1290	2830	2290	1210	4830
30	3000	1410	4170	2610	---	1940	1580	3310	2420	1380	520	4840
31	2530	---	4790	1380	---	763	---	6420	---	1480	3260	---
TOTAL	60037	76101	87770	96300	45410	40441	34500	82418	82960	55132	47648	112343
MEAN	1937	2537	2831	3106	1622	1305	1150	2659	2765	1778	1537	3745
MAX	3630	4250	4790	5210	4310	3410	1970	7930	7200	2810	3260	20700
MIN	525	556	844	429	435	315	608	498	1180	320	267	260
CAL YR 1980	TOTAL	635049	MEAN	1735	MAX	4790	MIN	200				
WTR YR 1981	TOTAL	821060	MEAN	2249	MAX	20700	MIN	260				

01043500 DEAD RIVER NEAR DEAD RIVER, ME

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

DRAINAGE AREA.--516 mi² (1,336 km²), revised.

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

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

REMARKS.--Records good. Flow regulated by Flagstaff Lake (Reservoirs in Kennebec River Basin). Several observations of water temperature and specific conductance were made during the year.

AVERAGE DISCHARGE.--42 years, 853 ft³/s (24.16 m³/s), 22.45 in/yr (570 mm/yr).

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

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 6,510 ft³/s (184 m³/s) May 17, gage height, 8.84 ft (2.694 m); minimum daily, 3.9 ft³/s (0.11 m³/s) Nov. 5, 7.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	379	4.6	6.3	428	893	12	14	47	1130	265	770	1680
2	379	4.8	6.4	425	600	12	16	44	1110	569	768	1420
3	379	4.8	11	426	55	235	13	44	1090	866	1060	1170
4	391	4.3	16	425	318	800	12	46	1060	904	1270	1120
5	427	3.9	8.7	487	726	977	12	72	1170	856	1450	1020
6	457	4.2	8.5	550	885	177	12	128	1250	1010	509	931
7	472	3.9	8.1	551	885	17	12	212	2050	657	27	1090
8	497	4.3	8.0	551	885	367	12	214	2310	386	333	1080
9	787	4.3	7.6	551	885	761	12	495	1480	673	322	1080
10	715	4.1	7.9	550	485	761	12	545	1030	852	815	942
11	666	4.3	8.3	549	12	945	12	523	975	839	1300	862
12	661	4.2	21	656	12	1060	12	503	967	824	1290	859
13	533	4.3	21	763	12	1050	13	970	947	827	1280	853
14	426	4.3	9.7	761	12	1050	12	1190	932	1170	1270	846
15	400	4.4	18	862	12	1040	20	958	907	1400	1260	842
16	388	4.7	178	926	12	1340	14	1500	901	1390	467	837
17	386	5.3	186	926	12	1500	15	2800	893	1380	26	831
18	388	4.4	182	926	12	1470	19	2070	830	1380	327	827
19	387	4.6	177	913	12	1470	22	796	783	1370	217	822
20	384	4.9	213	910	12	1470	24	512	724	1360	28	820
21	377	4.9	256	910	12	1460	36	476	610	1330	331	988
22	442	4.8	256	910	12	1460	40	484	139	1310	1200	877
23	447	4.9	370	910	12	1480	38	489	336	1180	1170	100
24	295	5.2	428	905	11	1470	37	518	310	862	1540	31
25	341	6.0	429	902	11	1470	40	536	320	952	1750	20
26	177	6.5	430	900	12	1460	49	740	350	1110	1730	21
27	4.8	18	429	900	12	1460	49	961	560	1100	1250	24
28	15	7.1	427	900	12	1460	49	994	624	1090	570	25
29	4.6	7.3	425	900	---	1450	51	721	462	1090	570	29
30	4.7	6.4	425	900	---	1460	46	465	313	1090	567	31
31	4.4	---	428	893	---	589	---	800	---	890	1270	---
TOTAL	11614.5	159.7	5405.5	23066	6831	31733	725	20853	26563	30982	26737	22078
MEAN	375	5.32	174	744	244	1024	24.2	673	885	999	862	736
MAX	787	18	430	926	893	1500	51	2800	2310	1400	1750	1680
MIN	4.4	3.9	6.3	425	11	12	12	44	139	265	26	20
MEAN‡	600	429	706	85	1365	480	1419	977	853	1532	749	911
CFSM‡	1.16	.83	1.37	.16	2.65	.93	2.75	1.89	1.65	2.97	1.45	1.77
IN ‡	1.34	.93	1.58	.19	2.76	1.07	3.07	2.18	1.84	3.42	1.67	1.98
CAL YR 1980 TOTAL	131385.08	MEAN 359	MAX 1220	MIN .59	MEAN‡ 503	CFSM‡ .97	IN ‡ 13.21					
WTR YR 1981 TOTAL	206747.70	MEAN 566	MAX 2800	MIN 3.9	MEAN‡ 746	CFSM‡ 1.45	IN ‡ 22.03					

† Adjusted for change in contents in Flagstaff Lake.

01046500 KENNEBEC RIVER AT BINGHAM, ME

LOCATION.--Lat 45°03'06", long 69°53'12", Somerset County, Hydrologic Unit 01030003, on right bank at Bingham, 200 ft (60 m) downstream from highway bridge, 0.4 mi (0.6 km) downstream from Austin Stream, and 1.6 mi (2.6 km) downstream from Wyman Dam.

DRAINAGE AREA.--2,715 mi² (7,032 km²), revised.

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). WSP 1901: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 330.2 ft (100.64 m) National Geodetic Vertical Datum of 1929. June 1907 to June 1910, nonrecording gage on highway bridge at different datum.

REMARKS.--Records good except those for period of no gage-height record Oct. 26 to Nov. 24, Dec. 4 to Jan. 6, and Sept. 7-30, which are fair. Flow regulated by Moosehead Lake (station 01040500), Brassua and Flagstaff Lakes, First Roach, Indian, Moxie, and Wyman Ponds (Reservoirs in Kennebec River Basin). Considerable diurnal fluctuation caused by powerplant above station. Several observations of water temperature and specific conductance were made during the year.

AVERAGE DISCHARGE.--53 years (water years 1908-09, 1931-81), 4,415 ft³/s (125.0 m³/s).

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

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 29,300 ft³/s (830 m³/s) Sept. 25, gage height, 12.03 ft (3.667 m); minimum daily, 1,450 ft³/s (41.1 m³/s) Oct. 27.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	2550	2850	3750	3500	3500	2580	2690	2350	9720	3200	2870	2660
2	2370	2940	2710	3700	3200	2630	3370	2310	8560	3490	2820	3940
3	2420	3000	2210	3800	2400	2480	3590	2310	7650	3280	2920	3310
4	2550	3320	3200	3800	2550	3120	3370	2230	7180	3150	2900	3040
5	2400	3400	3150	3750	2700	2770	3520	2340	5510	3290	3090	3040
6	2200	3300	3030	3900	2800	2840	4300	2290	4810	2790	3260	3570
7	2720	3400	2800	3780	2800	2610	3460	2380	4980	2940	2420	3600
8	2490	3200	2700	4010	2850	2620	3030	2730	4910	2860	2780	3350
9	2690	3450	3050	3850	2990	2650	2590	2790	4960	3100	2690	3700
10	2500	3150	3550	3550	3270	2750	2540	2890	4850	3500	2920	2900
11	2630	3060	3050	3770	2000	2730	2650	2910	4790	3200	2880	2910
12	2400	3050	3600	3830	2100	2790	2780	2880	4900	3040	2960	2950
13	2460	3030	3400	4060	2100	2680	2780	3030	4990	3460	2990	3000
14	2440	3200	3200	4540	2250	2740	2790	3450	4380	3500	3100	3500
15	2890	2900	3800	3630	2300	3370	2640	4880	3470	3540	3040	3300
16	2910	2900	4000	3610	2640	2630	2500	6000	3410	3620	2480	3600
17	2980	2920	3500	3490	2700	2920	2240	11100	3420	3590	2350	3500
18	3000	2900	3600	3930	2530	2990	2200	12500	3450	3100	2280	3520
19	2960	3100	3700	3430	2650	2840	2010	9130	3320	2680	2630	3400
20	2990	3080	3200	3630	2550	3090	2080	7000	3640	3540	2820	3550
21	3150	3050	3300	3650	3360	2850	1960	4210	3260	3040	3050	3620
22	3170	3300	3700	3450	4900	2890	1950	4480	3370	3060	3030	3350
23	2990	3250	3650	3250	5530	2840	2150	4510	3830	3040	3190	3700
24	3540	3300	4000	3430	4990	2970	2200	4320	4160	3180	3130	12000
25	3090	2440	3950	3710	4600	2860	2260	3510	3750	3010	3280	28000
26	2200	1780	3800	3340	3940	2840	1930	3200	3410	3220	3210	18000
27	1450	1540	3300	3360	3520	2910	2360	3260	3410	3000	3320	6500
28	1950	1710	3350	3470	2860	2880	2220	3380	3410	3250	3440	6600
29	2150	1930	3720	3600	---	2890	2410	3310	4050	3250	3220	6650
30	2550	2530	3720	3400	---	2930	2240	4300	3970	3320	3320	5900
31	3000	---	3720	3650	---	3060	---	7640	---	2920	3620	---
TOTAL	81790	86980	105410	113870	86580	87750	78810	133620	139520	99160	92010	160660
MEAN	2638	2899	3400	3673	3092	2831	2627	4310	4651	3199	2968	5355
MAX	3540	3450	4000	4540	5530	3370	4300	12500	9720	3620	3620	28000
MIN	1450	1540	2210	3250	2000	2480	1930	2230	3260	2680	2280	2660
CAL YR 1980	TOTAL	952360	MEAN	2602	MAX	6740	MIN	1100				
WTR YR 1981	TOTAL	1266160	MEAN	3469	MAX	28000	MIN	1450				

01047000 CARRABASSETT RIVER NEAR NORTH ANSON, ME

LOCATION.--Lat 44°52'09", long 69°57'20", Somerset County, Hydrologic Unit 01030003, on left bank 3.4 mi (5.5 km) upstream from Mill Stream and North Anson.

DRAINAGE AREA.--353 mi² (914 km²), revised.

PERIOD OF RECORD.--November and December 1901, June 1902 to May 1907, August 1925 to current year. Monthly discharge only for some periods, published in WSP 1301.

REVISED RECORDS.--WSP 851: Drainage area. WSP 1231: 1904-07, 1928(M), 1932(M), 1936(M), 1938(M), 1944(M), 1950(M).

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

REMARKS.--Records good except those for winter period, which are fair. No gage-height record Dec. 4 to Jan. 6. Some regulation at low flows by mills above station. Several observations of water temperature and specific conductance were made during the year.

AVERAGE DISCHARGE.--60 years (water years 1902-06, 1926-81), 715 ft³/s (20.25 m³/s), 27.51 in/yr (699 mm/yr).

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

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

Date	Time	Discharge (ft ³ /s) (m ³ /s)	Gage height (ft) (m)	Date	Time	Discharge (ft ³ /s) (m ³ /s)	Gage height (ft) (m)
Feb. 12	1200	7,270 206	9.89 3.014	Feb. 21	1600	* 8,190 232	10.25 3.124

Minimum discharge, 84 ft³/s (2.38 m³/s) Sept. 7-9, gage height, 2.74 ft (0.835 m).

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	148	424	1070	190	100	1000	650	777	1050	259	371	108
2	140	376	825	180	150	860	1160	705	731	232	280	108
3	146	327	1150	175	1240	740	1380	699	562	200	229	106
4	263	296	800	170	1510	660	1130	626	498	189	262	105
5	457	283	680	165	1160	600	1310	568	1310	189	296	96
6	344	272	620	160	950	660	1610	556	862	293	1450	91
7	281	256	570	155	830	620	1120	535	869	330	826	86
8	241	353	540	150	745	520	840	463	650	262	529	84
9	211	548	500	150	690	470	744	407	540	241	390	303
10	183	440	480	145	625	430	812	374	562	265	341	473
11	176	400	450	140	650	386	705	359	435	224	303	284
12	251	359	430	140	3710	374	638	378	394	177	265	229
13	303	326	410	135	1460	363	551	984	352	173	229	197
14	260	304	380	130	930	363	498	1200	310	382	210	170
15	223	292	360	130	775	334	626	812	277	449	187	150
16	198	273	350	125	725	348	568	1370	277	310	488	138
17	184	250	330	120	690	330	524	2590	345	241	562	126
18	177	224	320	120	670	310	620	2050	287	229	386	121
19	182	233	300	120	660	280	1030	1600	244	232	310	117
20	186	258	290	115	700	265	777	1060	221	227	250	130
21	173	232	280	115	4210	250	687	764	400	235	218	144
22	163	231	270	110	3400	240	585	614	668	327	195	163
23	155	218	260	110	2800	230	529	473	1870	241	175	2530
24	145	222	250	110	2300	225	562	345	1050	197	163	4400
25	146	702	240	105	1900	220	819	300	680	170	155	2870
26	2470	955	230	105	1600	220	771	310	556	142	152	1490
27	1540	763	220	105	1400	230	662	352	498	155	142	914
28	1010	626	215	103	1150	245	585	378	412	187	130	1150
29	739	1160	210	100	---	260	614	403	341	348	125	791
30	579	1290	200	100	---	290	960	430	293	1020	117	596
31	482	---	195	100	---	350	---	650	---	579	110	---
TOTAL	12156	12893	13425	4078	37730	12673	24067	23132	17544	8705	9846	18270
MEAN	392	430	433	132	1348	409	802	746	585	281	318	609
MAX	2470	1290	1150	190	4210	1000	1610	2590	1870	1020	1450	4400
MIN	140	218	195	100	100	220	498	300	221	142	110	84
CFSM	1.11	1.22	1.23	.37	3.82	1.16	2.27	2.11	1.66	.80	.90	1.73
IN.	1.28	1.36	1.41	.43	3.98	1.34	2.54	2.44	1.85	.92	1.04	1.93

CAL YR 1980	TOTAL	156855	MEAN 429	MAX 6620	MIN 53	CFSM 1.22	IN 16.53
WTR YR 1981	TOTAL	194519	MEAN 533	MAX 4400	MIN 84	CFSM 1.51	IN 20.50

01047730 WILSON STREAM AT EAST WILTON, ME

LOCATION.--Lat 44°36'55", long 70°11'42", Franklin County, Hydrologic Unit 01030003, on left bank 0.1 mi (0.2 km) upstream from railroad bridge in East Wilton, and 1.5 mi (2.4 km) downstream from Varnum Stream.

DRAINAGE AREA.--45.8 mi² (118.6 km²), revised.

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

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

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

REMARKS.--Records good except those for winter period, which are fair. No gage-height record Dec. 11 to Jan. 13. Flow regulated by Wilson Pond 3.7 mi (6.0 km) upstream. Several observations of water temperature and specific conductance were made during the year.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 3,080 ft³/s (87.2 m³/s) Apr. 28, 1978, gage height, 14.66 ft (4.468 m); minimum daily, 3.6 ft³/s (0.10 m³/s) Oct. 12, 1978.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 920 ft³/s (2.61 m³/s) Feb. 10, gage height, 11.99 ft (3.655 m), backwater from ice; maximum gage height, 12.46 ft (3.798 m) Feb. 11 (backwater from ice); minimum daily, 7.7 ft³/s (0.22 m³/s) Oct. 1, 2.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	7.7	38	150	19	33	127	107	87	45	21	46	13
2	7.7	33	113	19	170	106	228	81	32	18	32	12
3	9.0	28	193	18	340	94	188	74	25	16	26	12
4	45	26	149	18	630	81	148	66	28	16	23	12
5	49	25	121	18	435	69	139	47	60	23	22	11
6	36	23	94	17	245	67	166	21	52	39	24	10
7	32	22	75	17	140	69	134	21	56	41	23	10
8	26	34	61	16	100	66	110	17	38	25	20	9.6
9	22	32	62	16	79	62	99	15	44	49	19	49
10	20	33	58	16	270	58	95	15	47	33	19	26
11	20	32	45	15	595	54	83	15	36	25	17	22
12	24	28	41	15	282	50	77	18	30	20	16	20
13	22	25	37	15	164	48	66	79	29	19	15	19
14	32	23	34	15	110	46	79	77	24	22	13	17
15	40	22	32	14	81	47	110	64	20	23	13	16
16	39	21	31	14	67	40	85	133	24	17	257	19
17	39	19	29	14	74	41	79	166	26	14	162	19
18	45	20	28	14	90	43	97	118	20	14	91	20
19	52	23	27	14	119	40	95	86	15	18	53	20
20	43	30	26	13	425	29	80	67	14	17	38	21
21	40	24	25	13	587	29	74	53	21	46	31	17
22	32	19	24	13	356	29	63	46	63	40	26	40
23	8.9	21	23	13	233	29	56	42	193	28	23	375
24	8.8	21	23	12	186	30	79	35	108	23	32	721
25	19	152	22	12	177	30	87	29	64	20	44	403
26	281	146	22	12	192	30	78	27	60	18	23	208
27	166	93	21	12	176	33	68	25	45	28	20	134
28	107	81	21	12	150	42	60	24	34	22	17	163
29	76	359	20	11	---	62	95	23	28	83	15	126
30	56	227	20	11	---	84	105	24	23	119	14	98
31	45	---	19	11	---	106	---	47	---	74	13	---
TOTAL	1450.1	1680	1646	449	6506	1741	3030	1642	1304	971	1187	2642.6
MEAN	46.8	56.0	53.1	14.5	232	56.2	101	53.0	43.5	31.3	38.3	88.1
MAX	281	359	193	19	630	127	228	166	193	119	257	721
MIN	7.7	19	19	11	33	29	56	15	14	14	13	9.6
CFSM	1.02	1.22	1.16	.32	5.07	1.23	2.21	1.16	.95	.68	.84	1.92
IN.	1.18	1.36	1.34	.36	5.28	1.41	2.46	1.33	1.06	.79	.96	2.15
CAL YR 1980	TOTAL	19657.8	MEAN 53.7	MAX 1400	MIN 4.7	CFSM 1.17	IN 15.97					
WTR YR 1981	TOTAL	24248.7	MEAN 66.4	MAX 721	MIN 7.7	CFSM 1.45	IN 19.70					

01049000 SEBASTICOOK RIVER NEAR PITTSFIELD, ME

LOCATION.--Lat 44°43'00", long 69°24'56", Somerset County, Hydrologic Unit 01030003, on right bank 1.7 mi (2.7 km) upstream from Twentyfivemile Stream and 5.0 mi (8.0 km) south of Pittsfield.

DRAINAGE AREA.--572 mi² (1,481 km²), revised.

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

REVISED RECORDS.--WSP 1271: Drainage area.

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

REMARKS.--Records good except those for winter period, and period of backwater from aquatic growth, July 4 to Aug. 17, which are fair. Flow regulated by dam 0.4 mi (0.6 km) upstream, and by Great Moose and Sebasticook Lakes and Plymouth Pond, combined capacity about 2,345,000,000 ft³ (66,410,000 m³). Several observations of water temperature and specific conductance were made during the year.

AVERAGE DISCHARGE.--52 years (water years 1930-81), 953 ft³/s (26.99 m³/s).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 14,400 ft³/s (408 m³/s) Mar. 22, 1936, gage height, 13.18 ft (4.017 m); minimum daily, 4.5 ft³/s (0.13 m³/s) Nov. 10, 1956.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 3,080 ft³/s (87.2 m³/s) Dec. 1, gage height, 5.72 ft (1.743 m); minimum daily, 165 ft³/s (4.67 m³/s) Sept. 6.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	292	775	3040	570	330	1460	513	835	584	694	300	192
2	278	710	3060	560	525	1390	652	849	625	595	295	186
3	272	642	2980	550	1200	1310	981	835	650	504	290	182
4	361	581	2870	540	950	1200	1180	793	674	445	290	177
5	510	548	2420	530	820	1080	1260	758	644	400	290	172
6	590	518	2340	520	705	978	1330	895	587	380	410	165
7	609	506	2170	515	605	910	1350	993	567	380	450	172
8	608	544	1980	505	502	850	1310	988	546	360	305	324
9	595	592	1790	490	453	801	1220	923	534	340	250	428
10	568	610	1590	480	440	764	1150	668	550	315	240	445
11	524	644	1400	470	462	729	1070	487	538	335	230	442
12	540	623	1260	465	1420	696	964	433	526	375	215	421
13	567	600	1130	460	1610	660	872	546	504	400	210	406
14	557	578	1070	450	1500	634	789	728	468	315	200	394
15	521	558	990	440	1340	604	782	814	437	235	195	380
16	474	525	940	435	1170	575	788	1020	415	225	260	367
17	438	479	890	430	1070	541	759	1390	397	260	370	352
18	423	455	850	420	1000	484	762	1610	376	285	474	329
19	460	451	810	410	916	478	811	1640	344	295	544	321
20	475	410	785	405	936	448	822	1560	341	315	547	320
21	472	371	760	395	1120	431	798	1420	471	330	498	304
22	456	364	735	390	1320	413	761	1280	580	325	434	299
23	423	364	710	385	1460	403	711	1160	730	280	375	322
24	385	363	690	375	1530	393	676	1020	868	240	331	459
25	365	683	670	370	1560	337	695	818	927	300	290	689
26	650	1480	655	365	1510	293	698	660	1010	430	252	1110
27	880	1870	640	360	1510	297	691	590	1090	330	233	1420
28	910	1960	630	350	1490	317	660	542	1050	260	222	1680
29	890	2270	610	345	---	340	651	511	928	290	213	1770
30	860	2770	600	340	---	370	749	498	800	320	205	1740
31	830	---	585	335	---	439	---	523	---	310	199	---
TOTAL	16783	23844	41650	13655	29454	20625	26455	27787	18761	10868	9617	15968
MEAN	541	795	1344	440	1052	665	882	896	625	351	310	532
MAX	910	2770	3060	570	1610	1460	1350	1640	1090	694	547	1770
MIN	272	363	585	335	330	293	513	433	341	225	195	165
CAL YR 1980	TOTAL	256130	MEAN 700	MAX 3500	MIN 75							
WTR YR 1981	TOTAL	255467	MEAN 700	MAX 3060	MIN 165							

01049130 JOHNSON BROOK AT SOUTH ALBION, ME

LOCATION.--Lat 44°29'53", long 69°29'12", Kennebec County, Hydrologic Unit 01030003, on right bank approximately 0.8 mi (1.3 km) downstream from Dutton Pond and approximately 0.5 mi (8 km) southwest of Albion.

DRAINAGE AREA.--2.92 mi² (7.56 km²).

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

GAGE.--Water-stage recorder. Altitude of gage is 225 ft (68.58 m) from topographic map.

REMARKS.--Records good except those for the 1981 winter period which are fair.

EXTREMES FOR 1980 WATER YEAR MAY 12 to SEPT. 30.--Maximum discharge 11 ft³/s (0.312 m³/s) May 13, gage height 8.88 ft (2.707 m); minimum discharge, .01 ft³/s (.001 m³/s) most of the time from Aug. 10 to Sept. 25.

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

Date	Time	Discharge (ft ³ /s) (m ³ /s)	Gage height (ft) (m)	Date	Time	Discharge (ft ³ /s) (m ³ /s)	Gage height (ft) (m)
Feb. 2	1700	* 40 1.13	*a 9.94 3.030	Jun 21	1930	31 0.88	9.56 2.914

a Ice jam

Minimum discharge, 0.06 ft³/s (0.002 m³/s) Oct. 2,3, 7.87 ft (2.399 m).

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.07	2.3	19	.83	.49	8.8	4.9	4.2	2.2	2.8	2.8	.68
2	.07	2.0	16	.80	15	8.3	11	4.0	1.9	2.3	2.4	.60
3	.07	1.9	16	.77	14	7.0	11	3.7	1.7	2.0	2.1	.52
4	1.1	1.7	14	.75	9.0	6.2	11	3.3	1.6	1.6	1.6	.49
5	.56	1.7	11	.73	7.2	5.7	11	3.1	1.5	2.3	1.5	.49
6	.35	1.5	9.3	.70	6.2	5.3	13	3.0	1.4	2.7	1.5	.42
7	.32	1.4	7.9	.69	5.7	5.2	12	2.7	1.5	2.3	1.4	.42
8	.32	1.7	6.4	.67	5.2	5.0	12	2.3	1.2	2.0	1.2	.35
9	.32	1.7	6.1	.65	4.6	4.9	10	2.2	2.5	1.6	1.2	.68
10	.29	1.6	5.2	.63	4.4	4.7	8.8	2.0	2.2	1.3	1.1	.52
11	.29	1.6	4.5	.62	11	4.4	7.7	1.9	1.8	1.1	1.0	.49
12	.77	1.6	3.5	.60	24	4.1	6.6	1.5	1.7	.96	.91	.45
13	.56	1.5	3.0	.58	21	3.8	5.7	6.8	1.5	.96	.86	.45
14	.49	1.5	2.8	.57	18	3.7	5.3	4.7	1.3	1.1	.77	.42
15	.45	1.5	2.5	.56	15	3.1	5.7	4.6	1.1	.91	.96	.38
16	.45	1.5	2.2	.56	11	3.3	5.0	11	1.1	.77	5.9	.35
17	.42	1.5	2.0	.55	9.0	2.6	4.9	11	1.0	.68	3.1	.26
18	.68	1.5	1.8	.54	8.5	2.6	5.0	11	.86	.64	3.2	.26
19	.96	1.6	1.7	.54	7.9	2.3	4.7	9.0	.77	.60	2.9	.38
20	.77	1.6	1.6	.53	8.8	2.2	4.4	7.4	.86	.52	2.5	.49
21	.73	1.6	1.5	.52	11	2.1	4.2	5.7	5.9	5.3	2.1	.35
22	.68	1.7	1.4	.52	12	1.9	3.9	4.9	9.0	5.2	1.7	.49
23	.68	1.8	1.3	.52	11	1.8	3.5	4.2	9.5	5.2	1.4	1.2
24	.64	2.0	1.2	.52	9.7	1.7	4.1	3.3	8.5	4.6	1.3	1.5
25	1.2	15	1.1	.51	8.8	1.7	4.2	3.0	6.8	3.8	1.2	1.3
26	3.9	12	1.1	.51	8.5	1.7	4.0	2.7	7.9	2.9	1.2	1.1
27	2.3	12	1.0	.51	10	2.0	3.8	2.4	6.4	3.4	1.1	1.1
28	2.7	11	1.0	.51	9.0	2.8	3.4	2.2	5.3	2.7	.91	1.3
29	2.9	23	.96	.50	---	3.2	3.7	2.0	4.5	4.4	.82	1.1
30	2.8	20	.92	.49	---	3.7	4.7	2.0	3.4	3.8	.77	1.0
31	2.6	---	.88	.49	---	4.9	---	2.5	---	3.5	.73	---
TOTAL	30.44	133.0	148.86	18.47	285.99	120.7	199.2	134.3	96.89	73.94	52.13	19.54
MEAN	.98	4.43	4.80	.60	10.2	3.89	6.64	4.33	3.23	2.39	1.68	.65
MAX	3.9	23	19	.83	24	8.8	13	11	9.5	5.3	5.9	1.5
MIN	.07	1.4	.88	.49	.49	1.7	3.4	1.5	.77	.52	.73	.26
CFSM	.34	1.52	1.64	.21	3.49	1.33	2.27	1.48	1.11	.82	.58	.22
IN.	.39	1.69	1.90	.24	3.64	1.54	2.54	1.71	1.23	.94	.66	.25
WTR YR 1981	TOTAL	1313.46	MEAN	3.60	MAX	24	MIN	.07	CFSM	1.23	IN	16.73

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

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

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

WATER-DISCHARGE RECORDS

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

GAGE.--Water-stage recorder. Datum of gage is 14.97 ft (4.563 m) revised, National Geodetic Vertical Datum of 1929. Since July 10, 1980, auxiliary water-stage recorder 11.5 mi (185 km) downstream from base gage.

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

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

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 33,500 ft³/s (949 m³/s) Sept. 25, gage height, 14.72 ft (4.487 m), backwater from Cushnoc Dam; minimum daily, 2,740 ft³/s (77.6 m³/s) Oct. 3.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981 MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	2950	5660	15400	6400	4600	10000	6380	7010	14900	4890	5160	3660
2	2820	5390	13600	6400	4500	9170	8200	6000	12700	4100	4560	3670
3	2740	5090	12500	6200	7000	8830	13000	6020	10900	4070	4180	3640
4	3300	5230	17300	6200	6600	6740	10200	5640	9150	3690	3860	3860
5	4120	5190	11800	6200	6200	6600	8890	5570	9940	3810	4080	3300
6	4700	5000	10700	6200	6000	6800	10500	5530	9470	4650	4590	3430
7	4270	4760	10800	6200	6000	7000	11600	5700	7630	4740	6470	3230
8	4160	4710	8750	6200	5900	6330	8430	5360	7890	4470	5590	3600
9	3900	5120	8090	6100	5800	6060	7890	5740	7850	3990	4550	4470
10	3840	5570	9340	6000	5800	6490	7530	5560	7040	4180	4120	5240
11	3580	5400	7700	5900	6200	6410	6810	5350	7680	4860	3980	4210
12	3760	5210	7600	5800	10000	6110	6390	5080	6380	4010	3870	3600
13	3890	4740	7500	5500	15000	5710	5920	6020	6750	3900	4720	3800
14	4100	4450	7400	5600	13000	5240	6170	8830	6590	4290	4110	3790
15	4080	4290	7500	5600	8200	5250	6940	8370	5450	4690	3650	4020
16	4150	4190	7600	5400	7300	4770	6550	10100	5170	5250	5660	4260
17	4140	4230	7800	5200	6600	5580	6070	18200	4890	4710	7060	4240
18	4520	4040	7800	5300	7100	4300	5820	21000	4770	4530	6160	4630
19	4580	4070	7600	5200	7600	4940	6030	16800	4600	4530	5460	4260
20	4810	4080	7400	5200	8000	4740	6370	16300	4480	4420	4610	4420
21	5170	3590	7100	5400	14000	4660	5930	10300	4730	4830	4360	4510
22	4870	3510	6800	5100	25000	4510	5620	7910	5370	5110	4120	4690
23	4650	3760	6600	5000	23000	4680	5280	7230	11100	4730	4130	7840
24	5150	4200	6700	5200	20300	4620	5080	6950	10100	4710	3990	24400
25	4910	9130	7000	5100	16000	4620	5830	6250	8270	4990	3710	27900
26	11700	15900	6800	4900	14800	4450	6400	5260	7440	4120	3940	27300
27	11100	9590	6600	4900	12900	4830	5460	5630	6250	4000	3880	15200
28	7220	7900	6500	4700	12300	4530	5620	5250	5770	3860	3820	11700
29	5710	20400	6500	4700	---	4300	5580	5070	5260	4730	3790	14400
30	5230	19500	6400	4700	---	5400	6820	4930	5300	6870	3890	11800
31	5520	---	6400	4700	---	6840	---	7490	---	6990	3730	---
TOTAL	149640	193900	267580	171200	285700	180510	213310	246450	223820	142720	139800	229070
MEAN	4827	6463	8632	5523	10200	5823	7110	7950	7461	4604	4510	7636
MAX	11700	20400	17300	6400	25000	10000	13000	21000	14900	6990	7060	27900
MIN	2740	3510	6400	4700	4500	4300	5080	4930	4480	3690	3650	3230
CAL YR 1980	TOTAL	2191320	MEAN	5987	MAX	43800	MIN	2420				
WTR YR 1981	TOTAL	2443700	MEAN	6695	MAX	27900	MIN	2740				

01049265 KENNEBEC RIVER AT NORTH SIDNEY, ME--Continued

WATER-QUALITY RECORDS

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

PERIOD OF DAILY RECORD.--

SPECIFIC CONDUCTANCE: October 1978 to current year.

pH: October 1978 to current year.

WATER TEMPERATURES: October 1978 to current year.

DISSOLVED OXYGEN: October 1978 to current year.

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

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

EXTREMES FOR PERIOD OF DAILY RECORD.--

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

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

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

DISSOLVED OXYGEN: Maximum, 14.6 mg/L Jan. 11, 12, 1979; minimum, 6.0 mg/L Sept. 6, 1979.

EXTREMES FOR CURRENT YEAR.--

SPECIFIC CONDUCTANCE: Maximum, 103 micromhos Feb. 11; minimum, 41 micromhos Sept. 26.

pH: Maximum, 7.3 units June 8, 10, 13, 14; minimum, 6.1 units June 29.

WATER TEMPERATURES: Maximum, 24.5°C July 7-11; minimum, 0.0°C on many days during winter period.

DISSOLVED OXYGEN: Maximum, 14.2 mg/L Feb. 3; minimum, 6.6 mg/L July 9, 10, 13-16.

REVISIONS.--The dissolved organic carbon data published in the 1979 and 1980 reports is invalid due to a sample contamination problem.

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DATE	TIME	DIS- CHARGE, IN CUBIC FEET PER SECOND	SPE- CIFIC CON- DUCT- ANCE (UMHOS)	SPE- CIFIC CON- DUCT- ANCE LAB (UMHOS)	PH (UNITS)	TEMPER- ATURE, AIR (DEG C)	TEMPER- ATURE (DEG C)	TUR- BID- ITY (NTU)	OXYGEN, DIS- SOLVED (MG/L)	COLI- FORM, FECAL, 0.7 UM-MF (COLS./ 100 ML)	STREP- TOCOCCI FECAL, KF AGAR (COLS. PER 100 ML)	HARD- NESS (MG/L AS CAC03)
OCT 20...	1500	4810	82	79	6.9	11.5	10.5	.70	10.6	64	K10	22
NOV 24...	1430	4200	63	61	6.5	3.5	2.5	.40	12.3	86	K22	18
DEC 15...	1500	7500	67	64	6.7	-9.0	.0	.50	13.2	190	K42	14
JAN 26...	1330	4900	62	60	6.6	6.5	.0	.40	14.0	K33	K26	18
FEB 23...	1400	23000	60	51	6.6	4.0	1.0	5.9	14.4	72	280	16
MAR 23...	1430	4680	75	68	6.9	8.5	3.5	1.6	12.9	110	42	20
APR 21...	1200	5930	66	63	6.7	10.0	6.5	2.2	12.6	60	K11	19
MAY 18...	1400	21000	53	50	6.8	9.0	12.0	3.5	11.8	58	110	17
JUN 18...	1200	4770	60	46	6.9	28.0	21.0	.90	8.5	80	8	12
JUL 31...	1345	6990	63	59	7.0	25.5	23.0	1.4	8.4	78	30	19
AUG 17...	1455	7060	60	76	7.0	25.5	22.0	2.8	8.4	85	460	23
SEP 25...	1700	27900	48	48	6.6	21.0	13.5	2.0	10.7	K650	310	10

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

01049265 KENNEBEC RIVER AT NORTH SIDNEY, ME--Continued

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DATE	HARD- NESS NONCAR- BONATE (MG/L AS CACO3)	CALCIUM DIS- SOLVED (MG/L AS CA)	MAGNE- SIUM, DIS- SOLVED (MG/L AS MG)	SODIUM, DIS- SOLVED (MG/L AS NA)	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)
OCT 20...	5.0	6.5	1.3	5.2	.8	17	6.7	7.1	.0	3.3	54	42
NOV 24...	3.0	5.1	1.2	4.4	.9	15	9.9	4.0	.0	3.8	47	39
DEC 15...	.00	4.3	.8	4.1	.7	20	6.3	6.8	.0	4.3	50	40
JAN 26...	.00	5.3	1.1	4.2	.6	18	6.0	5.9	<.1	4.1	44	39
FEB 23...	--	4.8	.9	3.1	1.0	8.0	5.6	4.6	<.1	4.0	41	30
MAR 23...	2.0	6.2	1.2	4.8	.8	18	7.1	7.8	<.1	5.1	56	45
APR 21...	2.0	5.7	1.1	4.3	.7	17	5.3	5.5	<.1	4.6	66	38
MAY 18...	9.0	5.1	1.1	3.1	.6	8.0	5.9	3.5	<.1	4.6	28	30
JUN 18...	6.0	3.5	.7	1.7	.5	6.0	6.1	2.6	<.1	2.7	37	22
JUL 31...	3.0	5.7	1.2	4.4	.7	16	5.8	5.9	<.1	3.1	46	37
AUG 17...	4.0	6.9	1.3	5.4	.9	19	6.7	7.4	<.1	3.1	55	46
SEP 25...	.00	2.8	.7	1.7	.3	11	5.5	2.9	<.1	4.1	52	25

DATE	SOLIDS, DIS- SOLVED (TONS PER AC-FT)	SOLIDS, DIS- SOLVED (TONS PER DAY)	NITRO- GEN, NO2+NO3 TOTAL (MG/L AS N)	NITRO- GEN, NO2+NO3 DIS- SOLVED (MG/L AS N)	NITRO- GEN, AMMONIA TOTAL (MG/L AS N)	NITRO- GEN, AMMONIA DIS- SOLVED (MG/L AS N)	NITRO- GEN,AM- MONIA + ORGANIC TOTAL (MG/L AS N)	NITRO- GEN,AM- MONIA + ORGANIC DIS. (MG/L AS N)	NITRO- GEN, TOTAL (MG/L AS N)	NITRO- GEN DIS- SOLVED (MG/L AS N)	PHOS- PHORUS, TOTAL (MG/L AS P)	PHOS- PHORUS, DIS- SOLVED (MG/L AS P)
OCT 20...	.07	701	.12	.13	.050	.010	.44	.38	.56	.51	.030	.020
NOV 24...	.06	533	.15	.16	.050	.080	.22	.16	.37	.32	.010	<.010
DEC 15...	.07	1010	.20	.20	.060	.080	.25	.22	.45	.42	.040	.020
JAN 26...	.06	582	.20	.21	.080	.090	.39	.28	.59	.49	.020	.020
FEB 23...	.06	2550	.31	.30	.090	.100	.22	.25	.53	.55	.070	<.010
MAR 23...	.08	708	.24	.22	.060	.080	.41	.38	.65	.60	.020	<.010
APR 21...	.09	1060	.20	.22	.150	.070	.29	.32	.49	.54	.020	<.010
MAY 18...	.04	1590	.17	.15	.060	.030	.45	.61	.62	.76	.040	<.010
JUN 18...	.05	477	.23	.13	.040	.050	.45	<.10	.68	--	<.010	<.010
JUL 31...	.06	868	.12	.12	.010	.010	.20	.40	.32	.52	.020	<.010
AUG 17...	.07	1050	.67	.69	.060	.050	.41	.27	1.1	.96	.040	.030
SEP 25...	.07	3920	.16	.14	.050	.030	.66	.54	.82	.68	.050	.010

01049265 KENNEBEC RIVER AT NORTH SIDNEY, ME--Continued

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DATE	ARSENIC TOTAL (UG/L AS AS)	ARSENIC DIS- SOLVED (UG/L AS AS)	BARIUM, TOTAL RECOV- ERABLE (UG/L AS BA)	BARIUM, DIS- SOLVED (UG/L AS BA)	CADMIUM TOTAL RECOV- ERABLE (UG/L AS CD)	CADMIUM DIS- SOLVED (UG/L AS CD)	CHRO- MIUM, TOTAL RECOV- ERABLE (UG/L AS CR)	CHRO- MIUM, DIS- SOLVED (UG/L AS CR)	COBALT, TOTAL RECOV- ERABLE (UG/L AS CO)	COBALT, DIS- SOLVED (UG/L AS CO)
NOV 24...	1	1	100	10	0	2	10	10	0	0
FEB 23...	0	0	<50	100	0	0	20	10	0	0
MAY 18...	0	0	100	9	1	<1	<10	<10	1	1
AUG 17...	1	1	<50	8	2	1	<10	<10	3	2

DATE	COPPER, TOTAL RECOV- ERABLE (UG/L AS CU)	COPPER, DIS- SOLVED (UG/L AS CU)	IRON, TOTAL RECOV- ERABLE (UG/L AS FE)	IRON, DIS- SOLVED (UG/L AS FE)	LEAD, TOTAL RECOV- ERABLE (UG/L AS PB)	LEAD, DIS- SOLVED (UG/L AS PB)	MANGA- NESE, TOTAL RECOV- ERABLE (UG/L AS MN)	MANGA- NESE, DIS- SOLVED (UG/L AS MN)	MERCURY TOTAL RECOV- ERABLE (UG/L AS HG)
NOV 24...	3	1	250	80	6	1	30	30	<.1
FEB 23...	4	2	1800	140	4	3	100	30	<.1
MAY 18...	6	3	640	80	10	1	50	20	<.1
AUG 17...	5	3	420	90	15	1	40	20	.8

DATE	MERCURY DIS- SOLVED (UG/L AS HG)	NICKEL, TOTAL RECOV- ERABLE (UG/L AS NI)	NICKEL, DIS- SOLVED (UG/L AS NI)	SELE- NIUM, TOTAL (UG/L AS SE)	SELE- NIUM, DIS- SOLVED (UG/L AS SE)	SILVER, TOTAL RECOV- ERABLE (UG/L AS AG)	SILVER, DIS- SOLVED (UG/L AS AG)	ZINC, TOTAL RECOV- ERABLE (UG/L AS ZN)	ZINC, DIS- SOLVED (UG/L AS ZN)
NOV 24...	<.1	3	2	0	0	0	0	10	0
FEB 23...	<.1	6	0	0	0	0	0	110	10
MAY 18...	<.1	10	3	0	0	0	0	20	9
AUG 17...	<.1	4	1	<1	<1	<1	<1	20	20

DATE	CARRON, ORGANIC TOTAL (MG/L AS C)	CARRON, ORGANIC SUS- PENDED TOTAL (MG/L AS C)	PHYTO- PLANK- TON, TOTAL (CELLS PER ML)	SEDI- MENT, SUS- PENDED (MG/L)	SEDI- MENT, DIS- CHARGE, SUS- PENDED (T/DAY)	SED. SUSP. SIEVE DIAM. % FINER THAN .062 MM
OCT 20...	7.7	--	--	2	26	100
NOV 24...	--	--	260	--	--	--
DEC 15...	7.1	--	--	2	40	100
JAN 26...	6.5	--	--	1	13	100
FEB 23...	--	--	--	57	3540	99
MAR 23...	5.6	--	77	1	13	--
APR 21...	6.3	--	--	5	80	100
MAY 18...	--	--	1200	22	1250	82
JUN 18...	5.4	--	2200	--	--	--
JUL 31...	6.9	--	390	2	38	88
AUG 17...	--	.7	3400	1	19	100
SEP 25...	9.2	--	42	--	--	--

01049265 KENNEBEC RIVER AT NORTH SIDNEY, ME--Continued

PHYTOPLANKTON ANALYSES, OCTOBER 1980 TO SEPTEMBER 1981

DATE TIME	NOV 24,80 1430	MAR 23,81 1430	MAY 18,81 1400	JUN 18,81 1200				
TOTAL CELLS/ML	260	77	1200	2200				
DIVERSITY: DIVISION	0.3	1.0	0.9	0.9				
..CLASS	0.3	1.0	0.9	0.9				
...ORDER	0.3	1.5	1.6	1.8				
...FAMILY	0.6	1.9	3.1	1.9				
....GENUS	1.5	1.9	3.4	2.3				
ORGANISM	CELLS /ML	PER- CENT	CELLS /ML	PER- CENT	CELLS /ML	PER- CENT	CELLS /ML	PER- CENT
CHLOROPHYTA (GREEN ALGAE)								
..CHLOROPHYCEAE								
...CHLOROCOCCALES								
...HYDRODICTYACEAE								
....PEDIASTRUM	--	-	--	-	--	-	--	-
...MICRACTINIACEAE								
....MICRACTINIUM	--	-	--	-	--	-	26	1
...OOCYSTACEAE								
....ANKISTRODESMUS	13	5	26#	33	28	2	52	2
....DICTYOSPHAERIUM	--	-	--	-	--	-	--	-
....KIRCHNERIELLA	--	-	--	-	--	-	--	-
....TETRAEDRON	--	-	--	-	14	1	--	-
...SCENEDESMACEAE								
....CRUCIGENIA	130#	50	--	-	--	-	--	-
....SCENEDESMUS	100#	40	--	-	140	11	100	5
...VOLVOCALES								
...CHLAMYDOMONADACEAE								
....CHLAMYDOMONAS	--	-	13#	17	--	-	13	1
...ZYGNEMATALES								
...DESMIDIACEAE								
....STAUSTRUM	--	-	--	-	--	-	--	-
CHRYSOPHYTA								
..BACILLARIOPHYCEAE								
...CENTRALES								
...COSCINODISCACEAE								
....CYCLOTELLA	--	-	--	-	310#	25	39	2
....MELOSIRA	--	-	--	-	--	-	78	4
...PENNALES								
...ACHNANTHACEAE								
....ACHNANTHES	--	-	--	-	180	15	--	-
...COCCONEIS	--	-	--	-	--	-	--	-
...RHOICOSPHENIA	--	-	--	-	14	1	--	-
...CYMBELLACEAE								
....CYMBELLA	--	-	--	-	56	5	--	-
...DIATOMACEAE								
....DIATOMA	--	-	--	-	28	2	--	-
...EUNOTIACEAE								
....EUNOTIA	--	-	--	-	14	1	--	-
...FRAGILARIACEAE								
....ASTERIONELLA	--	-	26#	33	--	-	--	-
....FRAGILARIA	--	-	--	-	--	-	13	1
....HANNAEA	--	-	--	-	85	7	--	-
....SYNEDRA	--	-	--	-	71	6	13	1
...GOMPHONEMACEAE								
....GOMPHONEMA	--	-	--	-	14	1	--	-
...NAVICULACEAE								
....NAVICULA	--	-	--	-	56	5	--	-
...NITZSCHIAEAE								
....NITZSCHIA	13	5	13#	17	160	13	13	1
...TABELLARIACEAE								
....TABELLARIA	--	-	--	-	14	1	--	-
CYANOPHYTA (BLUE-GREEN ALGAE)								
..CYANOPHYCEAE								
...CHROOCOCCALES								
...CHROOCOCCACEAE								
....AGMENELLUM	--	-	--	-	--	-	210	9
....ANACYSTIS	--	-	--	-	56	5	660#	30
...HORMOGONALES								
...OSCILLATORIACEAE								
....LYNGBYA	--	-	--	-	--	-	960#	44
....OSCILLATORIA	--	-	--	-	--	-	--	-
PYRRHOPHYTA (FIRE ALGAE)								
..DINOPHYCEAE								
...PERIDINIALES								
...GLENODINIACEAE								
....GLENODINIUM	--	-	--	-	--	-	26	1

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

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

01049265 KENNEBEC RIVER AT NORTH SIDNEY, ME--Continued

PHYTOPLANKTON ANALYSES, OCTOBER 1980 TO SEPTEMBER 1981

DATE TIME	JUL 31.81 1345	AUG 17.81 1455	SEP 25.81 1700			
TOTAL CELLS/ML	390	3400	42			
DIVERSITY: DIVISION	0.5	0.8	0.0			
..CLASS	0.5	0.8	0.0			
...ORDER	1.2	1.8	0.0			
...FAMILY	2.4	1.9	0.0			
....GENUS	2.7	2.4	0.0			
ORGANISM	CELLS /ML	PER- CENT	CELLS /ML	PER- CENT	CELLS /ML	PER- CENT
CHLOROPHYTA (GREEN ALGAE)						
..CHLOROPHYCEAE						
...CHLOROCOCCALES						
...HYDRODICTYACEAE						
....PEDIASTRUM	58	15	--	-	--	-
...MICRACTINIACEAE						
....MICRACTINIUM	--	-	--	-	--	-
...OOCYSTACEAE						
....ANKISTRODESMUS	14	4	110	3	--	-
....DICTYOSPHAERIUM	120#	30	--	-	--	-
....KIRCHNERIELLA	14	4	*	0	--	-
....TETRAEDRON	--	-	--	-	--	-
...SCENEDESMACEAE						
....CRUCIGENIA	--	-	110	3	--	-
....SCENEDESMUS	87#	22	140	4	--	-
..VOLVOCELES						
...CHLAMYDOMONADACEAE						
....CHLAMYDOMONAS	43	11	70	2	--	-
..ZYGNEMATALES						
...DESMIDIACEAE						
....STAURASTRUM	14	4	--	-	--	-
CHRYSOPHYTA						
..BACILLARIOPHYCEAE						
...CENTRALES						
...COSCINODISACEAE						
....CYCLOTELLA	--	-	130	4	--	-
....MELOSIRA	--	-	--	-	--	-
..PENNALES						
...ACHNANTHACEAE						
....ACHNANTHES	--	-	--	-	--	-
....COCCONEIS	--	-	*	0	--	-
...RHOICOSPHENIA	--	-	--	-	--	-
...CYMBELLACEAE						
....CYMBELLA	--	-	--	-	42#	100
...DIATOMACEAE						
....DIATOMA	--	-	--	-	--	-
...EUNOTIACEAE						
....EUNOTIA	--	-	--	-	--	-
...FRAGILARIACEAE						
....ASTERIONELLA	--	-	--	-	--	-
....FRAGILARIA	--	-	--	-	--	-
....HANNAEA	--	-	--	-	--	-
....SYNEDRA	14	4	--	-	--	-
...GOMPHONEMATACEAE						
....GOMPHONEMA	--	-	--	-	--	-
...NAVICULACEAE						
....NAVICULA	29	7	--	-	--	-
...NITZSCHIACEAE						
....NITZSCHIA	--	-	42	1	--	-
...TABELLARIACEAE						
....TABELLARIA	--	-	--	-	--	-
CYANOPHYTA (BLUE-GREEN ALGAE)						
..CYANOPHYCEAE						
...CHROOCOCCALES						
...CHROOCOCCACEAE						
....AGMENELLUM	--	-	560#	16	--	-
....ANACYSTIS	--	-	700#	20	--	-
...HORMOGONALES						
...OSCILLATORIACEAE						
....LYNGBYA	--	-	--	-	--	-
....OSCILLATORIA	--	-	1500#	45	--	-
PYRRHOPHYTA (FIRE ALGAE)						
..DINOPHYCEAE						
...PERIDINIALES						
...GLENODINIACEAE						
....GLENODINIUM	--	-	--	-	--	-

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

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

01049265 KENNEBEC RIVER AT NORTH SIDNEY, ME--Continued

SPECIFIC CONDUCTANCE (MICROMHOS/CM AT 25 DEG. C), WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
OCTOBER			NOVEMBER			DECEMBER			JANUARY			
1	74	68	71	64	60	62	56	54	54	62	61	61
2	76	71	74	60	59	59	55	53	54	65	61	63
3	78	75	76	60	59	59	59	53	57	70	64	67
4	85	77	81	60	57	58	57	53	56	70	67	69
5	79	72	75	60	57	58	54	51	52	67	65	66
6	71	68	70	60	58	60	54	52	53	69	65	67
7	73	69	70	61	57	59	55	49	52	69	62	67
8	74	70	72	61	59	60	55	48	51	64	61	63
9	71	68	70	60	57	58	55	54	55	64	63	64
10	75	70	72	61	58	59	59	54	56	65	63	64
11	78	73	75	65	60	63	58	55	56	69	63	66
12	77	72	74	65	64	64	61	55	58	67	65	66
13	77	71	74	65	60	62	69	59	64	69	66	68
14	74	69	71	70	59	62	73	65	69	67	64	66
15	72	69	70	61	58	59	68	64	66	67	65	66
16	71	69	70	62	58	59	69	62	64	66	65	65
17	71	68	70	68	61	65	62	60	61	68	63	66
18	72	65	68	67	63	65	60	60	60	65	63	64
19	72	68	70	66	61	64	60	58	59	64	62	64
20	73	68	70	65	62	63	65	59	62	65	63	64
21	102	67	78	67	60	63	---	---	---	66	64	65
22	85	66	72	67	62	64	---	---	---	66	64	65
23	75	66	68	63	57	61	---	---	---	70	64	67
24	80	69	74	75	57	65	---	---	---	66	65	66
25	75	66	70	86	72	77	---	---	---	67	63	65
26	82	62	71	71	63	66	---	---	---	66	62	64
27	58	52	55	62	59	60	---	---	---	69	62	64
28	62	54	59	72	59	64	---	---	---	70	69	69
29	63	61	61	74	60	69	---	---	---	70	67	69
30	63	62	63	59	54	57	---	---	---	67	65	66
31	63	59	61	---	---	---	69	61	65	68	66	68
MONTH	102	52	70	86	54	62	73	48	58	70	61	66

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
FEBRUARY			MARCH			APRIL			MAY			
1	66	65	65	---	---	---	---	---	---	67	65	66
2	86	65	75	---	---	---	---	---	---	66	64	65
3	87	77	81	65	56	61	65	56	61	66	63	64
4	78	68	72	62	55	59	62	55	59	70	66	67
5	80	70	73	62	58	60	62	58	60	71	68	69
6	73	71	72	61	57	59	61	57	59	87	69	75
7	73	72	72	59	56	58	59	56	58	77	67	73
8	77	73	75	60	57	58	60	57	58	73	67	69
9	76	73	74	61	60	60	61	60	60	68	66	67
10	73	72	73	62	60	61	62	60	61	67	62	65
11	103	70	80	62	60	61	62	60	61	67	61	64
12	90	62	77	64	62	63	64	62	63	68	65	66
13	64	58	60	72	62	64	72	62	64	71	65	68
14	61	56	58	72	66	68	72	66	68	68	62	64
15	60	58	59	71	67	69	71	67	69	61	56	58
16	60	58	59	67	60	62	67	60	62	67	60	63
17	63	60	61	71	60	66	71	60	66	65	53	60
18	64	63	63	72	67	69	72	67	69	52	48	50
19	65	63	64	74	66	70	74	66	70	48	45	46
20	65	60	63	66	61	64	66	61	64	51	46	49
21	65	59	63	70	65	67	70	65	67	55	48	51
22	58	46	51	71	66	69	71	66	69	59	52	55
23	52	44	48	73	66	70	73	66	70	59	57	58
24	56	44	49	76	70	72	76	70	72	57	56	57
25	---	---	---	73	69	70	73	69	70	59	57	58
26	---	---	---	69	67	68	69	67	68	---	---	---
27	---	---	---	68	65	66	68	65	66	---	---	---
28	---	---	---	72	67	70	72	67	70	---	---	---
29	---	---	---	87	71	76	87	71	76	71	63	67
30	---	---	---	72	67	71	72	67	71	72	68	70
31	---	---	---	---	---	---	---	---	---	70	64	68
MONTH	103	44	66	87	55	65	87	55	65	87	45	63

01049265 KENNEBEC RIVER AT NORTH SIDNEY, ME--Continued

SPECIFIC CONDUCTANCE (MICROMHOS/CM AT 25 DEG. C), WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
	JUNE			JULY			AUGUST			SEPTEMBER		
1	63	51	56	65	61	63	---	---	---	70	68	69
2	52	49	50	64	62	63	---	---	---	68	65	67
3	52	50	51	64	62	64	---	---	---	68	64	66
4	63	51	53	67	64	66	---	---	---	66	64	66
5	63	51	54	73	67	70	---	---	---	67	64	66
6	53	50	51	75	72	73	---	---	---	68	65	67
7	54	51	53	73	71	72	---	---	---	68	64	67
8	59	54	57	74	71	72	---	---	---	68	64	66
9	62	56	58	72	67	70	---	---	---	73	66	69
10	61	47	54	72	67	69	---	---	---	67	66	67
11	81	46	64	71	67	70	72	69	71	68	63	65
12	73	46	52	69	66	68	69	66	68	63	58	60
13	53	46	51	75	67	70	76	67	70	68	59	63
14	54	51	52	75	70	73	74	62	66	77	66	70
15	55	51	52	74	69	72	63	61	62	77	70	75
16	55	48	50	73	69	71	80	64	72	77	72	75
17	58	50	54	71	67	68	80	72	76	73	67	71
18	59	53	55	67	64	66	75	68	70	72	65	68
19	70	59	66	---	---	---	70	67	68	70	65	68
20	70	65	67	---	---	---	76	69	72	68	65	66
21	72	64	67	---	---	---	76	72	74	67	63	65
22	73	67	70	---	---	---	76	74	75	67	63	65
23	76	66	70	---	---	---	76	71	74	74	67	70
24	67	56	61	---	---	---	71	69	70	67	53	58
25	61	58	60	---	---	---	72	70	71	59	43	49
26	62	60	61	---	---	---	71	67	69	43	41	42
27	61	59	60	---	---	---	71	67	69	47	43	45
28	63	59	61	---	---	---	71	67	70	53	47	50
29	65	60	62	---	---	---	71	67	69	53	51	52
30	65	59	61	---	---	---	69	64	67	51	50	51
31	---	---	---	---	---	---	69	65	67	---	---	---
MONTH	81	46	58	75	61	69	80	61	70	77	41	63
YEAR	103	41	64									

PH (STANDARD UNITS), WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

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

01049265 KENNEBEC RIVER AT NORTH SIDNEY, ME--Continued

TEMPERATURE, WATER (DEG. C), WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

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

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

KENNEBEC RIVER BASIN

01049265 KENNEBEC RIVER AT NORTH SIDNEY, ME--Continued

TEMPERATURE, WATER (DEG. C), WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

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

OXYGEN, DISSOLVED (DO), MG/L, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
	OCTOBER			NOVEMBER			DECEMBER			JANUARY		
1	9.2	8.8	8.9	11.3	11.0	11.2	12.8	12.7	12.7	13.0	12.9	12.9
2	9.2	8.6	8.9	11.2	11.0	11.1	12.9	12.6	12.8	12.9	12.6	12.8
3	9.1	8.4	8.8	11.4	11.1	11.2	12.6	12.2	12.4	12.9	12.8	12.9
4	9.3	8.6	8.9	11.5	11.3	11.4	12.8	12.3	12.7	12.9	12.8	12.9
5	9.7	9.2	9.5	11.7	11.3	11.5	12.8	12.5	12.7	13.0	12.9	12.9
6	9.7	9.3	9.5	11.6	11.3	11.5	13.1	12.5	12.8	13.1	12.9	13.0
7	9.6	9.2	9.4	11.6	11.3	11.5	13.1	12.9	13.0	13.0	12.8	12.9
8	9.6	9.1	9.3	11.4	11.2	11.3	12.9	12.6	12.8	13.0	12.9	12.9
9	9.6	9.1	9.3	11.4	11.0	11.2	12.7	12.4	12.6	13.1	13.1	13.1
10	9.8	9.1	9.4	11.6	11.2	11.3	12.8	12.5	12.7	13.3	13.2	13.2
11	9.4	9.1	9.3	11.5	11.0	11.2	13.0	12.4	12.7	13.3	12.8	13.2
12	9.8	9.1	9.4	11.4	11.1	11.2	13.0	12.8	12.9	13.4	13.2	13.3
13	9.9	9.4	9.6	11.6	11.2	11.3	12.9	12.8	12.9	13.5	13.4	13.4
14	10.2	9.6	9.9	11.5	11.0	11.2	13.0	12.8	12.9	13.6	13.5	13.6
15	10.4	9.8	10.1	11.6	11.3	11.4	13.1	12.8	12.9	13.6	13.5	13.6
16	10.3	9.9	10.1	11.8	11.4	11.5	12.9	12.8	12.8	13.6	13.5	13.6
17	10.4	10.0	10.2	11.8	11.5	11.6	12.7	12.6	12.7	13.6	13.5	13.6
18	10.3	9.8	10.1	11.8	11.4	11.6	12.7	12.6	12.7	13.6	13.5	13.6
19	10.3	9.7	10.0	11.9	11.4	11.7	12.7	12.5	12.6	13.7	13.5	13.6
20	10.6	10.1	10.3	12.1	11.7	11.9	12.8	12.7	12.8	13.7	13.6	13.7
21	10.9	10.3	10.6	12.0	11.6	11.9	---	---	---	13.9	13.8	13.8
22	10.9	10.5	10.6	12.1	11.3	11.8	---	---	---	13.8	13.7	13.8
23	11.0	10.5	10.7	12.2	11.8	12.0	---	---	---	13.8	13.7	13.8
24	11.3	10.7	10.9	12.3	11.6	12.0	---	---	---	13.9	13.8	13.9
25	10.7	10.4	10.5	12.2	11.8	12.1	---	---	---	14.0	13.8	13.9
26	11.4	10.4	10.9	12.4	12.1	12.3	---	---	---	14.0	13.8	13.9
27	11.7	11.1	11.4	12.6	12.3	12.5	---	---	---	13.8	13.7	13.8
28	11.3	10.8	11.1	12.4	12.2	12.3	---	---	---	13.8	13.7	13.7
29	11.1	10.8	11.0	12.8	12.2	12.5	---	---	---	13.9	13.8	13.8
30	11.2	11.0	11.1	13.0	12.7	12.9	---	---	---	13.9	13.8	13.9
31	11.2	11.0	11.1	---	---	---	13.1	12.9	13.0	13.9	13.8	13.8
MONTH	11.7	8.4	10.0	13.0	11.0	11.7	13.1	12.2	12.8	14.0	12.6	13.5

OXYGEN, DISSOLVED (DO), MG/L, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
FEBRUARY			MARCH			APRIL			MAY			
1	13.9	13.7	13.8				---	---	---	11.2	10.6	10.9
2	13.7	13.5	13.6				---	---	---	10.7	10.4	10.5
3	14.2	13.6	14.0				12.8	12.6	12.7	10.5	10.1	10.3
4	14.1	13.9	14.0				13.0	12.7	12.8	10.6	10.0	10.3
5	13.9	13.9	13.9				12.9	12.7	12.7	10.4	9.8	10.0
6	13.9	13.7	13.8				12.9	12.7	12.8	10.2	9.6	9.9
7	13.7	13.5	13.6				13.0	12.6	12.8	10.2	9.5	9.8
8	13.6	13.4	13.5				12.9	12.3	12.6	10.2	9.5	9.8
9	13.5	13.3	13.4				12.6	12.0	12.3	10.0	9.3	9.6
10	13.8	13.5	13.6				12.5	12.1	12.3	9.9	9.0	9.4
11	13.7	13.4	13.6				12.3	12.1	12.2	9.5	8.6	9.1
12	---	---	---				12.5	12.0	12.2	9.4	8.6	8.9
13	---	---	---				12.5	11.9	12.2	9.2	8.5	8.8
14	---	---	---				12.2	11.7	12.0	10.3	9.2	9.9
15	---	---	---				12.5	11.8	12.2	10.9	9.7	10.4
16	---	---	---				12.8	12.2	12.6	10.7	10.4	10.6
17	13.8	13.5	13.7				12.8	12.4	12.5	11.1	10.7	11.0
18	13.7	13.5	13.6				12.4	12.1	12.2	11.9	11.2	11.6
19	13.7	13.6	13.7				12.8	12.1	12.4	12.2	11.8	12.0
20	13.8	13.5	13.7				12.8	12.4	12.6	11.9	11.4	11.7
21	---	---	---				12.8	12.4	12.5	---	---	---
22	---	---	---				12.7	12.4	12.5	---	---	---
23	---	---	---				12.4	12.1	12.3	---	---	---
24	---	---	---				11.9	11.6	11.8	---	---	---
25	---	---	---				12.0	11.6	11.8	---	---	---
26	---	---	---				12.3	11.8	12.0	---	---	---
27	---	---	---				12.1	11.4	11.8	---	---	---
28	---	---	---				11.7	11.1	11.5	---	---	---
29	---	---	---				11.1	10.9	11.0	8.7	8.3	8.5
30	---	---	---				11.4	10.9	11.1	8.7	8.2	8.4
31	---	---	---				---	---	---	8.9	8.1	8.5
MONTH	14.2	13.3	13.7				13.0	10.9	12.2	12.2	8.1	10.0

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
JUNE			JULY			AUGUST			SEPTEMBER			
1	9.6	9.0	9.4	8.7	7.9	8.3	---	---	---	8.0	7.4	7.7
2	10.1	9.7	9.8	8.4	7.8	8.1	---	---	---	8.1	7.4	7.7
3	10.0	9.4	9.8	8.3	7.7	8.0	---	---	---	8.3	7.4	7.8
4	9.8	9.3	9.5	8.1	7.4	7.7	---	---	---	8.3	7.5	7.8
5	9.8	9.3	9.5	7.6	7.3	7.5	---	---	---	8.3	7.3	7.8
6	9.5	9.0	9.3	7.7	7.2	7.4	---	---	---	8.4	7.6	7.9
7	9.4	8.9	9.2	7.5	6.9	7.2	---	---	---	8.4	7.7	8.0
8	9.3	8.5	9.0	7.4	6.8	7.1	---	---	---	8.1	7.6	7.8
9	8.7	8.4	8.5	7.5	6.6	6.9	---	---	---	8.2	7.4	7.8
10	9.1	8.4	8.8	7.4	6.6	7.0	---	---	---	9.1	7.9	8.4
11	8.9	8.5	8.7	7.5	6.7	7.1	7.9	7.2	7.5	9.0	8.3	8.6
12	9.0	8.5	8.8	7.4	6.7	7.0	7.9	7.2	7.5	8.9	8.1	8.5
13	9.0	8.6	8.8	6.9	6.6	6.7	7.7	7.3	7.5	8.9	8.2	8.5
14	9.0	8.5	8.8	7.2	6.6	6.9	8.1	7.3	7.7	8.9	7.9	8.4
15	8.8	8.5	8.6	7.3	6.6	7.0	7.7	7.3	7.5	8.8	7.8	8.3
16	8.8	8.3	8.5	7.4	6.6	7.0	8.0	7.3	7.6	8.6	7.8	8.1
17	8.6	8.1	8.3	7.8	7.0	7.4	8.0	7.7	7.8	8.8	7.8	8.2
18	8.7	8.0	8.3	7.5	6.9	7.2	8.4	7.8	8.1	8.6	7.8	8.2
19	8.6	7.9	8.3	---	---	---	8.4	7.9	8.2	8.2	7.8	7.9
20	8.3	7.7	8.0	---	---	---	8.5	7.8	8.1	8.1	7.4	7.7
21	8.7	7.8	8.2	---	---	---	8.2	7.7	7.9	8.1	7.4	7.7
22	8.4	8.1	8.3	---	---	---	8.2	7.5	7.8	7.8	7.5	7.6
23	8.9	8.5	8.7	---	---	---	8.3	7.5	7.8	8.9	7.5	7.9
24	9.3	8.5	9.0	---	---	---	8.0	7.5	7.7	10.3	9.0	9.7
25	8.9	8.5	8.8	---	---	---	8.3	7.4	7.8	10.9	10.6	10.7
26	8.8	8.4	8.6	---	---	---	8.2	7.4	7.8	10.6	10.1	10.4
27	8.7	8.2	8.5	---	---	---	8.0	7.3	7.6	10.2	9.4	9.9
28	8.6	8.0	8.3	---	---	---	8.2	7.4	7.8	9.6	9.4	9.5
29	8.7	8.0	8.4	---	---	---	8.1	7.4	7.8	10.0	9.6	9.8
30	8.7	8.0	8.4	---	---	---	8.4	7.4	7.9	10.4	9.9	10.2
31	---	---	---	---	---	---	8.0	7.5	7.8	---	---	---
MONTH	10.1	7.7	8.8	8.7	6.6	7.3	8.5	7.2	7.8	10.9	7.3	8.5
Period	14.2	6.6	10.6									

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 (8.5 m) upstream from culvert under road between U.S. Highway 202 and State Highway 135, 1,800 ft (550 m) upstream from mouth, and 1.8 mi (2.9 km) north of Manchester.

DRAINAGE AREA.--0.93 mi² (2.41 km²).

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

GAGE.--Water-stage recorder and concrete control. Altitude of gage is 210 ft (64.0 m), from topographic map.

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

AVERAGE DISCHARGE.--17 years (water years 1965-81), 2.01 ft³/s (0.057 m³/s), 29.35 in/yr (745 mm/yr).

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

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

Date	Time	Discharge (ft ³ /s) (m ³ /s)	Gage height (ft) (m)	Date	Time	Discharge (ft ³ /s) (m ³ /s)	Gage height (ft) (m)
Feb. 2	1515	* 50 1.42	4.88 1.487	Feb. 11	1400	31 0.88	4.64 1.414

Minimum discharge, 0.12 ft³/s (0.003 m³/s) Jul. 12, 13, 17, 18, 26, 27, gage height, 3.46 ft (1.055 m).

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.24	.58	2.2	.18	.27	2.1	2.2	1.5	.73	.15	.40	.15
2	.27	.58	1.7	.18	9.3	2.3	7.4	1.1	.48	.15	.26	.15
3	.81	.38	3.4	.18	5.8	1.9	4.0	.97	.40	.15	.23	.18
4	1.1	.50	2.0	.18	1.8	1.4	2.6	.79	.44	.14	.20	.18
5	.46	.46	1.2	.18	.97	1.3	2.2	.73	.73	.40	.44	.18
6	.38	.46	1.0	.18	.70	1.5	2.6	.73	.58	6.9	.91	.18
7	.35	.42	.85	.18	.50	2.1	1.9	.79	.73	.53	.48	.18
8	.35	.58	.97	.18	.36	1.9	1.5	.73	.44	.53	.36	.18
9	.33	.54	1.3	.18	.32	1.7	1.3	.68	2.7	.36	.26	1.2
10	.30	.54	1.1	.18	.28	1.6	1.3	.58	2.1	.36	.29	.63
11	.30	.50	.84	.18	9.8	1.4	1.2	.58	.68	.20	.29	.44
12	.81	.50	.64	.18	3.2	1.3	1.2	.91	.48	.15	.23	.32
13	.81	.38	.53	.18	1.2	1.2	1.0	3.6	.36	.58	.20	.26
14	.62	.38	.45	.18	.79	1.2	1.8	1.8	.32	.97	.20	.20
15	.54	.33	.40	.18	.73	1.1	2.8	1.0	.23	.53	.44	.14
16	.46	.30	.34	.18	.91	.97	1.3	12	.36	.26	8.4	.14
17	.46	.22	.30	.18	1.2	.97	1.3	7.1	.40	.18	3.0	.14
18	.86	.20	.27	.18	1.3	.85	1.6	2.7	.26	.12	.97	.14
19	1.5	.22	.25	.18	1.7	.79	1.4	1.6	.20	.20	.53	.18
20	.98	.25	.22	.18	3.4	.73	1.1	1.2	.20	.23	.36	.29
21	.71	.27	.21	.18	9.6	.85	1.0	1.1	1.2	5.3	.32	.23
22	.62	.28	.20	.18	3.4	1.0	.85	.91	2.1	1.8	.26	.85
23	.58	.29	.19	.18	2.4	.97	.85	.68	2.3	.53	.26	4.8
24	.58	.30	.19	.18	2.3	.97	2.3	.58	.68	.26	.32	7.1
25	2.1	10	.19	.18	3.2	.97	1.9	.48	.44	.18	.32	3.6
26	11	4.2	.18	.19	4.0	.97	1.3	.48	.73	.15	.26	1.2
27	2.5	1.2	.18	.19	3.2	.97	.97	.44	.48	.97	.23	.79
28	1.2	2.1	.18	.20	2.3	2.2	.85	.36	.32	.44	.18	.68
29	.86	16	.18	.20	---	3.6	1.5	.40	.23	3.7	.18	.58
30	.66	4.2	.18	.21	---	3.4	3.0	.58	.15	2.0	.15	.40
31	.66	---	.18	.23	---	3.6	---	.79	---	.73	.15	---
TOTAL	33.40	47.16	22.02	5.72	74.93	47.81	56.22	47.89	21.45	29.15	21.08	25.69
MEAN	1.08	1.57	.71	.18	2.68	1.54	1.87	1.54	.72	.94	.68	.86
MAX	11	16	3.4	.23	9.8	3.6	7.4	12	2.7	6.9	8.4	7.1
MIN	.24	.20	.18	.18	.27	.73	.85	.36	.15	.12	.15	.14
CFSM	1.16	1.69	.76	.19	2.88	1.66	2.01	1.66	.77	1.01	.73	.93
IN.	1.33	1.88	.88	.23	2.99	1.91	2.25	1.91	.86	1.16	.84	1.03

CAL YR 1980	TOTAL 437.25	MEAN 1.19	MAX 25	MIN .06	CFSM 1.28	IN 17.47
WTR YR 1981	TOTAL 432.52	MEAN 1.18	MAX 16	MIN .12	CFSM 1.27	IN 17.28

01049373 MILL STREAM AT WINTHROP, ME

LOCATION.--Lat 44°18'24", long 69°58'18", Kennebec County, Hydrologic Unit 01030003, on right bank 500 ft (150 m) downstream from bridge on Main Street, at Winthrop.

DRAINAGE AREA.--32.7 mi² (84.7 km²), revised.

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

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

REMARKS.--Records good.

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

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 111 ft³/s (3.14 m³/s) Feb. 22, gage height, 2.75 ft (0.838 m); minimum, 1.2 ft³/s (0.034 m³/s) Nov. 24, gage height, 1.02 ft (0.311 m).

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	5.3	7.0	68	21	10	95	48	48	34	17	16	11
2	5.5	5.7	70	21	16	92	61	48	30	17	16	11
3	5.5	4.0	71	21	28	89	71	47	28	17	15	11
4	6.4	3.2	72	21	31	86	74	44	28	19	15	11
5	5.7	2.7	69	19	32	82	75	42	29	24	15	11
6	4.6	4.4	67	18	32	79	75	40	28	29	15	11
7	4.0	7.1	65	19	33	78	74	40	27	28	15	12
8	4.2	6.4	62	19	33	76	70	37	24	21	16	17
9	3.7	4.0	60	19	33	71	67	36	25	17	16	17
10	3.4	3.2	58	19	32	67	67	34	27	17	15	16
11	4.0	3.1	55	19	38	66	64	32	26	17	15	16
12	4.2	3.3	52	18	73	64	62	32	25	17	15	17
13	3.4	3.0	50	17	80	61	56	36	25	17	15	16
14	2.7	3.0	49	16	79	60	53	37	23	17	16	16
15	4.3	3.3	45	16	74	56	57	36	21	17	17	15
16	6.8	3.3	44	15	70	53	54	46	21	17	18	15
17	6.4	4.5	42	16	66	50	53	58	21	17	18	14
18	6.3	5.4	40	15	64	47	54	58	19	17	16	14
19	4.7	2.8	38	14	62	44	55	56	17	16	16	14
20	3.5	2.3	37	13	64	43	54	54	18	13	16	13
21	3.0	2.4	36	13	96	42	50	55	20	14	16	12
22	2.8	2.8	33	12	110	37	47	65	21	14	17	12
23	2.4	2.8	31	12	110	35	44	61	24	14	17	14
24	2.3	2.3	30	12	105	34	45	54	26	13	16	23
25	5.5	4.6	30	12	101	33	47	49	23	15	11	31
26	4.5	12	28	12	100	31	48	45	21	15	11	34
27	2.9	15	27	11	100	33	46	43	20	14	11	35
28	2.5	19	26	11	95	36	43	39	19	13	11	35
29	2.3	52	23	10	---	39	43	37	18	15	12	34
30	4.4	65	22	10	---	43	46	35	17	15	12	31
31	8.4	---	21	10	---	47	---	36	---	15	11	---
TOTAL	135.6	259.6	1421	481	1767	1769	1703	1380	705	528	461	539
MEAN	4.37	8.65	45.8	15.5	63.1	57.1	56.8	44.5	23.5	17.0	14.9	18.0
MAX	8.4	65	72	21	110	95	75	65	34	29	18	35
MIN	2.3	2.3	21	10	10	31	43	32	17	13	11	11
CFSM	.13	.27	1.40	.47	1.93	1.75	1.74	1.36	.72	.52	.46	.55
IN.	.15	.30	1.62	.55	2.01	2.01	1.94	1.57	.80	.60	.52	.61
CAL YR 1980	TOTAL	12715.6	MEAN 34.7	MAX 210	MIN 2.1	CFSM 1.06	IN 14.47					
WTR YR 1981	TOTAL	11149.2	MEAN 30.5	MAX 110	MIN 2.3	CFSM .93	IN 12.68					

01049396 JOCK STREAM AT SOUTH MONMOUTH, ME

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

DRAINAGE AREA.--13.7 mi² (35.5 km²), revised.

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

GAGE.--Water-stage recorder. Datum of gage is 169.00 ft (51.511 m) National Geodetic Vertical Datum of 1929.

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

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

EXTREMES FOR CURRENT YEAR.--Peak discharges above base of 220 ft³/s (6.2 m³/s) and maximum (*):

Date	Time	Discharge (ft ³ /s) (m ³ /s)	Gage height (ft) (m)	Date	Time	Discharge (ft ³ /s) (m ³ /s)	Gage height (ft) (m)
Nov. 29	0530	271 7.67	5.58 1.701	Sep. 24	0500	291 8.24	5.65 1.722
Feb. 12	0215	* 336 9.52	6.02 1.835				

Minimum discharge, 1.5 ft³/s (0.042 m³/s) Aug. 31, Sept. 8, 9, gage height, 1.74 ft (0.530 m).

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1.9	8.5	48	4.1	3.6	40	27	15	8.5	2.0	7.2	2.2
2	1.8	7.0	33	4.0	65	37	86	12	5.7	2.0	5.2	2.7
3	1.7	6.4	39	3.9	130	32	73	9.5	4.5	2.0	4.5	2.8
4	5.5	7.2	31	3.8	72	23	41	8.8	4.1	2.0	6.0	2.7
5	4.8	6.6	23	3.7	34	19	36	8.8	4.1	3.3	6.0	3.0
6	3.4	5.7	18	3.6	24	16	37	8.1	3.7	17	7.5	2.4
7	2.6	5.1	17	3.6	13	18	32	7.8	4.1	26	5.7	1.9
8	2.1	5.0	17	3.5	9.5	21	27	7.2	3.2	9.2	5.0	1.6
9	2.3	4.7	19	3.5	8.8	17	21	6.3	4.8	6.9	3.5	5.2
10	3.6	4.9	17	3.4	7.5	16	17	6.3	6.6	3.7	4.8	4.5
11	4.0	4.7	15	3.4	97	14	15	6.0	4.5	2.5	4.8	3.9
12	4.6	4.4	11	3.4	251	14	15	6.9	3.7	2.1	3.7	3.3
13	4.0	4.1	11	3.3	86	14	12	17	3.3	3.7	3.5	3.0
14	3.9	3.9	9.6	3.3	42	13	17	12	2.8	7.2	3.9	2.7
15	6.9	3.7	8.1	3.2	25	11	35	8.5	2.7	7.2	4.1	2.5
16	4.5	3.5	7.7	3.2	18	10	22	61	2.7	4.8	52	2.4
17	3.4	3.2	7.4	3.2	17	11	18	65	2.7	4.1	47	2.2
18	3.3	3.6	7.0	3.1	23	14	18	31	2.4	3.9	22	2.4
19	5.8	3.8	6.7	3.1	24	12	15	18	2.2	4.8	19	2.5
20	4.6	3.7	6.3	3.1	39	9.9	11	13	2.1	5.0	14	3.0
21	3.8	3.5	6.0	3.1	169	9.2	11	12	5.0	48	8.1	3.2
22	3.1	4.2	5.8	3.1	98	9.5	9.5	12	12	36	6.9	5.0
23	2.6	4.4	5.6	3.0	51	9.5	9.2	9.5	13	11	6.3	77
24	2.6	4.4	5.4	3.0	41	8.8	22	7.8	6.3	5.7	5.7	238
25	3.5	99	5.2	3.0	54	8.5	23	6.9	3.9	3.5	4.1	96
26	67	90	5.0	3.0	70	7.5	17	6.0	5.0	2.2	3.5	49
27	34	42	4.8	3.0	68	10	12	5.5	4.3	7.5	2.5	36
28	20	30	4.6	3.0	48	26	9.9	5.0	3.0	11	2.1	31
29	16	223	4.5	3.1	---	36	13	4.3	2.5	37	1.7	24
30	12	100	4.3	3.3	---	36	24	4.3	2.0	34	1.6	18
31	10	---	4.2	3.4	---	38	---	7.2	---	13	2.1	---
TOTAL	249.3	700.2	407.2	103.4	1588.4	560.9	725.6	408.7	135.4	328.3	274.0	634.1
MEAN	8.04	23.3	13.1	3.34	56.7	18.1	24.2	13.2	4.51	10.6	8.84	21.1
MAX	67	223	48	4.1	251	40	86	65	13	48	52	238
MIN	1.7	3.2	4.2	3.0	3.6	7.5	9.2	4.3	2.0	2.0	1.6	1.6
CFSM	.59	1.70	.96	.24	4.14	1.32	1.77	.96	.33	.77	.65	1.54
IN.	.68	1.90	1.11	.28	4.31	1.52	1.97	1.11	.37	.89	.74	1.72
CAL YR 1980	TOTAL	5597.51	MEAN 15.3	MAX 381	MIN .50	CFSM 1.12	IN 15.20					
WTR YR 1981	TOTAL	6115.50	MEAN 16.8	MAX 251	MIN 1.6	CFSM 1.23	IN 16.60					

01049400 COBBOSSEECONTEE LAKE AT EAST WINTHROP, ME

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

DRAINAGE AREA.--131 mi² (339 km²).

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

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

REMARKS.--Records good.

EXTREMES FOR PERIOD OF RECORD.--Maximum daily gage height, 168.41 ft (51.331 m) Apr. 30, May 1, 1979; minimum daily, 162.90 ft (49.652 m) Nov. 5, 1975.

EXTREMES FOR CURRENT YEAR.--Maximum daily gage height, 167.72 ft (51.121 m) May 17, 18, Jul. 22; minimum daily, 164.02 ft (49.993 m) Nov. 16.

ELEVATION (FEET NGVD), WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	166.94	164.90	164.85	165.32	165.45	166.53	166.95	167.43	167.64	167.53	167.58	166.86
2	166.97	164.77	164.91	165.34	165.46	166.57	167.06	167.43	167.62	167.52	167.59	166.85
3	166.96	164.65	164.94	165.37	165.47	166.59	167.16	167.42	167.60	167.53	167.60	166.83
4	166.98	164.54	164.97	165.37	165.48	166.59	167.20	167.41	167.57	167.53	167.60	166.81
5	166.95	164.42	165.00	165.37	165.48	166.59	167.23	167.43	167.56	167.55	167.62	166.79
6	166.90	164.31	165.05	165.37	165.46	166.58	167.26	167.44	167.55	167.67	167.67	166.77
7	166.86	164.20	165.08	165.39	165.43	166.58	167.28	167.43	167.54	167.61	167.66	166.76
8	166.82	164.11	165.12	165.41	165.42	166.57	167.31	167.44	167.51	167.55	167.65	166.74
9	166.76	164.09	165.17	165.40	165.44	166.55	167.33	167.44	167.51	167.55	167.62	166.78
10	166.86	164.09	165.18	165.40	165.42	166.53	167.34	167.43	167.53	167.54	167.57	166.79
11	166.63	164.07	165.18	165.42	165.42	166.50	167.34	167.43	167.51	167.52	167.51	166.77
12	166.60	164.06	165.20	165.41	165.59	166.47	167.34	167.44	167.50	167.50	167.43	166.77
13	166.52	164.05	165.23	165.40	165.65	166.44	167.34	167.50	167.48	167.50	167.36	166.75
14	166.43	164.04	165.24	165.40	165.66	166.41	167.35	167.52	167.46	167.52	167.32	166.73
15	166.34	164.03	165.25	165.40	165.66	166.37	167.38	167.52	167.43	167.54	167.29	166.72
16	166.25	164.02	165.26	165.39	165.66	166.37	167.37	167.62	167.42	167.53	167.41	166.70
17	166.17	164.06	165.29	165.39	165.66	166.37	167.36	167.72	167.42	167.52	167.46	166.68
18	166.11	164.08	165.29	165.39	165.66	166.39	167.36	167.72	167.41	167.52	167.39	166.67
19	166.06	164.08	165.29	165.38	165.66	166.39	167.37	167.70	167.40	167.54	167.33	166.65
20	165.98	164.07	165.30	165.37	165.67	166.41	167.35	167.69	167.39	167.54	167.25	166.65
21	165.90	164.06	165.30	165.36	165.81	166.42	167.34	167.67	167.43	167.65	167.17	166.62
22	165.81	164.06	165.30	165.36	165.93	166.44	167.32	167.66	167.46	167.72	167.13	166.59
23	165.72	164.08	165.29	165.35	166.01	166.47	167.28	167.65	167.51	167.71	167.11	166.68
24	165.63	164.25	165.29	165.36	166.07	166.49	167.28	167.65	167.50	167.66	167.08	166.89
25	165.55	164.32	165.30	165.37	166.14	166.51	167.29	167.66	167.50	167.60	167.03	166.99
26	165.63	164.34	165.29	165.38	166.26	166.55	167.32	167.67	167.52	167.55	167.01	166.99
27	165.50	164.44	165.29	165.39	166.37	166.61	167.33	167.67	167.53	167.55	166.98	166.99
28	165.38	164.69	165.29	165.40	166.45	166.68	167.34	167.66	167.53	167.56	166.95	166.98
29	165.26	164.77	165.30	165.42	---	166.75	167.36	167.64	167.53	167.57	166.93	166.94
30	165.14	164.81	165.31	165.43	---	166.81	167.41	167.63	167.53	167.58	166.91	166.87
31	165.02	---	165.32	165.44	---	166.88	---	167.63	---	167.57	166.88	---
MEAN	166.21	164.28	165.20	165.39	165.71	166.53	167.30	167.56	167.50	167.57	167.33	166.79
MAX	166.98	164.90	165.32	165.44	166.45	166.88	167.41	167.72	167.64	167.72	167.67	166.99
MIN	165.02	164.02	164.85	165.32	165.42	166.37	166.95	167.41	167.39	167.50	166.88	166.59
CAL YR 1980	MEAN 165.99		MAX 167.69	MIN 164.02								
WTR YR 1981	MEAN 166.45		MAX 167.72	MIN 164.02								

01049500 COBBOSSEECONTEE STREAM AT GARDINER, ME

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

DRAINAGE AREA.--217 mi² (562 km²).

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

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

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

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

AVERAGE DISCHARGE.--79 years (water years 1891-64, 1977-81), 341 ft³/s (9.66 m³/s).

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

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 972 ft³/s (27.5 m³/s) Sept. 30, gage height, 5.85 ft (1.783 m); minimum daily, 16 ft³/s (0.45 m³/s) Oct. 1, 2.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	16	506	150	154	106	498	147	198	149	44	185	149
2	16	495	149	162	200	445	150	185	145	42	41	110
3	17	490	148	154	323	400	153	170	145	42	39	39
4	24	476	150	152	328	358	210	160	147	42	40	39
5	21	480	271	152	330	328	238	140	149	46	45	40
6	20	439	262	149	320	305	441	128	149	46	138	40
7	20	430	247	149	303	285	445	126	149	48	277	40
8	25	416	238	149	288	270	422	130	149	134	244	40
9	28	274	241	96	285	260	404	128	149	173	222	39
10	33	200	319	33	267	250	386	128	149	168	225	58
11	44	187	319	41	397	240	365	128	151	165	236	97
12	55	180	295	118	711	230	345	130	154	168	241	99
13	72	173	277	152	703	220	336	121	154	170	277	100
14	71	170	259	153	615	212	330	97	158	173	253	95
15	106	166	238	154	544	200	336	117	161	170	244	93
16	476	160	230	111	489	185	336	165	165	170	301	91
17	386	158	227	39	440	178	320	295	173	117	464	93
18	98	156	209	50	413	168	310	461	45	44	478	156
19	141	154	209	56	397	157	295	569	115	41	468	189
20	185	152	197	66	400	149	275	505	156	41	451	185
21	292	150	189	73	531	140	260	451	158	55	432	170
22	425	150	187	78	573	135	245	380	161	45	401	156
23	462	150	189	81	580	130	230	298	156	42	353	185
24	412	150	194	86	544	128	215	277	158	253	309	345
25	391	150	185	92	515	125	208	256	134	347	277	410
26	525	150	180	96	543	123	200	175	182	328	259	445
27	532	150	175	99	584	122	192	145	178	311	233	455
28	532	150	168	100	587	123	185	147	175	274	207	468
29	439	150	165	102	---	128	182	147	110	271	199	461
30	443	150	163	105	---	135	190	147	41	303	175	711
31	517	---	156	106	---	142	---	149	---	306	140	---
TOTAL	6824	7362	6586	3308	12316	6769	8351	6653	4365	4579	7854	5598
MEAN	220	245	212	107	440	218	278	215	146	148	253	187
MAX	532	506	319	162	711	498	445	569	182	347	478	711
MIN	16	150	148	33	106	122	147	97	41	41	39	39
CAL YR 1980	TOTAL	90515	MEAN 247	MAX	1750	MIN 16						
WTR YR 1981	TOTAL	80565	MEAN 221	MAX	711	MIN 16						

Reservoirs in Kennebec River Basin

- 01038500 BRASSUA LAKE on Moose River, 4 mi (6 km) southwest of Rockwood, Maine, completed in 1928 for power, has usable capacity of 8,560,000,000 ft³ (242,400,000 m³) between elevations 1,043.0 ft (317.91 m) and 1,073.0 ft (327.05 m). Elevation record furnished by Kennebec Water Power Co.
- 01040000 FIRST ROACH POND on Roach River, at Kokadjo, Maine, used for power, has usable capacity of 938,000,000 ft³ (26,560,000 m³) between gage heights 1.0 ft (0.30 m) and 8.0 ft (2.44 m). Gage-height record furnished by Kennebec Water Power Co.
- 01040500 MOOSEHEAD LAKE on Kennebec River (see p.99).
- 01041500 INDIAN POND on Kennebec River, in T. 1, R. 6, Maine, 13 mi (21 km) downstream from east outlet of Moosehead Lake, completed in 1954 for power, has capacity of 830,000,000 ft³ (23,510,000 m³) in normal operating range between elevations 950.0 ft (289.56 m) and 955.0 ft (291.08 m); total capacity of pond, 3,150,000,000 ft³ (89,210,000 m³) below elevation 955.0 ft (291.08 m). Elevation record furnished by Central Maine Power Co.
- 01042000 MOXIE POND on Moxie Stream, 4.8 mi (7.7 km) east of The Forks, Maine, used for power, has usable capacity of 640,000,000 ft³ (18,120,000 m³) between gage heights 6.0 ft (1.83 m) and 14.0 ft (4.27 m). Gage-height record furnished by Kennebec Water Power Co.
- 01043000 FLAGSTAFF LAKE on Dead River, in T. 3, R. 4, Maine, 0.8 mi (1.3 km) upstream from Black Brook, completed in 1950 for power, has usable capacity of 12,050,000,000 ft³ (341,300,000 m³) between elevations 1,110.0 ft (338.33 m) and 1,146.0 ft (349.30 m). Elevation record furnished by Kennebec Water Power Co.
- 01045500 WYMAN POND on Kennebec River, 1.5 mi (2.4 km) upstream from Bingham, Maine, completed in 1930 for power, has capacity of 2,630,000,000 ft³ (74,480,000 m³) in normal operating range between elevations 465.0 ft (141.73 m) and 485.0 ft (147.83 m); total capacity of pond, 9,080,000,000 ft³ (257,100,000 m³) below elevation 485.0 ft (147.83 m). Elevation record furnished by Central Maine Power Co.

MONTHEND CONTENTS, IN MILLIONS OF CUBIC FEET, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DATE	BRASSUA LAKE	FIRST ROACH POND	INDIAN POND	MOXIE POND	FLAGSTAFF LAKE	WYMAN POND
SEPT. 30, 1980	4765	450	2970	460	5497	8930
OCT. 31	2074	289	2800	274	6100	9040
NOV. 30	2180	0	3204	0	7200	9100
DEC. 31	1898	0	2953	0	8625	8870
JAN. 31, 1981	322	0	2970	0	6859	8870
FEB. 29	1503	0	3042	577	9570	8940
MAR. 31	3910	911	3042	460	8112	9100
APR. 30	9152	980	2749	757	11728	8980
MAY 31	9281	924	3348	730	12543	9100
JUNE 30	9281	897	3312	712	12460	8990
JULY 31	8728	924	3204	712	11032	9050
AUG. 31	8980	870	3204	685	10730	8650
SEPT. 30	9195	980	3330	730	11184	9080

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

01052500 DIAMOND RIVER NEAR WENTWORTH LOCATION, NH

LOCATION.--Lat 44°52'40", long 71°03'25", Coos County, Hydrologic Unit 01040001, on left bank 1.0 mi (1.6 km) upstream from mouth and 1.6 mi (2.6 km) north of Wentworth Location.

DRAINAGE AREA.--152 mi² (394 km²), revised.

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

GAGE.--Water-stage recorder. Altitude of gage is 1,275 ft (389 m), from topographic map.

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

AVERAGE DISCHARGE.--40 years, 349 ft³/s (9.883 m³/s), 31.18 in/yr (792 mm/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 8,630 ft³/s (244 m³/s) June 16, 1943, gage height, 10.66 ft (3.249 m), from rating curve extended above 4,300 ft³/s (120 m³/s); maximum gage height, 12.23 ft (3.728 m) Feb. 21, 1981, (ice jam); minimum discharge, 6.8 ft³/s (0.19 m³/s) Aug. 27, 28, 1949, Sept. 1, 1952, gage height, 0.81 ft (0.247 m).

EXTREMES FOR CURRENT YEAR.--Peak discharges above base of 3,600 ft³/s (100 m³/s) and maximums (*):

Date	Time	Discharge (ft ³ /s) (m ³ /s)	Gage height (ft) (m)	Date	Time	Discharge (ft ³ /s) (m ³ /s)	Gage height (ft) (m)
Feb. 21	0700	* 3620 103	*a 12.23 3.728				

a Ice jam

Minimum discharge, 38 ft³/s (1.08 m³/s) July 26, gage height, 1.35 ft (0.411 m).

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	172	286	266	110	51	457	1290	421	689	117	122	84
2	158	265	244	110	100	384	1510	424	396	104	84	77
3	458	225	524	105	250	330	1190	366	308	92	67	69
4	1100	227	371	100	215	265	1640	311	399	86	106	63
5	1020	303	292	100	180	254	2240	284	798	90	860	58
6	531	329	272	97	160	277	2180	272	450	137	2200	55
7	384	265	253	93	145	260	1130	275	825	123	1170	51
8	314	742	267	89	135	227	822	241	598	99	511	49
9	265	625	605	85	125	208	869	211	604	72	346	257
10	229	420	485	82	115	196	1080	192	758	63	412	185
11	220	344	314	77	105	184	817	184	486	54	305	166
12	292	284	225	73	850	177	785	213	416	47	287	134
13	395	265	215	71	700	170	635	534	442	81	224	103
14	312	255	205	66	580	161	611	465	358	345	192	82
15	252	232	195	63	460	133	667	308	288	270	164	76
16	229	204	190	62	370	159	602	1140	351	128	844	74
17	227	184	180	60	320	124	582	2230	304	83	954	65
18	252	195	170	60	285	126	702	1060	251	67	1210	61
19	289	188	165	59	800	134	914	623	200	66	518	64
20	249	184	165	59	1850	132	652	469	206	60	343	131
21	239	168	160	58	3260	122	619	382	444	75	264	137
22	222	178	155	57	3100	116	581	351	453	77	208	376
23	206	154	150	57	2130	116	573	350	693	60	179	1090
24	184	170	145	58	1670	123	627	286	375	49	160	2370
25	184	638	140	59	1660	122	670	251	260	43	170	1350
26	1070	462	135	59	1120	126	560	491	231	39	138	516
27	886	257	130	60	678	145	460	436	270	57	118	379
28	506	254	125	61	503	145	360	358	204	68	112	646
29	398	366	120	59	---	257	410	284	161	384	98	559
30	326	330	115	58	---	815	538	270	135	605	89	384
31	292	---	115	53	---	1640	---	860	---	233	85	---
TOTAL	11861	8999	7093	2260	21917	8085	26316	14542	12353	3874	12540	9711
MEAN	383	300	229	72.9	783	261	877	469	412	125	405	324
MAX	1100	742	605	110	3260	1640	2240	2230	825	605	2200	2370
MIN	158	154	115	53	51	116	360	184	135	39	67	49
CFSM	2.52	1.97	1.51	.48	5.15	1.72	5.77	3.09	2.71	.82	2.66	2.13
IN.	2.90	2.20	1.74	.55	5.36	1.98	6.44	3.56	3.02	.95	3.07	2.38
CAL YR 1980	TOTAL	101009	MEAN 276	MAX 1930	MIN 32	CFSM 1.82	IN 24.72					
WTR YR 1981	TOTAL	139551	MEAN 382	MAX 3260	MIN 39	CFSM 2.51	IN 34.15					

01053500 ANDROSCOGGIN RIVER AT ERROL, NH

LOCATION.--Lat 44°46'57", long 71°07'46", Coos County, Hydrologic Unit 01040001, on right bank 0.4 mi (0.6 km) downstream from Errol Dam, 0.4 mi (0.6 km) northeast of Errol, and 0.6 mi (1.0 km) upstream from Clear Stream.

DRAINAGE AREA.--1,046 mi² (2,709 km²), revised.

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.--WSP 1001: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 1,227.30 ft (374.081 m) National Geodetic Vertical Datum of 1929. Prior to Dec. 8, 1943, nonrecording gage at Errol Dam at datum 5.0 ft (1.52 m) higher.

REMARKS.--Records good. Flow regulated by Rangeley, Mooselookmeguntic, Richardson, Aziscohos, and Umbagog Lakes (Reservoirs in Androscoggin River Basin), combined usable capacity, 28,100,000,000 ft³ (796,000,000 m³), with final regulation at Errol Dam. Several observations of water temperature and specific conductance were made during the year.

AVERAGE DISCHARGE.--76 years, 1,900 ft³/s (53.81 m³/s).

EXTREMES FOR PERIOD OF RECORD.--Maximum daily discharge, 16,100 ft³/s (456 m³/s) May 22, 1969; minimum daily, leakage only at various times when gates in dam were closed.

EXTREMES FOR CURRENT YEAR.--Maximum daily discharge, 6,180 ft³/s (175 m³/s) Feb. 24; minimum daily, 352 ft³/s (9.97 m³/s) Apr. 1.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1320	1320	1270	1890	1680	2460	352	991	2020	1850	1770	1970
2	1330	1520	1270	1890	1630	1780	397	973	1800	1880	1860	1990
3	1220	1530	1260	1830	1530	1560	434	982	1790	2080	1970	1970
4	1030	1530	1270	1840	1610	1500	593	1120	1770	2080	1850	1960
5	756	1460	1420	1870	1620	1500	1070	1240	1760	2060	1740	1940
6	1010	1520	1490	1910	1620	1370	2860	1280	1760	2010	1450	2090
7	1230	1520	1410	1870	1620	1420	2600	1280	1760	1910	1490	2060
8	1170	2270	1410	1830	1630	1470	1960	1330	1770	1990	1490	2050
9	1180	2120	1410	1870	1610	1410	1380	1320	1950	2070	1630	2000
10	1260	1350	1420	1870	1580	1520	1260	1380	2140	2130	1710	1990
11	1270	1380	1480	1880	1510	1440	1260	1410	2180	2120	1710	1990
12	1210	1410	1530	1910	938	1450	1300	1400	2170	2110	1680	2000
13	1210	1400	1520	1910	1200	1450	1510	1130	2130	2100	1730	2010
14	1220	1400	1540	1900	1220	1430	1700	1050	2150	1980	1730	1990
15	1290	1380	1580	1880	1230	1460	1390	1110	2470	2050	1720	1970
16	1300	1370	1590	1870	1290	1500	905	1010	2880	2060	1550	1990
17	1300	1380	1640	1880	1340	1490	1750	610	2890	2090	1410	1930
18	1280	1360	1710	1880	1340	1500	1280	503	2270	2080	1460	2030
19	1220	1380	1720	1850	1270	1560	1030	857	1990	2090	1500	1950
20	1290	1450	1720	1820	1050	1560	1010	1060	1810	2090	1670	1830
21	1290	1470	1750	1800	1930	1510	1130	1130	1740	2090	1740	1920
22	1290	1490	1820	1800	4960	1490	1330	1230	1730	2070	1750	1920
23	1330	1500	1810	1800	5260	1560	1330	1430	1580	2070	1760	1330
24	1350	1520	1800	1800	6180	1560	1230	1410	1690	2060	1770	559
25	1350	1260	1800	1800	4860	1520	1070	1350	1880	2070	1800	855
26	1370	1140	1820	1800	1560	1480	1010	1420	1950	2090	1920	1440
27	917	1250	1860	1800	1630	1470	1130	1420	1890	2100	2000	1540
28	931	1250	1880	1810	2030	1460	1240	1400	1880	2090	1990	1720
29	1080	1260	1890	1810	---	1450	1260	1400	1880	1920	1990	1680
30	1050	1270	1840	1770	---	787	1030	1400	1860	1690	1960	1670
31	1260	---	1810	1700	---	412	---	1870	---	1790	1950	---
TOTAL	37314	43460	49740	57140	56928	45529	37801	37496	59540	62870	53750	54344
MEAN	1204	1449	1605	1843	2033	1469	1260	1210	1985	2028	1734	1811
MAX	1370	2270	1890	1910	6180	2460	2860	1870	2890	2130	2000	2090
MIN	756	1140	1260	1700	938	412	352	503	1580	1690	1410	559
CAL YR 1980 TOTAL	509108			MEAN 1391	MAX 2300	MIN 536						
WTR YR 1981 TOTAL	595912			MEAN 1633	MAX 6180	MIN 352						

01054000 ANDROSCOGGIN RIVER NEAR GORHAM, NH

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

DRAINAGE AREA.--1,361 mi² (3,525 km²), revised.

PERIOD OF RECORD.--October 1913 to current year. October 1922 to February 1929, monthly discharge only, published in WSP 1301. Prior to October 1928, published as "at Berlin."

GAGE.--Water-stage recorder. Datum of gage is 832.88 ft (253.862 m) National Geodetic Vertical Datum of 1929. Prior to Sept. 30, 1922, nonrecording gage showing head and tailwater elevations at site 3 mi (5 km) upstream at different datum.

REMARKS.--Records good. Flow regulated by Rangeley, Mooselookmeguntic, Richardson, Aziscohos, and Umbagog Lakes, combined usable capacity, 28,100,000,000 ft³ (796,000,000 m³), with final regulation at Errol Dam 35 mi (56 km) upstream. Diurnal fluctuation caused by powerplant 0.8 mi (1.3 km) upstream. Several observations of water temperature and specific conductance were made during the year.

AVERAGE DISCHARGE.--68 years, 2,458 ft³/s (69.62 m³/s).

EXTREMES FOR PERIOD OF RECORD.--Maximum daily discharge, 20,000 ft³/s (566 m³/s) June 18, 1917, Apr. 30, 1923; minimum daily, 795 ft³/s (22.5 m³/s) Mar. 15, 1948.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 10,300 ft³/s (292 m³/s) Feb. 25, gage height, 7.66 ft (2.335 m); minimum daily, 1,510 ft³/s (42.8 m³/s) Oct. 9.

DISCHARGE, IN CURIC FEET PER SECOND, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1550	1810	2030	1950	1810	3310	2610	1950	3310	2000	2040	2060
2	1570	1890	1900	2080	1970	2930	2890	1990	2620	1950	1940	2090
3	1670	1960	2160	1970	2040	2240	2490	1870	2340	1910	2060	2110
4	2100	1920	2010	1890	2020	2120	2400	1790	2250	2100	2080	2060
5	2220	1960	1860	1910	1950	1870	2670	1830	2360	2230	2180	2090
6	1590	1940	2110	1940	1880	2100	4800	1920	2350	2380	2660	2090
7	1640	1960	1960	2100	1870	1670	4350	1890	2380	2280	2340	2170
8	1650	2350	1950	2000	1860	1920	3380	1850	2330	2050	2050	2160
9	1510	3500	2130	1940	1860	1920	2810	1840	2400	2140	1910	2320
10	1520	2600	2180	1970	1800	1820	2550	1780	2940	2290	2010	2340
11	1580	2040	1950	1960	2030	1830	2380	1810	2740	2260	1990	2270
12	1600	1920	1880	1950	2550	1770	2270	1900	2680	2160	1950	2270
13	1640	1890	1980	1970	1910	1750	2210	2390	2570	2240	1890	2250
14	1610	1870	1890	1950	1840	1780	2360	2070	2540	2370	1900	2220
15	1580	1840	1820	1970	1770	1700	2650	1800	2530	2310	1890	2170
16	1610	1800	1910	1960	1720	1790	2180	2260	3060	2240	2430	2120
17	1600	1730	1930	2000	1810	1760	1890	4370	3350	2170	2410	2180
18	1640	1780	1930	1990	1890	1740	2340	3040	2980	2180	2420	2020
19	1730	1720	2010	2020	2010	1780	2490	2190	2300	2180	2080	2270
20	1680	1770	1940	2010	2420	1860	2040	1980	2170	2180	1950	2140
21	1670	1780	1890	1900	5770	1820	1910	1910	2110	2240	1980	2060
22	1630	1830	1970	1960	7470	1690	2000	1890	2080	2260	1950	2430
23	1600	1800	2060	1950	7940	1760	1990	2010	2260	2200	1940	3900
24	1630	1840	2100	1950	7820	1830	2220	2030	2010	2150	1950	4540
25	1710	2320	2310	1940	9300	1820	2380	1870	2000	2140	2030	3260
26	3870	2260	2610	1940	4720	1800	2170	1890	2120	2150	2030	2550
27	3360	1850	2330	1940	3100	1830	1980	1900	2170	2190	2100	2320
28	2110	1910	2030	1950	2600	1810	1940	1900	2100	2180	2140	2750
29	1940	2360	2110	1930	---	1980	2060	1830	2090	2440	2100	2850
30	1770	2300	2150	1940	---	3100	2260	1830	2150	2470	2110	2550
31	1730	---	1990	1820	---	3640	---	2370	---	2110	2080	---
TOTAL	56310	60500	63080	60750	87730	62740	74670	63950	73290	68150	64590	72610
MEAN	1816	2017	2035	1960	3133	2024	2489	2063	2443	2198	2084	2420
MAX	3870	3500	2610	2100	9300	3640	4800	4370	3350	2470	2660	4540
MIN	1510	1720	1820	1820	1720	1670	1890	1780	2000	1910	1890	2020
CAL YR 1980	TOTAL	667050	MEAN	1823	MAX	3870	MIN	1290				
WTR YR 1981	TOTAL	808370	MEAN	2215	MAX	9300	MIN	1510				

01054200 WILD RIVER AT GILEAD, ME
(Hydrologic bench-mark station)

LOCATION.--Lat 44°23'26", long 70°58'46", Oxford County, Hydrologic Unit 01040002, on right bank 200 ft (60 m) upstream from highway bridge on U.S. Route 2, 2,000 ft (600 m) upstream from mouth, and 0.4 mi (0.6 km) west of Gilead.

DRAINAGE AREA.--69.6 mi² (180 km²), revised.

WATER-DISCHARGE RECORDS

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

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

REMARKS.--Records good except those for winter period, which are fair. No gage-height record Dec. 5 to Jan. 7.

AVERAGE DISCHARGE.--17 years, 179 ft³/s (5.069 m³/s), 34.93 in/yr (887 mm/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 12,500 ft³/s (354 m³/s) Nov. 3, 1966, gage height, 12.49 ft (3.807 m); minimum, 7.6 ft³/s (0.22 m³/s) July 16, 1971, gage height, 1.89 ft (0.576 m).

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood of Oct. 24, 1959, reached a stage of 15.6 ft (4.755 m), from floodmarks; discharge, 18,100 ft³/s (513 m³/s).

EXTREMES FOR CURRENT YEAR.--Peak discharges above base of 2,500 ft³/s (70.8 m³/s) revised, and maximums (*):

Date	Time	Discharge (ft ³ /s) (m ³ /s)	Gage height (ft) (m)	Date	Time	Discharge (ft ³ /s) (m ³ /s)	Gage height (ft) (m)
Oct. 26	0100	5790 164	8.79 2.679	Aug. 5	1415	2960 83.8	6.97 2.124
Feb. 21	0330	* 8760 248	*a 11.30 3.444	Aug. 16	0500	2530 71.6	6.62 2.018
May 16	2315	2870 81.3	6.90 2.103				

a Ice jam

Minimum discharge not determined, occurred during period of backwater from ice; minimum daily, 15 ft³/s (0.42 m³/s) Feb. 1.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	20	79	179	24	15	230	362	203	130	33	59	41
2	19	71	141	23	40	203	695	227	94	31	44	40
3	32	60	392	21	300	155	368	188	84	30	36	39
4	161	63	187	20	250	130	487	150	78	29	52	37
5	96	68	130	19	170	120	646	150	98	50	791	34
6	54	61	105	18	120	115	350	150	84	176	764	33
7	41	57	89	19	85	110	227	134	92	90	262	31
8	34	80	74	19	72	100	212	110	72	50	145	31
9	30	81	64	19	62	100	256	104	106	36	113	327
10	26	69	56	18	200	98	218	100	116	34	188	110
11	27	61	50	18	900	94	227	116	82	29	110	92
12	41	59	45	18	700	92	200	621	68	26	94	74
13	36	58	42	18	500	90	145	1050	76	33	76	61
14	30	50	39	17	310	86	218	362	63	66	66	48
15	27	48	37	17	220	81	206	240	54	47	59	52
16	25	45	35	17	155	78	165	1200	61	34	951	45
17	25	42	33	17	130	76	165	1360	54	29	300	43
18	33	40	32	17	200	74	262	431	44	28	203	44
19	79	50	30	16	600	72	209	295	40	29	113	52
20	51	44	29	16	1500	70	171	227	84	28	96	86
21	41	39	28	16	4000	69	130	200	176	155	84	63
22	36	35	27	16	1120	67	127	171	176	88	72	295
23	32	33	26	16	495	66	150	150	221	50	66	1470
24	29	31	26	17	1890	65	316	127	96	36	61	1710
25	111	560	25	17	971	66	240	108	70	31	76	646
26	2050	200	25	18	525	72	203	100	68	28	63	285
27	334	117	24	19	405	84	171	98	59	48	54	212
28	174	137	24	20	285	82	155	127	47	43	50	602
29	124	1020	26	19	---	405	227	100	39	333	44	290
30	98	303	29	18	---	1040	246	100	35	203	41	206
31	86	---	26	16	---	630	---	145	---	94	40	---
TOTAL	4002	3661	2075	563	16220	4820	7754	8844	2567	2017	5173	7099
MEAN	129	122	66.9	18.2	579	155	258	285	85.6	65.1	167	237
MAX	2050	1020	392	24	4000	1040	695	1360	221	333	951	1710
MIN	19	31	24	16	15	65	127	98	35	26	36	31
CFSM	1.85	1.75	.96	.26	8.32	2.23	3.71	4.10	1.23	.94	2.40	3.41
IN.	2.14	1.96	1.11	.30	8.67	2.58	4.14	4.73	1.37	1.08	2.76	3.79

CAL YR 1980	TOTAL	42035.2	MEAN	115	MAX	3890	MIN	9.4	CFSM	1.65	IN	22.47
WTR YR 1981	TOTAL	64795.0	MEAN	178	MAX	4000	MIN	15	CFSM	2.56	IN	34.63

01054200 WILD RIVER AT GILEAD, ME--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 1964 to current year.

PERIOD OF DAILY RECORD.--

WATER TEMPERATURES: July 1964 to current year.

INSTRUMENTATION.--Temperature recorder since July 1964.

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

EXTREMES FOR PERIOD OF DAILY RECORD.--

WATER TEMPERATURES: Maximum, 30.0°C Aug. 2, 1975; minimum, 0.0°C on many days during winter periods.

EXTREMES FOR CURRENT YEAR.--

WATER TEMPERATURES: Maximum, 28.0°C July 3, 10; minimum, 0.0°C on many days during winter period.

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DATE	TIME	DIS- CHARGE, IN CURIC FEET PER SECOND	STREAM- FLOW, INSTAN- TANEOUS (CFS)	SPE- CIFIC CON- DUCT- ANCE (UMHOS)	SPE- CIFIC CON- DUCT- ANCE LAR (UMHOS)	PH (UNITS)	TEMPER- ATURE, AIR (DEG C)	TEMPER- ATURE (DEG C)	OXYGEN, DIS- SOLVED (MG/L)	COLI- FORM, FECAL, 0.7 UM-MF (COLS./ 100 ML)	STREP- TOCOCCI FECAL, KF AGAR (COLS. PER 100 ML)	HARD- NESS (MG/L AS CAC03)
NOV 26...	1130	--	203	24	19	6.0	-4.0	.0	11.6	K5	K3	6
JAN 29...	1030	19	--	30	22	6.3	-12.0	.0	14.0	K1	<1	6
MAR 25...	1045	66	--	22	19	6.1	3.5	.5	12.8	<1	<1	4
MAY 21...	1145	--	200	23	23	6.4	19.0	10.0	11.0	<1	K1	5
JUL 30...	1045	--	206	20	20	6.4	17.0	14.0	10.2	K18	24	6
SEP 21...	1130	--	61	21	24	6.8	10.0	11.0	11.0	K2	K5	6

DATE	HARD- NESS NONCAR- BONATE (MG/L AS CAC03)	CALCIUM DIS- SOLVED (MG/L AS CA)	MAGNE- SIUM, DIS- SOLVED (MG/L AS MG)	SODIUM, DIS- SOLVED (MG/L AS NA)	POTAS- SIUM, DIS- SOLVED (MG/L AS K)	ALKA- 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 CONSTITU- ENTS, DIS- SOLVED (MG/L)
NOV 26...	3.0	1.5	.5	1.0	.5	3.0	6.7	1.5	<.1	5.8	26	20
JAN 29...	.00	1.5	.5	1.6	.6	17	3.9	.9	<.1	8.5	22	28
MAR 25...	2.0	1.2	.2	1.1	.4	2.0	3.7	1.1	<.1	7.0	22	16
MAY 21...	.00	1.3	.4	2.1	.5	8.0	4.6	1.0	<.1	5.2	12	20
JUL 30...	.00	1.6	.5	1.0	.4	6.0	4.7	.8	<.1	6.2	34	19
SEP 21...	.00	1.4	.4	1.1	.5	7.0	3.7	.5	<.1	7.4	17	19

DATE	SOLIDS, DIS- SOLVED (TONS PER AC-FT)	SOLIDS, DIS- SOLVED (TONS PER DAY)	NITRO- GEN, NO2+NO3 TOTAL (MG/L AS N)	NITRO- GEN, NO2+NO3 DIS- SOLVED (MG/L AS N)	NITRO- GEN, AMMONIA TOTAL (MG/L AS N)	NITRO- GEN, AMMONIA DIS- SOLVED (MG/L AS N)	NITRO- GEN,AM- MONIA + ORGANIC TOTAL (MG/L AS N)	NITRO- GEN,AM- MONIA + ORGANIC DIS- SOLVED (MG/L AS N)	NITRO- GEN, TOTAL (MG/L AS N)	NITRO- GEN, DIS- SOLVED (MG/L AS N)	PHOS- PHORUS, TOTAL (MG/L AS P)	PHOS- PHORUS, DIS- SOLVED (MG/L AS P)
NOV 26...	.04	14.3	.11	.10	.010	.020	.17	.17	.28	.27	<.010	.010
JAN 29...	.03	1.1	.08	.10	.040	.050	.26	.19	.34	.29	<.010	<.010
MAR 25...	.03	3.9	.04	.10	.010	.040	.18	.10	.22	.20	<.010	<.010
MAY 21...	.02	6.4	.05	.03	.050	.020	.67	.34	.72	.37	<.010	.010
JUL 30...	.05	18.9	.01	.02	.010	.010	.17	.18	.18	.20	.030	<.010
SEP 21...	.02	2.8	.02	.02	.030	.010	.14	.11	.16	.13	<.010	<.010

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

01054200 WILD RIVER AT GILEAD, ME--Continued

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DATE	ARSENIC TOTAL (UG/L AS AS)	ARSENIC DIS- SOLVED (UG/L AS AS)	BARIUM, TOTAL RECOV- ERABLE (UG/L AS BA)	BARIUM, DIS- SOLVED (UG/L AS BA)	BERYL- LIUM, DIS- SOLVED (UG/L AS BE)	CADMIUM TOTAL RECOV- ERABLE (UG/L AS CD)	CADMIUM DIS- SOLVED (UG/L AS CD)	CHRO- MIUM, TOTAL RECOV- ERABLE (UG/L AS CR)	CHRO- MIUM, DIS- SOLVED (UG/L AS CR)	COBALT, DIS- SOLVED (UG/L AS CO)
SEP 21...	1	1	<50	2	1	1	1	<10	<1	3

DATE	COPPER, TOTAL RECOV- ERABLE (UG/L AS CU)	COPPER, DIS- SOLVED (UG/L AS CU)	IRON, TOTAL RECOV- ERABLE (UG/L AS FE)	IRON, DIS- SOLVED (UG/L AS FE)	LEAD, TOTAL RECOV- ERABLE (UG/L AS PB)	LEAD, DIS- SOLVED (UG/L AS PB)	LITHIUM DIS- SOLVED (UG/L AS LI)	MANGA- NESE, TOTAL RECOV- ERABLE (UG/L AS MN)	MANGA- NESE, DIS- SOLVED (UG/L AS MN)	MERCURY TOTAL RECOV- ERABLE (UG/L AS HG)
SEP 21...	6	10	90	45	9	10	4	<10	3	<.1

DATE	MERCURY DIS- SOLVED (UG/L AS HG)	MOLYB- DENUM, DIS- SOLVED (UG/L AS MO)	SELE- NIUM, TOTAL (UG/L AS SE)	SELE- NIUM, DIS- SOLVED (UG/L AS SE)	SILVER, TOTAL RECOV- ERABLE (UG/L AS AG)	SILVER, DIS- SOLVED (UG/L AS AG)	STRON- TIUM, DIS- SOLVED (UG/L AS SR)	VANA- DIUM, DIS- SOLVED (UG/L AS V)	ZINC, TOTAL RECOV- ERABLE (UG/L AS ZN)	ZINC, DIS- SOLVED (UG/L AS ZN)
SEP 21...	<.1	10	<1	<1	<1	<1	14	6.0	270	4

DATE	CARBON, ORGANIC TOTAL (MG/L AS C)	CARBON, ORGANIC DIS- SOLVED (MG/L AS C)	CARBON, ORGANIC SUS- PENDED TOTAL (MG/L AS C)	CYANIDE TOTAL (MG/L AS CN)	SEDI- MENT, SUS- PENDED (MG/L)	SEDI- MENT, DIS- CHARGE, SUS- PENDED (T/DAY)	SED. SUSP. SIEVE DIAM. % FINER THAN .062 MM
NOV 26...	2.5	--	--	--	1	.55	100
JAN 29...	2.2	--	--	--	1	.05	100
MAR 25...	--	--	--	--	1	.18	--
MAY 21...	2.8	--	--	--	2	1.1	78
JUL 30...	6.2	--	--	--	1	.56	75
SEP 21...	--	2.7	.2	<.01	1	.16	100

01054200 WILD RIVER AT GILEAD, ME--Continued

PESTICIDE ANALYSES, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DATE	PCB, TOTAL (UG/L)	PCB, TOTAL IN BOT- TOM MA- TERIAL (UG/KG)	ALDRIN, TOTAL (UG/L)	ALDRIN, TOTAL IN BOT- TOM MA- TERIAL (UG/KG)	CHLOR- DANE, TOTAL (UG/L)	CHLOR- DANE, TOTAL IN BOT- TOM MA- TERIAL (UG/KG)	DDD, TOTAL (UG/L)	DDD, TOTAL IN BOT- TOM MA- TERIAL (UG/KG)	DDE, TOTAL (UG/L)	DDE, TOTAL IN BOT- TOM MA- TERIAL (UG/KG)	DDT, TOTAL (UG/L)	DDT, TOTAL IN BOT- TOM MA- TERIAL (UG/KG)
SEP 21...	<.10	<1	<.01	<.1	<.10	<1.0	<.01	<.1	<.01	1.6	<.01	<.1

DATE	DI- AZINON, TOTAL (UG/L)	DI- ELDRIN, TOTAL (UG/L)	DI- ELDRIN, TOTAL IN BOT- TOM MA- TERIAL (UG/KG)	ENDO- SULFAN, TOTAL (UG/L)	ENDO- SULFAN, TOTAL IN BOT- TOM MA- TERIAL (UG/KG)	ENDRIN, TOTAL (UG/L)	ENDRIN, TOTAL IN BOT- TOM MA- TERIAL (UG/KG)	ETHION, TOTAL (UG/L)	HEPTA- CHLOR, TOTAL (UG/L)	HEPTA- CHLOR, TOTAL IN BOT- TOM MA- TERIAL (UG/KG)	HEPTA- CHLOR EPOXIDE TOTAL (UG/L)
SEP 21...	.01	<.01	<.1	<.01	<.1	<.01	<.1	<.01	<.01	<.1	<.01

DATE	HEPTA- CHLOR EPOXIDE TOT. IN BOTTOM MATL. (UG/KG)	LINDANE TOTAL (UG/L)	LINDANE TOTAL IN BOT- TOM MA- TERIAL (UG/KG)	MALA- THION, TOTAL (UG/L)	METH- OXY- CHLOR, TOTAL (UG/L)	METH- OXY- CHLOR, TOT. IN BOTTOM MATL. (UG/KG)	METHYL PARA- THION, TOTAL (UG/L)	METHYL TRI- THION, TOTAL (UG/L)	MIREX, TOTAL (UG/L)	MIREX, TOTAL IN BOT- TOM MA- TERIAL (UG/KG)	NAPH- THA- LENES, POLY- CHLOR. TOTAL (UG/L)
SEP 21...	<.1	<.01	<.1	<.01	<.01	<.1	<.01	<.01	<.01	<.1	<.10

DATE	PCN, TOTAL IN BOT- TOM MA- TERIAL (UG/KG)	PARA- THION, TOTAL (UG/L)	PER- THANE TOTAL (UG/L)	PER- THANE IN BOTTOM MATRIL (UG/KG)	TOX- APHENE, TOTAL (UG/L)	TOXA- PHENE, TOTAL IN BOT- TOM MA- TERIAL (UG/KG)	TOTAL TRI- THION (UG/L)	2,4-D, TOTAL (UG/L)	2, 4-DP TOTAL (UG/L)	2,4,5-T TOTAL (UG/L)	SILVEX, TOTAL (UG/L)
SEP 21...	<1.0	<.01	<.01	<.10	<.10	<1.0	<.01	<.01	<.01	<.01	<.01

RADIOCHEMICAL ANALYSES, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

	GROSS ALPHA, DIS- SOLVED (PCI/L AS U-NAT)	GROSS ALPHA, DIS- SOLVED (UG/L AS U-NAT)	GROSS ALPHA, SUSP. TOTAL (UG/L AS U-NAT)	GROSS BETA, DIS- SOLVED (PCI/L AS CS-137)	GROSS BETA, DIS- SOLVED (PCI/L AS YT-90)	GROSS BETA, SUSP. TOTAL (PCI/L AS CS-137)	GROSS BETA, SUSP. TOTAL (PCI/L AS YT-90)	RADIUM 226, DIS- SOLVED, RADON METHOD (PCI/L)	URANIUM DIS- SOLVED, EXTRAC- TION (UG/L)
SEP 21...		.8	1.2	<.4	1.2	1.2	<.4	<.4	.06 .22

01054200 WILD RIVER AT GILEAD, ME--Continued

TEMPERATURE, WATER (DEG. C), WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

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

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

01054300 ELLIS RIVER AT SOUTH ANDOVER, ME

LOCATION.--Lat 44°35'37", long 70°44'01", Oxford County, Hydrologic Unit 01040002, on left bank 100 ft (30 m) upstream from covered bridge at South Andover.

DRAINAGE AREA.--130 mi² (337 km²), revised.

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

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

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

AVERAGE DISCHARGE.--18 years, 249 ft³/s (7.052 m³/s), 26.01 in/yr (661 mm/yr).

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

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

Date	Time	Discharge (ft ³ /s) (m ³ /s)	Gage height (ft) (m)	Date	Time	Discharge (ft ³ /s) (m ³ /s)	Gage height (ft) (m)
Feb. 21	1200	3000 85.0	*a 17.38 5.297	Sep. 24	1200	* 3350 94.9	16.55 5.044
Feb. 25	0600	2240 63.4	14.43 4.398				

a Ice jam

Minimum discharge, 33 ft³/s (0.93 m³/s) July 26.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	83	198	384	65	47	407	465	293	310	70	66	48
2	77	173	303	62	62	348	652	294	222	63	51	47
3	105	151	417	59	290	300	617	268	180	58	45	45
4	170	137	415	57	260	241	499	240	164	55	41	43
5	230	136	300	55	225	222	525	223	257	62	286	40
6	160	141	280	53	200	204	626	214	228	120	757	38
7	130	127	255	54	180	188	442	202	285	102	451	36
8	115	203	230	60	165	173	370	180	234	70	312	35
9	99	250	210	59	155	160	339	166	260	58	228	113
10	87	197	195	57	145	149	374	153	336	52	201	120
11	81	173	180	56	170	141	336	148	252	46	160	83
12	98	150	165	55	760	132	319	185	220	41	128	75
13	122	135	155	53	840	126	280	652	241	40	106	65
14	106	126	145	52	585	122	259	551	217	69	90	56
15	91	117	135	51	515	107	312	390	175	65	78	51
16	83	103	125	50	450	114	280	617	207	48	305	47
17	78	80	115	50	400	87	256	1050	220	41	285	46
18	78	104	110	52	420	110	333	679	162	38	243	45
19	104	112	105	54	520	98	433	465	130	39	170	46
20	100	106	98	55	735	82	349	392	113	39	132	78
21	89	96	93	54	2460	79	312	338	130	61	111	69
22	82	91	89	53	2200	77	267	297	173	76	94	149
23	75	89	84	52	1070	80	240	277	326	55	81	753
24	70	81	81	51	802	85	303	237	220	44	73	2420
25	68	333	77	49	1760	86	370	205	162	38	78	1420
26	1240	388	74	48	854	85	335	187	145	34	71	679
27	911	316	71	47	636	95	293	173	130	37	63	471
28	480	293	68	51	465	91	262	164	108	37	58	529
29	357	680	68	50	---	153	280	150	91	113	55	474
30	277	571	74	49	---	415	333	152	78	170	51	383
31	232	---	70	48	---	619	---	234	---	99	48	---
TOTAL	6078	5857	5171	1661	17371	5376	11061	9776	5976	1940	4918	8504
MEAN	196	195	167	53.6	620	173	369	315	199	62.6	159	283
MAX	1240	680	417	65	2460	619	652	1050	336	170	757	2420
MIN	68	80	68	47	47	77	240	148	78	34	41	35
CFSM	1.51	1.50	1.29	.41	4.77	1.33	2.84	2.42	1.53	.48	1.22	2.18
IN.	1.74	1.68	1.48	.48	4.97	1.54	3.17	2.80	1.71	.56	1.41	2.43

CAL YR 1980	TOTAL	59616	MEAN 163	MAX 2280	MIN 17	CFSM 1.25	IN 17.06
WTR YR 1981	TOTAL	83689	MEAN 229	MAX 2460	MIN 34	CFSM 1.76	IN 23.95

01054500 ANDROSCOGGIN RIVER AT RUMFORD, ME

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

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

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

REVISED RECORDS.--WSP 1001: Drainage area.

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

REMARKS.--Records good except those for period of no gage-height record, Nov. 25 to Jan. 7 and Feb. 3-23, which are fair. Several observations of water temperature and specific conductance were made during the year. Prior to Nov. 19, 1979, discharge computed from flow over upper dam and through wheels. Flow regulated by Rangeley, Mooselookmeguntic, Richardson, Umbagog, and Azischohos Lakes (Reservoirs in Androscoggin River Basin), with final regulation at Errol Dam about 84 mi (135 km) upstream.

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

AVERAGE DISCHARGE.--89 years, 3,707 ft³/s (105.0 m³/s).

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

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 32,100 ft³/s (909 m³/s) Feb. 21; minimum daily, 1,810 ft³/s (51.3 m³/s) Jan. 12.

DISCHARGE, IN CURIC FEET PER SECOND, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	2220	2640	3770	2260	1970	5250	7650	4000	4030	2440	2560	2460
2	2180	2560	3290	2330	2260	5310	6320	3620	4100	2360	2470	2550
3	2280	2600	4050	2280	5950	4610	7560	3570	3270	2220	2430	2470
4	2850	2570	2820	2060	3190	3460	5540	3240	3010	2170	2560	2460
5	3540	2560	2110	1990	2670	3390	6270	3100	3040	2750	2950	2410
6	2740	2520	2510	2000	2450	3340	7940	3130	3100	3190	7080	2380
7	2310	2560	2910	2250	2340	3490	7490	3180	3190	3380	5610	2440
8	2490	3120	2950	2170	2310	3050	5990	2940	3110	2750	3980	2330
9	2340	3580	3070	1920	2240	3220	5000	2780	3050	2480	3190	3180
10	2130	3690	3250	1940	2210	3140	4950	2780	3890	2510	3030	3360
11	2060	2790	2480	1950	3330	2780	4600	2670	3850	2480	3040	2990
12	2120	2720	2210	1810	9280	2910	4460	2980	3410	2310	2610	2860
13	2190	2410	2490	1900	4840	2770	4010	7180	3340	2270	2510	2800
14	2180	2490	2370	1900	3770	2800	3910	6230	3260	2660	2480	2670
15	2070	2310	2130	1950	3380	2570	4040	4330	3080	2560	2440	2630
16	2070	2310	2260	1990	2990	2890	4120	5130	3230	2670	4700	2710
17	2110	2180	2320	2030	3800	2680	3570	10600	3840	2530	5970	2480
18	2190	2450	2360	2030	3680	1940	3540	8450	3770	2500	4740	2530
19	2610	2430	2430	2120	3700	2560	4730	5380	3230	2440	4200	2310
20	2500	2380	2220	2120	5670	2810	4370	4240	2610	2410	2950	2750
21	2350	2450	2200	2050	23600	2740	3470	3960	2910	2860	2690	2610
22	2260	2610	2260	2130	25400	2530	3150	3140	3030	3020	2570	2680
23	2140	2410	2360	2020	16700	2420	3250	3300	3790	2810	2530	8460
24	2130	2540	2750	2150	15100	2550	3560	3220	3370	2790	2690	16500
25	2230	4110	2380	2120	20600	2650	4580	3030	2720	2520	2720	12300
26	12600	3980	2210	1970	13800	2610	4420	2840	2740	2430	2510	6630
27	7170	2820	2340	2220	8180	2720	3830	2840	2830	2600	2280	4790
28	4400	2840	2350	2230	5970	2730	3480	2840	2710	2570	2420	5240
29	3180	6900	2490	2150	---	2910	3510	2700	2490	3280	2550	5770
30	2860	5290	2570	2050	---	5570	4280	2690	2550	4180	2480	4780
31	2610	---	2380	2020	---	8810	---	2910	---	3230	2500	---
TOTAL	91110	88820	80290	64110	201380	103210	143590	123000	96550	83370	99440	122530
MEAN	2939	2961	2590	2068	7192	3329	4786	3968	3218	2689	3208	4084
MAX	12600	6900	4050	2330	25400	8810	7940	10600	4100	4180	7080	16500
MIN	2060	2180	2110	1810	1970	1940	3150	2670	2490	2170	2280	2310
CAL YR 1980	TOTAL	983870	MEAN	2688	MAX	22000	MIN	1670				
WTR YR 1981	TOTAL	1297400	MEAN	3555	MAX	25400	MIN	1810				

01055000 SWIFT RIVER NEAR ROXBURY, ME

LOCATION.--Lat 44°38'32", long 70°35'17", Oxford County, Hydrologic Unit 01040002, on left bank 0.2 mi (0.3 km) downstream from Philbrick Brook, 2.1 mi (3.4 km) downstream from Roxbury, and 7.2 mi (11.6 km) upstream from mouth.

DRAINAGE AREA.--96.9 mi² (251 km²), revised.

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

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

GAGE.--Water-stage recorder. Datum of gage is 615.67 ft (187.656 m) National Geodetic Vertical Datum of 1929.

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

AVERAGE DISCHARGE.--52 years, 198 ft³/s (5.607 m³/s), 27.75 in/yr (705 mm/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 16,800 ft³/s (476 m³/s) Oct. 24, 1959, gage height, 12.87 ft (3.923 m), from rating curve extended above 7,000 ft³/s (200 m³/s); minimum, 3.8 ft³/s (0.11 m³/s) Sept. 16, 17, 1948, gage height, 0.93 ft (0.283 m).

EXTREMES FOR CURRENT YEAR.--Peak discharges above base of 2,400 ft³/s (68 m³/s) and maximum (*):

Date	Time	Discharge (ft ³ /s) (m ³ /s)	Gage height (ft) (m)	Date	Time	Discharge (ft ³ /s) (m ³ /s)	Gage height (ft) (m)
Oct. 26	0500	3280 92.9	6.32 1.926	Sep. 24	0130	* 7800 221	9.10 2.774

Minimum discharge, 19 ft³/s (0.54 m³/s) Sept. 7, 8, gage height, 1.31 ft (0.344 m).

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	60	132	212	57	33	220	410	233	257	51	60	32
2	56	117	180	53	90	186	699	231	153	46	41	31
3	77	102	445	49	420	155	394	205	117	41	33	28
4	215	99	260	47	275	132	461	180	189	40	29	25
5	210	104	180	46	175	143	561	170	785	60	233	23
6	129	108	155	46	115	139	750	167	307	172	738	21
7	99	96	140	49	94	125	351	157	294	101	278	20
8	84	272	130	49	78	115	266	141	194	59	150	19
9	74	228	120	44	65	110	250	125	281	77	108	194
10	65	170	110	42	61	97	320	119	266	66	102	110
11	63	148	105	41	250	96	257	117	175	42	80	72
12	115	125	99	40	560	89	228	150	162	32	65	56
13	123	113	95	40	370	82	189	571	202	35	53	46
14	94	110	91	39	260	85	172	334	143	92	47	37
15	77	104	87	38	180	75	205	222	117	75	41	31
16	67	92	84	38	140	91	172	732	186	47	398	28
17	65	101	81	38	120	85	167	1010	160	34	233	26
18	67	94	79	38	140	70	217	402	113	29	217	26
19	97	92	76	39	190	69	500	275	92	30	119	34
20	84	94	74	40	640	69	291	220	82	30	87	99
21	72	89	71	40	2870	72	231	186	123	110	69	67
22	65	82	69	39	1270	72	180	165	231	94	55	337
23	62	76	66	37	636	72	167	148	372	53	47	1590
24	57	71	64	36	744	77	160	129	170	36	44	3660
25	67	491	62	35	882	91	269	115	121	28	57	721
26	1700	300	61	35	433	97	242	119	123	24	48	351
27	496	172	59	35	337	132	207	112	110	50	39	248
28	275	157	57	36	254	200	183	112	85	42	37	615
29	207	566	66	37	---	340	272	115	67	180	32	362
30	165	307	70	36	---	509	313	121	57	242	29	251
31	143	---	62	35	---	474	---	310	---	108	29	---
TOTAL	5230	4812	3510	1274	11682	4369	9084	7393	5734	2126	3598	9160
MEAN	169	160	113	41.1	417	141	303	238	191	68.6	116	305
MAX	1700	566	445	57	2870	509	750	1010	785	242	738	3660
MIN	56	71	57	35	33	69	160	112	57	24	29	19
CFSM	1.74	1.65	1.17	.42	4.30	1.46	3.13	2.46	1.97	.71	1.20	3.15
IN.	2.01	1.85	1.35	.49	4.48	1.68	3.49	2.84	2.20	.82	1.38	3.52
CAL YR 1980	TOTAL	49358	MEAN 135	MAX 2590	MIN 11	CFSM 1.39	IN 18.95					
WTR YR 1981	TOTAL	67972	MEAN 186	MAX 3660	MIN 19	CFSM 1.92	IN 26.09					

01055500 NEZINSCOT RIVER AT TURNER CENTER, ME

LOCATION.--Lat 44°16'10", long 70°13'49", Androscoggin County, Hydrologic Unit 01040002, on left bank 500 ft (150 m) upstream from upper highway bridge at Turner Center and 3.6 mi (5.8 km) upstream from mouth.

DRAINAGE AREA.--169 mi² (438 km²), revised.

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

GAGE.--Water-stage recorder. Datum of gage is 276.29 ft (84.213 m) National Geodetic Vertical Datum of 1929.

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

AVERAGE DISCHARGE.--40 years, 303 ft³/s (8.581 m³/s), 24.35 in/yr (618 mm/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 13,900 ft³/s (394 m³/s) Mar. 27, 1953, gage height, 11.18 ft (3.408 m); minimum, 5.6 ft³/s (0.16 m³/s) Aug. 29, 1956, gage height, 0.72 ft (0.219 m).

EXTREMES FOR CURRENT YEAR.--Peak discharges above base of 1,700 ft³/s (48 m³/s) and maximum (*):

Date	Time	Discharge		Gage height		Date	Time	Discharge		Gage height	
		(ft ³ /s)	(m ³ /s)	(ft)	(m)			(ft ³ /s)	(m ³ /s)	(ft)	(m)
Sept. 25	0700	* 2,340	66.3	4.98	1.518						

Minimum discharge, 41 ft³/s (1.16 m³/s) Sept. 8, 9, gage height, 1.20 ft (0.366 m).

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	53	128	644	67	45	569	348	371	142	72	220	52
2	49	113	479	64	68	462	486	315	126	64	125	52
3	49	102	461	61	210	393	674	281	99	58	88	51
4	77	93	458	60	455	302	545	250	87	54	73	50
5	122	89	320	58	430	279	445	226	88	57	69	48
6	115	83	280	56	345	269	514	205	94	129	87	46
7	93	87	246	59	270	260	510	183	98	170	107	44
8	76	82	220	60	225	262	404	169	95	120	104	42
9	65	83	220	57	195	250	340	151	98	80	88	79
10	56	87	202	55	180	235	315	139	135	68	82	206
11	53	85	180	54	285	225	293	132	128	63	87	189
12	56	80	160	53	1070	215	272	134	99	61	84	145
13	61	74	145	51	1110	204	247	209	83	63	72	118
14	59	70	130	50	690	199	236	297	74	70	62	94
15	54	66	120	49	420	162	340	252	68	80	55	80
16	50	64	110	48	292	183	347	260	66	68	315	70
17	47	54	100	48	232	155	291	405	71	58	775	64
18	48	65	94	47	233	139	272	352	69	56	600	59
19	73	65	88	46	271	140	287	282	61	57	336	57
20	101	66	82	46	324	139	266	236	58	55	226	60
21	87	65	78	46	905	132	241	194	91	120	159	62
22	73	65	74	46	1500	128	218	159	153	260	124	65
23	64	65	70	45	1070	135	197	140	289	185	103	371
24	58	67	67	45	725	142	230	122	313	120	92	1680
25	61	238	64	45	947	142	303	109	229	95	93	2210
26	347	515	62	45	1060	137	298	99	170	90	91	1430
27	540	453	60	46	1050	147	262	91	140	110	80	865
28	372	312	59	49	765	178	227	90	114	150	71	646
29	242	738	61	50	---	240	222	87	93	250	64	573
30	183	895	67	49	---	311	355	85	80	325	59	470
31	149	---	70	47	---	366	---	104	---	320	55	---
TOTAL	3533	5049	5471	1602	15372	7100	9985	6129	3511	3528	4646	9978
MEAN	114	168	176	51.7	549	229	333	198	117	114	150	333
MAX	540	895	644	67	1500	569	674	405	313	325	775	2210
MIN	47	54	59	45	45	128	197	85	58	54	55	42
CFSM	.68	.99	1.04	.31	3.25	1.36	1.97	1.17	.69	.68	.89	1.97
IN.	.78	1.11	1.20	.35	3.38	1.56	2.20	1.35	.77	.78	1.02	2.20

CAL YR 1980	TOTAL	63253	MEAN 173	MAX 4210	MIN 18	CFSM 1.02	IN 13.92
WTR YR 1981	TOTAL	75904	MEAN 208	MAX 2210	MIN 42	CFSM 1.23	IN 16.71

01055700 ANDROSCOGGIN RIVER AT TURNER BRIDGE, ME

LOCATION.--Lat 44°15'21", long 70°10'48", Androscoggin County, Hydrologic Unit 01040002, on upstream side in the center of Turner bridge on unnamed town road, 2.3 mi (3.7 km) east of Turner Center and 7.9 mi (12.7 m) upstream of Gulf Island Dam.

DRAINAGE AREA.--2,840 mi² (7,356 km²).

PERIOD OF DAILY RECORD.--

WATER TEMPERATURES: May, 1981 to September, 1981.

REMARKS.--Water temperatures are recorded at two levels in the section. The lower level is 5 ft (1.5 m) above the river bed. The upper level is 20 ft (6.1 m) above the river bed.

EXTREMES FOR PERIOD OF RECORD.--

WATER TEMPERATURES: Maximum, 27.0°C July 10, 1981; minimum, 11.0°C Sept. 30, 1981.

LOWER LEVEL

TEMPERATURE, WATER (DEG. C), WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
	FEBRUARY			MARCH			APRIL			MAY		
1										---	---	---
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26										---	---	---
27										---	---	---
28										20.0	19.0	19.5
29										20.0	19.5	20.0
30										20.0	19.5	19.5
31										20.5	19.5	20.0
MONTH										20.5	19.0	20.0

01055700 ANDROSCOGGIN RIVER AT TURNER BRIDGE, ME--Continued

LOWER LEVEL

TEMPERATURE, WATER (DEG. C), WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
	JUNE			JULY			AUGUST			SEPTEMBER		
1	20.5	19.5	20.0	22.5	22.0	22.5	22.0	20.5	21.0	21.0	20.0	20.5
2	20.0	19.5	20.0	24.0	22.5	23.0	22.0	21.0	21.5	20.5	20.0	20.5
3	20.0	19.0	19.5	24.5	23.5	24.0	22.5	22.0	22.5	20.5	20.0	20.0
4	19.5	18.5	19.0	24.5	24.5	24.5	24.0	22.5	23.0	20.0	19.5	19.5
5	20.5	19.5	19.5	25.0	24.5	25.0	25.0	24.0	24.5	20.5	20.0	20.0
6	21.0	20.0	20.5	25.0	24.5	24.5	25.0	24.0	24.5	20.5	20.0	20.5
7	20.5	20.0	20.5	25.5	24.5	25.0	24.0	21.5	23.0	20.5	20.0	20.0
8	20.5	19.0	20.0	25.0	24.5	25.0	21.5	20.0	20.5	20.5	19.5	20.0
9	20.5	20.0	20.5	26.0	25.0	25.5	20.5	20.0	20.5	20.5	19.5	20.0
10	20.0	19.0	19.5	26.5	25.5	26.0	20.5	20.0	20.0	20.0	19.0	19.5
11	19.5	19.0	19.5	26.5	25.5	26.0	22.5	20.5	21.5	19.5	19.0	19.0
12	19.5	19.0	19.0	26.5	25.5	25.5	23.0	22.5	22.5	19.0	19.0	19.0
13	20.0	18.5	19.5	26.0	25.0	25.5	23.0	22.5	23.0	19.0	18.5	18.5
14	21.0	19.5	20.0	25.0	24.0	24.5	23.0	22.0	22.5	19.0	18.0	18.5
15	21.0	20.0	20.5	24.0	23.5	24.0	22.5	22.0	22.5	19.5	19.0	19.0
16	21.0	20.5	20.5	24.0	22.5	23.0	22.5	21.0	21.5	19.5	19.0	19.5
17	22.0	21.0	21.5	24.0	23.0	23.0	21.5	19.5	20.5	19.5	19.0	19.0
18	22.5	21.5	22.0	23.5	23.0	23.0	19.5	18.5	19.0	19.5	19.0	19.5
19	23.0	22.0	22.5	23.5	23.0	23.0	19.0	18.5	19.0	19.5	19.0	19.0
20	23.0	22.5	22.5	23.5	23.0	23.0	19.5	18.5	19.5	18.5	17.5	18.0
21	23.0	22.0	22.5	23.0	22.5	22.5	20.0	19.0	19.5	17.5	17.0	17.0
22	22.5	21.5	22.5	24.0	22.5	23.0	20.5	20.0	20.0	17.0	16.0	16.5
23	21.5	20.5	21.0	23.5	22.5	23.0	22.0	21.0	21.5	16.0	13.5	14.5
24	20.5	20.0	20.0	23.5	22.5	23.0	22.5	22.0	22.0	13.5	11.5	12.0
25	20.5	20.0	20.0	24.0	22.5	23.0	22.5	21.0	21.5	12.0	11.5	11.5
26	20.0	19.5	19.5	24.0	23.0	23.5	21.5	20.5	21.0	12.5	11.5	12.0
27	20.5	20.0	20.0	24.0	23.0	23.5	21.0	20.5	20.5	13.0	12.0	12.5
28	20.5	20.0	20.0	24.0	23.0	23.5	21.0	20.0	20.5	13.5	13.0	13.0
29	21.5	20.5	20.5	24.0	22.5	23.0	21.0	20.0	20.0	13.0	12.0	12.5
30	22.5	21.5	22.0	22.5	21.5	21.5	21.0	20.0	20.5	12.0	11.0	11.5
31	---	---	---	21.5	21.0	21.0	21.0	20.5	21.0	---	---	---
MONTH	23.0	18.5	20.5	26.5	21.0	23.5	25.0	18.5	21.5	21.0	11.0	17.5
Period	26.5	11.0	20.5									

UPPER LEVEL

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
	FEBRUARY			MARCH			APRIL			MAY		
1										---	---	---
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27										---	---	---
28										---	---	---
29										20.0	19.0	19.5
30										20.5	20.0	20.0
31										20.0	20.0	20.0
MONTH										21.0	19.0	20.0

01057000 LITTLE ANDROSCOGGIN RIVER NEAR SOUTH PARIS, ME

LOCATION.--Lat 44°17'08", long 70°32'16", Oxford County, Hydrologic Unit 01040002, on right bank 30 ft (9 m) upstream from Biscoe Falls and 5 mi (8 km) upstream from South Paris.

DRAINAGE AREA.--75.8 mi² (196 km²), revised.

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

REVISED RECORDS.--WSP 726: Drainage area. WSP 1301: 1915-23(M).

GAGE.--Water-stage recorder and concrete control. Datum of gage is 394.48 ft (120.238 m) National Geodetic Vertical Datum of 1929. Prior to Apr. 30, 1924, nonrecording gage at same site and datum.

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

AVERAGE DISCHARGE.--60 years (water years 1914-23, 1932-81), 138 ft³/s (3.908 m³/s), 24.72 in/yr (628 mm/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 8,000 ft³/s (227 m³/s) Mar. 27, 1953, gage height, 12.41 ft (3.783 m), from rating curve extended above 2,800 ft³/s (79 m³/s), verified by computation of flow over dam at South Paris; minimum, 1.0 ft³/s (0.028 m³/s) Aug. 16, 1914, Feb. 22 to Mar. 5, 1920.

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

Date	Time	Discharge (ft ³ /s) (m ³ /s)	Gage height (ft) (m)	Date	Time	Discharge (ft ³ /s) (m ³ /s)	Gage height (ft) (m)
Feb. 21	1500	1250 35.4	5.63 1.716	Aug. 16	1600	* 1350 38.2	5.79 1.765

Minimum discharge not determined; minimum daily, 13 ft³/s (0.368 m³/s) Oct. 2.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	15	61	220	20	18	277	174	172	98	25	61	30
2	13	54	169	21	33	225	343	149	80	22	43	30
3	15	48	235	19	205	180	341	138	55	19	34	29
4	40	45	225	20	175	149	250	115	40	18	30	28
5	58	43	280	22	135	133	230	98	41	19	35	25
6	43	41	170	22	100	125	310	97	43	99	65	22
7	34	39	93	24	75	124	243	91	45	72	56	23
8	29	42	82	24	62	124	194	82	43	40	44	25
9	26	44	74	22	56	117	178	76	49	30	36	176
10	23	42	64	21	54	112	165	71	70	25	51	151
11	22	41	57	20	65	105	150	70	56	21	49	95
12	28	40	50	20	425	101	144	88	45	17	40	74
13	25	39	47	19	390	95	125	251	39	16	33	61
14	22	37	45	19	205	92	131	214	35	28	28	50
15	20	36	40	19	145	89	239	151	31	28	25	44
16	18	34	39	19	115	87	180	220	32	20	884	40
17	16	33	36	19	90	83	153	251	35	17	667	36
18	20	33	33	19	95	79	157	176	30	15	317	34
19	49	35	28	20	120	76	161	136	23	16	197	35
20	42	34	25	20	175	72	142	110	21	15	136	51
21	36	33	22	19	841	70	131	92	51	120	102	43
22	31	32	20	18	735	75	113	81	105	115	77	55
23	27	30	19	19	445	74	102	72	263	56	63	430
24	25	28	19	19	410	71	165	63	124	37	54	705
25	26	225	19	18	820	67	190	56	73	28	57	520
26	398	261	18	19	588	66	165	51	70	22	50	307
27	269	173	19	20	537	72	138	47	59	41	43	218
28	162	125	22	20	359	84	120	44	45	42	40	349
29	119	409	31	19	---	131	146	42	36	146	35	282
30	89	336	33	18	---	194	212	44	30	182	32	201
31	71	---	25	17	---	201	---	87	---	101	30	---
TOTAL	1811	2473	2259	615	7473	3550	5492	3435	1767	1452	3414	4169
MEAN	58.4	82.4	72.9	19.8	267	115	183	111	58.9	46.8	110	139
MAX	398	409	280	24	841	277	343	251	263	182	884	705
MIN	13	28	18	17	18	66	102	42	21	15	25	22
CFSM	.77	1.09	.96	.26	3.52	1.52	2.41	1.46	.78	.62	1.45	1.83
IN.	.89	1.21	1.11	.30	3.67	1.74	2.70	1.69	.87	.71	1.68	2.05
CAL YR 1980	TOTAL	28380.4	MEAN	77.5	MAX	2060	MIN	4.6	CFSM	1.02	IN	13.93
WTR YR 1981	TOTAL	37910.0	MEAN	104	MAX	884	MIN	13	CFSM	1.37	IN	18.60

01057510 PENNESSEEWASSEE LAKE OUTLET AT NORWAY, ME

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

DRAINAGE AREA.--30.3 mi² (78.5 km²).

PERIOD OF RECORD.--June 12 to Sept. 30, 1981.

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

REMARKS.--Records good. Flow regulated by Penneesseewassee Lake.

EXTREMES FOR CURRENT YEAR.--Maximum discharge during period June to September, 165 ft³/s (4.67 m³/s) Sept. 24,25, gage height, 7.76 ft (2.37 m); minimum, 0.74 ft³/s (0.02 m³/s) Sept. 6, gage height, 5.17 ft (1.58 m).

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1									---	1.5	21	1.1
2									---	1.7	19	1.1
3									---	3.2	17	1.1
4									---	3.0	12	1.1
5									---	3.2	2.4	.96
6									---	15	2.6	.85
7									---	16	3.2	.85
8									---	10	2.8	.85
9									---	5.6	2.2	7.7
10									---	4.0	2.4	10
11									---	3.2	2.6	7.7
12									4.0	2.8	2.6	4.5
13									3.2	3.7	2.2	3.5
14									2.8	49	2.0	2.8
15									2.4	59	3.0	2.4
16									2.4	14	37	2.0
17									2.4	13	136	1.8
18									2.4	3.2	120	1.7
19									2.2	4.0	74	1.5
20									1.8	2.8	28	1.8
21									2.4	46	25	2.2
22									3.5	70	25	11
23									7.7	28	23	116
24									8.0	21	11	159
25									5.1	17	2.2	150
26									4.0	17	3.0	79
27									3.2	20	4.8	64
28									2.6	19	1.8	64
29									2.2	27	1.5	102
30									1.7	31	1.4	100
31									---	27	1.1	---
TOTAL									---	540.9	591.8	902.51
MEAN									---	17.4	19.1	30.1
MAX									---	70	136	159
MIN									---	1.5	1.1	.85

01058005 THOMPSON LAKE OUTLET AT OXFORD, ME

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

DRAINAGE AREA.--47.7 mi² (123.5 km²), revised.

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

REVISED RECORDS.--WDR Me-77-1: 1975 (M), 1976.

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

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

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

EXTREMES FOR CURRENT YEAR.--Maximum discharge during period April to September, 410 cfs (11.6 m³/s) Sept. 28, gage height 10.67 (3.252 m); minimum 5.8 cfs (1.64 m³/s) Aug. 19, gage height 7.73 ft (2.356 m).

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1							---	61	26	17	11	47
2							---	60	20	17	10	47
3							---	60	20	17	11	46
4							---	59	20	17	11	45
5							---	60	21	17	11	43
6							---	62	21	22	10	43
7							---	60	20	20	11	43
8							---	61	20	20	11	42
9							---	59	22	20	11	43
10							---	58	21	19	11	49
11							---	57	20	17	11	65
12							---	59	20	17	11	63
13							41	59	20	18	10	62
14							52	59	20	18	10	61
15							52	59	20	17	11	67
16							53	60	19	16	12	67
17							53	59	19	16	11	68
18							53	59	19	16	7.5	54
19							53	58	19	15	6.3	52
20							54	57	18	16	7.2	51
21							53	56	19	19	7.2	70
22							52	54	21	19	6.9	77
23							53	51	21	18	6.9	275
24							55	49	20	18	7.8	341
25							56	49	20	17	20	336
26							56	48	19	17	29	328
27							57	48	18	17	28	318
28							57	49	17	12	40	344
29							59	40	18	13	50	346
30							60	35	18	12	49	344
31							---	35	---	11	49	---
TOTAL							---	1700	596	525	498.8	3837
MEAN							---	54.8	19.9	16.9	16.1	128
MAX							---	62	26	22	50	346
MIN							---	35	17	11	6.3	42

01058500 LITTLE ANDROSCOGGIN RIVER NEAR AUBURN, ME

LOCATION.--Lat 44°03'49", long 70°16'28", Androscoggin County, Hydrologic Unit 01040002, on right bank 100 ft (30 m) upstream from highway bridge at Littlefields, 3 mi (5 km) southwest of Auburn, and 4.6 mi (3.4 km) upstream from mouth.

DRAINAGE AREA.--328 mi² (850 km²).

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

GAGE.--Water-stage recorder. Altitude of gage is 215 ft (65.5 m), from topographic map.

REMARKS.--Records good except those for winter period, which are fair. Flow regulated by Thompson Lake (Reservoirs in Androscoggin River Basin) and several powerplants above station. Several observations of water temperature and specific conductance were made during the year.

AVERAGE DISCHARGE.--41 years, 567 ft³/s (16.06 m³/s).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 16,500 ft³/s (467 m³/s) Mar. 28, 1953, gage height, 14.76 ft (4.499 m); minimum daily, 14 ft³/s (0.40 m³/s) Oct. 14, 1949.

EXTREMES OUTSIDE PERIOD OF RECORD.--Maximum discharge known, 16,800 ft³/s (476 m³/s) Mar. 20, 1936, at mouth of river.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 2,720 ft³/s (77.0 m³/s) Feb. 26, gage height, 6.01 ft (1.832 m); minimum daily, 55 ft³/s (1.56 m³/s) Oct. 19-21.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	164	245	984	110	80	1890	580	661	174	164	284	175
2	184	208	841	125	150	1560	763	640	221	156	270	172
3	202	172	735	110	316	1100	1000	571	213	148	244	162
4	220	123	710	105	292	848	1020	521	192	140	206	154
5	226	133	538	105	262	705	927	463	213	139	226	143
6	263	151	646	105	210	629	889	489	195	195	219	131
7	210	121	559	110	192	617	916	430	210	278	198	131
8	160	111	512	115	187	636	878	393	203	263	186	141
9	148	103	502	110	179	620	752	363	221	219	176	175
10	157	123	463	100	167	553	648	363	230	206	186	222
11	157	87	406	96	267	492	626	327	225	186	171	334
12	144	135	338	94	736	461	582	346	233	167	168	272
13	133	98	283	92	906	404	535	409	217	164	160	259
14	111	100	247	90	983	484	530	495	178	177	149	256
15	90	90	221	90	715	448	659	532	180	169	146	188
16	74	72	263	89	543	457	695	554	170	166	246	164
17	61	111	252	88	460	376	674	620	150	153	835	140
18	61	94	160	89	434	367	560	622	144	144	965	136
19	55	169	140	90	428	345	525	571	139	146	715	128
20	55	179	135	88	528	344	523	511	147	135	545	127
21	55	177	130	88	1440	175	499	432	141	218	416	133
22	60	90	125	88	1770	166	464	366	143	267	334	150
23	58	60	120	87	1860	236	429	349	185	258	293	500
24	60	67	120	88	1700	311	523	306	246	246	250	1400
25	66	367	115	84	2270	385	637	284	258	197	236	1700
26	256	508	115	90	2620	451	633	275	241	197	214	1630
27	452	417	115	100	2580	441	589	249	212	201	194	1300
28	437	403	115	99	2270	458	529	235	177	188	191	1080
29	384	1010	120	94	---	475	529	132	174	235	191	1060
30	328	1060	145	89	---	560	608	128	169	297	192	1020
31	279	---	135	86	---	567	---	146	---	331	184	---
TOTAL	5310	6784	10290	2994	24545	17561	19722	12783	5801	6150	8990	13583
MEAN	171	226	332	96.6	877	566	657	412	193	198	290	453
MAX	452	1060	984	125	2620	1890	1020	661	258	331	965	1700
MIN	55	60	115	84	80	166	429	128	139	135	146	127
CAL YR 1980	TOTAL	117365	MEAN	321	MAX	5580	MIN	44				
WTR YR 1981	TOTAL	134513	MEAN	369	MAX	2620	MIN	55				

01059000 ANDROSCOGGIN RIVER NEAR AUBURN, ME

LOCATION.--Lat 44°04'20", long 70°12'31", Androscoggin County, Hydrologic Unit 01040002, on right bank 1.5 mi (2.4 km) downstream from Little Androscoggin River and 2.1 mi (3.4 km) downstream from north bridge between Auburn and Lewiston.

DRAINAGE AREA.--3,263 mi² (8,451 km²), revised.

PERIOD OF RECORD.--Discharge: October 1928 to current year. Monthly discharge only for October 1928, published in WSP 1301.

Water-quality records: Water years 1966-75.

REVISED RECORDS.--WSP 781: 1930, 1933-34. WSP 1301: 1932-36.

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

REMARKS.--Records good. Considerable diurnal fluctuation and some regulation by powerplants above station. Flow regulated by Rangeley, Mooslookmeguntic, Richardson, Aziscohos, Umbagog, Auburn, and Thompson Lakes and Gulf Island Pond (Reservoirs in Androscoggin River Basin) with major regulation at Errol Dam 136 mi (219 km) upstream. Several observations of water temperature and specific conductance were made during the year.

AVERAGE DISCHARGE.--53 years, 6,119 ft³/s (173.3 m³/s).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 135,000 ft³/s (3,820 m³/s) Mar. 20, 1936, gage height, 27.57 ft (8.403 m), from rating curve extended above 76,000 ft³/s (2,200 m³/s) on basis of slope-area measurement of peak flow and computation of flow over dam; minimum daily, 340 ft³/s (9.63 m³/s) Sept. 28, 1941.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 38,700 ft³/s (1,100 m³/s) Feb. 22, gage height, 12.13 ft (3.697 m); minimum daily, 785 ft³/s (22.2 m³/s) Oct. 12.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	3020	3880	9370	2710	2410	11200	12300	6740	3830	3290	4900	3140
2	2790	2990	6870	2410	2890	9820	9760	5680	4820	4530	3120	3110
3	2450	3810	6350	2340	4440	8960	12900	5640	5290	3620	3310	3170
4	2030	3450	7640	2390	6170	7570	10300	5220	5290	891	3890	3400
5	2590	3620	5320	2560	4990	6640	9130	5540	5220	1780	3750	2610
6	4350	3750	5270	2370	4200	5480	11200	5590	4820	4900	4820	812
7	3800	3740	4240	2120	4020	4590	12300	5180	3030	4380	6790	1780
8	3340	2750	4590	2090	3370	5920	10100	5110	4260	4950	6900	2910
9	2670	2690	5180	2200	2950	5430	8640	4430	5320	4120	4310	3690
10	2270	4970	5220	2000	2860	5550	7670	2650	5330	3980	4610	3810
11	1430	4950	5080	2050	4320	5250	7460	3910	6050	3520	4680	5290
12	785	4140	4490	2300	7160	5170	7060	4360	5950	1550	4610	4110
13	2000	3700	4040	2330	16900	5180	6860	5160	5230	2820	3780	2260
14	2140	3670	3590	2210	10300	5240	6610	10500	1840	3310	3280	3590
15	2380	2980	3630	2210	6660	5220	6720	7760	3900	3400	3790	3910
16	2600	2200	2810	2310	5570	4400	6720	7270	4350	3500	1810	3900
17	2780	2960	2730	2100	4810	3640	6690	11300	4710	3470	9500	3680
18	1560	3280	2600	2120	5310	3550	6560	14500	5090	2240	8540	3490
19	1090	3310	2550	2310	5730	3530	4520	9630	4110	1650	6530	3300
20	3260	3170	2230	2160	6480	3410	6540	7270	2290	3040	6040	860
21	3400	3160	2470	2360	14900	2950	6610	6980	2270	3650	4270	2800
22	3300	2080	2890	2550	34800	1530	5780	5620	4850	3810	3310	3420
23	2920	1870	2940	2580	29300	3040	5270	5380	5920	4100	3390	6880
24	2300	3250	3080	2410	21300	3840	5380	3480	6630	4040	3730	26600
25	1360	4580	2790	2400	26000	4180	5320	4590	5290	3730	3620	26000
26	6820	6280	3150	2580	25400	4270	6440	4560	4800	2000	3460	16900
27	16200	6200	3180	2630	18600	4390	6460	4410	2540	3230	3550	11000
28	9530	5110	2930	2630	13800	4090	6190	4450	1470	3490	3610	27000
29	6480	8380	3020	2610	---	2330	6260	4210	3410	3740	2880	11500
30	5030	12600	3020	2620	---	5140	5830	3830	3240	4480	2090	9800
31	4350	---	2950	2420	---	10600	---	2580	---	5920	3030	---
TOTAL	111025	123520	126220	73080	295640	162110	229580	183530	131150	107131	135900	204722
MEAN	3581	4117	4072	2357	10560	5229	7653	5920	4372	3456	4384	6824
MAX	16200	12600	9370	2710	34800	11200	12900	14500	6630	5920	9500	27000
MIN	785	1870	2230	2000	2410	1530	4520	2580	1470	891	1810	812
CAL YR 1980	TOTAL	1462194	MEAN	3995	MAX	43000	MIN	616				
WTR YR 1981	TOTAL	1883608	MEAN	5161	MAX	34800	MIN	785				

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

LOCATION.--Lat 43°55'03", long 69°58'25", Cumberland County, Hydrologic Unit 01060001, on right bank at cable suspended footbridge, 530 ft (161 m) downstream from railroad bridge at Brunswick.

DRAINAGE AREA.--3,434 mi² (8,894 km²), revised.

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.

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

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

EXTREMES FOR PERIOD OF DAILY RECORD.--

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

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

EXTREMES FOR CURRENT YEAR.--

SPECIFIC CONDUCTANCE: Maximum recorded, 251 micromhos Dec. 15; minimum recorded, 38 micromhos Feb. 24.

WATER TEMPERATURES: Minimum, 0.0°C on many days during winter period.

REVISIONS.--The dissolved organic carbon data published in the 1979 and 1980 reports is invalid due to a sample contamination problem.

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DATE	TIME	ESTI- MATED, DIS- CHARGE, (CFS)	SPE- CIFIC CON- DUCT- ANCE (UMHOS)	SPE- CIFIC CON- DUCT- ANCE LAB (UMHOS)	PH (UNITS)	TEMPER- ATURE, AIR (DEG C)	TEMPER- ATURE (DEG C)	TUR- BID- ITY (NTU)	OXYGEN, DIS- SOLVED (MG/L)	COLI- FORM, FECAL, 0.7 UM-MF (COLS./ 100 ML)	STREP- TOCOCCI FECAL, KF AGAR (COLS. PER 100 ML)	HARD- NESS (MG/L AS CAC03)
OCT 22...	1300	3470	105	141	7.0	9.5	10.0	1.3	10.7	2000	270	22
NOV 25...	1415	4820	120	118	6.6	7.5	2.0	.70	11.8	130	120	19
DEC 16...	1330	2960	110	110	6.6	-15.0	.0	1.1	12.8	K580	K58	14
JAN 28...	1300	2770	150	155	6.6	8.0	.0	1.7	14.0	770	240	23
FEB 24...	1430	22400	44	39	6.2	4.5	.5	2.9	14.1	280	160	8
MAR 24...	1430	4040	124	119	6.7	10.0	4.5	3.0	12.0	230	70	19
APR 22...	1300	6080	97	91	6.8	8.5	6.5	3.5	11.3	55	K19	17
MAY 19...	1330	10100	82	79	6.8	20.0	14.0	2.1	10.8	120	70	15
JUN 17...	1500	4960	108	98	6.8	26.0	22.0	2.5	8.7	50	58	17
JUL 28...	1530	3670	140	132	7.0	20.0	24.0	2.6	8.8	200	K30	24
AUG 18...	1400	8990	110	106	7.0	27.0	21.5	5.1	9.5	450	85	19
SEP 22...	0915	3600	139	126	6.8	12.0	16.0	3.0	9.3	52	26	20

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

01059400 ANDROSCOGGIN RIVER AT BRUNSWICK, ME--Continued

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DATE	HARD- NESS NONCAR- BONATE (MG/L AS CAC03)	CALCIUM DIS- SOLVED (MG/L AS CA)	MAGNE- SIUM, DIS- SOLVED (MG/L AS MG)	SODIUM, DIS- SOLVED (MG/L AS NA)	POTAS- SIUM, DIS- SOLVED (MG/L AS K)	ALKA- LINITY LAB (MG/L AS CAC03)	SULFATE DIS- SOLVED (MG/L AS S04)	CHLO- RIDE, DIS- SOLVED (MG/L AS CL)	FLUO- RIDE, DIS- SOLVED (MG/L AS F)	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)
OCT												
22...	5.0	6.7	1.2	18	1.4	17	15	22	<.1	5.7	98	81
NOV												
25...	9.0	6.1	1.0	14	1.2	10	17	19	.1	5.8	86	71
DEC												
16...	.00	4.4	.7	12	1.1	21	13	14	.1	5.8	78	65
JAN												
28...	3.0	7.4	1.2	21	1.3	20	16	21	<.1	5.9	105	87
FEB												
24...	.00	2.5	.5	3.3	1.0	9.0	5.6	4.3	<.1	3.0	34	27
MAR												
24...	5.0	6.2	.9	11	1.2	14	13	16	<.1	6.3	77	64
APR												
22...	3.0	5.5	.8	9.9	1.2	14	11	11	<.1	5.8	75	55
MAY												
19...	.00	4.7	.8	9.1	1.0	24	10	11	<.1	4.8	49	57
JUN												
17...	11	5.6	.8	10	1.1	6.0	9.9	14	<.1	4.3	73	51
JUL												
28...	6.0	7.6	1.1	17	1.4	18	16	18	<.1	4.3	95	78
AUG												
18...	.00	6.0	.9	12	1.1	19	12	15	<.1	5.0	64	65
SEP												
22...	4.0	6.2	1.1	15	1.0	16	13	19	<.1	4.1	74	70

DATE	SOLIDS, DIS- SOLVED (TONS PER AC-FT)	SOLIDS, DIS- SOLVED (TONS PER DAY)	NITRO- GEN, NO2+NO3 DIS- SOLVED (MG/L AS N)	NITRO- GEN, 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 N)	NITRO- GEN,AM- MONIA + ORGANIC TOTAL (MG/L AS N)	NITRO- GEN,AM- MONIA + ORGANIC DIS. (MG/L AS N)	NITRO- GEN, TOTAL (MG/L AS N)	NITRO- GEN DIS- SOLVED (MG/L AS N)	PHOS- PHORUS, TOTAL (MG/L AS P)	PHOS- PHORUS, DIS- SOLVED (MG/L AS P)
OCT												
22...	.13	918	.17	.17	.090	.000	.70	.48	.87	.65	.080	.050
NOV												
25...	.12	1120	.22	.21	.060	.040	.56	.17	.78	.38	.050	.010
DEC												
16...	.11	623	.22	.21	.070	.080	.35	.22	.57	.43	.050	.050
JAN												
28...	.14	785	.20	.22	.220	.220	.68	.46	.88	.68	.100	.060
FEB												
24...	.05	2060	.33	.33	.110	.120	.42	.34	.75	.67	.080	.020
MAR												
24...	.10	840	.31	.30	.140	--	.77	--	1.1	--	.060	.030
APR												
22...	.10	1230	.30	.31	.100	.100	.37	.35	.67	.66	.060	.020
MAY												
19...	.07	1340	.17	.19	.040	.050	.71	.44	.88	.63	.050	.020
JUN												
17...	.10	978	.31	.32	.070	.120	.44	<.10	.75	--	.050	.020
JUL												
28...	.13	941	.36	.36	.010	.060	.45	.43	.81	.79	.040	.020
AUG												
18...	.09	1550	.40	.32	.140	.140	.57	.47	.97	.79	.070	.020
SEP												
22...	.10	719	.25	.26	.090	.080	.38	.15	.63	.41	.060	.020

01059400 ANDROSCOGGIN RIVER AT BRUNSWICK, ME--Continued

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DATE	ARSENIC TOTAL (UG/L AS AS)	ARSENIC DIS- SOLVED (UG/L AS AS)	BARIUM, TOTAL RECOV- ERABLE (UG/L AS BA)	BARIUM, DIS- SOLVED (UG/L AS BA)	CADMIUM TOTAL RECOV- ERABLE (UG/L AS CD)	CADMIUM DIS- SOLVED (UG/L AS CD)	CHRO- MIUM, TOTAL RECOV- ERABLE (UG/L AS CR)	CHRO- MIUM, DIS- SOLVED (UG/L AS CR)	COBALT, TOTAL RECOV- ERABLE (UG/L AS CO)	COBALT, DIS- SOLVED (UG/L AS CO)
NOV 25...	1	1	100	20	0	0	20	20	4	0
FEB 24...	0	0	<50	100	0	0	20	10	0	0
MAY 19...	0	0	100	10	1	<1	<10	<10	1	0
AUG 18...	1	0	<50	10	1	1	10	<10	4	3

DATE	COPPER, TOTAL RECOV- ERABLE (UG/L AS CU)	COPPER, DIS- SOLVED (UG/L AS CU)	IRON, TOTAL RECOV- ERABLE (UG/L AS FE)	IRON, DIS- SOLVED (UG/L AS FE)	LEAD, TOTAL RECOV- ERABLE (UG/L AS PB)	LEAD, DIS- SOLVED (UG/L AS PB)	MANGA- NESE, TOTAL RECOV- ERABLE (UG/L AS MN)	MANGA- NESE, DIS- SOLVED (UG/L AS MN)	MERCURY TOTAL RECOV- ERABLE (UG/L AS HG)
NOV 25...	6	2	580	170	23	2	70	70	.1
FEB 24...	35	10	1300	180	46	11	130	80	<.1
MAY 19...	8	5	490	140	9	0	60	40	<.1
AUG 18...	5	3	740	190	14	<1	100	20	.2

DATE	MERCURY DIS- SOLVED (UG/L AS HG)	NICKEL, TOTAL RECOV- ERABLE (UG/L AS NI)	NICKEL, DIS- SOLVED (UG/L AS NI)	SELE- NIUM, TOTAL (UG/L AS SE)	SELE- NIUM, DIS- SOLVED (UG/L AS SE)	SILVER, TOTAL RECOV- ERABLE (UG/L AS AG)	SILVER, DIS- SOLVED (UG/L AS AG)	ZINC, TOTAL RECOV- ERABLE (UG/L AS ZN)	ZINC, DIS- SOLVED (UG/L AS ZN)
NOV 25...	<.1	6	2	0	0	0	0	30	3
FEB 24...	.1	3	3	0	0	0	0	130	10
MAY 19...	<.1	8	6	0	0	0	0	20	6
AUG 18...	<.1	3	2	<1	<1	<1	<1	30	4

DATE	CARRON, ORGANIC TOTAL (MG/L AS C)	CARRON, ORGANIC SUS- PENDED TOTAL (MG/L AS C)	PHYTO- PLANK- TON, TOTAL (CELLS PER ML)	SEDI- MENT, SUS- PENDED (MG/L)	SEDI- MENT, DIS- CHARGE, SUS- PENDED (T/DAY)	SED. SUSP. SIEVE DIAM. % FINER THAN .062 MM
OCT 22...	12	--	--	35	328	97
NOV 25...	--	--	1900	14	182	76
DEC 16...	9.2	--	--	7	56	100
JAN 28...	9.8	--	--	3	22	100
FEB 24...	--	--	--	36	2180	83
MAR 24...	7.2	--	10000	6	65	--
APR 22...	6.3	--	--	7	115	95
MAY 19...	--	--	85000	15	409	86
JUN 17...	7.2	--	1300	9	121	89
JUL 28...	5.6	--	8100	6	59	86
AUG 18...	--	1.0	13000	7	170	100
SEP 22...	7.8	--	24000	3	29	10

01059400 ANDROSCOGGIN RIVER AT BRUNSWICK, ME--Continued

PHYTOPLANKTON ANALYSES, OCTOBER 1980 TO SEPTEMBER 1981

DATE TIME	NOV 25,80 1415	MAR 24,81 1430	MAY 19,81 1330	JUN 17,81 1500				
TOTAL CELLS/ML	1900	10000	85000	1300				
DIVERSITY: DIVISION	0.5	0.0	0.2	1.4				
..CLASS	0.5	0.0	0.2	1.4				
..ORDER	0.5	0.0	0.4	2.0				
...FAMILY	0.5	0.0	0.4	2.2				
....GENUS	0.5	0.0	0.4	2.5				
ORGANISM	CELLS /ML	PER- CENT	CELLS /ML	PER- CENT	CELLS /ML	PER- CENT	CELLS /ML	PER- CENT
CHLOROPHYTA (GREEN ALGAE)								
..CHLOROPHYCEAE								
...CHLOROCOCCALES								
....COELASTRACEAE								
.....COELASTRUM	130	7	--	--	--	--	--	--
....HYDRODICTYACEAE								
.....PEDIASTRUM	--	--	--	--	--	--	--	--
....MICRACTINIACEAE								
.....GOLENKINIA	--	--	--	--	--	--	--	--
....OOCYSTACEAE								
.....ANKISTRODESMUS	13	1	--	--	--	--	--	--
.....DICTYOSPHAERIUM	--	--	--	--	* 0	--	13	1
.....FRANCEIA	--	--	--	--	--	--	--	--
.....GLOEOACTINIUM	--	--	--	--	--	--	--	--
.....KIRCHNERIELLA	--	--	--	--	--	--	--	--
.....OOCYSTIS	--	--	--	--	--	--	--	--
.....POLYEDRIOPSIS	--	--	--	--	--	--	--	--
.....SELENASTRUM	--	--	--	--	--	--	--	--
.....TETRAEDRON	--	--	--	--	--	--	--	--
....SCENEDESMACEAE								
.....ACTINASTRUM	--	--	--	--	--	--	--	--
.....CRUCIGENIA	--	--	--	--	* 0	--	260#	20
.....SCENEDESMUS	--	--	--	--	--	--	52	4
.....TETRASTRUM	--	--	--	--	--	--	--	--
..TETRASPORALES								
...PALMELLACEAE								
....SPHAEROCYSTIS	--	--	--	--	--	--	--	--
..VOLVOCALES								
...CHLAMYDOMONADACEAE								
....CHLAMYDOMONAS	--	--	--	--	* 0	--	65	5
CHRYSOPHYTA								
..BACILLARIOPHYCEAE								
...CENTRALES								
....COSCINODISCACEAE								
.....CYCLOTELLA	--	--	--	--	* 0	--	65	5
.....MELOSIRA	--	--	--	--	--	--	540#	41
...PENNALES								
....ACHNANTHACEAE								
.....ACHNANTHES	--	--	--	--	* 0	--	13	1
....COCCONEIS	--	--	--	--	--	--	--	--
....CYMBELLACEAE								
.....CYMBELLA	--	--	--	--	* 0	--	--	--
....DIATOMACEAE								
.....DIATOMA	--	--	--	--	* 0	--	--	--
....FRAGILARIACEAE								
.....ASTERIONELLA	--	--	* 0	--	--	--	--	--
.....FRAGILARIA	--	--	* 0	--	--	--	--	--
.....HANNAEA	--	--	--	--	* 0	--	--	--
.....SYNEDRA	--	--	--	--	* 0	--	39	3
....GOMPHONEMACEAE								
.....GOMPHONEMA	--	--	--	--	* 0	--	--	--
....NAVICULACEAE								
.....NAVICULA	--	--	--	--	--	--	13	1
....NITZSCHACEAE								
.....NITZSCHIA	13	1	* 0	* 0	* 0	--	52	4
....TABELLARIACEAE								
.....TABELLARIA	--	--	--	--	--	--	--	--
..CHRYSOPHYCEAE								
...CHRYSOMONADALES								
....OCHROMONADACEAE								
.....DINORRYON	--	--	--	--	--	--	--	--
CRYPTOPHYTA (CRYPTOMONADS)								
..CRYPTOPHYCEAE								
...CRYPTOMONADALES								
....CRYPTOCHRYSIDACEAE								
.....CHROOMONAS	--	--	--	--	--	--	--	--
CYANOPHYTA (BLUE-GREEN ALGAE)								
..CYANOPHYCEAE								
...CHROOCOCCALES								
....CHROOCOCCACEAE								
.....AGMENELLUM	--	--	--	--	--	--	--	--
.....ANACYSTIS	13	1	--	--	2200	3	210#	16
...HORMOGONALES								
....NOSTOCACEAE								
.....APHANIZOMENON	--	--	--	--	--	--	--	--
....OSCILLATORIACEAE								
.....LYNGBYA	--	--	--	--	--	--	--	--
.....OSCILLATORIA	1700#	91	10000#	100	81000#	95	--	--
PYRRHOPHYTA (FIRE ALGAE)								
..PYRRHOPHYCEAE								
...PEPIDINIALES								
....PERIDINIACEAE								
.....PERIDINIUM	--	--	--	--	* 0	--	--	--

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

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

01059400 ANDROSCOGGIN RIVER AT BRUNSWICK, ME--Continued

PHYTOPLANKTON ANALYSES, OCTOBER 1980 TO SEPTEMBER 1981

DATE TIME	JUL 28.81 1530	AUG 18.81 1400	SEP 22.81 0915			
TOTAL CELLS/ML	8100	13000	24000			
DIVERSITY: DIVISION	1.5	1.3	0.3			
..CLASS	1.5	1.3	0.3			
...ORDER	2.0	1.4	0.3			
...FAMILY	2.8	1.8	0.3			
....GENUS	3.7	2.4	0.3			
ORGANISM	CELLS /ML	PER- CENT	CELLS /ML	PER- CENT	CELLS /ML	PER- CENT
CHLOROPHYTA (GREEN ALGAE)						
..CHLOROPHYCEAE						
...CHLOROCOCCALES						
...COELASTRACEAE						
....COELASTRUM	--	-	--	-	--	-
...HYDRODICTYACEAE						
....PEDIASTRUM	1700#	21	2800#	21	340	1
...MICRACTINIACEAE						
....GOLENKINIA	--	-	84	1	*	0
...OOCYSTACEAE						
....ANKISTRODESMUS	180	2	110	1	--	-
....DICTYOSPHAERIUM	270	3	220	2	--	-
....FRANCEIA	*	0	--	-	--	-
....GLOEOACTINIUM	190	2	--	-	--	-
....KIRCHNERIELLA	*	0	*	0	--	-
....OOCYSTIS	--	-	*	0	--	-
....POLYEDRIOPSIS	--	-	*	0	--	-
....SELENASTRUM	260	3	--	-	--	-
....TETRAEDRON	*	0	*	0	--	-
...SCENEDESMACEAE						
....ACTINASTRUM	130	2	--	-	--	-
....CRUCIGENIA	260	3	*	0	--	-
....SCENEDESMUS	510	6	640	5	*	0
....TETRASTRUM	130	2	--	-	--	-
...TETRASPORALES						
...PALMELLACEAE						
...SPHAEROCYSTIS	130	2	--	-	--	-
...VOLVOCALES						
...CHLAMYDOMONADACEAE						
....CHLAMYDOMONAS	270	3	*	0	--	-
CHRYSTOPHYTA						
..BACILLARIOPHYCEAF						
...CENTRALES						
...COSCINODISCACEAE						
....CYCLOTELLA	320	4	70	1	--	-
....MELOSIRA	610	8	740	6	170	1
...PENNALES						
...ACHNANTHACEAE						
....ACHNANTHES	--	-	--	-	--	-
...COCCONEIS	*	0	--	-	*	0
...CYMBELLACEAE						
....CYMBELLA	*	0	--	-	--	-
...DIATOMACEAE						
....DIATOMA	*	0	*	0	--	-
...FRAGILARIACEAE						
....ASTERIONELLA	--	-	130	1	*	0
...FRAGILARIA	130	2	--	-	--	-
...HANNAFA	--	-	*	0	--	-
...SYNEDRA	160	2	*	0	--	-
...GOMPHONEMACEAE						
....GOMPHONEMA	--	-	--	-	*	0
...NAVICULACEAE						
....NAVICULA	*	0	*	0	*	0
...NITZSCHIACEAE						
....NITZSCHIA	80	1	*	0	*	0
...TABELLARIACEAE						
....TABELLARIA	--	-	*	0	--	-
CHRYSTOPHYCEAE						
...CHRYSOMONADALES						
...OCHROMONADACEAF						
....DINORRYON	*	0	--	-	--	-
CRYPTOPHYTA (CRYPTOMONADS)						
..CRYPTOPHYCEAE						
...CRYPTOMONADALES						
....CRYPTOCHRYSIDACEAE						
....CHROOMONAS	*	0	--	-	--	-
CYANOPHYTA (BLUE-GREEN ALGAF)						
..CYANOPHYCEAE						
...CHROOCOCCALES						
....CHROOCOCCACEAE						
....AGMENELLUM	1900#	23	1900	14	--	-
....ANACYSTIS	630	8	6100#	46	--	-
...HORMOGONALES						
...NOSTOCACEAF						
....APHANIZOMENON	--	-	--	-	23000#	97
...OSCILLATORIACEAE						
....LYNGBYA	--	-	98	1	--	-
...OSCILLATORIA	--	-	--	-	--	-
PYRRHOPHYTA (FIRE ALGAE)						
..DINOPHYCEAF						
...PERIDINIALES						
....PERIDINIACEAE						
....PERIDINIUM	--	-	--	-	*	0

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

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

01059400 ANDROSCOGGIN RIVER AT BRUNSWICK, ME--Continued

SPECIFIC CONDUCTANCE (MICROMHOS/CM AT 25 DEG. C), WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
OCTOBER			NOVEMBER			DECEMBER			JANUARY			
1	166	161	163	97	90	93	114	104	109	144	142	143
2	164	160	162	90	83	88	115	104	106	143	141	143
3	160	154	156	87	82	84	104	96	99	---	---	---
4	154	149	152	89	85	87	103	86	94	---	---	---
5	153	145	150	95	87	91	85	77	80	---	---	---
6	145	136	139	93	88	90	86	78	82	---	---	---
7	142	138	140	98	93	95	92	85	89	129	127	128
8	154	138	142	103	97	99	97	92	95	129	124	127
9	169	139	144	104	83	95	98	97	97	---	---	---
10	166	143	149	109	100	105	99	93	96	---	---	---
11	157	148	151	113	105	108	131	88	96	132	128	131
12	160	152	156	119	114	117	127	82	100	---	---	---
13	170	154	158	122	119	121	105	99	102	---	---	---
14	155	148	151	126	122	124	112	95	106	136	133	134
15	150	146	148	128	123	125	251	106	124	137	134	136
16	149	143	146	129	123	126	116	111	113	140	136	138
17	149	140	143	125	123	124	118	84	113	---	---	---
18	153	136	141	128	124	126	---	---	---	144	141	143
19	156	143	148	129	124	128	---	---	---	147	144	145
20	160	142	145	121	110	114	120	91	117	148	146	147
21	158	142	149	---	---	---	---	---	---	149	147	148
22	161	143	151	115	109	111	---	---	---	---	---	---
23	144	142	143	117	112	114	---	---	---	---	---	---
24	145	143	144	117	112	114	128	111	125	---	---	---
25	143	136	141	115	111	113	131	127	129	150	149	149
26	140	131	138	---	---	---	---	---	---	152	149	150
27	143	130	140	115	111	114	---	---	---	153	150	151
28	144	142	143	116	108	111	---	---	---	152	151	152
29	145	129	140	123	117	121	138	135	137	152	151	152
30	129	108	116	127	124	126	141	89	130	153	151	152
31	107	97	101	126	108	115	142	140	141	153	151	152
MONTH	170	97	145	119	108	113	142	140	141	158	151	152
MONTH	170	97	145	129	82	110	251	77	110	158	124	144

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
FEBRUARY			MARCH			APRIL			MAY			
1	---	---	---	50	47	48	127	124	126	129	102	113
2	153	150	151	54	51	53	125	116	122	156	108	133
3	152	148	150	66	55	57	115	106	112	157	109	146
4	153	132	146	64	57	60	105	88	94	107	100	101
5	146	141	144	65	60	63	86	80	83	109	101	102
6	144	142	143	71	66	69	80	79	80	116	98	104
7	144	142	143	75	72	74	80	77	79	102	98	100
8	143	141	142	77	74	75	81	77	79	112	101	108
9	143	141	141	78	76	77	81	78	79	113	105	110
10	141	139	140	81	78	79	80	76	78	117	107	112
11	139	131	136	83	79	81	77	75	76	108	104	105
12	134	125	132	88	82	85	79	76	77	111	104	108
13	134	105	114	91	86	88	81	77	79	112	108	110
14	108	103	106	96	89	91	83	78	81	112	104	106
15	108	105	107	103	93	95	88	82	83	113	108	110
16	104	99	102	98	93	96	86	82	84	---	---	---
17	97	90	94	102	99	101	90	85	87	116	111	113
18	89	80	86	104	100	103	90	85	87	110	95	103
19	79	73	74	107	104	106	92	90	91	96	78	88
20	76	67	73	107	105	106	96	92	94	79	76	83
21	70	65	67	94	92	93	94	92	93	75	70	73
22	75	60	71	111	108	109	104	91	96	68	61	65
23	58	39	48	113	110	111	103	90	99	59	57	58
24	41	38	40	118	112	115	92	88	90	58	54	56
25	48	42	44	143	114	119	95	92	94	58	55	56
26	49	46	47	123	121	122	94	93	93	63	55	59
27	49	46	47	125	121	123	95	90	93	67	62	65
28	50	44	48	125	123	124	93	90	91	72	64	68
29	47	45	46	127	123	124	98	92	95	76	68	72
30	---	---	---	134	127	131	99	97	98	93	70	75
31	---	---	---	131	121	127	120	99	104	77	72	74
MONTH	153	38	101	125	120	123	---	---	---	91	74	79
MONTH	153	38	101	143	47	95	127	75	91	157	54	92

01059400 ANDROSCOGGIN RIVER AT BRUNSWICK, ME--Continued

SPECIFIC CONDUCTANCE (MICROMHOS/CM AT 25 DEG. C), WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
	JUNE			JULY			AUGUST			SEPTEMBER		
1	91	76	83									
2	90	81	88									
3	99	86	95									
4	110	95	103									
5	123	108	116									
6	123	118	120									
7	118	111	115									
8	117	101	111									
9	109	102	105									
10	109	94	99									
11	109	97	103									
12	107	95	104									
13	103	91	96									
14	119	93	106									
15	112	98	104									
16	106	95	102									
17	---	---	---									
18	---	---	---									
19	---	---	---									
20	---	---	---									
21	---	---	---									
22	---	---	---									
23	---	---	---									
24	---	---	---									
25	---	---	---									
26	---	---	---									
27	---	---	---									
28	---	---	---									
29	---	---	---									
30	---	---	---									
31	---	---	---									
MONTH	123	76	103									
Period	251	38	109									

TEMPERATURE, WATER (DEG. C), WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

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

Reservoirs in Androscoggin River Basin

- 01050500 RANGELEY LAKE on Rangeley Stream, at Oquossoc, Maine, used for power, has usable capacity of 1,339,200,000 ft³ (37,926,000 m³) in top 4.0 ft (1.22 m) of lake (top of flashboards). Gage-height record furnished by Union Water Power Co.
- 01051000 MOOSELOOKMEGUNTIC LAKE at Upper Dam, in Richardson Township, Maine, used for power, has usable capacity of 8,370,000,000 ft³ (237,000,000 m³) between gage heights 8.3 ft (2.53 m) and 20.5 ft (6.25 m). Gage-height record furnished by Union Water Power Co.
- 01051500 UPPER AND LOWER RICHARDSON LAKES on Rapid River, at Middle Dam, Maine, used for power has usable capacity of 5,691,500,000 ft³ (161,180,000 m³) between gage heights 3.0 ft (0.91 m) and 20.5 ft (6.25 m). Gage-height record furnished by Union Water Power Co.
- 01052000 AZISCOHOS LAKE on Magalloway River in Lincoln Township, 3 mi (5 km) east of village of Wilsons Mills, Maine, completed in 1911 for power, has usable capacity of 9,593,000,000 ft³ (271,700,000 m³) between elevations 1,490.0 ft (454.15 m) and 1,535.0 ft (467.87 m). Elevation record furnished by Union Water Power Co.
- 01053000 UMBAGOG LAKE on Androscoggin River at Errol Dam, 0.6 mi (1.0 km) northeast of Errol, NH, used for power, has usable capacity of 3,080,160,000 ft³ (87,230,100 m³) between gage heights 5.5 ft (1.68 m) and 15.0 ft (4.57 m). Gage-height record furnished by Union Water Power Co.
- 01056000 GULF ISLAND POND on Androscoggin River, 3 mi (5 km) upstream from Lewiston, Maine, completed in 1928 for power, has capacity of 1,100,000,000 ft³ (31,150,000 m³) in top 10 ft (3 m) of pond below elevation 262.0 ft (79.86 m). Elevation record furnished by Central Maine Power Co.
- 01056500 LAKE AUBURN on outlet stream to Androscoggin River at East Auburn, Maine, used for storing water supply of Auburn and Lewiston, has usable capacity of 580,000,000 ft³ (16,430,000 m³) between elevations 254.7 ft (77.63 m) and 260.7 ft (79.46 m). Elevation record furnished by Auburn Water District.
- 01058000 THOMPSON LAKE on short outlet stream to Little Androscoggin River at Oxford, Maine, used for process water, has usable capacity of 950,000,000 ft³ (26,900,000 m³) between gage heights 95.0 ft (28.96 m) and 100.0 ft (30.48 m). Gage-height record furnished by Robinson Manufacturing Co.

MONTHEND CONTENTS IN MILLIONS OF CUBIC FEET, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DATE	RANGELEY LAKE	MOOSELOOKMEGUNTIC LAKE	UPPER AND LOWER RICHARDSON LAKES	AZISCOHOS LAKE
SEPT. 30, 1980	1061	1266	4195	3974
OCT. 31	1229	834	5538	4748
NOV. 30	894	2906	3899	5644
DEC. 31	894	3722	1290	6408
JAN. 31, 1981	670	3008	692	4272
FEB. 29	780	4334	588	5698
MAR. 31	251	5408	512	6142
APR. 30	863	6687	3160	8920
MAY 31	1269	7688	5237	9841
JUNE 30	1313	8010	5633	9732
JULY 31	1256	7867	4768	7950
AUG. 31	1185	7545	4844	8890
SEPT. 30	1282	6296	4844	9593

DATE	UMBAGOG LAKE	GULF ISLAND POND	LAKE AUBURN	THOMPSON LAKE
SEPT. 30, 1980	2148	1913	419	1687
OCT. 31	3041	2436	397	1556
NOV. 30	2924	2490	419	1586
DEC. 31	2651	2308	419	1609
JAN. 31, 1981	2110	2354	408	1552
FEB. 29	3002	2482	520	1584
MAR. 31	1884	2457	568	1875
APR. 30	2768	2331	640	1930
MAY 31	3022	2339	640	1909
JUNE 30	2846	2461	616	1915
JULY 31	2167	2464	628	1898
AUG. 31	2167	2483	604	1924
SEPT. 30	2885	2484	628	1790

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

01059800 COLLYER BROOK NEAR GRAY, ME

LOCATION.--Lat 43°55'03", long 70°19'02", Cumberland County, Hydrologic Unit 01060001, 50 ft (15 m) downstream from U.S. Highway 202, 2.4 mi (3.9 km) northeast of Gray, and 3.4 mi (5.5 km) upstream from mouth.

DRAINAGE AREA.--13.8 mi² (35.7 km²), revised.

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

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

REMARKS.--Records fair. No gage-height record Aug. 21 to Sept. 30. Several observations of water temperature and specific conductance were made during the year.

AVERAGE DISCHARGE.--17 years, 27.3 ft³/s (0.773 m³/s), 26.86 in/yr (682 mm/yr).

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

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

Date	Time	Discharge (ft ³ /s) (m ³ /s)	Gage height (ft) (m)	Date	Time	Discharge (ft ³ /s) (m ³ /s)	Gage height (ft) (m)
Nov. 29	0515	* 514 14.6	2.69 0.820	Feb. 25	1300	232 6.57	2.10 0.640
Feb. 12	0445	ice jam	* 3.00 0.914				

Minimum daily discharge, 9.4 ft³/s (0.266 m³/s) July 12.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	11	12	25	11	11	35	24	19	15	11	12	9.8
2	11	11	21	11	25	31	57	17	13	10	11	9.7
3	12	11	23	11	55	26	35	16	12	11	11	9.7
4	25	11	20	10	30	27	26	15	21	10	11	9.7
5	15	12	18	11	21	23	24	15	31	15	14	9.7
6	13	11	17	12	19	22	25	14	16	23	14	9.6
7	12	11	16	12	17	26	22	14	14	15	13	9.6
8	11	12	15	13	16	25	20	13	12	12	12	9.6
9	11	11	14	13	16	23	19	13	15	11	12	9.9
10	11	13	14	13	15	22	18	13	14	11	20	11
11	13	12	13	12	35	22	17	13	12	10	14	12
12	15	11	13	12	100	21	17	14	11	9.4	12	12
13	12	11	12	12	82	21	16	20	11	11	12	12
14	11	11	12	12	46	20	22	16	11	13	11	11
15	11	10	12	12	33	20	27	14	11	13	12	11
16	12	10	12	11	25	19	20	24	12	11	21	12
17	11	11	11	11	22	19	18	26	12	10	15	12
18	13	13	11	12	19	19	18	17	11	11	13	11
19	15	15	11	12	18	17	18	15	11	12	12	11
20	12	20	11	12	31	17	16	13	11	11	12	12
21	12	15	11	12	127	18	16	13	14	38	11	12
22	11	12	10	12	43	19	15	12	14	18	11	13
23	11	11	10	12	28	19	15	12	14	13	11	85
24	11	12	10	12	51	18	27	12	12	12	11	130
25	26	91	10	11	200	18	24	11	11	11	11	65
26	67	40	10	11	100	17	21	11	22	11	12	38
27	19	20	10	12	58	21	17	12	13	17	11	24
28	16	37	10	12	38	30	16	12	12	12	10	18
29	14	257	11	12	---	36	18	12	11	23	10	14
30	13	43	12	12	---	31	25	12	11	20	9.9	11
31	13	---	11	11	---	28	---	19	---	14	9.8	---
TOTAL	470	777	416	364	1281	710	653	459	410	429.4	381.7	624.3
MEAN	15.2	25.9	13.4	11.7	45.8	22.9	21.8	14.8	13.7	13.9	12.3	20.8
MAX	67	257	25	13	200	36	57	26	31	38	21	130
MIN	11	10	10	10	11	17	15	11	11	9.4	9.8	9.6
CFSM	1.10	1.88	.97	.85	3.32	1.66	1.58	1.07	.99	1.01	.89	1.51
IN.	1.27	2.09	1.12	.98	3.45	1.91	1.76	1.24	1.11	1.16	1.03	1.68
CAL YR 1980	TOTAL	7052.7	MEAN 19.3	MAX 310	MIN 9.1	CFSM 1.40	IN 19.01					
WTR YR 1981	TOTAL	6975.4	MEAN 19.1	MAX 257	MIN 9.4	CFSM 1.38	IN 18.80					

01060000 ROYAL RIVER AT YARMOUTH, ME

LOCATION.--Lat 43°47'57", long 70°10'45", Cumberland County, Hydrologic Unit 01060001, on right bank 150 ft (46 m) upstream from lower highway bridge in Yarmouth.

DRAINAGE AREA.--141 mi² (365 km²), revised.

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

GAGE.--Water-stage recorder. Altitude of gage is 10 ft (3.0 m), from topographic map.

REMARKS.--Records good except those for winter period and period of backwater effect from debris, June 16 to July 28, 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.--32 years, 273 ft³/s (7.731 m³/s), 26.29 in/yr (668 mm/yr).

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

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

Date	Time	Discharge (ft ³ /s) (m ³ /s)	Gage height (ft) (m)	Date	Time	Discharge (ft ³ /s) (m ³ /s)	Gage height (ft) (m)
Nov. 29	1100	* 2380 67.4	4.07 1.241	Feb. 25	1900	1970 55.8	3.74 1.140
Feb. 21	1700	1590 45.0	3.41 1.039				

Minimum discharge, 32 ft³/s (0.906 m³/s) Sept. 5-9, gage height, 1.02 ft (0.311 m).

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	37	63	787	65	43	523	337	264	159	44	77	34
2	35	58	399	63	91	422	629	207	105	39	61	35
3	34	54	307	62	490	353	823	174	79	38	53	35
4	49	52	276	61	349	283	477	150	83	38	49	35
5	75	51	158	60	226	248	354	136	246	49	47	35
6	70	50	140	59	146	230	357	128	152	99	67	33
7	57	49	125	58	104	235	336	121	112	150	71	34
8	49	49	115	58	83	263	263	111	94	88	65	33
9	43	48	105	60	74	242	223	99	92	60	58	40
10	38	55	95	59	69	224	200	93	119	49	112	50
11	37	54	89	59	130	211	177	89	100	42	93	50
12	41	52	83	57	859	200	168	92	80	38	71	46
13	46	50	80	55	659	188	151	122	71	36	58	42
14	46	47	77	54	378	183	150	140	65	44	52	39
15	43	46	75	52	199	159	299	116	60	64	50	39
16	41	43	73	51	149	158	266	238	60	56	77	47
17	37	40	71	50	148	144	211	496	58	46	150	43
18	37	48	70	49	194	128	198	368	54	39	122	40
19	38	49	69	48	243	122	191	223	47	36	80	41
20	40	48	68	48	333	122	165	163	44	36	65	43
21	41	48	66	47	1260	118	156	130	47	110	57	45
22	41	50	65	46	1300	128	141	111	60	190	51	47
23	38	51	64	45	844	134	131	94	85	110	48	667
24	36	56	62	45	475	133	217	87	80	71	46	1280
25	40	591	62	44	1460	129	307	77	62	54	49	885
26	321	1020	61	45	1610	122	287	69	150	47	62	422
27	282	488	60	46	1230	138	224	63	170	56	46	242
28	148	342	60	46	793	244	179	59	83	58	39	176
29	106	2190	61	45	---	406	170	59	58	85	35	142
30	83	1790	62	45	---	444	259	62	49	130	34	113
31	70	---	65	44	---	403	---	89	---	110	34	---
TOTAL	2099	7632	3950	1626	13939	7037	8046	4430	2724	2112	1979	4813
MEAN	67.7	254	127	52.5	498	227	268	143	90.8	68.1	63.8	160
MAX	321	2190	787	65	1610	523	823	496	246	190	150	1280
MIN	34	40	60	44	43	118	131	59	44	36	34	33
CFSM	.48	1.80	.90	.37	3.53	1.61	1.90	1.01	.64	.48	.45	1.14
IN.	.55	2.01	1.04	.43	3.68	1.86	2.12	1.17	.72	.56	.52	1.27

CAL YR 1980	TOTAL	62982.2	MEAN 172	MAX 4610	MIN 5.7	CFSM 1.22	IN 16.62
WTR YR 1981	TOTAL	60387.0	MEAN 165	MAX 2190	MIN 33	CFSM 1.17	IN 15.93

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 (1.6 km) downstream from lake outlet.

DRAINAGE AREA.--441 mi² (1,142 km²), revised.

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

REVISED RECORDS.--WSP 261: Drainage area. WSP 1301: 1920-50 (adjusted monthly runoff).

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

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

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

AVERAGE DISCHARGE.--94 years, 658 ft³/s (18.63 m³/s).

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	415	423	423	423	368	340	340	819	831	350	343	1000
2	415	423	423	423	415	340	340	350	831	343	343	1000
3	415	423	423	423	415	831	340	350	350	343	343	1000
4	415	423	423	423	415	658	350	350	350	343	343	1000
5	415	423	423	423	415	423	350	350	350	343	343	1000
6	415	415	423	423	415	423	340	350	350	343	343	1000
7	415	423	423	423	415	423	350	350	350	343	343	1000
8	415	415	423	423	415	423	343	350	350	343	343	1000
9	415	415	423	423	415	423	343	350	350	343	343	1000
10	415	415	423	423	415	423	338	350	350	343	343	1000
11	415	415	423	423	415	423	338	350	350	343	343	1000
12	415	423	423	415	415	423	338	350	350	343	343	1000
13	415	415	415	415	415	423	343	350	350	343	343	1000
14	415	415	415	415	415	423	327	343	350	343	343	1000
15	415	415	415	415	415	423	340	350	350	343	343	1000
16	415	415	423	415	415	350	340	350	350	343	343	1000
17	415	415	415	415	415	350	752	350	350	343	343	1000
18	415	415	415	415	415	350	611	350	350	343	343	1000
19	415	415	423	415	415	350	340	350	350	343	343	1000
20	415	423	415	415	415	350	340	350	350	343	343	343
21	415	415	415	415	333	350	340	343	350	343	343	343
22	415	415	415	417	343	350	340	343	350	343	343	343
23	415	415	423	417	350	350	340	343	350	343	343	343
24	415	415	423	415	350	350	340	343	350	343	343	343
25	415	415	423	415	131	350	345	343	350	343	781	343
26	415	423	423	415	167	350	348	343	350	343	672	343
27	415	423	423	415	350	350	350	343	350	343	343	343
28	415	423	415	415	340	350	350	343	350	343	343	343
29	415	423	423	415	---	350	811	343	350	343	343	343
30	415	423	423	415	---	340	831	343	177	343	767	343
31	415	---	423	415	---	340	---	343	---	343	1000	---
TOTAL	12865	12554	13041	12957	10617	12402	11898	11235	11289	10640	12481	22773
MEAN	415	418	421	418	379	400	397	362	376	343	403	759
MAX	415	423	423	423	415	831	831	819	831	350	1000	1000
MIN	415	415	415	415	131	340	327	343	177	343	343	343
CAL YR 1980	TOTAL	135556	MEAN 370	MAX	670	MIN 50						
WTR YR 1981	TOTAL	154752	MEAN 424	MAX	1000	MIN 131						

01064140 PRESUMPCOT RIVER NEAR WEST FALMOUTH, ME--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 1973-74; 1976 to current year.

PERIOD OF DAILY RECORD.--

SPECIFIC CONDUCTANCE: July 1976 to current year.

pH: July 1976 to current year.

WATER TEMPERATURES: July 1976 to current year.

DISSOLVED OXYGEN: July 1976 to current year.

INSTRUMENTATION.--Water-quality monitor since July 1976.

EXTREMES OUTSIDE PERIOD OF DAILY RECORD.--A dissolved oxygen of 1.6 mg/L was observed July 9, 1976.

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

EXTREMES FOR PERIOD OF DAILY RECORD.--

SPECIFIC CONDUCTANCE: Maximum, 375 micromhos Jan. 8, 1979; minimum, 30 micromhos June 17-24, 1977.

pH: Maximum, 9.4 units Dec. 7, 1977; minimum, 5.3 units May 22, 1978.

WATER TEMPERATURES: Maximum, 29.0°C July 21, 1977, Aug. 8, 9, 1980; minimum, 0.0°C on many days during winter periods.

DISSOLVED OXYGEN: Maximum, 14.0 mg/L Feb. 15, 1978, Dec. 15, 1980; minimum, 4.4 mg/L Aug. 8, 1980.

EXTREMES FOR CURRENT YEAR.--

SPECIFIC CONDUCTANCE: Maximum, 256 micromhos July 1; minimum, 47 micromhos Sept. 15.

pH: Maximum, 8.2 units Sept 19; minimum, 6.3 units Sept. 14, 15, 19.

WATER TEMPERATURES: Maximum, 28.5°C July 10, 11, 12; minimum, 0.0°C on many days during winter period.

DISSOLVED OXYGEN.--Maximum, 14.0 mg/L Dec. 15; minimum, 5.6 mg/L July 10.

REVISIONS.--The dissolved organic carbon data published in the 1979 and 1980 reports are invalid due to sample contamination problem.

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DATE	TIME	STREAM- FLOW, INSTAN- TANEOUS (CFS)	SPE- CIFIC CON- DUCT- ANCE (UMHOS)	SPE- CIFIC CON- DUCT- ANCE LAB (UMHOS)	PH (UNITS)	TEMPER- ATURE, AIR (DEG C)	TEMPER- ATURE (DEG C)	TUR- BID- ITY (NTU)	OXYGEN, DIS- SOLVED (MG/L)
OCT									
22...	1030	503	125	114	7.2	10.0	11.0	2.6	7.2
NOV									
25...	1130	1020	125	85	6.8	8.5	4.0	1.6	12.0
JAN									
28...	1015	475	125	121	7.2	10.0	1.0	5.5	13.1
MAR									
24...	1200	475	145	138	6.8	10.0	5.0	--	11.5
MAY									
19...	0930	527	152	149	7.2	18.0	15.0	5.7	9.8
JUL									
28...	1100	498	138	142	7.1	24.0	24.0	5.0	7.4
SEP									
22...	1220	422	129	122	7.0	13.0	17.5	5.2	8.8

DATE	COLI- FORM, FECAL, 0.7 UM-MF (COLS./ 100 ML)	STREP- TOCOCCI FECAL, KF AGAR (COLS. PER 100 ML)	HARD- NESS CON- DUCT- ANCE (MG/L AS CAC03)	HARD- NESS NONCAR- BONATE (MG/L AS CAC03)	CALCIUM DIS- SOLVED (MG/L AS CA)	MAGNE- SIUM, DIS- SOLVED (MG/L AS MG)	SODIUM, DIS- SOLVED (MG/L AS NA)	POTAS- SIUM, DIS- SOLVED (MG/L AS K)	ALKA- LITY LAB (MG/L AS CAC03)
OCT									
22...	K750	K40	21	1.0	7.0	.9	14	1.1	20
NOV									
25...	580	55	22	4.0	6.8	1.2	13	1.5	18
JAN									
28...	2700	100	19	.00	6.3	.8	17	.8	19
MAR									
24...	1100	110	24	5.0	8.1	1.0	17	1.3	19
MAY									
19...	K140	2900	22	.00	6.8	1.1	26	1.6	38
JUL									
28...	>3000	190	24	7.0	8.3	.9	20	1.1	17
SEP									
22...	60	400	15	.00	4.7	.8	19	1.2	31

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

01064140 PRESUMPCOT RIVER NEAR WEST FALMOUTH, ME--Continued

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DATE	SULFATE DIS- SOLVED (MG/L AS S04)	CHLO- RIDE, DIS- SOLVED (MG/L AS CL)	FLUO- RIDE, DIS- SOLVED (MG/L AS F)	SILICA, DIS- SOLVED (MG/L AS SiO2)	SOLIDS, RESIDUE AT 180 DEG. C DIS- SOLVED (MG/L)	SOLIDS, SUM OF CONSTI- TUENTS, DIS- SOLVED (MG/L)	SOLIDS, DIS- SOLVED (TONS PER AC-FT)	SOLIDS, DIS- SOLVED (TONS PER DAY)	NITRO- GEN, NO2+NO3 TOTAL (MG/L AS N)
OCT 22...	8.6	16	<.1	3.5	75	64	.10	102	.14
NOV 25...	12	19	.1	4.0	82	70	.11	226	.32
JAN 28...	7.6	15	<.1	4.2	76	64	.10	97.5	.19
MAR 24...	9.5	21	<.1	4.4	88	74	.12	113	.18
MAY 19...	15	17	<.1	4.0	98	95	.13	139	.11
JUL 28...	9.1	25	<.1	2.4	94	78	.13	126	.06
SEP 22...	14	9.6	<.1	2.8	77	71	.10	87.7	.12

DATE	NITRO- GEN, NO2+NO3 DIS- SOLVED (MG/L AS N)	NITRO- GEN, AMMONIA TOTAL (MG/L AS N)	NITRO- GEN, AMMONIA DIS- SOLVED (MG/L AS N)	NITRO- GEN,AM- MONIA + ORGANIC TOTAL (MG/L AS N)	NITRO- GEN,AM- MONIA + ORGANIC DIS- SOLVED (MG/L AS N)	NITRO- GEN, TOTAL (MG/L AS N)	NITRO- GEN DIS- SOLVED (MG/L AS N)	PHOS- PHORUS, TOTAL (MG/L AS P)	PHOS- PHORUS, DIS- SOLVED (MG/L AS P)
OCT 22...	.12	.020	.000	.70	.37	.84	.49	.040	.030
NOV 25...	.34	.040	.050	.41	.15	.73	.49	.120	.050
JAN 28...	.20	.080	.080	.41	.28	.60	.48	.060	.040
MAR 24...	.04	.070	.050	.61	.39	.79	.43	.090	.050
MAY 19...	.15	.040	.030	.60	.39	.71	.54	.040	<.010
JUL 28...	.07	<.010	<.010	.34	.30	.40	.37	.030	<.010
SEP 22...	.13	.040	.030	.32	.15	.44	.28	.060	.040

DATE	ARSENIC TOTAL (UG/L AS AS)	ARSENIC DIS- SOLVED (UG/L AS AS)	BARIUM, TOTAL RECOV- ERABLE (UG/L AS BA)	BARIUM, DIS- SOLVED (UG/L AS BA)	CADMIUM TOTAL RECOV- ERABLE (UG/L AS CD)	CADMIUM DIS- SOLVED (UG/L AS CD)	CHRO- MIUM, TOTAL RECOV- ERABLE (UG/L AS CR)	CHRO- MIUM, DIS- SOLVED (UG/L AS CR)	COBALT, TOTAL RECOV- ERABLE (UG/L AS CO)	COBALT, DIS- SOLVED (UG/L AS CO)
NOV 25...	1	1	100	8	0	3	10	10	0	0
MAR 24...	0	0	100	100	1	0	20	10	0	1
MAY 19...	0	0	<50	20	1	<1	<10	<10	1	0
JUL 28...	1	1	<50	20	<1	2	30	10	1	2

01064140 PRESUMPCOT RIVER NEAR WEST FALMOUTH, ME--Continued

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DATE	COPPER, TOTAL RECOV- ERABLE (UG/L AS CU)	COPPER, DIS- SOLVED (UG/L AS CU)	IRON, TOTAL RECOV- ERABLE (UG/L AS FE)	IRON, DIS- SOLVED (UG/L AS FE)	LEAD, TOTAL RECOV- ERABLE (UG/L AS PB)	LEAD, DIS- SOLVED (UG/L AS PB)	MANGA- NESE, TOTAL RECOV- ERABLE (UG/L AS MN)	MANGA- NESE, DIS- SOLVED (UG/L AS MN)	MERCURY TOTAL RECOV- ERABLE (UG/L AS HG)
NOV 25...	8	2	2500	210	18	2	80	50	.1
MAR 24...	3	8	270	70	10	0	80	50	.1
MAY 19...	6	5	550	270	7	2	30	30	<.1
JUL 28...	6	2	420	110	13	3	50	40	<.1

DATE	MERCURY DIS- SOLVED (UG/L AS HG)	NICKEL, TOTAL RECOV- ERABLE (UG/L AS NI)	NICKEL, DIS- SOLVED (UG/L AS NI)	SELE- NIUM, TOTAL (UG/L AS SE)	SELE- NIUM, DIS- SOLVED (UG/L AS SE)	SILVER, TOTAL RECOV- ERABLE (UG/L AS AG)	SILVER, DIS- SOLVED (UG/L AS AG)	ZINC, TOTAL RECOV- ERABLE (UG/L AS ZN)	ZINC, DIS- SOLVED (UG/L AS ZN)
NOV 25...	<.1	7	0	0	0	0	0	20	2
MAR 24...	.1	14	0	0	0	0	0	20	20
MAY 19...	<.1	15	10	0	0	0	0	20	6
JUL 28...	<.1	7	4	<1	<1	<1	<1	50	4

DATE	CARBON, ORGANIC TOTAL (MG/L AS C)	CARBON, ORGANIC SUS- PENDED TOTAL (MG/L AS C)	PHYTO- PLANK- TON, TOTAL (CELLS PER ML)	SEDI- MENT, SUS- PENDED (MG/L)	SEDI- MENT, DIS- CHARGE, SUS- PENDED (T/DAY)	SED. SUSP. SIEVE DIAM. % FINER THAN .062 MM
OCT 22...	6.1	--	--	29	39	90
NOV 25...	--	--	6300	57	157	95
JAN 28...	7.8	--	--	6	7.7	100
MAR 24...	--	1.1	100	9	12	--
MAY 19...	--	--	10000	17	24	65
JUL 28...	--	.9	43	--	--	--
SEP 22...	7.6	--	710	12	14	46

01064140 PRESUMPCOT RIVER NEAR WEST FALMOUTH, ME--Continued

PHYTOPLANKTON ANALYSES, OCTOBER 1980 TO SEPTEMBER 1981

DATE TIME	NOV 25,80 1130	MAR 24,81 1200	MAY 19,81 0930	JUL 28,81 1100	SEP 22,81 1220					
TOTAL CELLS/ML	7000	100	10000	43	710					
DIVERSITY: DIVISION	0.4	0.5	0.3	0.0	0.1					
..CLASS	0.5	0.5	0.3	0.0	0.1					
...ORDER	1.3	1.3	1.2	0.0	0.1					
...FAMILY	1.5	1.3	1.3	0.9	0.1					
...GENUS	2.6	1.8	1.7	0.9	0.1					
ORGANISM	CELLS /ML	PER- CENT	CELLS /ML	PER- CENT	CELLS /ML	PER- CENT	CELLS /ML	PER- CENT	CELLS /ML	PER- CENT
CHLOROPHYTA (GREEN ALGAE)										
..CHLOROPHYCEAE										
...CHLOROCOCCALES										
...OOCYSTACEAE										
....KIRCHNERIELLA	--	-	--	-	210	2	--	-	--	-
...SCENEDESMACEAE										
....SCENEDESMUS	82	1	--	-	*	0	--	-	--	-
...VOLVOCALES										
...CHLAMYDOMONADACEAE										
....CHLAMYDOMONAS	*	0	13	13	*	0	--	-	--	-
CHRYSTOPHYTA										
..BACILLARIOPHYCEAE										
..CENTRALES										
...COSCINODISCACEAE										
....CYCLOTELLA	--	-	26#	25	*	0	--	-	--	-
...PENNALES										
....ACHNANTHACEAE										
....ACHNANTHES	55	1	--	-	110	1	--	-	--	-
....COCCONEIS	--	-	--	-	*	0	--	-	--	-
...CYMBELLACEAE										
....CYMBELLA	*	0	--	-	*	0	--	-	--	-
...EUNOTIACEAE										
....EUNOTIA	*	0	--	-	*	0	--	-	--	-
...FRAGILARIACEAE										
....ASTERIONELLA	--	-	13	13	--	-	--	-	--	-
....FRAGILARIA	--	-	52#	50	--	-	--	-	--	-
....SYNEDRA	--	-	--	-	*	0	--	-	--	-
...GOMPHONEMATACEAE										
....GOMPHONEMA	41	1	--	-	--	-	--	-	--	-
...MERIDIONACEAE										
....MERIDION	55	1	--	-	--	-	--	-	--	-
...NAVICULACEAE										
....CALONEIS	*	0	--	-	--	-	--	-	--	-
....GYROSIGMA	--	-	--	-	--	-	--	-	14	2
....NAVICULA	82	1	--	-	*	0	29#	67	--	-
....PINNULARIA	*	0	--	-	--	-	--	-	--	-
...NITZSCHACEAE										
....NITZSCHIA	55	1	--	-	--	-	14#	33	--	-
..CHRYSTOPHYCEAE										
...CHRYSOMONADALES										
...CHROMULINACEAE										
....CHRYSOCOCCUS	*	0	--	-	--	-	--	-	--	-
..XANTHOPHYCEAE										
...HETEROCOCCALES										
...CHLOROTHECIACEAE										
....OPHIOCYTIUM	*	0	--	-	--	-	--	-	--	-
CYANOPHYTA (BLUE-GREEN ALGAE)										
..CYANOPHYCEAE										
...CHROOCOCCALES										
...CHROOCOCCACEAE										
....AGMENELLUM	490	7	--	-	220	2	--	-	--	-
....ANACYSTIS	2700#	39	--	-	1700#	16	--	-	--	-
...GOMPHOSPHAERIA	1500#	22	--	-	1500	14	--	-	690#	98
...HORMOGONALES										
...OSCILLATORIACEAE										
....LYNGBYA	690	10	--	-	--	-	--	-	--	-
....OSCILLATORIA	970	14	--	-	6600#	63	--	-	--	-
...RIVULARIACEAE										
....RAPHIDIOPSIS	110	2	--	-	--	-	--	-	--	-
EUGLENOPHYTA (EUGLENOIDS)										
..EUGLENOPHYCEAE										
...EUGLENALES										
...EUGLENACEAE										
....TRACHELOMONAS	*	0	--	-	*	0	--	-	--	-

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

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

01064140 PRESUMPCOT RIVER NEAR WEST FALMOUTH, ME--Continued

SPECIFIC CONDUCTANCE (MICROMHOS/CM AT 25 DEG. C), WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
OCTOBER			NOVEMBER			DECEMBER			JANUARY			
1	141	96	116	---	---	---	120	108	114	140	114	122
2	138	112	123	---	---	---	140	118	126	136	108	120
3	142	115	127	---	---	---	142	105	132	144	102	123
4	136	94	111	---	---	---	---	---	---	156	120	132
5	133	98	114	129	103	118	---	---	---	132	94	117
6	173	123	138	121	93	109	129	104	121	148	121	131
7	150	124	132	134	114	120	160	110	132	151	97	118
8	154	122	134	166	140	155	166	132	143	249	118	147
9	144	120	129	201	154	174	144	125	134	155	118	129
10	146	113	126	160	137	148	149	119	137	155	121	131
11	134	110	120	---	---	---	145	115	130	156	117	133
12	135	114	121	125	120	123	162	107	131	159	102	128
13	140	109	123	122	113	118	151	129	138	149	97	117
14	150	116	128	126	113	120	158	106	139	144	109	124
15	139	110	125	149	118	128	125	106	115	142	93	115
16	137	106	119	151	116	127	152	127	141	125	106	113
17	130	106	118	140	110	124	181	137	159	138	105	119
18	141	89	129	---	---	---	158	130	143	125	100	113
19	109	74	99	143	122	97	147	118	130	130	103	118
20	116	96	108	---	---	---	138	127	131	163	110	130
21	124	107	116	---	---	---	138	115	128	129	101	114
22	125	115	121	146	133	138	130	115	120	137	98	117
23	122	95	113	146	136	140	126	105	114	122	98	114
24	123	91	114	160	130	139	136	111	119	129	102	118
25	147	119	129	144	94	126	130	106	112	129	91	112
26	146	86	110	125	109	116	129	101	115	132	108	118
27	123	102	114	145	125	134	132	104	116	126	111	117
28	132	120	127	153	133	141	133	106	115	142	109	134
29	---	---	---	121	82	89	138	110	122	139	97	121
30	---	---	---	113	89	100	166	121	134	121	96	106
31	---	---	---	---	---	---	154	115	130	122	98	108
MONTH	173	74	121	201	82	127	181	101	128	249	91	121

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
FEBRUARY			MARCH			APRIL			MAY			
1	137	95	112	105	94	100	139	120	131	105	82	93
2	193	125	153	103	87	98	156	92	120	154	100	121
3	133	74	101	88	67	76	111	90	100	154	118	139
4	130	106	112	83	66	74	137	107	124	151	119	135
5	117	107	113	90	72	83	136	114	124	142	117	128
6	131	107	119	109	88	100	141	88	121	146	117	134
7	134	122	127	108	101	105	121	74	89	150	132	139
8	128	114	120	133	94	122	130	99	119	144	108	121
9	163	112	130	136	109	122	164	126	140	139	113	126
10	154	116	127	149	117	132	152	119	133	146	120	136
11	209	114	156	131	89	113	149	119	133	138	112	126
12	114	88	94	108	94	101	140	117	127	147	116	130
13	105	88	98	116	100	106	146	126	140	145	114	124
14	139	100	117	120	101	108	167	118	138	132	98	120
15	115	100	110	132	102	118	135	116	127	163	118	141
16	111	105	108	129	97	114	151	123	134	180	101	148
17	220	109	127	139	99	116	147	94	124	159	125	143
18	156	102	133	152	105	133	99	80	92	167	119	143
19	129	83	108	152	107	125	165	101	124	173	133	146
20	149	97	118	144	104	123	166	134	144	135	107	123
21	---	---	---	151	97	125	165	123	141	163	128	146
22	---	---	---	136	102	114	140	111	123	177	139	157
23	---	---	---	156	114	130	171	117	139	177	130	159
24	---	---	---	146	104	122	142	95	119	135	118	126
25	105	60	82	151	116	137	137	92	119	148	124	135
26	95	60	77	148	113	132	151	122	134	155	138	148
27	94	71	82	156	116	134	152	123	135	155	122	141
28	137	78	95	135	98	116	152	93	135	162	119	143
29	---	---	---	134	106	118	98	81	93	168	156	162
30	---	---	---	128	108	117	100	78	89	160	126	148
31	---	---	---	140	99	120	---	---	---	151	78	121
MONTH	220	60	113	156	66	114	171	74	124	180	78	136

01064140 PRESUMPCOT RIVER NEAR WEST FALMOUTH, ME--Continued

SPECIFIC CONDUCTANCE (MICROMHOS/CM AT 25 DEG. C), WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
	JUNE			JULY			AUGUST			SEPTEMBER		
1	81	73	77	256	143	232	169	114	146	83	77	80
2	85	74	78	173	135	161	168	143	155	85	74	80
3	117	75	85	169	120	146	167	121	154	86	79	82
4	139	110	126	148	114	128	160	125	146	87	76	83
5	146	112	130	154	117	138	158	103	133	87	74	82
6	138	106	120	140	116	129	171	103	129	87	79	83
7	133	105	116	137	116	128	176	133	160	87	81	84
8	160	133	143	128	96	108	164	152	160	89	82	86
9	167	125	142	163	113	136	165	153	158	89	75	82
10	139	108	124	243	164	197	160	116	137	86	79	83
11	152	126	141	173	155	165	160	112	131	84	79	82
12	250	111	150	175	135	154	165	120	147	88	70	81
13	231	125	168	183	130	154	153	121	135	87	51	69
14	140	120	131	168	123	145	156	129	146	76	49	58
15	181	131	153	160	121	144	167	128	152	90	47	59
16	164	146	155	154	122	142	152	117	137	168	61	95
17	162	126	150	152	114	137	153	99	122	124	91	104
18	160	145	152	157	113	143	154	108	137	159	78	124
19	166	140	153	156	120	142	168	128	151	253	72	96
20	159	130	151	159	120	142	253	108	161	156	85	120
21	161	147	154	167	117	141	166	147	157	151	100	118
22	155	127	147	145	112	125	163	145	156	176	130	144
23	152	116	139	154	123	141	170	146	160	140	88	111
24	158	123	144	152	118	137	158	123	145	128	93	104
25	175	129	152	171	150	160	152	85	122	201	130	151
26	174	121	149	159	142	150	93	78	85	152	129	138
27	159	119	134	159	128	147	196	92	153	138	122	132
28	164	123	146	157	126	147	191	134	167	155	127	138
29	162	131	148	169	121	149	181	129	145	168	106	133
30	184	93	125	150	115	133	175	87	150	159	126	141
31	---	---	---	158	120	134	91	80	85	---	---	---
MONTH	250	73	136	256	96	146	253	78	143	253	47	101
YFAR	256	47	126									

PH (STANDARD UNITS), WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
	OCTOBER			NOVEMBER			DECEMBER			JANUARY		
1	7.4	7.2	7.3	---	---	---	6.7	6.6	6.7	7.0	7.0	7.0
2	7.4	7.2	7.3	---	---	---	6.8	6.7	6.8	7.0	6.9	7.0
3	7.4	7.2	7.3	---	---	---	6.9	6.8	6.8	7.2	7.0	7.1
4	7.3	7.0	7.1	---	---	---	---	---	---	7.2	7.0	7.1
5	7.4	7.1	7.2	7.2	7.1	7.2	---	---	---	7.0	6.9	7.0
6	7.6	7.3	7.5	7.2	7.0	7.2	7.1	7.0	7.0	7.1	7.0	7.0
7	7.5	7.4	7.4	7.2	7.0	7.0	7.1	7.0	7.0	7.2	6.8	7.0
8	7.5	7.2	7.4	7.8	7.2	7.5	7.1	7.1	7.1	7.3	7.1	7.2
9	7.4	7.2	7.3	7.5	7.2	7.4	7.1	7.0	7.0	7.2	7.1	7.1
10	7.6	7.3	7.5	7.2	7.1	7.2	7.1	7.0	7.1	7.3	7.1	7.2
11	7.4	7.2	7.3	---	---	---	7.2	7.1	7.1	7.3	7.2	7.2
12	7.3	7.2	7.2	7.1	7.0	7.0	7.2	6.9	7.1	7.3	7.0	7.2
13	7.6	7.1	7.2	7.0	7.0	7.0	7.1	7.0	7.1	7.2	7.0	7.1
14	7.4	7.2	7.2	7.0	6.9	7.0	7.1	7.0	7.1	7.1	7.0	7.1
15	7.3	7.1	7.2	7.1	7.0	7.0	7.1	7.0	7.0	7.2	7.0	7.1
16	7.3	7.1	7.2	7.1	7.0	7.0	7.2	7.1	7.1	7.1	7.0	7.1
17	7.2	7.0	7.1	7.1	7.0	7.1	7.2	7.1	7.2	7.1	6.9	7.0
18	7.0	6.8	7.0	---	---	---	7.2	6.9	7.1	7.0	6.9	7.0
19	7.1	6.7	7.0	7.2	7.1	7.1	7.0	6.9	6.9	7.0	6.9	6.9
20	7.1	7.0	7.0	---	---	---	6.9	6.9	6.9	7.1	7.0	7.0
21	7.2	7.1	7.1	---	---	---	7.0	6.9	6.9	7.1	6.9	7.0
22	7.2	7.2	7.2	7.1	7.1	7.1	7.0	6.9	6.9	7.2	7.0	7.1
23	7.2	7.0	7.1	7.1	7.1	7.1	6.9	6.9	6.9	7.2	7.0	7.1
24	7.2	7.0	7.1	7.1	7.0	7.0	7.1	6.9	7.0	7.1	7.0	7.1
25	7.2	7.0	7.2	7.0	6.7	6.8	7.1	7.1	7.1	7.1	6.9	7.0
26	7.1	6.9	7.0	6.9	6.8	6.8	7.3	7.1	7.2	7.1	7.0	7.0
27	7.0	6.9	6.9	7.0	6.9	6.9	7.3	7.1	7.2	7.1	6.9	7.0
28	7.0	6.9	7.0	7.1	6.8	7.0	7.1	7.0	7.0	7.3	7.0	7.1
29	---	---	---	6.8	6.5	6.6	7.1	7.0	7.0	7.3	7.2	7.2
30	---	---	---	6.7	6.5	6.6	7.1	7.0	7.0	7.3	7.1	7.2
31	---	---	---	---	---	---	7.1	6.9	7.0	7.2	7.1	7.2
MONTH	7.6	6.7	7.2	7.8	6.5	7.0	7.3	6.6	7.0	7.3	6.8	7.1

PH (STANDARD UNITS), WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
FEBRUARY				MARCH			APRIL			MAY		
1	7.2	7.1	7.1	7.1	7.0	7.0	7.0	6.8	6.9	6.9	6.8	6.8
2	7.2	6.9	7.1	7.1	7.0	7.1	6.9	6.6	6.7	6.9	6.6	6.8
3	7.1	6.9	7.0	7.0	6.9	7.0	6.8	6.5	6.7	6.9	6.8	6.9
4	7.2	7.1	7.1	7.0	6.9	7.0	7.0	6.7	6.9	7.0	6.7	6.9
5	7.1	7.0	7.1	7.1	6.9	7.0	6.8	6.7	6.7	6.8	6.6	6.7
6	7.1	7.0	7.0	7.2	7.0	7.1	6.7	6.6	6.7	6.8	6.7	6.7
7	7.1	6.9	7.0	7.0	6.9	7.0	6.7	6.5	6.6	6.8	6.7	6.8
8	7.0	7.0	7.0	6.9	6.9	6.9	6.8	6.6	6.7	6.8	6.7	6.8
9	7.1	6.9	7.0	7.0	6.8	6.9	6.9	6.6	6.8	6.8	6.7	6.8
10	7.1	6.9	7.0	7.2	7.0	7.1	6.9	6.7	6.8	6.8	6.7	6.7
11	7.0	6.9	7.0	7.1	6.8	6.9	6.9	6.7	6.8	6.8	6.7	6.7
12	6.9	6.8	6.8	6.9	6.8	6.9	6.9	6.8	6.9	6.9	6.7	6.8
13	6.9	6.7	6.8	6.9	6.8	6.8	7.1	6.9	6.9	7.0	6.9	6.9
14	7.1	6.8	6.9	7.2	6.8	6.9	7.1	7.0	7.1	7.0	6.8	6.9
15	7.0	6.9	7.0	7.3	7.1	7.2	7.2	7.0	7.1	7.1	6.9	7.0
16	7.0	6.9	7.0	7.0	6.9	7.0	7.3	7.0	7.1	7.8	6.8	7.2
17	7.2	6.9	7.0	7.0	6.9	6.9	7.1	6.8	7.0	7.6	7.2	7.4
18	7.2	7.0	7.1	7.1	6.8	7.0	7.0	6.7	6.8	7.4	7.2	7.3
19	7.1	6.8	7.0	7.1	6.9	7.0	7.2	7.0	7.2	7.3	7.0	7.2
20	7.1	6.8	6.9	7.0	6.8	6.9	7.2	7.0	7.1	7.0	6.9	6.9
21	---	---	---	6.9	6.7	6.8	7.1	7.0	7.0	7.0	6.9	7.0
22	---	---	---	6.9	6.7	6.8	7.2	7.0	7.1	7.1	6.9	7.0
23	---	---	---	6.9	6.7	6.8	7.3	7.0	7.1	7.1	6.9	7.0
24	---	---	---	6.8	6.8	6.8	7.2	7.0	7.1	7.0	6.9	6.9
25	6.8	6.6	6.7	6.9	6.8	6.9	7.3	6.9	7.2	6.9	6.8	6.9
26	6.7	6.6	6.7	6.9	6.6	6.8	7.3	7.1	7.2	6.9	6.8	6.9
27	6.9	6.7	6.8	6.9	6.7	6.8	7.2	7.0	7.1	6.9	6.7	6.8
28	7.2	6.8	6.9	7.0	6.7	6.8	7.2	6.9	7.0	6.9	6.8	6.8
29	---	---	---	7.0	6.8	6.9	7.0	6.9	6.9	6.9	6.8	6.9
30	---	---	---	6.8	6.7	6.7	7.0	6.7	6.8	6.9	6.8	6.9
31	---	---	---	6.9	6.7	6.8	---	---	---	7.0	6.7	6.9
MONTH	7.2	6.6	7.0	7.3	6.6	6.9	7.3	6.5	6.9	7.8	6.6	6.9

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

01064140 PRESUMPCOT RIVER NEAR WEST FALMOUTH, ME--Continued

TEMPERATURE, WATER (DEG. C), WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

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

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

01064140 PRESUMPCOT RIVER NEAR WEST FALMOUTH, ME--Continued

TEMPERATURE, WATER (DEG. C), WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
	JUNE			JULY			AUGUST			SEPTEMBER		
1	20.0	18.5	19.0	26.5	24.0	25.0	24.5	22.0	23.5	22.5	21.5	22.0
2	19.5	18.5	19.0	25.5	24.0	24.5	26.0	23.5	24.5	21.5	21.5	21.5
3	19.5	17.5	18.5	26.0	24.5	25.0	26.0	24.0	25.0	21.5	21.0	21.0
4	20.5	18.5	19.5	25.5	24.5	25.0	26.5	24.5	25.5	22.0	20.5	21.0
5	22.0	19.0	20.5	25.5	24.0	24.5	25.5	24.0	24.5	22.0	20.5	21.0
6	21.0	20.0	20.5	25.5	24.0	24.5	24.5	24.0	24.5	21.5	20.5	21.0
7	22.0	20.0	21.0	26.5	24.5	25.0	24.5	23.5	24.0	21.5	20.5	21.0
8	22.0	19.5	20.5	27.0	24.5	26.0	24.0	23.5	24.0	22.0	20.5	21.5
9	21.0	20.0	20.5	27.5	25.5	26.5	24.0	23.0	23.5	21.5	20.5	21.0
10	22.0	20.0	21.0	28.5	26.5	27.5	24.0	22.5	23.5	21.0	20.0	20.5
11	21.5	20.0	21.0	28.5	26.5	27.5	24.5	23.5	24.0	21.0	20.0	20.5
12	22.5	20.5	21.5	28.5	26.0	27.0	25.5	23.5	24.5	21.0	20.0	20.5
13	23.5	21.0	22.5	27.0	25.5	26.5	25.0	24.0	24.5	21.0	20.0	20.5
14	23.5	21.5	22.0	26.0	25.5	26.0	25.0	23.5	24.0	21.5	19.5	20.5
15	23.0	21.5	22.5	26.5	24.5	25.5	23.5	22.5	22.5	21.0	20.0	20.5
16	24.0	22.0	23.0	26.5	24.5	25.5	23.5	22.5	23.0	20.5	20.0	20.5
17	24.0	22.5	23.5	27.0	24.5	25.5	23.0	22.0	22.5	20.0	19.0	19.5
18	25.5	23.0	24.0	26.0	25.0	25.5	23.0	21.5	22.0	20.0	19.5	19.5
19	26.0	23.0	24.0	25.5	25.0	25.5	23.0	21.0	22.0	19.5	18.5	19.0
20	24.5	23.5	24.0	25.0	24.0	24.5	23.5	21.0	22.0	18.5	18.0	18.5
21	24.5	23.0	24.0	25.0	23.5	24.5	24.0	21.5	22.5	18.5	17.5	18.0
22	23.5	22.0	23.0	25.0	24.0	24.5	24.0	22.0	23.0	18.0	17.5	18.0
23	24.0	22.0	23.0	26.0	23.5	24.5	24.5	22.5	23.5	17.5	14.5	16.0
24	24.0	22.0	22.5	25.5	23.5	24.5	24.0	22.5	23.0	16.0	15.5	15.5
25	22.5	21.5	22.0	25.5	23.5	24.5	23.0	22.0	22.5	17.0	15.0	15.5
26	23.5	21.5	22.5	25.5	23.5	24.5	22.5	21.0	22.0	16.5	15.0	15.5
27	24.0	21.5	22.5	26.0	24.0	25.0	23.0	20.5	22.0	17.0	15.5	16.5
28	24.0	21.5	23.0	25.0	24.0	24.5	23.5	21.5	22.5	17.0	16.5	16.5
29	25.0	22.5	23.5	24.5	22.5	23.0	23.5	21.5	22.5	16.5	15.5	15.5
30	24.5	22.5	23.5	23.5	22.5	22.5	23.5	21.5	22.0	15.5	14.5	15.0
31	---	---	---	23.5	21.5	22.5	22.5	21.5	22.0	---	---	---
MONTH	26.0	17.5	22.0	28.5	21.5	25.0	26.5	20.5	23.5	22.5	14.5	19.0
YEAR	28.5	.0	12.0									

OXYGEN, DISSOLVED (DO), MG/L, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
OCTOBER			NOVEMBER			DECEMBER			JANUARY			
1	9.8	9.1	9.4	---	---	---	11.6	10.6	11.0	12.9	12.8	12.8
2	9.3	9.0	9.1	---	---	---	11.2	10.6	11.0	12.8	12.6	12.7
3	9.3	8.8	9.0	---	---	---	11.0	10.1	10.5	12.7	12.6	12.7
4	9.4	9.0	9.2	---	---	---	---	---	---	12.9	12.5	12.7
5	9.6	9.3	9.4	11.0	10.7	10.9	---	---	---	12.9	11.6	12.1
6	9.5	9.2	9.3	11.1	10.8	10.9	12.9	12.7	12.8	11.6	11.3	11.5
7	9.5	9.1	9.3	11.1	10.6	10.9	12.9	12.4	12.7	12.9	11.3	12.3
8	9.6	9.1	9.3	10.6	10.5	10.5	12.7	12.2	12.5	13.1	12.6	12.8
9	9.6	9.1	9.4	10.7	10.5	10.6	12.5	12.2	12.4	13.3	13.0	13.1
10	10.2	9.3	9.5	10.8	10.5	10.6	12.7	12.6	12.6	13.3	13.1	13.2
11	9.6	9.3	9.5	---	---	---	13.2	12.7	12.8	13.1	12.9	13.0
12	9.8	9.4	9.6	11.7	11.3	11.6	13.4	12.9	13.2	13.4	13.0	13.2
13	9.8	9.5	9.7	12.0	11.4	11.8	13.1	13.0	13.1	13.2	13.0	13.1
14	9.9	9.4	9.7	11.9	11.4	11.6	13.4	13.0	13.2	13.2	13.0	13.1
15	10.2	9.6	9.9	11.9	11.6	11.8	14.0	13.1	13.4	13.2	13.0	13.1
16	10.2	9.3	9.8	12.1	11.5	11.9	13.3	13.1	13.2	13.2	12.9	13.0
17	10.3	9.9	10.1	12.4	12.0	12.2	13.3	12.9	13.1	13.0	12.8	12.9
18	10.0	9.3	9.6	---	---	---	13.1	12.9	13.0	12.9	12.8	12.9
19	9.7	9.4	9.6	12.7	12.4	12.6	13.0	12.7	12.9	12.9	12.7	12.8
20	9.6	9.2	9.4	---	---	---	13.1	12.8	12.9	13.4	12.8	13.1
21	9.7	9.4	9.6	---	---	---	13.3	12.9	13.0	13.5	13.3	13.4
22	10.0	9.5	9.8	12.6	12.2	12.5	13.2	13.1	13.1	13.4	13.3	13.4
23	10.4	10.0	10.2	12.7	12.2	12.5	13.1	12.8	12.9	13.4	13.2	13.3
24	10.6	10.2	10.4	12.7	12.4	12.6	12.9	12.7	12.8	13.4	13.2	13.3
25	10.7	10.1	10.3	12.5	11.7	12.2	12.8	12.6	12.7	13.4	13.2	13.3
26	10.7	10.1	10.4	12.6	12.2	12.4	13.4	12.7	13.0	13.3	13.1	13.2
27	10.8	10.6	10.7	12.4	11.9	12.2	13.1	13.0	13.1	13.2	12.9	13.1
28	10.7	10.5	10.6	12.1	11.0	11.8	13.1	12.9	13.0	13.2	13.0	13.1
29	---	---	---	12.5	11.9	12.2	13.0	12.8	12.9	13.2	13.0	13.1
30	---	---	---	12.1	10.7	11.7	12.8	12.7	12.8	13.3	13.0	13.1
31	---	---	---	---	---	---	12.8	12.7	12.7	13.4	13.2	13.3
MONTH	10.8	8.8	9.7	12.7	10.5	11.7	14.0	10.1	12.7	13.5	11.3	13.0

OXYGEN, DISSOLVED (DO), MG/L, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
FEBRUARY				MARCH			APRIL			MAY		
1	13.2	13.1	13.2	12.5	12.2	12.4	10.5	10.2	10.3	10.1	9.7	10.0
2	13.0	12.6	12.8	12.2	12.1	12.2	10.8	10.2	10.5	10.0	9.6	9.8
3	13.2	12.5	12.9	12.5	12.2	12.4	11.2	10.8	11.0	10.0	9.5	9.7
4	12.8	12.2	12.4	12.5	12.3	12.4	10.8	10.4	10.7	9.8	9.4	9.6
5	12.4	12.2	12.3	12.3	12.1	12.2	10.5	10.1	10.4	9.7	9.2	9.4
6	12.7	12.3	12.5	12.1	12.0	12.0	10.5	10.0	10.2	9.4	9.0	9.3
7	12.7	12.5	12.6	12.1	12.0	12.1	10.9	10.3	10.6	9.9	8.9	9.4
8	12.4	11.8	12.2	12.2	12.0	12.1	10.5	9.9	10.3	10.2	9.7	9.9
9	12.1	11.9	12.0	12.2	12.0	12.2	9.9	9.1	9.7	10.3	9.9	10.0
10	12.3	12.1	12.2	12.2	11.9	12.1	9.7	9.1	9.4	10.1	9.8	9.9
11	12.1	11.7	11.9	12.0	11.9	12.0	9.5	9.1	9.4	10.1	9.7	9.9
12	13.3	11.9	12.7	12.0	11.8	11.9	9.8	9.4	9.6	9.9	9.6	9.7
13	12.8	12.7	12.7	11.9	11.7	11.8	9.8	9.5	9.6	9.9	9.7	9.8
14	12.6	12.3	12.5	11.7	11.5	11.6	9.7	9.5	9.7	10.1	9.8	9.9
15	12.5	12.2	12.4	11.8	11.5	11.6	10.0	9.5	9.7	9.9	9.6	9.8
16	12.2	11.9	12.0	11.7	11.5	11.6	10.7	9.7	10.3	9.7	9.4	9.6
17	11.9	11.3	11.7	11.7	11.4	11.5	10.6	10.4	10.4	9.9	9.5	9.7
18	11.8	11.5	11.7	12.0	11.5	11.7	10.5	10.0	10.3	10.0	9.5	9.8
19	11.8	11.5	11.7	12.1	11.7	11.9	10.0	9.6	9.9	9.9	9.3	9.6
20	11.7	11.5	11.6	12.1	11.8	11.9	9.5	9.3	9.5	10.0	9.5	9.7
21	---	---	---	12.1	11.8	12.0	9.9	9.1	9.6	9.7	9.3	9.5
22	---	---	---	12.4	12.0	12.2	10.5	9.6	10.0	9.5	8.9	9.3
23	---	---	---	12.2	11.9	12.1	10.6	10.2	10.3	9.6	9.0	9.3
24	---	---	---	11.9	11.4	11.7	10.4	10.1	10.2	9.6	9.2	9.4
25	---	---	---	11.7	11.2	11.4	10.4	10.2	10.3	9.2	8.9	9.1
26	---	---	---	11.6	11.3	11.4	10.5	10.1	10.3	8.9	8.6	8.7
27	---	---	---	11.4	11.2	11.3	10.4	9.9	10.2	8.7	8.5	8.6
28	12.6	12.3	12.5	11.7	10.4	11.4	10.1	9.8	9.9	8.6	8.3	8.5
29	---	---	---	11.5	11.1	11.3	10.2	9.9	10.1	8.5	7.6	8.3
30	---	---	---	11.2	10.5	10.9	10.4	9.9	10.2	8.7	8.4	8.5
31	---	---	---	10.5	10.1	10.4	---	---	---	9.2	8.4	8.7
MONTH	13.3	11.3	12.3	12.5	10.1	11.8	11.2	9.1	10.1	10.3	7.6	9.4
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
JUNE				JULY			AUGUST			SEPTEMBER		
1	9.6	9.2	9.4	7.2	5.9	6.4	7.3	6.7	7.1	9.1	8.5	8.8
2	9.6	9.4	9.5	7.3	6.3	6.7	6.8	6.5	6.6	9.1	8.9	9.0
3	9.8	9.1	9.5	6.7	6.2	6.4	7.7	6.3	7.2	9.2	9.0	9.1
4	9.2	8.7	9.0	6.8	6.3	6.6	7.6	7.2	7.4	9.2	8.8	9.0
5	8.9	8.3	8.6	6.8	6.3	6.6	7.5	7.1	7.3	9.1	8.8	8.9
6	8.6	8.4	8.5	7.7	6.6	7.3	7.6	7.3	7.4	9.0	8.8	8.9
7	8.6	8.3	8.4	7.7	7.3	7.5	7.5	7.2	7.3	9.0	8.8	8.9
8	8.6	8.2	8.4	7.8	7.2	7.5	7.4	7.1	7.3	8.9	8.6	8.8
9	8.5	7.9	8.3	7.2	6.5	7.0	7.4	7.2	7.3	8.8	8.5	8.6
10	8.7	8.3	8.5	6.4	5.6	6.1	7.8	7.4	7.6	8.9	8.6	8.7
11	8.5	8.2	8.4	6.5	6.1	6.3	7.9	7.3	7.6	9.1	8.7	8.9
12	8.6	7.5	8.2	6.9	6.3	6.6	7.8	7.2	7.5	9.1	8.8	9.0
13	8.3	7.5	7.9	6.9	6.2	6.5	7.7	7.3	7.4	9.1	8.7	8.9
14	8.5	8.2	8.3	6.9	6.0	6.4	7.6	7.2	7.4	9.0	8.4	8.8
15	8.5	8.1	8.2	7.2	6.1	6.8	7.7	7.3	7.5	8.9	8.4	8.7
16	8.4	7.6	8.1	7.2	6.8	7.0	7.6	7.1	7.4	8.6	8.1	8.3
17	8.0	7.5	7.8	7.6	6.9	7.2	7.8	7.4	7.6	8.4	8.0	8.2
18	8.3	8.0	8.1	7.6	7.0	7.3	8.5	7.4	8.1	8.4	7.8	8.1
19	8.3	6.6	7.8	7.4	7.2	7.3	8.4	8.1	8.2	8.6	8.0	8.2
20	6.7	6.1	6.5	7.6	6.9	7.3	8.4	7.4	8.1	8.7	8.6	8.6
21	6.9	6.7	6.8	7.5	7.3	7.4	8.1	7.9	8.0	8.9	8.5	8.7
22	7.5	6.7	7.1	7.6	7.2	7.4	8.1	7.8	7.9	8.7	8.3	8.4
23	7.7	6.9	7.3	7.5	7.2	7.4	7.8	7.5	7.7	9.5	8.2	9.0
24	7.5	6.9	7.2	7.7	7.4	7.5	7.9	7.4	7.7	9.5	9.1	9.4
25	7.9	7.5	7.7	7.5	7.1	7.3	8.7	7.7	8.1	9.1	8.3	8.8
26	7.8	7.6	7.7	7.6	7.3	7.4	8.9	8.6	8.7	9.3	8.8	9.1
27	7.9	7.5	7.7	7.5	7.0	7.2	8.6	7.7	8.0	9.1	8.6	9.0
28	7.9	7.5	7.7	7.4	7.0	7.2	8.3	7.5	7.9	8.7	8.4	8.6
29	7.9	7.4	7.6	7.5	7.0	7.2	8.2	7.8	8.0	9.4	8.6	9.1
30	8.1	7.0	7.7	7.7	7.2	7.5	8.6	7.6	8.0	9.6	9.2	9.4
31	---	---	---	7.8	7.4	7.6	8.7	8.4	8.6	---	---	---
MONTH	9.8	6.1	8.1	7.8	5.6	7.0	8.9	6.3	7.7	9.6	7.8	8.8
YEAR	14.0	5.6	10.1									

01064500 SACO RIVER NEAR CONWAY, NH

LOCATION.--Lat 43°59'27", long 71°05'29", Carroll County, Hydrologic Unit 01060002, on left bank at Odell Falls 1.8 mi (2.9 km) downstream from Swift River and Conway.

DRAINAGE AREA.--385 mi² (997 km²), revised.

PERIOD OF RECORD.--August 1903 to December 1909, January 1910 to June 1912 (gage heights only), February 1929 to current year. Monthly discharge only for some periods, published in WSP 1301. Prior to 1912, published as "at Center Conway."

REVISED RECORDS.--WSP 756: Drainage area. WSP 1301: 1908-09.

GAGE.--Water-stage recorder. Datum of gage is 418.19 ft (127.464 m) National Geodetic Vertical Datum of 1929. Aug. 26, 1903, to June 30, 1912, nonrecording gage at site 0.8 mi (1.3 km) downstream at different datum.

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

AVERAGE DISCHARGE.--58 years (water years 1904-09, 1930-81), 930 ft³/s (26.34 m³/s), 32.80 in/yr (833 mm/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 43,900 ft³/s (1,240 m³/s) Mar. 27, 1953, gage height, 17.20 ft (5.243 m), from rating curve extended above 23,000 ft³/s (650 m³/s) on basis of slope-area measurement of peak flow; maximum gage height, 19.03 ft (5.800 m) Mar. 7, 1979, ice jam; minimum, 40 ft³/s (1.13 m³/s) Mar. 16, 1932, gage height, 1.61 ft (0.491 m).

EXTREMES FOR CURRENT YEAR.--Peak discharges above base of 8,700 ft³/s (250 m³/s) and maximum (*):

Date	Time	Discharge (ft ³ /s) (m ³ /s)	Gage height (ft) (m)	Date	Time	Discharge (ft ³ /s) (m ³ /s)	Gage height (ft) (m)
Feb. 2	2230	11800 334	8.99 2.740	Feb. 24	2300	11800 334	8.98 2.737
Feb. 12	0630	13400 379	9.46 2.883	Aug. 16	0900	10000 283	8.41 2.563
Feb. 21	2000	* 16000 453	10.21 3.112				

Minimum discharge not determined, minimum daily, 172 ft³/s (4.87 m³/s) Oct. 3.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	185	466	1120	310	250	2180	2130	1310	883	322	506	395
2	183	428	929	310	1970	1770	2320	1400	691	305	414	396
3	172	383	830	300	4870	1510	1960	1300	619	290	371	380
4	176	366	980	300	2080	1200	1940	1180	604	278	398	380
5	264	366	929	300	1670	1170	2700	1190	650	376	674	370
6	528	411	807	300	1640	1100	3540	1170	568	913	1720	350
7	349	401	785	295	1450	1020	1950	1070	552	876	1010	340
8	285	366	702	290	1370	928	1480	914	514	542	683	340
9	247	423	929	290	1240	861	1480	852	552	420	578	500
10	215	383	763	285	1150	811	1850	814	761	370	1230	800
11	201	375	632	280	1260	757	1520	867	605	328	941	620
12	237	328	492	275	8910	707	1750	2070	516	294	923	530
13	237	314	566	270	2430	677	1260	4670	487	289	724	450
14	218	303	481	265	1680	651	1210	2300	462	341	605	410
15	201	299	394	260	1370	546	1550	1690	424	323	543	370
16	187	281	392	250	1160	638	1210	2840	408	290	6070	420
17	190	240	471	245	1050	513	1110	6050	387	262	2940	400
18	195	288	401	240	1210	502	1330	2960	355	246	2080	380
19	366	274	482	240	1420	515	1610	2120	328	236	1360	400
20	303	250	370	235	2310	512	1210	1700	338	240	1070	380
21	247	257	370	230	12800	481	1070	1450	828	776	904	380
22	224	260	390	230	7270	459	938	1280	643	690	774	529
23	212	243	430	225	3990	454	890	1180	978	451	690	3580
24	207	257	450	220	5560	462	1340	1040	641	354	626	3540
25	3550	1570	420	220	7370	450	1360	938	503	304	636	2380
26	1910	1190	390	215	4590	430	1200	864	572	275	580	1600
27	1000	749	370	215	3960	477	1100	800	516	366	522	1300
28	700	695	350	215	2730	487	1050	774	438	433	486	1100
29	600	2730	340	215	---	568	1360	723	382	841	446	1600
30	572	1620	330	210	---	2070	1610	728	346	1040	419	1300
31	512	---	320	210	---	3310	---	813	---	706	400	---
TOTAL	14673	16516	17515	7945	88760	28216	47028	49057	16551	13777	31323	25920
MEAN	473	551	565	256	3170	910	1568	1582	552	444	1010	864
MAX	3550	2730	1120	310	12800	3310	3540	6050	978	1040	6070	3580
MIN	172	240	320	210	250	430	890	723	328	236	371	340
CFSM	1.23	1.43	1.47	.67	8.23	2.36	4.07	4.11	1.43	1.15	2.62	2.24
IN.	1.42	1.60	1.69	.77	8.58	2.73	4.54	4.74	1.60	1.33	3.03	2.50
CAL YR 1980	TOTAL	233115	MEAN	637	MAX	11400	MIN	104	CFSM	1.66	IN	22.52
WTR YR 1981	TOTAL	357281	MEAN	979	MAX	12800	MIN	172	CFSM	2.54	IN	34.52

01065000 OSSIPEE RIVER AT EFFINGHAM FALLS, NH

LOCATION.--Lat 43°47'44", long 71°03'36", Carroll County, Hydrologic Unit 01060002, on left bank 0.3 mi (0.5 km) upstream from bridge on State Highway 153 at Effingham Falls, 0.3 mi (0.5 km) downstream from outlet of Ossipee Lake, and 4 mi (6 km) northwest of Effingham.

DRAINAGE AREA.--330 mi² (855 km²).

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

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

REMARKS.--Records excellent except those for period of no gage-height record, Jan. 11 to Feb. 16. Flow regulated by Ossipee and Silver Lakes and Pine River Pond, combined capacity, 1,430,000,000 ft³ (40,500,000 m³). Several observations of water temperature and specific conductance were made during the year.

AVERAGE DISCHARGE.--39 years, 687 ft³/s (19.46 m³/s).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 11,700 ft³/s (331 m³/s) Mar. 28, 1953, gage height, 11.64 ft (3.548 m); minimum, about 5 ft³/s (0.14 m³/s) during part of several days Nov. 4-20, 1968 (caused by unusual regulation); minimum daily, 11 ft³/s (0.31 m³/s) Oct. 10, 1944.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 3,720 ft³/s (105 m³/s) Feb. 27, gage height, 7.93 ft (2.417 m); minimum, 151 ft³/s (4.28 m³/s) Oct. 23-25; minimum daily, 151 ft³/s (4.28 m³/s) Oct. 24.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	263	414	1280	231	231	3240	1000	617	446	316	878	206
2	261	413	1250	231	231	2870	1500	536	446	315	750	202
3	261	411	1220	231	231	2540	1500	542	376	242	408	195
4	261	410	1200	231	231	2210	1300	687	312	193	219	194
5	261	409	1100	231	231	1890	1300	784	313	197	218	194
6	261	406	999	231	231	1560	1290	657	315	197	219	193
7	261	405	979	231	231	1370	1260	549	319	219	220	192
8	260	403	848	231	231	1280	1180	551	322	253	220	190
9	258	400	773	231	231	1080	1110	549	323	294	221	192
10	257	399	774	231	350	958	934	549	324	1220	225	194
11	257	397	773	231	430	800	821	388	325	852	328	195
12	255	395	477	231	510	800	788	296	322	664	268	195
13	254	391	231	231	735	800	668	723	319	519	315	195
14	252	337	233	231	885	800	616	878	319	485	304	195
15	250	268	234	231	810	800	706	978	312	440	304	194
16	250	268	234	231	735	800	725	1160	308	320	688	195
17	249	227	234	231	735	580	748	1170	306	285	1120	194
18	248	173	234	231	738	580	763	1170	304	282	1110	247
19	247	174	291	231	736	580	767	1160	256	349	1050	286
20	189	174	378	231	839	580	763	1040	217	218	1030	284
21	153	174	377	231	1800	580	753	976	218	225	864	351
22	153	174	374	231	3310	580	723	787	220	229	643	392
23	153	174	373	231	3470	580	687	664	222	230	635	614
24	151	175	371	231	3170	580	691	661	223	231	501	757
25	154	309	371	231	3310	580	718	657	223	233	413	896
26	293	424	289	231	3540	580	744	530	251	232	291	994
27	525	433	231	231	3660	580	742	449	318	233	204	977
28	617	547	231	231	3540	580	727	447	319	235	205	873
29	616	1200	232	231	---	580	716	446	318	396	206	795
30	613	1280	231	231	---	640	740	446	317	498	206	783
31	510	---	231	231	---	800	---	446	---	711	206	---
TOTAL	8993	11764	17053	7161	35382	32778	26980	21493	9113	11313	14469	11564
MEAN	290	392	550	231	1264	1057	899	693	304	365	467	385
MAX	617	1280	1280	231	3660	3240	1500	1170	446	1220	1120	994
MIN	151	173	231	231	231	580	616	296	217	193	204	190
CAL YR 1980	TOTAL	171289	MEAN	468	MAX	3820	MIN	136				
WTR YR 1981	TOTAL	208063	MEAN	570	MAX	3660	MIN	151				

01065500 OSSIPEE RIVER AT CORNISH, ME

LOCATION.--Lat 43°48'26", long 70°47'55", Oxford County, Hydrologic Unit 01060002, on left bank 100 ft (30 m) downstream from highway bridge in Cornish and 1.3 mi (2.1 km) upstream from mouth.

DRAINAGE AREA.--452 mi² (1,171 km²), revised.

PERIOD OF RECORD.--July 1916 to current year.

REVISED RECORDS.--WSP 756: Drainage area. WSP 1301: 1927-29(M).

GAGE.--Water-stage recorder. Datum of gage is 276.1 ft (84.16 m) National Geodetic Vertical Datum of 1929. Prior to Aug. 21, 1929, nonrecording gage, and Aug. 21, 1929, to Sept. 30, 1942, water-stage recorder at same site and datum 1 ft (0.3 m) higher.

REMARKS.--Records good except those for winter period, which are fair. Flow partly regulated by mill at Kezar Falls and by Ossipee and Silver Lakes, and Pine River, Bickford, and Colcord Ponds, combined capacity 1,600,000,000 ft³ (45,300,000 m³). Several observations of water temperature and specific conductance were made during the year.

AVERAGE DISCHARGE.--65 years, 874 ft³/s (24.75 m³/s).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 17,200 ft³/s (487 m³/s) Mar. 21, 1936, gage height, 16.32 ft (4.974 m) present datum, from rating curve extended above 7,500 ft³/s (210 m³/s); minimum daily, 65 ft³/s (1.84 m³/s) Sept. 8, 1929.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 4,960 ft³/s (140 m³/s) Feb. 26, gage height, 7.57 ft (2.307 m); minimum daily, 199 ft³/s (5.64 m³/s) Oct. 24.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	305	506	1580	425	300	3910	1290	938	582	365	959	245
2	305	482	1510	420	340	3450	1950	741	540	362	858	245
3	305	478	1500	415	375	3030	1940	734	514	350	656	239
4	352	473	1450	410	355	2630	1690	775	410	252	302	233
5	347	470	1350	405	340	2310	1630	948	397	289	274	233
6	326	467	1190	400	320	2020	1620	895	390	401	276	229
7	315	461	1160	395	315	1770	1580	702	396	356	273	226
8	309	463	1090	390	335	1700	1490	682	383	324	266	225
9	303	461	933	385	340	1540	1410	674	406	328	271	264
10	301	463	919	380	350	1330	1290	668	416	892	312	259
11	306	460	913	375	450	1270	1070	627	396	1100	304	246
12	317	449	991	370	640	1230	1030	448	387	707	295	243
13	309	442	541	370	920	1180	945	733	380	658	347	242
14	301	437	467	365	1080	1150	840	1200	376	500	349	235
15	295	341	406	360	1020	1090	1040	1040	373	561	350	240
16	290	333	400	355	920	1040	1000	1450	368	389	534	237
17	295	336	400	350	900	966	1000	1450	366	359	1190	237
18	297	274	395	350	900	833	1030	1390	360	286	1200	235
19	314	251	390	345	910	786	1030	1350	350	403	1140	318
20	295	253	460	340	1270	769	999	1270	279	293	1110	331
21	217	256	550	340	2720	771	979	1140	381	332	1060	330
22	208	243	545	340	3600	768	934	1040	336	330	710	434
23	203	243	540	335	3840	768	884	789	378	297	668	637
24	199	246	535	330	3690	757	977	770	321	283	629	957
25	231	479	530	325	4240	744	1030	758	302	276	473	973
26	652	691	520	320	4640	731	1010	708	338	274	439	1120
27	721	603	450	315	4870	757	972	542	369	310	275	1090
28	767	620	445	315	4450	816	935	526	382	289	250	1040
29	733	1590	440	310	---	848	940	517	387	391	248	875
30	710	1710	435	305	---	902	1010	527	365	593	247	848
31	676	---	430	305	---	1030	---	558	---	603	245	---
TOTAL	11504	14981	23465	11145	44430	42896	35545	26590	11628	13153	16510	13266
MEAN	371	499	757	360	1587	1384	1185	858	388	424	533	442
MAX	767	1710	1580	425	4870	3910	1950	1450	582	1100	1200	1120
MIN	199	243	390	305	300	731	840	448	279	252	245	225
CAL YR 1980	TOTAL	227154	MEAN	621	MAX	4530	MIN	168				
WTR YR 1981	TOTAL	265113	MEAN	726	MAX	4870	MIN	199				

01066000 SACO RIVER AT CORNISH, ME
(National stream-quality accounting network station)

LOCATION.--Lat 43°48'35", long 70°46'53", Cumberland County, Hydrologic Unit 01060002, on left bank 300 ft (90 m) upstream from highway bridge at Cornish and 0.4 mi (0.6 km) downstream from Ossipee River.

DRAINAGE AREA.--1,293 mi² (3,349 km²), revised.

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--June 1916 to current year.

REVISED RECORDS.--WSP 1301: 1917-18(M), 1936(M).

GAGE.--Water-stage recorder. Datum of gage is 263.48 ft (80.309 m) National Geodetic Vertical Datum of 1929. Prior to Oct. 30, 1919, nonrecording gage on bridge downstream at different datum.

REMARKS.--Records good except those for winter period, which are fair. Flow partly regulated by powerplants above station and by Ossipee, Silver, Conway, and Kezar Lakes, and Moose, Hancock, Pine River, Bickford, and Colcord Ponds, combined capacity, 3,400,000,000 ft³ (96,000,000 m³).

AVERAGE DISCHARGE.--65 years, 2,700 ft³/s (76.46 m³/s).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 45,000 ft³/s (1,270 m³/s) Mar. 21, 22, 1936, gage height, 21.90 ft (6.675 m), from floodmarks; minimum daily, 244 ft³/s (6.91 m³/s) Oct. 7, 1964.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 17,500 ft³/s (496 m³/s) Feb. 27, gage height, 11.35 ft (3.459 m); minimum daily, 508 ft³/s (14.4 m³/s) Oct. 17.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	613	1930	3870	1170	700	14400	3390	3020	2120	1190	1960	1290
2	609	1710	3750	1150	780	12700	4590	2870	2080	1120	1840	1240
3	594	1610	3760	1130	930	11000	4780	2870	1940	1060	1600	1190
4	599	1520	3670	1110	1180	9520	4540	2880	1810	909	1160	1140
5	617	1370	3270	1100	1380	8200	4540	3020	1790	934	1090	1090
6	813	1330	2910	1080	1280	7040	4650	2940	1740	1110	1120	1040
7	814	1290	2860	1050	1030	6200	4740	2690	1710	1170	1420	986
8	713	1290	2830	1030	1030	5760	4820	2600	1610	1280	1540	947
9	674	1230	2730	1010	1050	5180	4700	2520	1520	1240	1530	1010
10	679	1220	2700	1000	1050	4700	4380	2400	1560	1730	1620	1080
11	611	1200	2690	980	1160	4320	4080	2210	1540	1900	1580	1250
12	620	1160	2290	970	1660	4080	3960	2080	1530	1450	1680	1230
13	611	1120	1830	950	2260	3780	3780	2430	1470	1360	1740	1220
14	603	1070	1920	930	2520	3600	3570	3450	1410	1210	1730	1180
15	594	934	1700	920	2670	3360	3710	3490	1350	1180	1670	1150
16	650	892	1440	900	2640	3140	3520	4060	1320	993	1830	1100
17	508	868	1230	890	2600	2850	3450	4180	1270	947	3300	1070
18	593	808	1210	880	2550	2570	3380	4410	1200	865	3860	1030
19	609	691	1180	870	2500	2420	3290	4740	1140	986	3920	1090
20	595	679	1200	850	3900	2320	3240	4950	1030	810	3940	1080
21	622	744	1400	830	5200	2290	3180	4840	1130	734	3810	1060
22	723	695	1390	820	7560	2230	3110	4560	1170	909	3320	1200
23	716	708	1370	800	11300	2180	2960	4060	1350	1060	3080	1700
24	709	774	1350	790	15200	2120	3010	3780	1390	1010	2740	2760
25	750	1210	1340	780	15900	2080	3040	3520	1410	967	2440	3390
26	1430	1870	1320	770	16700	2030	3050	3010	1450	922	2160	3630
27	2550	2010	1240	750	17300	2050	3040	2760	1440	947	1880	3680
28	2640	1980	1230	740	16100	2120	2980	2480	1410	896	1690	3650
29	2410	3630	1210	730	---	2180	2950	2360	1380	1070	1600	3420
30	2370	3460	1200	720	---	2290	3020	2250	1270	1410	1500	3410
31	2240	---	1180	710	---	2720	---	2220	---	1640	1410	---
TOTAL	29879	41003	63270	28410	140130	141430	111450	99650	44540	35009	65760	50313
MEAN	964	1367	2041	916	5005	4562	3715	3215	1485	1129	2121	1677
MAX	2640	3630	3870	1170	17300	14400	4820	4950	2120	1900	3940	3680
MIN	508	679	1180	710	700	2030	2950	2080	1030	734	1090	947
CAL YR 1980 TOTAL	634944			MEAN 1735	MAX 11700	MIN 311						
WTR YR 1981 TOTAL	850844			MEAN 2331	MAX 17300	MIN 508						

01066000 SACO RIVER AT CORNISH, ME--Continued

WATER-QUALITY RECORDS

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

PERIOD OF DAILY RECORD.--

SPECIFIC CONDUCTANCE: July 1975 to September 1981.

WATER TEMPERATURES: July 1975 to September 1981.

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

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

EXTREMES FOR PERIOD OF DAILY RECORD.--

SPECIFIC CONDUCTANCE: Maximum >310 micromhos (monitor limitation) Nov. 6, Dec. 13, 23, 24, 26, 27, 1978; minimum, 16 micromhos Oct. 13, 1978.

WATER TEMPERATURES: Maximum, 29.0°C Aug. 2, 1975; minimum, 0.0°C on many days during winter periods.

EXTREMES FOR CURRENT YEAR.--

SPECIFIC CONDUCTANCE: Maximum, 60 micromhos Nov. 19; minimum, 24 micromhos Feb. 24, 26, 27.

WATER TEMPERATURES: Maximum, 27.5°C July 10, 11; minimum, 0.0°C on many days during winter period.

REVISIONS.--The dissolved organic carbon data published for Nov. 14, 1978, March 6, and Nov. 28, 1979, and for May 29, and Aug 26, 1980 are invalid due to a sample contamination problem.

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DATE	TIME	STREAM- FLOW, INSTAN- TANEOUS (CFS)	SPE- CIFIC CON- DUCT- ANCE (UMHOS)	SPE- CIFIC CON- DUCT- ANCE LAB (UMHOS)	PH (UNITS)	TEMPER- ATURE, AIR (DEG C)	TEMPER- ATURE (DEG C)	TUR- BID- ITY (NTU)	OXYGEN, DIS- SOLVED (MG/L)	COLI- FORM, FECAL, 0.7 UM-MF (COLS./ 100 ML)	STREP- TOCOCCI FECAL, KF AGAR (COLS. PER 100 ML)	HARD- NESS (MG/L AS CAC03)
OCT 23...	1045	711	47	42	6.8	9.5	7.5	.60	10.8	23	K17	10
NOV 28...	0945	1900	34	32	6.3	.5	1.0	.40	10.4	K17	K17	8
DEC 31...	0915	E1180	53	31	6.4	-9.0	.0	.10	13.2	22	--	6
JAN 27...	1045	E750	50	41	6.3	6.0	.0	.40	13.2	K6	K3	10
FEB 26...	0930	16400	32	29	6.1	4.0	.5	1.1	12.4	K10	K9	5
MAR 30...	1030	2280	38	34	6.5	18.0	7.0	.90	11.6	K3	K1	7
APR 23...	0930	2960	42	35	6.6	11.5	7.0	1.3	11.6	K6	K1	7
MAY 20...	1030	5020	38	37	6.3	20.0	11.5	1.4	10.0	K17	>100	6
JUN 17...	1030	1280	40	35	6.6	24.5	22.0	.60	8.2	38	39	8
JUL 29...	1100	1050	38	38	6.7	14.0	21.5	.50	8.2	K80	86	9
AUG 20...	1030	3940	32	29	6.5	23.0	17.5	2.3	9.6	33	26	7
SEP 21...	1530	1050	41	40	6.4	19.0	17.0	1.0	9.6	K2	K6	9

E ESTIMATED

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

01066000 SACO RIVER AT CORNISH, ME--Continued

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DATE	HARD- NESS NONCAR- BONATE (MG/L AS CACO3)	CALCIUM DIS- SOLVED (MG/L AS CA)	MAGNE- SIUM, DIS- SOLVED (MG/L AS MG)	SODIUM, DIS- SOLVED (MG/L AS NA)	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)
OCT 23...	--	2.9	.6	3.6	.8	--	3.7	5.2	.3	7.2	32	24
NOV 28...	3.0	2.4	.5	2.4	.5	5.0	4.3	3.1	.3	7.1	34	24
DEC 31...	.00	2.0	.2	2.9	.6	12	1.3	1.8	.3	1.2	20	18
JAN 27...	.00	3.0	.6	3.6	.6	13	3.9	4.5	.4	8.9	34	34
FEB 26...	4.0	1.5	.3	2.2	.7	1.0	4.9	3.0	.2	4.4	26	19
MAR 30...	1.0	2.6	.2	2.9	.6	6.0	3.5	4.1	.3	7.3	36	26
APR 23...	.00	2.4	.3	--	.6	14	3.2	3.3	.3	6.4	47	--
MAY 20...	5.0	2.1	.3	2.5	.6	1.0	4.7	3.2	.3	5.6	19	20
JUN 17...	3.0	2.5	.5	2.3	.6	5.0	3.4	3.9	.3	5.8	29	23
JUL 29...	.00	2.8	.5	3.3	.6	12	3.3	4.3	.3	5.9	34	29
AUG 20...	5.0	2.2	.4	2.2	.5	2.0	3.5	2.5	.3	5.9	26	19
SEP 21...	1.0	2.7	.5	3.1	.4	8.0	3.2	3.9	.3	5.9	17	25

DATE	SOLIDS, DIS- SOLVED (TONS PER AC-FT)	SOLIDS, DIS- SOLVED (TONS PER DAY)	NITRO- GEN, NO2+NO3 TOTAL (MG/L AS N)	NITRO- GEN, NO2+NO3 DIS- SOLVED (MG/L AS N)	NITRO- GEN, AMMONIA TOTAL (MG/L AS N)	NITRO- GEN, AMMONIA DIS- SOLVED (MG/L AS N)	NITRO- GEN,AM- MONIA + ORGANIC TOTAL (MG/L AS N)	NITRO- GEN,AM- MONIA + ORGANIC DIS. (MG/L AS N)	NITRO- GEN, TOTAL (MG/L AS N)	NITRO- GEN, DIS- SOLVED (MG/L AS N)	PHOS- PHORUS, TOTAL (MG/L AS P)	PHOS- PHORUS, DIS- SOLVED (MG/L AS P)
OCT 23...	.04	61.4	.13	.13	.030	.000	.30	.25	.43	.38	.010	.060
NOV 28...	.05	174	.15	.11	<.010	.020	--	.24	--	.35	<.010	<.010
DEC 31...	.03	63.7	.13	.19	.020	.030	.14	.18	.27	.37	.010	<.010
JAN 27...	.05	68.8	.20	.20	.050	.060	.33	.34	.53	.54	<.010	<.010
FEB 26...	.04	1150	.23	.25	.040	.060	.19	.17	.42	.42	.030	<.010
MAR 30...	.05	222	.13	.14	.040	.060	.32	.21	.45	.35	.010	<.010
APR 23...	.06	376	.13	.15	.020	.050	.34	.27	.47	.42	<.010	<.010
MAY 20...	.03	258	.08	.07	<.010	.050	.31	.23	.39	.30	.020	<.010
JUN 17...	.04	100	.12	.12	.020	.050	.57	<.10	.69	--	<.010	<.010
JUL 29...	.05	96.4	.10	.10	<.010	.010	.11	.11	.21	.21	<.010	<.010
AUG 20...	.04	277	.22	.12	.020	.030	.30	.22	.52	.34	.020	<.010
SEP 21...	.02	48.2	.10	.11	.020	.010	.15	.13	.25	.24	<.010	<.010

01066000 SACO RIVER AT CORNISH, ME--Continued

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DATE	ARSENIC TOTAL (UG/L AS AS)	ARSENIC DIS- SOLVED (UG/L AS AS)	BARIUM, TOTAL RECOV- ERABLE (UG/L AS BA)	BARIUM, DIS- SOLVED (UG/L AS BA)	CADMIUM TOTAL RECOV- ERABLE (UG/L AS CD)	CADMIUM DIS- SOLVED (UG/L AS CD)	CHRO- MIUM, TOTAL RECOV- ERABLE (UG/L AS CR)	CHRO- MIUM, DIS- SOLVED (UG/L AS CR)	COBALT, TOTAL RECOV- ERABLE (UG/L AS CO)	COBALT, DIS- SOLVED (UG/L AS CO)
NOV 28...	1	1	100	9	0	1	10	10	0	0
FEB 26...	0	0	<50	100	1	0	10	10	0	0
MAY 20...	0	0	100	9	1	<1	<10	<10	1	0
AUG 20...	0	0	<50	8	1	1	10	<10	4	3

DATE	COPPER, TOTAL RECOV- ERABLE (UG/L AS CU)	COPPER, DIS- SOLVED (UG/L AS CU)	IRON, TOTAL RECOV- ERABLE (UG/L AS FE)	IRON, DIS- SOLVED (UG/L AS FE)	LEAD, TOTAL RECOV- ERABLE (UG/L AS PB)	LEAD, DIS- SOLVED (UG/L AS PB)	MANGA- NESE, TOTAL RECOV- ERABLE (UG/L AS MN)	MANGA- NESE, DIS- SOLVED (UG/L AS MN)	MERCURY TOTAL RECOV- ERABLE (UG/L AS HG)
NOV 28...	3	2	350	110	7	0	20	20	<.1
FEB 26...	39	7	650	80	29	12	70	50	<.1
MAY 20...	5	3	460	100	2	0	30	20	<.1
AUG 20...	4	2	420	110	11	<1	30	20	.2

DATE	MERCURY DIS- SOLVED (UG/L AS HG)	NICKEL, TOTAL RECOV- ERABLE (UG/L AS NI)	NICKEL, DIS- SOLVED (UG/L AS NI)	SELE- NIUM, TOTAL (UG/L AS SE)	SELE- NIUM, DIS- SOLVED (UG/L AS SE)	SILVER, TOTAL RECOV- ERABLE (UG/L AS AG)	SILVER, DIS- SOLVED (UG/L AS AG)	ZINC, TOTAL RECOV- ERABLE (UG/L AS ZN)	ZINC, DIS- SOLVED (UG/L AS ZN)
NOV 28...	<.1	4	6	0	0	0	0	10	8
FEB 26...	<.1	2	1	0	0	0	0	110	10
MAY 20...	<.1	5	3	0	0	0	0	20	8
AUG 20...	.2	4	1	<1	<1	<1	<1	20	6

DATE	CARBON, ORGANIC TOTAL (MG/L AS C)	PHYTO- PLANK- TON, TOTAL (CELLS PER ML)	SEDI- MENT, SUS- PENDED (MG/L)	SEDI- MENT, DIS- CHARGE, SUS- PENDED (T/DAY)	SED. SUSP. SIEVE DIAM. % FINER THAN .062 MM
OCT 23...	3.1	--	2	3.8	100
NOV 28...	--	140	5	26	100
DEC 31...	--	--	1	3.2	100
JAN 27...	2.7	--	3	6.1	100
FEB 26...	--	--	53	2350	40
MAR 30...	3.0	26	5	31	--
APR 23...	3.0	--	2	16	100
MAY 20...	--	210	13	176	84
JUN 17...	3.1	52	4	14	86
JUL 29...	3.0	280	1	2.8	60
AUG 20...	--	810	4	43	100
SEP 21...	2.6	14	--	--	--

01066000 SACO RIVER AT CORNISH, ME--Continued

PHYTOPLANKTON ANALYSES, OCTOBER 1980 TO SEPTEMBER 1981

DATE TIME	NOV 28,80 0945	MAR 30,81 1030	MAY 20,81 1030	JUN 17,81 1030
TOTAL CELLS/ML	140	26	210	52
DIVERSITY: DIVISION	0.0	1.0	1.0	1.5
..CLASS	0.0	1.0	1.0	1.5
..ORDER	0.4	1.0	2.0	1.5
...FAMILY	0.4	1.0	2.6	1.5
....GENUS	0.4	1.0	2.6	1.5

ORGANISM	CELLS /ML	PER- CENT	CELLS /ML	PER- CENT	CELLS /ML	PER- CENT	CELLS /ML	PER- CENT
CHLOROPHYTA (GREEN ALGAE)								
..CHLOROPHYCEAE								
...CHLOROCOCCALES								
....MICRACTINIACEAE								
.....MICRACTINIUM	--	-	13#	50	--	-	--	-
....OOCYSTACEAE								
.....GLOEOACTINIUM	--	-	--	-	--	-	--	-
....SCENEDESMACEAE								
.....CRUCIGENIA	--	-	--	-	--	-	--	-
..TETRASPORALES								
...COCCOMYXACEAE								
....ELAKATOTHRIX	--	-	--	-	56#	27	--	-
..VOLVOCALES								
...CHLAMYDOMONADACEAE								
....CHLAMYDOMONAS	--	-	--	-	42#	20	26#	50
CHRYSTOPHYTA								
..RACILLARIOPHYCEAE								
...CENTRALES								
....COSCINODISCACEAE								
.....CYCLOTELLA	--	-	--	-	42#	20	13#	25
....MELOSIRA	130#	91	--	-	--	-	--	-
..PENNALES								
....ACHNANTHACEAE								
.....ACHNANTHES	--	-	--	-	14	7	--	-
...EUNOTIACEAE								
....EUNOTIA	--	-	--	-	14	7	--	-
...GOMPHONEMACEAE								
.....GOMPHONEMA	13	9	--	-	--	-	--	-
...NAVICULACEAE								
....NAVICULA	--	-	--	-	14	7	--	-
...NITZSCHACEAE								
....NITZSCHIA	--	-	--	-	28	13	--	-
...TABELLARIACEAE								
....TABELLARIA	--	-	--	-	--	-	--	-
CYANOPHYTA (BLUE-GREEN ALGAE)								
..CYANOPHYCEAE								
...CHROOCOCCALES								
....CHROOCOCCACEAE								
.....ANACYSTIS	--	-	13#	50	--	-	--	-
....GOMPHOSPHAERIA	--	-	--	-	--	-	--	-
PYRRHOPHYTA (FIRE ALGAE)								
..DINOPHYCEAE								
...PERIDINIALES								
....GLENODINIACEAE								
.....GLENODINIUM	--	-	--	-	--	-	13#	25
....PERIDINIACEAE								
.....PERIDINIUM	--	-	--	-	--	-	--	-

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

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

01066000 SACO RIVER AT CORNISH, ME--Continued

PHYTOPLANKTON ANALYSES, OCTOBER 1980 TO SEPTEMBER 1981

DATE TIME	JUL 29,81 1100	AUG 20,81 1030	SEP 21,81 1530
TOTAL CELLS/ML	280	810	14
DIVERSITY: DIVISION	1.4	1.2	0.0
..CLASS	1.4	1.2	0.0
..ORDER	1.7	1.4	0.0
...FAMILY	2.1	1.4	0.0
....GENUS	2.1	1.4	0.0

ORGANISM	CELLS /ML	PER- CENT	CELLS /ML	PER- CENT	CELLS /ML	PER- CENT
CHLOROPHYTA (GREEN ALGAE)						
..CHLOROPHYCEAE						
...CHLOROCOCCALES						
....MICRACTINIACEAE						
....MICRACTINIUM	--	-	--	-	--	-
...OOCYSTACEAE						
....GLOEOACTINIUM	120#	42	--	-	--	-
....SCENEDESMACEAE						
....CRUCIGENIA	--	-	56	7	--	-
..TETRASPORALES						
...COCCOMYXACEAE						
....ELAKATOTHRIX	--	-	--	-	--	-
..VOLVOCALES						
...CHLAMYDOMONADACEAE						
....CHLAMYDOMONAS	29	11	14	2	--	-
CHRYSOPHYTA						
..BACILLARIOPHYCEAE						
...CENTRALES						
....COSCINODISCAEAE						
....CYCLOTELLA	--	-	--	-	--	-
....MELOSIRA	--	-	150#	19	--	-
..PENNALES						
....ACHNANTHACEAE						
....ACHNANTHES	--	-	14	2	--	-
...EUNOTIACEAE						
....EUNOTIA	--	-	--	-	--	-
...GOMPHONEMACEAE						
....GOMPHONEMA	--	-	--	-	--	-
...NAVICULACEAE						
....NAVICULA	72#	26	--	-	14#	100
...NITZSCHIACEAE						
....NITZSCHIA	--	-	--	-	--	-
...TABELLARIACEAE						
....TABELLARIA	29	11	--	-	--	-
CYANOPHYTA (BLUE-GREEN ALGAE)						
..CYANOPHYCEAE						
...CHROOCOCCALES						
....CHROOCOCCACEAE						
....ANACYSTIS	--	-	--	-	--	-
....GOMPHOSPHAERIA	--	-	560#	69	--	-
PYRRHOPHYTA (FIRE ALGAE)						
..DINOPHYCEAE						
...PERIDINIALES						
....GLENODINIACEAE						
....GLENODINIUM	29	11	--	-	--	-
...PERIDINIACEAE						
....PERIDINIUM	--	-	14	2	--	-

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

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

01066000 SACO RIVER AT CORNISH, ME--Continued

SPECIFIC CONDUCTANCE (MICROMHOS/CM AT 25 DEG. C), WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

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

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

01066000 SACO RIVER AT CORNISH, ME--Continued

SPECIFIC CONDUCTANCE (MICROMHOS/CM AT 25 DEG. C), WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
	JUNE			JULY			AUGUST			SEPTEMBER		
1	36	35	36	41	39	40	38	33	35	41	39	40
2	36	35	35	42	40	41	34	32	33	41	40	41
3	36	35	35	44	42	43	35	33	33	42	41	41
4	38	36	37	44	42	43	38	35	37	42	41	42
5	39	38	39	43	42	43	40	38	38	42	41	42
6	39	37	38	44	42	43	42	39	40	43	42	42
7	38	37	38	45	42	43	40	39	39	44	42	43
8	39	36	37	45	42	43	40	30	35	44	43	43
9	38	37	37	41	36	38	31	30	31	44	43	43
10	40	38	38	36	34	35	34	30	32	44	43	43
11	39	38	38	37	34	36	37	34	35	44	42	43
12	39	38	38	39	37	38	41	34	37	44	35	39
13	38	37	37	41	39	39	39	32	35	37	34	36
14	38	37	38	43	40	41	39	33	36	40	37	38
15	41	38	39	42	41	41	40	35	37	40	39	40
16	43	41	42	43	41	42	42	36	40	41	40	40
17	42	39	40	43	41	42	42	30	38	42	40	41
18	39	38	39	45	43	44	31	29	30	42	41	42
19	40	38	39	44	40	42	32	31	32	43	42	42
20	40	40	40	47	42	43	31	29	30	43	41	42
21	42	40	41	52	41	43	32	30	31	43	42	43
22	43	41	42	42	41	42	34	32	33	43	42	43
23	44	43	44	44	40	42	35	33	34	43	42	43
24	44	38	40	43	38	41	35	34	35	42	36	41
25	41	38	39	37	34	35	42	35	38	35	30	32
26	41	39	39	37	34	35	42	36	38	31	30	31
27	41	38	40	38	36	37	43	37	39	32	31	31
28	42	39	40	40	38	39	44	37	39	34	31	32
29	41	40	41	40	39	40	45	37	39	35	33	34
30	40	38	40	41	39	40	47	39	42	34	30	31
31	---	---	---	43	37	40	40	39	39	---	---	---
MONTH	44	35	39	52	34	40	47	29	36	44	30	39
YEAR	60	24	42									

TEMPERATURE, WATER (DEG. C), WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

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

TEMPERATURE, WATER (DEG. C), WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

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

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
JUNE			JULY			AUGUST			SEPTEMBER			
1	20.5	18.5	19.5	25.5	22.0	23.5	22.5	19.5	21.0	20.0	19.5	20.0
2	20.0	18.0	19.0	25.5	22.5	24.0	23.0	20.5	21.5	19.5	18.5	19.0
3	19.5	17.5	18.5	26.0	23.0	24.5	23.5	22.0	22.5	19.0	18.5	18.5
4	20.5	18.0	19.0	25.0	23.5	24.5	25.0	22.5	23.5	20.0	18.0	19.0
5	21.5	18.5	20.0	24.5	24.0	24.0	23.5	23.0	23.0	20.5	18.5	19.0
6	21.5	20.0	20.5	25.5	23.5	24.5	23.5	22.5	23.0	20.5	18.5	19.5
7	22.0	20.0	21.0	26.0	23.5	24.5	22.5	21.5	22.5	21.5	18.5	19.5
8	22.0	19.5	20.5	26.0	23.5	24.5	21.5	19.5	20.0	21.0	19.0	20.0
9	21.0	20.0	20.5	26.5	24.5	25.0	20.0	19.0	19.5	21.0	19.0	20.0
10	21.0	18.5	20.0	27.5	24.5	26.0	21.0	19.0	20.0	20.5	18.0	19.0
11	21.0	19.5	20.0	27.5	25.0	26.0	22.5	20.0	21.0	19.5	18.5	18.5
12	21.0	19.0	20.0	27.0	24.5	25.5	23.0	21.0	22.0	18.5	17.5	18.0
13	22.0	19.5	20.5	25.5	24.5	25.0	22.5	21.0	21.5	19.0	17.0	18.0
14	21.5	20.0	20.5	25.0	23.5	24.0	22.5	20.5	21.0	18.5	17.0	18.0
15	22.0	20.5	21.0	25.0	22.5	23.5	20.0	19.5	20.0	19.5	18.0	18.5
16	24.0	21.0	22.0	25.0	21.5	23.0	21.5	19.5	20.0	19.0	18.5	18.5
17	24.0	22.0	22.5	25.0	21.0	23.0	20.0	17.0	19.0	19.5	18.0	18.5
18	25.0	21.5	23.0	24.5	22.0	23.0	17.5	16.0	17.0	18.5	17.5	18.0
19	25.0	22.0	23.5	24.5	22.5	23.5	17.5	16.0	17.0	17.5	16.5	17.0
20	24.0	22.5	23.0	23.0	22.0	22.5	19.5	17.0	18.0	18.0	16.5	17.0
21	24.0	22.0	23.0	24.0	21.5	22.5	20.5	18.5	19.5	17.0	15.5	16.0
22	22.5	21.5	22.0	24.0	22.0	23.0	21.0	19.5	20.5	15.5	14.0	15.0
23	22.0	20.5	21.0	24.0	21.0	22.5	21.5	20.5	21.0	14.0	13.5	14.0
24	21.0	19.0	20.0	24.5	21.0	22.5	21.5	21.0	21.0	13.5	11.5	12.5
25	20.0	19.5	19.5	24.5	21.0	22.5	21.0	20.0	20.5	12.0	11.0	11.5
26	20.5	19.0	20.0	23.5	21.0	22.5	20.5	19.5	20.0	12.5	11.5	12.0
27	22.0	19.0	20.5	25.0	21.5	23.0	20.0	19.0	19.5	14.0	12.5	13.0
28	22.5	19.5	21.0	24.0	21.5	22.5	20.5	18.5	19.0	14.0	13.5	14.0
29	23.0	20.5	21.5	22.5	21.0	21.5	20.5	18.5	19.5	14.0	12.5	13.0
30	24.0	21.0	22.0	22.5	20.5	21.0	21.0	19.0	20.0	12.0	11.0	11.5
31	---	---	---	22.0	19.5	20.5	20.5	20.0	20.0	---	---	---
MONTH	25.0	17.5	21.0	27.5	19.5	23.5	25.0	16.0	20.5	21.5	11.0	17.0
YEAR	27.5	.0	10.0									

01066500 LITTLE OSSIPEE RIVER NEAR SOUTH LIMINGTON, ME

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

DRAINAGE AREA.--168 mi² (435 km²), revised.

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

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

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

AVERAGE DISCHARGE.--41 years, 290 ft³/s (8.213 m³/s).

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

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

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 2,220 ft³/s (62.9 m³/s) Feb. 27, gage height, 4.87 ft (1.484 m); minimum daily, 35 ft³/s (0.99 m³/s) Apr. 4.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	47	207	560	115	88	1550	38	280	175	92	134	54
2	47	202	432	115	141	1130	40	265	180	79	113	52
3	47	198	390	115	271	960	38	245	173	74	96	52
4	100	195	352	115	255	835	35	231	159	70	87	52
5	105	192	306	110	214	730	186	221	160	97	83	50
6	98	190	276	110	167	660	303	208	154	182	90	48
7	72	176	260	110	138	575	329	195	137	214	85	47
8	64	114	250	110	130	545	315	179	111	204	78	45
9	59	113	245	105	127	510	298	169	114	170	78	65
10	110	113	238	105	111	470	277	166	133	143	95	64
11	125	114	220	105	125	445	264	164	131	119	103	63
12	140	119	183	105	334	430	254	166	123	102	100	61
13	135	129	165	105	384	410	247	198	112	99	88	68
14	130	95	155	105	321	390	254	208	104	104	77	68
15	125	65	150	100	264	365	296	204	105	106	88	64
16	120	84	145	100	203	355	290	240	111	92	134	60
17	115	87	140	100	189	355	285	270	109	80	139	58
18	110	107	135	100	209	345	284	252	93	72	117	62
19	140	112	130	99	243	355	284	244	80	68	99	69
20	160	103	130	98	283	365	270	221	72	67	85	109
21	150	101	130	97	958	365	252	127	80	128	75	218
22	130	104	130	97	1740	335	227	133	85	147	69	199
23	145	101	130	96	1230	320	213	138	110	131	65	280
24	164	102	125	95	830	310	269	138	102	107	62	357
25	231	220	125	94	1280	300	330	128	100	90	68	329
26	297	352	125	93	1780	290	327	113	141	80	67	289
27	425	333	120	92	2120	300	294	104	146	94	65	255
28	478	302	120	91	2070	325	268	106	148	95	65	230
29	466	614	120	91	---	455	258	99	146	131	63	205
30	452	734	120	90	---	515	281	100	114	161	60	183
31	360	---	120	89	---	380	---	127	---	155	57	---
TOTAL	5347	5678	6227	3152	16205	15675	7306	5639	3708	3553	2685	3756
MEAN	172	189	201	102	579	506	244	182	124	115	86.6	125
MAX	478	734	560	115	2120	1550	330	280	180	214	139	357
MIN	47	65	120	89	88	290	35	99	72	67	57	45
CAL YR 1980	TOTAL	67592	MEAN 185	MAX 2040	MIN 44							
WTR YR 1981	TOTAL	78931	MEAN 216	MAX 2120	MIN 35							

01069500 MOUSAM RIVER NEAR WEST KENNEBUNK, ME

LOCATION.--Lat 43°25'04", long 70°39'32", York County, Hydrologic Unit 01060003, on right bank 100 ft (30 m) upstream from highway bridge, 1.4 mi (2.3 km) downstream from Middle Branch, and 4.0 mi (6.4 km) west of West Kennebunk.

DRAINAGE AREA.--99.0 mi² (256.4 km²), revised.

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

GAGE.--Water-stage recorder. Altitude of gage is 170 ft (52 m), from topographic map.

REMARKS.--Records good. Flow regulated by Square Pond and Mousam and Estes Lakes, combined capacity about 700,000,000 ft³ (20,000,000 m³) and powerplants upstream. Several observations of water temperature and specific conductance were made during the year.

AVERAGE DISCHARGE.--42 years, 179 ft³/s (5.069 m³/s).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 3,540 ft³/s (100 m³/s) Mar. 14, 1977, gage height, 5.82 ft (1.774 m); minimum daily, 0.40 ft³/s (0.011 m³/s) Nov. 10, 15, 16, 1964.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 1,760 ft³/s (49.8 m³/s) Feb. 25, gage height, 3.94 ft (1.201 m); minimum daily, 7.1 ft³/s (0.201 m³/s) Jan. 31, Feb. 1, 7, 8.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	54	66	300	147	7.1	919	220	203	15	51	15	11
2	109	11	262	53	7.8	787	308	196	15	120	15	11
3	82	89	258	9.2	101	698	355	190	15	37	118	11
4	100	167	219	8.9	152	605	320	187	65	16	123	110
5	108	65	170	9.3	154	572	304	187	15	18	70	61
6	91	10	183	102	107	426	360	187	15	120	15	12
7	87	59	175	102	7.1	355	320	187	15	118	21	12
8	78	168	156	104	7.1	332	288	184	12	120	29	12
9	77	72	169	54	72	296	272	174	81	105	11	9.1
10	72	11	76	8.2	152	272	252	171	113	9.8	11	21
11	75	111	138	8.0	153	256	230	118	171	8.5	103	63
12	80	112	114	8.2	106	241	230	125	85	7.8	168	118
13	72	10	119	56	113	230	216	113	9.8	110	94	125
14	66	10	211	9.5	161	223	203	12	11	100	7.2	123
15	39	10	189	63	113	245	196	70	11	7.2	7.2	165
16	70	10	186	9.5	104	268	187	15	13	7.2	8.5	144
17	62	113	182	9.1	164	260	180	18	15	7.2	67	76
18	13	72	173	8.9	111	234	184	142	14	7.2	100	65
19	71	10	170	8.6	111	223	190	184	15	8.5	65	78
20	64	10	164	60	160	213	196	165	15	9.1	115	43
21	68	105	164	58	493	193	203	180	16	69	110	19
22	71	60	154	9.5	752	190	190	153	108	108	7.8	67
23	62	11	104	55	540	193	168	174	123	63	7.8	113
24	48	11	15	9.5	613	187	193	171	125	11	63	47
25	26	115	14	9.5	1510	184	234	123	115	11	58	63
26	306	116	13	105	1520	180	245	123	15	11	59	69
27	208	113	13	155	1370	190	216	174	13	15	44	76
28	176	168	13	105	1150	223	203	118	13	123	58	37
29	118	416	12	101	---	241	187	15	32	118	9.1	65
30	98	420	96	101	---	237	209	16	72	118	9.1	115
31	168	---	146	7.1	---	245	---	15	---	63	58	---
TOTAL	2819	2721	4358	1554.0	10011.1	9918	7059	4090	1352.8	1697.5	1646.7	1941.1
MEAN	90.9	90.7	141	50.1	358	320	235	132	45.1	54.8	53.1	64.7
MAX	306	420	300	155	1520	919	360	203	171	123	168	165
MIN	13	10	12	7.1	7.1	180	168	12	9.8	7.2	7.2	9.1
†	298	348	305	354	534	498	508	486	476	458	434	390

CAL YR 1980 TOTAL 43770.1 MEAN 120 MAX 1400 MIN 2.1
WTR YR 1981 TOTAL 49168.2 MEAN 135 MAX 1520 MIN 7.1

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

01072100 SALMON FALLS RIVER AT MILTON, NH

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

DRAINAGE AREA.--108 mi² (280 km²).

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

GAGE.--Water-stage recorder and concrete control. Altitude of gage is 405 ft (123 m), from topographic map.

REMARKS.--Records good. Flow regulated by Great East and Lovell Lakes and Horn, Wilson, and Milton (also controls Northeast and Town House) Ponds, combined usable capacity, 1,280,000,000 ft³ (36,250,000 m³). Several observations of water temperature and specific conductance were made during the year.

AVERAGE DISCHARGE.--13 years, 197 ft³/s (5.579 m³/s).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 3,500 ft³/s (99.1 m³/s) Mar. 15, 1977, gage height, 6.50 ft (1.981 m); minimum daily, 19 ft³/s (0.54 m³/s) Aug. 30, Sept. 13, 1970.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 1,200 ft³/s (34.0 m³/s) Feb. 27, gage height, 5.03 ft (1.533 m); minimum daily, 47 ft³/s (1.33 m³/s) Feb. 1, 2.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	94	126	224	129	47	977	207	164	56	54	88	53
2	105	114	293	119	47	775	242	164	60	51	100	53
3	126	124	305	109	51	656	265	161	64	50	88	53
4	136	136	301	98	73	582	214	155	69	50	80	53
5	139	121	277	92	90	408	235	134	88	50	75	53
6	139	105	242	84	94	313	250	116	100	51	64	53
7	136	98	228	82	96	326	224	92	98	72	55	51
8	124	88	221	78	96	343	204	65	79	84	55	86
9	116	80	201	77	96	309	201	57	58	88	54	116
10	111	78	179	69	96	273	194	57	57	96	54	116
11	111	75	164	65	94	281	194	57	57	90	54	116
12	109	105	155	65	121	301	188	57	58	78	54	116
13	92	124	167	64	167	301	161	57	60	73	67	116
14	78	109	176	78	185	301	109	64	60	70	80	114
15	72	102	158	78	185	301	65	91	61	67	80	150
16	70	90	144	77	185	301	65	136	61	62	80	188
17	67	114	134	77	176	289	75	144	59	60	82	194
18	64	147	121	77	170	273	107	150	55	57	84	194
19	64	129	144	62	167	273	134	150	49	54	84	194
20	62	114	150	48	176	273	150	144	49	51	78	194
21	60	100	134	48	531	269	155	142	49	51	72	188
22	62	92	124	48	1000	257	150	129	49	51	72	182
23	60	88	111	48	923	194	142	121	49	55	72	182
24	57	119	105	48	751	139	147	114	49	58	65	182
25	55	161	100	48	897	147	167	87	49	58	58	182
26	78	173	121	48	1070	164	161	57	53	58	58	182
27	116	173	144	48	1180	188	173	57	57	57	57	182
28	131	173	134	48	1170	194	176	57	60	57	57	239
29	142	173	116	48	---	207	170	55	60	58	57	289
30	139	170	124	48	---	221	167	55	58	67	54	281
31	136	---	144	48	---	218	---	55	---	70	53	---
TOTAL	3051	3601	5341	2156	9934	10054	5092	3144	1831	1948	2131	4352
MEAN	98.4	120	172	69.5	355	324	170	101	61.0	62.8	68.7	145
MAX	142	173	305	129	1180	977	265	164	100	96	100	289
MIN	55	75	100	48	47	139	65	55	49	50	53	51
CAL YR 1980	TOTAL	44710	MEAN 122	MAX 1560	MIN 39							
WTR YR 1981	TOTAL	52635	MEAN 144	MAX 1180	MIN 47							

DISCHARGE MEASUREMENTS MADE AT MISCELLANEOUS SITES DURING WATER YEAR 1981

Stream	Tributary to	Location	Drainage area (mi ²)	Measured previously (water years)	Measurements	
					Date	Discharge (ft ³ /s)
PLEASANT RIVER BASIN						
Dogpit Brook	North Branch Pleasant River	Lat 44°43'11", long 67°48'37", Washington County, at a point 0.7 mi (1.1 km) upstream of mouth and 3.3 mi (5.3 km) northwest of Epping.		1980	10-10-80 10-28-80 11-07-80 12-05-80 04-08-81 05-08-81 05-29-81 08-19-81	4.7 6.9 2.0 14.0 9.2 3.5 .96 5.8
Pleasant River	Atlantic Ocean	Lat 44°42'38", long 67°51'21", Washington County, 10 ft (3.0 m) upstream from mouth of Taylor Branch and approximately 4.8 mi (7.7 km) northwest of Epping.		1980	10-22-80 11-06-80 04-09-81 05-12-81	53.3 49.0 161 67.6
Taylor Branch Pleasant River	Pleasant River	Lat 44°44'24", long 67°51'11", Washington County, approximately 0.6 mi (1.0 km) south of conflu- ence of Taylor Branch and Bill Smith Brook, and 3.4 mi (5.5 km) north of confluence of Taylor Branch and Pleasant River in T18M.D.			10-23-80 05-11-81	4.77 7.02
Pine Island Brook	Pleasant River	Lat 44°41'55", long 67°49'46", Washington County, at a point 500 ft (152 m) upstream from mouth near southeastern tip of Pine Island, in Columbia.		1980	08-21-81	1.5
Pine Island Brook	Pleasant River	Lat 44°41'50", long 67°49'39", Washington County, at a point 50 ft (15.2 m) upstream from mouth near southeastern tip of Pine Island, in Columbia.			10-24-80 04-01-81 04-07-81 05-13-81 05-26-81	.72 2.64 4.65 3.71 .29
KENNEBEC RIVER BASIN						
West Outlet Stream	Kennebec River	Lat 45°39'06", long 69°44'43", Somerset County, just downstream from West Outlet dam of Moosehead Lake near Rockwood.		many	10-23-80 05-05-81	30.2 581
Austin Stream	Kennebec River	Lat 45°03'25", long 69°53'10", Somerset County, at mouth, at Bingham.	90.3	many	07-16-81	131
Sebasticook River	Kennebec River	Lat 44°46'57", long 69°22'47", Somerset County, on upstream side of bridge on State Highway 69 at Pittsfield.	313	1979	09-02-81	104
East Branch Sebasticook River	Sebasticook River	Lat 44°54'58", long 69°15'32", Penobscot County, on left bank 500 ft (152 m) downstream from Moosehead Pond dam at Corinna.		1976	08-19-81	21
Alder Stream	Sebasticook River	Lat 44°54'44", long 69°15'00", Penobscot County, on left down- stream abutment of bridge on State Highway 222, near Corinna.	15.7	1976	08-19-81	10.5
East Branch Sebasticook River	Kennebec River	Lat 44°50'04", long 69°16'22", Penobscot County, on right bank 100 ft (30.5 m) below dam on U.S. Highway 2 at Newport.	127	1975	09-02-81	41
East Branch Sebasticook River	Kennebec River	Lat 44°46'31", long 69°17'46", Somerset County, on downstream side of bridge on State Highway 220 at Detroit.	208	1979	09-02-81	61.5
Sebasticook River	Kennebec River	Lat 44°41'32", long 69°25'38", Waldo County, upstream side of bridge on town road 100 ft (30.5 m) east of junction of State Highway 100 at Burnham.	725	1979	09-02-81	286
Sebasticook River	Kennebec River	Lat 44°38'08", long 69°30'06", Kennebec County, downstream side of bridge on county road 0.2 mi (0.3 km) east of junction of State Highway 100 at Clinton.	827	1979	09-02-81	310

DISCHARGE MEASUREMENTS MADE AT MISCELLANEOUS SITES DURING WATER YEAR 1981

Stream	Tributary to	Location	Drainage area (mi ²)	Measured previously (water years)	Measurements Date	Discharge (ft ³ /s)
KENNEBEC RIVER BASIN.--Continued						
Sebasticoock River	Kennebec River	Lat 44°35'08", long 69°35'00", Kennebec County, downstream side of bridge on State Highway 138 at Benton.	862	many	09-02-81	381
Outlet Stream	Sebasticoock River	Lat 44°31'33", long 69°36'54", Kennebec County, downstream end of culvert on State Highway 137 30 ft (9.1 m) southwest of junction with Dunbar Road at Hayden Corner, Winslow.		1979	09-02-81	30.9
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	10-07-80 02-23-81 08-18-81	111 850 237
Androscoggin River	Kennebec River	Lat 44°31'49", long 70°27'52", Oxford County, downstream side of bridge on town road at Dixfield.	2204	1980	04-08-81	6940
Webb River	Androscoggin River	Lat 44°35'55", long 70°28'20", Oxford County, just west of private road 0.4 mi (0.61 km) upstream of the falls near Dixfield.	116	1980	04-09-81	255
Androscoggin River	Kennebec River	Lat 44°27'38", long 70°18'17", Oxford County, upstream side of bridge on State Highway 140 near Canton.			04-28-81	3830
Androscoggin River	Kennebec River	Lat 44°30'04", long 70°13'05", Franklin County, upstream side of bridge on town road near Jay.	2488	1980	04-08-81 06-11-81	8310 5220
Dead River	Androscoggin River	Lat 44°20'54", long 70°04'06", Kennebec County, 10 ft (3 m) downstream from dam at outlet of Pocasset Lake at Wayne.	59		04-10-81 06-10-81 09-14-81	137 81 21
Androscoggin River	Kennebec River	Lat 44°20'31", long 70°11'22", Androscoggin County, upstream side of Twin Bridge on State Highway 219 at Leeds-Turner town line.	2639	1980	04-09-81 09-14-81	7050 3300
Allen Stream	Androscoggin River	Lat 44°17'32", long 70°10'09", Androscoggin County, upstream side of bridge on town road at West Leeds.		1980	06-10-81	12.7
Androscoggin River	Kennebec River	Lat 44°15'22", long 70°10'49", Androscoggin County, upstream side of Turner bridge at Turner-Greene town line.			04-28-81	4880
Stony Brook	Little Androscoggin River	Lat 44°13'23", long 70°30'24", Oxford County, upstream side of bridge on State Highway 117 at South Paris.	14.7	many	03-24-81 04-27-81 06-11-81 08-07-81	13.7 20.2 4.78 22.1
Little Androscoggin River	Androscoggin River	Lat 44°12'40", long 70°31'02", Oxford County, approximately 200 ft (61 m) upstream from railroad bridge at South Paris.	109	1980	01-20-81 03-24-81 04-27-81	27.8 99.5 177
Little Androscoggin River	Androscoggin River	Lat 44°08'12", long 70°29'26", Oxford County, upstream side of bridge on State Highway 121 at Oxford.	152	1980	01-21-81 03-25-81 04-27-81	43.8 235 232
Little Androscoggin River	Androscoggin River	Lat 44°07'56", long 70°27'47", Oxford County, upstream side of bridge on State Highway 26 at Welchville.	216	many	01-21-81 03-26-81 04-27-81	69.2 306 392
Little Androscoggin River	Androscoggin River	Lat 44°06'37", long 70°25'03", Androscoggin County, downstream side of bridge on Lane Road near Mechanic Falls.	231	many	01-22-81 02-25-81 03-26-81 04-28-81 06-11-81 06-11-81	82 1500 352 402 208 208
Sabattus River	Androscoggin River	Lat 44°01'13", long 70°05'27", Androscoggin County, 0.7 mi (1.1 km) upstream from mouth and 600 ft (180 m) downstream from Mill Street Bridge at Lisbon Center.	72.3	1980	04-15-81	137
Androscoggin River	Kennebec River	Lat 43°55'03", long 69°58'25", Cumberland County, upstream side of foot bridge, 0.3 mi (0.5 km) upstream on U.S. Route 1 from corner of U.S. Route 201, 530 ft (161 m) downstream from railroad bridge at Brunswick.	3410	many	04-15-81 06-23-81	7510 5970

MISCELLANEOUS TEMPERATURE AND SPECIFIC CONDUCTANCE DETERMINATIONS

WATER QUALITY DATA, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DATE	TIME	STREAM- FLOW, INSTAN- TANEOUS (CFS)	TEMPER- ATURE (DEG C)	TEMPER- ATURE, AIR (DEG C)	SPE- CIFIC CON- DUCT- ANCE (UMHOS)	DATE	TIME	STREAM- FLOW, INSTAN- TANEOUS (CFS)	TEMPER- ATURE (DEG C)	TEMPER- ATURE, AIR (DEG C)	SPE- CIFIC CON- DUCT- ANCE (UMHOS)
01010500 - ST. JOHN RIVER AT DICKEY, ME (LAT 47 06 44 LONG 069 05 25)											
NOV , 1980						JUN , 1981					
14...	0945	2890	1.0	-1.0	70	04...	1830	4210	18.5	20.5	57
DEC						JUL					
18...	0900	2880	.0	-35.5	85	15...	0900	9670	15.5	15.5	52
FEB , 1981						AUG					
04...	0930	726	.0	-18.0	118	19...	1205	33600	15.5	20.0	65
APR						25...	1600	4870	18.0	17.5	45
07...	1100	34600	.0	5.0	40	SEP					
MAY						29...	1345	15400	9.0	12.5	38
06...	0845	9070	12.0	23.5	44						
01011000 - ALLAGASH RIVER NEAR ALLAGASH, ME (LAT 47 04 14 LONG 069 04 51)											
NOV , 1980						APR , 1981					
14...	1040	1030	1.0	.0	75	07...	1300	9520	.5	.5	48
DEC						JUN					
18...	1000	1400	.0	-34.5	65	10...	1445	2090	14.0	12.0	60
FEB , 1981						AUG					
04...	1150	497	.0	-18.0	90	19...	1400	8570	15.5	21.0	60
MAR											
19...	0930	970	.0	-3.0	85						
01013500 - FISH RIVER NEAR FORT KENT, ME (LAT 47 14 14 LONG 068 34 56)											
NOV , 1980						APR , 1981					
14...	1250	801	4.0	.0	65	07...	1600	3930	20.0	5.5	85
DEC						JUN					
17...	1445	950	.0	-13.5	55	10...	1915	1970	10.0	12.5	75
FEB , 1981						AUG					
03...	1505	633	.0	-10.0	95	20...	0900	4700	19.0	17.0	80
MAR											
18...	1440	1050	.0	.0	93						
01014000 - ST. JOHN RIVER BELOW FISH R, AT FORT KENT, ME (LAT 47 15 27 LONG 068 35 35)											
NOV , 1980						FEB , 1981					
14...	1215	5740	4.0	1.0	70	03...	1350	1940	.0	-9.0	105
DEC						JUN					
17...	1340	6390	.0	-13.5	65	11...	0835	8320	9.5	11.5	80
01015800 - AROOSTOOK RIVER NEAR MASARDIS, ME (LAT 46 31 21 LONG 068 22 23)											
OCT , 1980						APR , 1981					
07...	1350	1590	9.5	12.0	60	06...	1810	8620	.0	1.0	40
NOV						JUN					
13...	1355	1240	2.0	4.0	66	11...	1310	1420	15.0	15.0	68
DEC						AUG					
16...	1615	948	.0	-34.0	63	18...	1620	5040	15.5	15.5	58
FEB , 1981											
02...	1410	356	.0	5.5	55						
01016500 - MACHIAS RIVER NEAR ASHLAND, ME (LAT 46 37 42 LONG 068 26 07)											
OCT , 1980						APR , 1981					
07...	1540	573	10.0	12.0	68	08...	1035	3360	.5	4.5	85
NOV						JUN					
13...	1545	371	2.0	2.0	72	11...	1120	379	13.5	14.0	76
DEC						AUG					
17...	1020	335	.0	-5.0	83	18...	1350	4130	13.5	19.0	70
FEB , 1981											
02...	1520	85	.0	10.0	82						
01017000 - AROOSTOOK RIVER AT WASHBURN, ME (LAT 46 46 36 LONG 068 09 29)											
OCT , 1980						APR , 1981					
07...	1700	2750	10.0	85.0	70	08...	0900	15000	.0	65.0	85
NOV						JUN					
13...	1635	1960	2.0	1.0	88	10...	0920	2680	12.0	10.0	85
MAR , 1981											
20...	0855	880	.0	1.0	95						

WATER QUALITY DATA, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DATE	TIME	STREAM- FLOW, INSTAN- TANEOUS (CFS)	TEMPER- ATURE (DEG C)	TEMPER- ATURE, AIR (DEG C)	SPE- CIFIC CON- DUCT- ANCE (UMHOS)	DATE	TIME	STREAM- FLOW, INSTAN- TANEOUS (CFS)	TEMPER- ATURE (DEG C)	TEMPER- ATURE, AIR (DEG C)	SPE- CIFIC CON- DUCT- ANCE (UMHOS)
01017900 - MARLEY BROOK NEAR LUDLOW, ME (LAT 46 08 42 LONG 068 03 42)											
OCT , 1980						MAR , 1981					
07...	0935	2.0	8.0	8.5	95	20...	1150	.91	.0	2.0	110
NOV						APR					
13...	1100	3.3	3.0	2.0	78	08...	1525	9.5	2.5	10.0	85
DEC						JUN					
08...	1550	4.2	1.0	1.0	73	09...	1205	1.6	9.0	10.0	105
16...	1040	.82	.0	-34.0	90	AUG					
FEB , 1981						17...	1205	2.0	14.5	18.0	100
02...	1040	1.4	.0	5.0	125						
01018000 - MEDUXNEKEAG RIVER NEAR HOULTON, ME (LAT 46 06 17 LONG 067 52 00)											
OCT , 1980						FEB , 1981					
07...	1120	296	9.0	8.0	125	02...	1210	81	.0	5.5	90
NOV						MAR					
13...	1225	415	2.0	2.0	135	20...	1115	195	.0	2.0	175
DEC						APR					
16...	1145	330	.0	-34.0	86	08...	1330	1820	2.0	10.0	100
01018500 - ST. CROIX RIVER AT VANCEBORO, ME (LAT 45 34 08 LONG 067 25 47)											
DEC , 1980						MAY , 1981					
09...	1315	270	.5	1.0	29	27...	1830	1340	16.0	18.0	26
JAN , 1981						JUN					
13...	1600	1050	.0	-15.0	26	24...	1530	800	18.5	25.0	28
MAR						JUL					
10...	1600	800	2.0	1.0	30	22...	1430	1040	21.0	22.5	28
APR											
15...	1230	3480	4.0	3.0	25						
01019000 - GRAND LAKE STREAM AT GRAND LAKE STREAM, ME (LAT 45 10 23 LONG 067 46 06)											
NOV , 1980						MAY , 1981					
19...	1615	200	2.5	-3.0	29	27...	1500	478	15.0	26.0	25
JAN , 1981						JUN					
14...	0945	521	.0	-14.0	25	24...	1300	654	16.0	21.0	24
FEB						JUL					
18...	1400	464	2.5	8.0	25	23...	1630	812	21.5	22.0	24
MAR						SEP					
11...	1700	654	2.5	.0	24	15...	1800	200	--	18.0	30
APR											
15...	1730	291	4.0	-2.0	24						
01020000 - ST. CROIX RIVER NEAR BAILEYVILLE, ME (LAT 45 15 55 LONG 067 28 36)											
NOV , 1980						MAY , 1981					
20...	1015	1970	1.0	-.5	32	27...	1215	2550	16.0	21.0	29
DEC						JUN					
10...	1000	3560	.0	-3.0	30	24...	1100	3230	18.0	22.0	28
JAN , 1981						JUL					
14...	0845	2180	.0	-11.0	32	23...	1345	2680	22.0	22.0	30
FEB						AUG					
18...	1515	3640	1.0	7.0	31	12...	1600	2930	22.5	23.0	26
MAR						SEP					
11...	1430	2860	2.0	3.5	29	15...	1600	1560	20.0	32.0	32
APR											
16...	1330	5360	4.5	1.0	25						
01021000 - ST. CROIX RIVER AT BARING, ME (LAT 45 08 12 LONG 067 19 05)											
NOV , 1980						MAR , 1981					
20...	1115	1730	.5	-.5	115	11...	1330	2550	2.0	2.0	80
DEC						JUL					
10...	0835	3760	.0	-4.5	67	23...	1245	2680	22.0	22.0	95
JAN , 1981						AUG					
14...	0745	8840	.0	-16.0	52	12...	1100	2880	22.0	22.5	100
FEB						SEP					
19...	1130	3770	1.0	6.0	63	15...	1200	1640	19.0	--	100
01021200 - DENNY'S RIVER AT DENNYVILLE, ME (LAT 44 54 03 LONG 067 14 56)											
NOV , 1980						MAY , 1981					
20...	1600	117	.0	-2.5	38	26...	2145	203	16.5	--	34
JAN , 1981						JUL					
14...	1530	133	.0	-11.0	36	24...	0900	209	18.0	20.5	33
FEB						SEP					
18...	1630	430	.5	7.0	32	15...	1345	74	18.0	20.0	38
APR											
16...	1630	274	5.0	-2.0	30						

WATER QUALITY DATA, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

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01022260 - PLEASANT RIVER NEAR EPPING, ME (LAT 44 41 52 LONG 067 47 16)											
OCT , 1980						JAN , 1981					
06...	1815	162	11.0	11.0	--	22...	1400	65	.5	.0	18
09...	1650	89	10.5	9.5	--	30...	0920	52	.5	-10.0	--
24...	1430	71	6.5	9.0	32	MAR					
NOV						25...	1200	120	4.5	5.0	30
05...	1635	74	5.0	7.0	34	MAY					
DEC						13...	1730	130	13.0	11.0	23
09...	1315	254	.5	1.5	27	28...	1510	73	19.5	25.0	28
01024200 - GARLAND BROOK NEAR MARIVILLE, ME (LAT 44 43 17 LONG 068 24 40)											
NOV , 1980						APR , 1981					
21...	1235	85	.0	4.5	38	17...	1015	20	3.0	11.0	28
DEC						MAY					
10...	1350	28	.0	-1.5	23	26...	1530	10	18.0	--	28
FEB , 1981						JUN					
19...	1615	38	.0	6.0	25	23...	1515	58	16.0	25.0	30
MAR						SEP					
12...	1700	12	2.0	1.0	24	14...	1430	41	16.5	25.5	35
01029500 - EAST BRANCH PENOBSCOT RIVER AT GRINDSTONE, ME (LAT 45 43 49 LONG 068 35 22)											
OCT , 1980						MAR , 1981					
22...	0750	880	6.0	1.0	44	18...	0740	1200	.5	-6.0	37
DEC						MAY					
01...	1435	2230	.5	3.0	47	07...	1735	2170	11.0	12.0	37
JAN , 1981											
15...	0930	970	.0	-13.0	32						
01030000 - PENOBSCOT RIVER NEAR MATTAWAMKEAG, ME (LAT 45 34 01 LONG 068 24 10)											
OCT , 1980						MAR , 1981					
22...	1100	3130	9.0	5.5	56	18...	0845	5520	.5	-6.0	58
DEC						MAY					
02...	1340	9610	.5	3.0	65	06...	1945	5480	12.0	15.0	58
JAN , 1981											
15...	1000	3500	.5	-13.0	92						
01030500 - MATTAWAMKEAG RIVER NEAR MATTAWAMKEAG, ME (LAT 45 30 18 LONG 068 18 07)											
OCT , 1980						MAR , 1981					
21...	1610	1990	8.5	8.0	57	17...	1730	1410	.5	-6.0	55
DEC						MAY					
02...	1340	6320	1.0	2.0	60	06...	1400	2670	12.0	19.0	47
01031500 - PISCATAQUIS RIVER NEAR DOVER-FOXCROFT, ME (LAT 45 10 31 LONG 069 18 55)											
OCT , 1980						FEB , 1981					
23...	0925	208	6.0	4.0	53	13...	1150	2830	1.0	-10.0	80
DEC						MAR					
03...	0900	1120	1.5	6.0	48	17...	1440	245	.5	-6.5	56
JAN , 1981						MAY					
12...	1700	121	.0	-19.0	55	05...	1350	397	14.0	19.0	47
01033000 - SEBEC RIVER AT SEBEC, ME (LAT 45 16 12 LONG 069 06 44)											
OCT , 1980						FEB , 1981					
23...	0815	272	8.0	1.0	30	13...	1400	1570	2.0	-20.0	95
DEC						MAR					
03...	1015	1490	2.0	6.0	36	17...	1045	864	1.0	-3.0	32
JAN , 1981						MAY					
13...	0900	240	.0	-19.0	43	05...	1630	561	11.0	20.0	40
01034000 - PISCATAQUIS RIVER AT MEDFORD, ME (LAT 45 15 40 LONG 068 52 07)											
OCT , 1980						MAR , 1981					
22...	1710	1220	7.0	6.5	36	17...	1000	1630	.5	-7.0	35
DEC						MAY					
03...	1130	4810	2.0	7.0	28	06...	0645	1790	9.0	12.0	43
JAN , 1981											
13...	1140	708	.0	-12.0	20						

WATER QUALITY DATA, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DATE	TIME	STREAM- FLOW, INSTAN- TANEOUS (CFS)	TEMPER- ATURE, (DEG C)	TEMPER- ATURE, AIR (DEG C)	SPE- CIFIC CON- DUCT- ANCE (UMHOS)	DATE	TIME	STREAM- FLOW, INSTAN- TANEOUS (CFS)	TEMPER- ATURE, (DEG C)	TEMPER- ATURE, AIR (DEG C)	SPE- CIFIC CON- DUCT- ANCE (UMHOS)
01034500 - PENOBSCOT RIVER AT WEST ENFIELD, ME (LAT 45 14 12 LONG 068 38 56)											
OCT , 1980						MAR , 1981					
21...	0915	8410	8.0	5.5	68	17...	0900	8580	1.0	-6.0	71
DEC						MAY					
02...	1615	16500	1.0	3.0	145	06...	1220	9940	13.0	15.0	75
JAN , 1981											
14...	1310	5850	.0	-15.0	75						
01038000 - SHEEPSCOT RIVER AT NORTH WHITEFIELD, ME (LAT 44 13 23 LONG 069 35 38)											
OCT , 1980						APR , 1981					
03...	1145	27	14.0	18.5	65	03...	1430	442	6.0	14.5	66
NOV						10...	0930	442	9.0	10.0	70
03...	1100	78	3.5	5.0	58	MAY					
DEC						01...	1230	201	12.0	17.0	50
03...	1445	692	3.0	.0	50	JUN					
31...	1600	92	.0	<-5.0	80	01...	1040	458	17.0	20.0	57
JAN , 1981						SEP					
05...	1700	104	--	--	80	04...	1000	60	16.0	17.0	70
FEB											
26...	1300	466	3.0	5.0	61						
01041000 - KENNEBEC RIVER AT MOOSEHEAD, ME (LAT 45 35 08 LONG 069 43 05)											
OCT , 1980						MAR , 1981					
23...	1035	3820	8.0	4.0	35	17...	1305	1156	1.0	-4.5	38
DEC						MAY					
03...	0700	462	1.5	6.0	41	05...	0840	1500	7.0	11.0	41
JAN , 1981											
12...	1430	3210	.0	-19.0	44						
01042500 - KENNEBEC RIVER AT THE FORKS, ME (LAT 45 20 25 LONG 069 57 48)											
OCT , 1980						MAR , 1981					
07...	0910	638	10.0	13.0	31	10...	1030	336	1.0	2.0	34
NOV						JUL					
24...	0815	395	1.0	-1.0	50	16...	1000	388	20.0	20.5	35
JAN , 1981						AUG					
06...	1615	7800	.0	-14.0	42	04...	1430	5310	22.0	28.0	32
01043500 - DEAD RIVER NEAR DEAD RIVER, ME (LAT 45 13 48 LONG 070 11 58)											
OCT , 1980						MAR , 1981					
07...	1245	477	14.0	11.0	40	10...	1430	761	2.0	2.0	40
NOV						JUN					
24...	1145	5.0	1.5	3.0	47	24...	1500	336	19.0	22.0	35
JAN , 1981						AUG					
06...	1400	552	.0	-10.0	46	04...	0945	1440	21.5	24.5	37
01046500 - KENNEBEC RIVER AT BINGHAM, ME (LAT 45 03 06 LONG 069 53 12)											
OCT , 1980						MAR , 1981					
07...	1100	6420	14.0	18.0	30	10...	1245	2320	1.0	2.0	40
NOV						JUL					
24...	1000	6480	5.0	2.0	38	16...	0715	808	19.0	16.5	37
JAN , 1981						AUG					
06...	1730	6740	.0	-15.0	55	04...	1245	3520	21.5	28.5	36
01047000 - CARRABASSETT RIVER NEAR NORTH ANSON, ME (LAT 44 52 09 LONG 069 57 20)											
OCT , 1980						MAR , 1981					
07...	1440	274	14.0	11.0	41	10...	1700	412	2.5	2.0	36
NOV						JUN					
24...	1500	221	2.0	2.0	60	24...	1600	952	19.5	24.0	33
JAN , 1981						AUG					
06...	1200	160	.0	--	55	04...	1200	265	24.0	27.0	40
01047730 - WILSON STREAM AT EAST WILTON, ME (LAT 44 36 55 LONG 070 11 42)											
OCT , 1980						JAN , 1981					
06...	1630	32	14.0	18.0	65	13...	0945	17	.0	<-5.0	63
10...	1730	23	11.5	6.0	65	MAR					
12...	1620	23	12.0	13.5	70	12...	1215	50	2.5	3.5	53
NOV						AUG					
21...	1300	19	1.0	3.0	92	05...	1100	20	23.0	27.0	56

WATER QUALITY DATA, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DATE	TIME	STREAM- FLOW, INSTAN- TANEOUS (CFS)	TEMPER- ATURE (DEG C)	TEMPER- ATURE, AIR (DEG C)	SPE- CIFIC CON- DUCT- ANCE (UMHOS)	DATE	TIME	STREAM- FLOW, INSTAN- TANEOUS (CFS)	TEMPER- ATURE (DEG C)	TEMPER- ATURE, AIR (DEG C)	SPE- CIFIC CON- DUCT- ANCE (UMHOS)
01049000 - SEBASTICOOK RIVER NEAR PITTSFIELD, ME (LAT 44 43 00 LONG 069 24 56)											
OCT , 1980						JUL , 1981					
30...	1430	842	--	--	--	15...	1530	234	21.0	27.0	--
31...	1430	--	6.0	10.0	118	24...	0810	273	22.5	17.5	116
JAN , 1981						31...	0900	335	--	24.5	120
09...	1330	491	.0	--	30	AUG					
FEB						07...	0845	530	--	21.5	150
27...	1500	1610	2.5	3.5	72	14...	0805	216	22.0	13.0	142
APR						25...	1530	280	23.0	21.0	135
03...	1730	1120	7.5	12.5	--	SEP					
04...	1345	1240	7.5	10.0	95	01...	1100	183	21.0	18.0	159
MAY						17...	1700	349	18.0	21.0	150
06...	1230	900	14.0	19.5	90						
JUN											
25...	1530	935	20.0	20.0	110						
01049300 - NORTH BRANCH TANNING BROOK NEAR MANCHESTER, ME (LAT 44 21 00 LONG 069 51 07)											
OCT , 1980						APR , 1981					
06...	1100	.63	11.0	14.0	102	02...	1315	12	2.5	9.0	53
NOV						03...	1215	3.7	6.5	14.5	55
25...	1420	14	1.0	5.5	79	AUG					
JAN , 1981						03...	1630	.23	25.5	28.5	88
12...	1450	.20	.0	-12.0	60						
MAR											
13...	1545	1.4	4.5	--	65						
01049373 - MILL STREAM AT WINTHROP, ME (LAT 44 18 24 LONG 069 58 18)											
OCT , 1980						MAR , 1981					
06...	1205	4.2	14.0	14.0	95	11...	1430	68	5.0	6.5	60
NOV						AUG					
25...	1100	3.7	4.0	6.0	112	03...	1530	15	25.5	30.0	66
JAN , 1981											
09...	1645	19	1.5	--	93						
01049396 - JOCK STREAM AT SOUTH MONMOUTH, ME (LAT 44 11 04 LONG 069 59 48)											
OCT , 1980						MAR , 1981					
06...	1415	3.2	13.0	11.0	138	11...	1220	13	3.0	6.0	82
27...	1200	30	6.0	9.0	105	APR					
NOV						02...	1545	123	4.5	8.0	75
21...	1630	3.5	.5	4.0	162	03...	1515	64	7.5	16.0	75
JAN , 1981						AUG					
12...	1130	3.4	.0	-13.0	69	03...	1345	3.7	21.5	29.5	97
01049500 - CORBOSSEECONTEE STREAM AT GARDINER, ME (LAT 44 13 15 LONG 069 47 25)											
APR , 1981						JUN , 1981					
10...	0730	397	10.0	10.0	110	02...	1045	153	18.5	21.0	89
01052500 - DIAMOND RIVER NEAR WENTWORTH LOCATION, NH (LAT 44 52 40 LONG 071 03 25)											
OCT , 1980						APR , 1981					
09...	1000	268	7.0	4.0	38	28...	1615	356	9.5	18.0	33
17...	1245	217	3.5	6.0	38	AUG					
NOV						19...	1000	517	13.0	15.0	30
25...	1400	771	.0	1.0	33						
01053500 - ANDROSCOGGIN RIVER AT ERROL, NH (LAT 44 46 57 LONG 071 07 46)											
OCT , 1980						APR , 1981					
09...	1315	1250	10.5	6.0	35	28...	1815	1210	7.0	17.0	32
NOV						AUG					
25...	1600	1180	.5	1.0	34	19...	1230	1490	16.0	17.0	32
01054000 - ANDROSCOGGIN RIVER NEAR GORHAM, NH (LAT 44 26 10 LONG 071 11 27)											
OCT , 1980						APR , 1981					
09...	1630	1460	12.0	7.0	105	29...	1145	1990	8.5	12.0	100
NOV						AUG					
26...	0800	2340	.5	-3.0	85	19...	1415	1990	19.0	20.0	88

WATER QUALITY DATA, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DATE	TIME	STREAM- FLOW, INSTAN- TANEOUS (CFS)	TEMPER- ATURE (DEG C)	TEMPER- ATURE, AIR (DEG C)	SPE- CIFIC CON- DUCT- ANCE (UMHOS)	DATE	TIME	STREAM- FLOW, INSTAN- TANEOUS (CFS)	TEMPER- ATURE (DEG C)	TEMPER- ATURE, AIR (DEG C)	SPE- CIFIC CON- DUCT- ANCE (UMHOS)
01054300 - ELLIS RIVER AT SOUTH ANDOVER, ME (LAT 44 35 37 LONG 070 44 01)											
OCT , 1980						APR , 1981					
08...	1330	113	10.0	10.5	38	16...	1600	266	5.0	6.0	34
17...	1115	76	4.0	3.5	41						
NOV											
24...	1245	85	.5	2.0	40						
01054500 - ANDROSCOGGIN RIVER AT RUMFORD, ME (LAT 44 32 33 LONG 070 32 50)											
NOV , 1980						AUG , 1981					
25...	1045	2990	.5	3.0	108	18...	1030	4520	21.0	15.0	70
APR , 1981											
28...	1030	3560	13.0	10.0	90						
01055000 - SWIFT RIVER NEAR ROXBURY, ME (LAT 44 38 32 LONG 070 35 17)											
OCT , 1980						APR , 1981					
08...	1000	86	9.0	6.5	29	28...	1330	186	9.5	18.0	27
NOV						AUG					
24...	1030	70	.0	1.0	30	18...	1430	203	17.0	20.0	25
01055500 - NEZINSCOT RIVER AT TURNER CENTER, ME (LAT 44 16 10 LONG 070 13 49)											
OCT , 1980						APR , 1981					
02...	1025	46	13.0	14.0	58	08...	1635	403	9.0	25.0	--
NOV						30...	1000	351	11.0	13.0	56
04...	1200	94	5.5	10.5	65	JUN					
DEC						03...	1130	105	18.0	22.0	68
31...	1350	70	.0	-5.0	80	08...	1420	95	22.5	21.0	63
APR , 1981						30...	1100	82	19.0	23.0	66
02...	1115	582	6.5	7.0	--						
01057000 - LITTLE ANDROSCOGGIN RIVER NEAR SOUTH PARIS, ME (LAT 44 17 08 LONG 070 32 16)											
OCT , 1980						JUN , 1981					
03...	1230	14	12.0	20.0	55	25...	1422	76	23.5	25.0	46
16...	1240	18	5.0	4.5	56	JUL					
APR , 1981						30...	1400	172	17.0	20.0	38
27...	1015	136	7.0	10.0	46	AUG					
27...	1030	136	7.0	10.0	46	20...	1315	141	18.0	20.0	43
JUN											
11...	0945	57	17.0	18.0	41						
01057510 - PENNESSEWASSEE LAKE OUTLET (LAT 44 12 23 LONG 070 31 55)											
MAR , 1981						AUG , 1981					
25...	1055	103	4.0	--	55	07...	1510	3.7	21.0	--	88
APR											
28...	0715	32	9.0	10.0	64						
28...	0805	33	9.0	10.0	64						
01058000 - THOMPSON LAKE AT OXFORD, ME (LAT 44 07 55 LONG 070 29 45)											
MAR , 1981						AUG , 1981					
25...	1000	24	7.0	--	330	07...	1450	11	24.5	--	1400
APR											
28...	1345	55	11.5	13.0	62						
01058500 - LITTLE ANDROSCOGGIN RIVER NEAR AUBURN, ME (LAT 44 03 49 LONG 070 16 28)											
OCT , 1980						APR , 1981					
28...	1230	431	6.0	5.0	--	13...	1300	530	9.0	12.0	85
JAN , 1981						16...	1345	719	7.0	8.5	108
21...	1300	139	.0	12.0	172						
01059000 - ANDROSCOGGIN RIVER NEAR AUBURN, ME (LAT 44 04 20 LONG 070 12 31)											
OCT , 1980						JUN , 1981					
28...	1315	10200	7.0	5.0	200	08...	1315	4590	21.0	22.0	130
APR , 1981						24...	1135	672	21.5	21.5	140
13...	1330	6690	9.5	10.0	100	JUL					
14...	1131	6670	8.0	5.0	75	07...	1100	4100	23.5	27.0	143
16...	1445	6690	7.0	9.0	--	08...	1130	4960	24.3	29.0	146
29...	1230	5200	9.0	18.0	56						
MAY											
01...	1110	6740	9.0	17.5	98						

WATER QUALITY DATA, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DATE	TIME	STREAM- FLOW, INSTAN- TANEOUS (CFS)	TEMPER- ATURE (DEG C)	TEMPER- ATURE, AIR (DEG C)	SPE- CIFIC CON- DUCT- ANCE (UMHOS)	DATE	TIME	STREAM- FLOW, INSTAN- TANEOUS (CFS)	TEMPER- ATURE (DEG C)	TEMPER- ATURE, AIR (DEG C)	SPE- CIFIC CON- DUCT- ANCE (UMHOS)
01059800 - COLLYER BROOK NEAR GRAY, ME (LAT 43 55 03 LONG 070 19 02)											
OCT , 1980						JUN , 1981					
28...	1100	14	5.0	7.0	--	25...	1200	10	15.0	25.5	132
JAN , 1981						AUG					
21...	1445	12	.0	22.0	165	18...	1000	12	14.0	26.5	112
APR											
02...	1815	64	5.0	7.0	90						
28...	1045	16	9.0	17.0	121						
01060000 - ROYAL RIVER AT YARMOUTH, ME (LAT 43 47 57 LONG 070 10 45)											
NOV , 1980						MAY , 1981					
25...	1000	382	2.0	8.5	120	19...	0830	235	12.5	12.0	70
DEC						JUN					
16...	1000	73	.0	-13.0	90	24...	1555	77	21.5	25.5	130
FEB , 1981						AUG					
24...	0930	451	.5	5.5	56	18...	1300	118	20.0	20.5	96
MAR						SEP					
24...	0945	135	3.0	6.0	65	22...	1100	42	15.0	11.5	120
APR											
22...	0930	146	8.0	7.0	79						
01064500 - SACO RIVER NEAR CONWAY, NH (LAT 43 59 27 LONG 071 05 29)											
OCT , 1980						MAY , 1981					
17...	1530	19	7.0	--	50	15...	1200	1710	10.0	--	26
30...	1400	578	5.0	--	40	JUN					
NOV						22...	1300	578	11.0	--	33
17...	1200	222	2.0	--	38	AUG					
JAN , 1981						17...	0950	2840	12.0	--	79
08...	1530	292	.0	--	90	SEP					
FEB						21...	1410	386	14.0	--	40
17...	1530	1040	1.5	--	35						
APR											
07...	1000	1970	3.0	--	26						
01065500 - OSSIPEE RIVER AT CORNISH, ME (LAT 43 48 26 LONG 070 47 55)											
OCT , 1980						MAY , 1981					
23...	1400	207	9.0	10.0	39	20...	1200	1300	14.0	21.0	34
FEB , 1981						JUN					
26...	1305	4600	1.0	5.0	30	05...	0815	391	18.5	19.0	36
MAR						JUL					
30...	1115	893	8.0	18.0	34	29...	1345	374	20.5	14.5	38
APR						AUG					
23...	1100	868	8.0	13.0	25	20...	1200	1110	22.5	26.0	36
01066500 - LITTLE OSSIPEE RIVER NEAR SOUTH LIMINGTON, ME (LAT 43 41 22 LONG 070 40 15)											
OCT , 1980						MAY , 1981					
23...	1500	141	9.0	10.5	--	20...	1230	153	16.5	21.0	38
30...	1100	450	7.0	6.0	--	JUN					
FEB , 1981						04...	1530	166	21.0	25.0	43
26...	1445	1780	.0	4.5	32	JUL					
MAR						29...	1415	138	21.0	14.0	43
30...	1430	489	8.5	17.0	38	AUG					
APR						20...	1300	85	21.5	26.0	43
23...	1245	209	9.0	14.0	40						
01069500 - MOUSAM RIVER NEAR WEST KENNEBUNK, ME (LAT 43 25 04 LONG 070 39 32)											
OCT , 1980						JUN , 1981					
23...	1600	66	10.0	8.0	87	05...	1030	14	19.5	24.0	--
DEC						17...	1345	16	24.0	26.0	--
31...	1600	147	1.5	-8.0	74	JUL					
APR , 1981						29...	1515	89	22.0	14.0	83
23...	1330	173	9.5	14.0	68	AUG					
MAY						20...	1645	149	22.0	24.5	81
20...	1315	173	17.0	21.0	75						

440438070261601. Local number, An 986.

LOCATION.--Lat 44°04'38", long 70°26'16", Hydrologic Unit 01040002, in gravel pit west of Winter Brook, 1.0 mi (1.6 km) west of intersection of State Highways 11 and 26, Poland.

Owner: U.S. Geological Survey.

AQUIFER.--Glacial sand and gravel (ice-contact deposits) of Pleistocene age.

WELL CHARACTERISTICS.--Drilled observation water-table well, diameter 6 in (0.15 m), depth 45 ft (13.7 m), screened 42 to 45 ft (12.8 to 13.7 m).

DATUM.--Altitude of land-surface datum is 310 ft (94 m). Measuring point: Top of casing at land-surface datum.

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

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

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 4.76 ft (1.45 m) below land-surface datum, Apr. 12, 1977; lowest measured, 7.95 ft (2.42 m) below land-surface datum, Nov. 29, 1978.

WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 15	7.25	DEC 31	7.05	FEB 20	7.06	APR 27	6.64	JUN 24	7.10	AUG 07	7.26
NOV 12	7.28	JAN 22	7.20	MAR 23	6.51	MAY 04	6.65	JUL 21	7.20	21	7.34
DEC 01	7.01	FEB 05	7.20	APR 14	6.57						

440730070035304. Local number, An 988C.

LOCATION.--Lat 44°07'30", long 70°03'53", Hydrologic Unit 01040002, on Old Bowdoin Road, 0.6 mi (1.0 km) east of State Highway 126, in Sabattus.

Owner: U.S. Geological Survey.

AQUIFER.--Glacial sand and gravel (ice-contact deposits) of Pleistocene age.

WELL CHARACTERISTICS.--Wash-bored observation artesian well, diameter 1.5 in (0.04 m), depth 45 ft (13.7 m), screened 40 to 45 ft (12.2 to 13.7 m).

DATUM.--Altitude of land-surface datum is 200 ft (61 m). Measuring point: Top of pipe at land-surface datum

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

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 3.95 ft (1.20 m) below land-surface datum, May 29, 1979; lowest measured, 6.34 ft (1.93 m), below land-surface datum, Jan. 27, 1981.

WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 31	5.37	JAN 27	6.34	MAR 30	5.83S	APR 28	5.40	JUN 30	5.62	AUG 25	6.10
NOV 27	4.97	FEB 12	5.54	APR 14	6.23	MAY 27	6.10S	JUL 29	6.12	SEP 28	5.10
DEC 29	5.98	27	5.65S	27	6.20						

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 (1.8 km) north of village of Portage Lake.

Owner: H. L. Stevens.

AQUIFER.--Glacial till of Pleistocene age.

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

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

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

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

WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 14	5.80	DEC 12	2.75	FEB 13	1.67	APR 13	1.75	JUN 12	5.17	AUG 15	5.22
29	4.59	30	4.28M	27	0.50	28	3.23	29	3.85	29	3.23
NOV 13	3.75	JAN 14	5.81M	MAR 13	3.75	MAY 13	2.45	JUL 13	5.80	SEP 11	4.65
26	2.03	28	7.35	30	2.50	28	3.71	29	7.10	28	4.07

M = Well frozen, water level estimated

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 (0.97 km) southwest of U.S. Highway 2 in Houlton.

Owner: Houlton Water Company.

AQUIFER.--Glacial sand and gravel (ice-contact deposits) of Pleistocene age.

WELL CHARACTERISTICS.--Drilled observation water-table well, diameter 18 in (0.46 m), depth 42 ft (12.95 m), screened 33 to 42 ft (10.06 to 12.95 m).

DATUM.--Altitude of land-surface datum is about 380 ft (115.8 m). Measuring point: Top of casing at land-surface datum.

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, 2.54 ft (0.77 m) below land-surface datum, Feb. 12, 1981; lowest measured, 5.62 ft (1.71 m) below land-surface datum, Sep. 15, 1980.

WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 15	4.38	DEC 15	3.98	FEB 12	2.54	APR 15	2.69	JUN 16	3.58	AUG 15	3.95
25	4.37	25	4.10	24	2.97	25	2.80	25	3.50	25	4.04
NOV 14	4.33	JAN 15	4.29	MAR 14	3.44	MAY 15	3.37	JUL 15	3.88	SEP 15	4.27
27	4.06	24	5.35	26	3.54	26	3.43	24	3.87	26	3.28

AROOSTOOK COUNTY -Continued

460855067552201. Local number, Ar 887.

LOCATION.--Lat 46°08'55", long 67°55'22", Hydrologic Unit 01010005, on Ludlow Road, 0.2 mi (0.3 km) east of intersection of Hemore Road, in Ludlow.

Owner: Charles Marshall.

AQUIFER.--Glacial till of Pleistocene age.

WELL CHARACTERISTICS.--Dug observation water-table well, diameter 20 in (0.51 m), depth 12.5 ft (3.8 m), cased with rock to 12.5 ft (3.8 m), open end.

DATUM.--Altitude of land-surface datum is 675 ft (206 m). Measuring point: Top of concrete curb at land-surface datum.

PERIOD OF RECORD.--November 1975 to May 6, 1981.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 1.30 ft (0.40 m) below land-surface datum, May 26, 1976; lowest measured, 8.40 (2.56 m) below land-surface datum, Oct. 11, 1978.

WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 15	2.10	NOV 13	2.70	DEC 15	5.00	JAN 20	6.00	FEB 23	2.60	MAY 06	3.25
24	4.20	23	3.30	JAN 12	6.00	FEB 12	2.50				

471457068353001. Local number, Ar 890.

LOCATION.--Lat 47°14'57", long 68°35'30", Hydrologic Unit 01010003, at southeast edge of athletic field of University of Maine at Fort Kent, west of Pleasant Street, Fort Kent.

Owner: U.S. Geological Survey.

AQUIFER.--Glacial sand and gravel (ice-contact deposits) of Pleistocene age.

WELL CHARACTERISTICS.--Drilled observation artesian well, diameter 6 in (0.15 m), depth 50 ft (15.2 m), open end.

DATUM.--Altitude of land-surface datum is 530 ft (162 m). Measuring point: Floor of recorder shelter at land-surface datum.

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

EXTREMES FOR PERIOD OF RECORD.--Highest water level, 2.22 ft (0.68 m) below land-surface datum, May 1, 1979; lowest, 15.30 ft (4.66 m) below land-surface datum, Jan. 22, 1979.

DEPTH BELOW LAND SURFACE (WATER LEVEL) (FEET), WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	11.51	10.36	10.62	10.29	11.44	8.78	7.17	5.61	5.54	8.27	---	6.94
10	11.05	10.50	10.24	10.50	11.46	8.88	5.46	5.87	6.10	8.85	---	7.31
15	10.91	10.66	10.04	10.58	11.42	8.95	4.61	4.99	6.48	---	---	7.79
20	10.69	10.89	9.71	10.59	11.26	9.28	5.01	4.37	6.81	---	6.30	8.31
25	10.65	10.97	9.75	10.78	9.26	9.68	5.38	4.66	7.13	---	6.11	8.65
EOM	10.36	10.85	10.07	---	8.82	9.67	5.52	5.06	7.69	---	6.49	8.28
MEAN	10.89	10.69	10.11	10.54	10.89	9.17	5.75	5.08	6.44	8.38	6.22	7.72
MAX	11.53	11.06	10.88	10.79	11.51	9.85	9.22	5.87	7.69	8.96	6.49	8.78
MIN	10.36	10.33	9.68	10.12	8.82	8.72	4.61	4.37	5.11	7.81	6.06	6.57
WTR YR 1981	MEAN	8.58	HIGH	4.37	MAY 20	LOW	11.53	OCT 4				

AROOSTOOK COUNTY --Continued

443642069344601. Local number, Ar 891.

LOCATION.--Lat 46°36'42", long 69°34'46", Hydrologic Unit 01010002, about 2.7 mi (4.34 km) west of village of Clayton Lake, T 11, R 14.

Owner: International Paper Co.

AQUIFER.--Seboomook Formation of Devonian age.

WELL CHARACTERISTICS.--Drilled observation artesian well, diameter 6 in (0.15 m), depth 83 ft (25.3 m), open hole.

DATUM.--Altitude of land-surface datum is 1,050 ft (320 m). Measuring point: Top of casing at land-surface datum.

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

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 7.94 ft (2.42 m) below land-surface datum, Sep. 25, 1981; lowest measured, 16.50 ft (5.03 m) below land-surface datum, Aug. 14, 1978.

DEPTH BELOW LAND SURFACE (WATER LEVEL) (FEET), WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	13.90	14.81	13.15	14.60	14.86	12.67	10.46	12.78	13.61	15.53	15.95	14.50
10	14.26	14.63	12.36	14.79	15.12	13.25	9.89	13.36	14.10	15.58	12.69	14.71
15	14.18	14.81	12.51	14.87	14.14	13.63	11.14	13.28	14.57	14.73	12.63	14.98
20	14.53	14.37	13.14	15.18	13.41	13.66	12.06	13.57	14.94	15.24	10.43	15.14
25	14.89	14.66	13.69	15.25	11.48	14.07	12.95	14.16	14.98	15.46	12.60	7.94
EOM	14.58	13.02	14.18	15.52	11.91	12.41	12.02	13.25	15.23	15.70	13.78	10.73
MEAN	14.47	14.49	13.08	14.94	13.78	13.39	11.45	13.38	14.38	15.42	12.88	13.64
MAX	15.15	14.91	14.18	15.52	15.55	14.18	13.00	14.31	15.23	15.78	15.95	15.24
MIN	13.90	13.00	12.18	14.22	11.28	12.05	9.82	12.05	12.61	14.73	9.40	7.94
WTR YR 1981	MEAN	13.78	HIGH	7.94 SEP 25	LOW	15.95 AUG 5						

CUMBERLAND COUNTY

435453070013601. Local number, C 26.

LOCATION.--Lat 43°54'53", long 70°01'36", Hydrologic Unit 01060001, north of Durham Road, 0.7 mi (1.1 km) west of U.S. Highway 1, Brunswick.

Owner: Brunswick and Topsham Water District.

AQUIFER.--Stratified sand and gravel deposits of Pleistocene age.

WELL CHARACTERISTICS.--Drilled observation artesian well, diameter 12 in (0.30 m), depth 101 ft (30.8 m), screened 81 to 101 ft (24.7 to 30.8 m).

DATUM.--Altitude of land-surface datum is 139 ft (42.3 m). Measuring point: Base of water-level recorder at land-surface datum.

PERIOD OF RECORD.--April 1958 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level, 27.28 ft (8.31 m) below land-surface datum, Jan. 5, 1978; lowest, 36.41 ft (11.10 m) below land-surface datum, Feb. 10, 1966.

DEPTH BELOW LAND SURFACE (WATER LEVEL) (FEET), WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	31.64	31.80	31.47	31.73	31.96	32.21	32.40	32.45	32.55	32.69	32.80	32.85
10	31.66	31.85	31.42	31.85	31.87	32.26	32.44	32.46	32.57	32.69	32.81	32.88
15	31.73	31.94	31.48	31.90	31.87	32.27	32.44	32.46	32.61	32.75	32.81	32.90
20	31.75	31.98	31.56	31.97	31.86	32.31	32.36	32.48	32.62	32.76	32.83	32.90
25	31.76	31.90	31.59	32.02	32.23	32.44	32.36	32.49	32.65	32.80	32.85	32.80
EOM	31.77	31.60	31.64	32.02	32.22	32.44	32.42	32.52	32.68	32.79	32.85	32.79
MEAN	31.71	31.87	31.51	31.88	31.96	32.31	32.40	32.47	32.61	32.79	32.82	32.86
MAX	31.85	32.00	31.65	32.05	32.25	32.46	32.47	32.52	32.68	34.08	32.85	32.94
MIN	31.58	31.60	31.40	31.64	31.86	32.20	32.33	32.41	32.55	32.69	32.78	32.79
WTR YR 1981	MEAN	32.27	HIGH	31.40 DEC 8 AND OTHERS	LOW	34.08 JUL 17						

HANCOCK COUNTY

444950068220601. Local number, H 1.

LOCATION.--Lat 44°49'50", long 68°22'06", Hydrologic Unit 01050002, on State Highway 9, 0.25 mi (0.4 km) west of intersection with State Highway 181 in Amherst.

Owner: Forrest J. Webber (formerly Norman Salisbury).

AQUIFER.--Glacial till of Pleistocene age.

WELL CHARACTERISTICS.--Dug observation water-table well, diameter 18 in (0.46 m), depth 14 ft (4.3 m), cased with rock to 14 ft (4.3 m), open end.

DATUM.--Altitude of land-surface datum is 330 ft (101 m). Measuring point: Top edge of hole in base of recorder shelter.

PERIOD OF RECORD.--November 1943 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 2.10 ft (0.64 m) below land-surface datum, May 29, 1961; lowest estimated, 17.8 ft (5.4 m) below land-surface datum Sept. 30, 1965. Well goes dry frequently.

DEPTH BELOW LAND SURFACE (WATER LEVEL) (FEET), WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	7.61	5.39	3.97	---	---	4.65	---	5.28	6.15	7.98	8.99	8.63
10	6.63	5.62	4.38	---	---	5.00	3.94	5.64	6.39	8.43	9.35	9.12
15	6.06	5.82	4.91	---	5.68	5.21	4.37	5.32	6.85	8.97	9.77	9.60
20	5.75	6.02	5.40	---	4.00	5.57	4.66	5.04	7.37	9.55	7.43	9.09
25	5.95	5.34	---	---	4.26	5.59	4.33	5.27	7.05	8.71	7.50	6.30
EOM	5.05	3.45	---	---	4.39	5.09	4.40	5.79	7.40	8.67	8.04	5.68
MEAN	6.35	5.40	4.83	5.71	5.16	5.16	4.53	4.87	4.05	4.08	8.45	8.33
MAX	8.85	6.07	5.71	5.71	5.71	5.80	4.94	5.79	7.40	9.55	9.77	9.93
MIN	5.04	3.45	3.62	5.71	4.00	4.38	3.94	4.36	2.64	.61	7.35	5.63
WTR YR 1981	MEAN	5.59	HIGH	4.61	JUL 19	LOW	9.93	SEP 18				

KENNEBEC COUNTY

441849069442001. Local number, K 52.

LOCATION.--Lat 44°18'49", long 69°44'20", Hydrologic Unit 01030003, on Cony Road, 0.3 mi (0.5 km) south of State Highway 105, in Augusta.

Owner: Walter Panek.

AQUIFER.--Glacial till of Pleistocene age.

WELL CHARACTERISTICS.--Dug observation water-table well, diameter 36 in (0.91 m), depth 22 ft (6.7 m), cased with rock to 22 ft (6.7 m), open end.

DATUM.--Altitude of land-surface datum is 220 ft (67 m). Measuring point: Top of floor of shelter house at land-surface datum.

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

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

EXTREMES FOR PERIOD OF RECORD.--Highest water level, 3.42 ft (1.04 m) below land-surface datum, Mar. 28, 1975; lowest, 15.68 ft (4.78 m) below land-surface datum, Nov. 30, 1978.

WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	13.32	13.04	--	--	--	4.77	4.27	5.40	--	--	--	6.92
10	13.51	12.89	--	--	5.57	5.09	4.59	5.80	--	--	--	7.68
15	13.57	--	--	--	4.85	5.20	4.89	5.82	6.50	--	--	7.96
20	13.64	--	--	--	4.87	5.42	4.95	4.50	6.80	--	--	7.22
25	13.30	--	--	--	4.63	5.76	5.17	5.67	6.87	--	6.00	--
EOM	13.19	10.84	6.00	7.29	4.46	4.57	5.25	5.69	6.66	6.37	6.57	6.83

KENNEBEC COUNTY --Continued

442023069553801. Local number, K 88.

LOCATION.--Lat 44°20'23", long 69°55'38", Hydrologic Unit 01030003, on State Highway 135, 1.4 mi (2.3 km) north of U.S. Highway 202, in East Winthrop.

Owner: A. Allen Stackpole.

AQUIFER.--Bedrock of Silurian age.

WELL CHARACTERISTICS.--Drilled observation artesian well, diameter 6 in (0.15 m), depth 298 ft (90.8 m), open hole.

DATUM.--Altitude of land-surface datum is 350 ft (107 m). Measuring point: Top of pipe at land-surface datum.

PERIOD OF RECORD.--April 1962 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 28.79 ft (8.78 m) below land-surface datum, May 31, 1978; lowest measured, 72.91 ft (22.22 m) below land-surface datum, Oct. 30, 1978.

WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

[illegible]

M = Well frozen

440918069564001. Local number, K 766.

LOCATION.--Lat 44°09'18", long 69°56'40", Hydrologic Unit 01030003, in Litchfield, 300 ft (91 m) east of town office.

Owner: U.S. Geological Survey.

AQUIFER.--Glacial sand and gravel (ice-contact deposits) of Pleistocene age.

WELL CHARACTERISTICS.--Drilled observation water-table well, diameter 6 in (0.15 m), depth 65 ft (19.8 m), cased to 62 ft (18.9 m), open end.

DATUM.--Altitude of land-surface datum is 300 ft (91 m). Measuring point: Floor of recorder shelter at land-surface datum.

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

EXTREMES FOR PERIOD OF RECORD.--Highest water level, 39.68 ft (12.09 m) below land-surface datum,

Apr. 28, 1979; lowest, 51.46 ft (15.68 m) below land-surface datum, Sept. 21, 1981.

DEPTH BELOW LAND SURFACE (WATER LEVEL) (FEET), WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	49.74	50.30	50.71	50.73	51.20	50.26	49.52	50.68	50.71	51.16	51.32	51.3
10	49.87	50.45	50.71	50.73	51.20	50.26	49.52	50.68	50.83	51.13	51.33	51.32
15	49.97	50.55	50.71	50.74	50.03	50.26	49.52	50.69	50.89	51.17	51.37	51.39
20	50.08	50.62	50.71	51.00	50.31	50.33	49.52	50.68	50.94	51.31	51.29	51.45
25	50.21	50.73	50.73	51.01	50.26	50.46	49.52	50.68	50.97	51.31	51.29	51.33
EOM	50.22	50.72	50.73	51.20	50.26	49.51	50.68	50.71	51.09	51.30	51.29	51.38
MEAN	49.99	50.53	50.71	50.89	50.64	50.29	49.66	50.69	50.87	51.23	51.31	51.36
MAX	50.22	50.73	50.73	51.20	51.23	50.50	50.68	50.72	51.09	51.32	51.38	51.46
MIN	49.67	50.23	50.71	50.73	50.03	49.51	49.52	50.68	50.70	51.11	51.29	51.29
WTR YR 1981	MEAN	50.68	HIGH	49.51	MAR 31	LOW	51.46	SEP 21	AND OTHERS			

440810069553601. Local number, K 872A.

LOCATION.--Lat 44°08'10", long 69°55'36", Hydrologic Unit 01030003, on Small Road, 0.25 mi (0.40 km) north of State Highway 197, Litchfield.

Owner: Stephen Condon.

AQUIFER.--Bedrock of Devonian age.

WELL CHARACTERISTICS.--Drilled observation artesian well, diameter 6 in (0.15 m), depth 404 ft (123.1 m), cased to bedrock, open end.

DATUM.--Altitude of land-surface datum is 220 ft (67 m). Measuring point: Top of casing at land-surface datum.

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

EXTREMES FOR PERIOD OF RECORD.--Highest water level, 6.55 ft (2.0 m) below land-surface datum, Mar. 8, 1979; lowest, 19.11 ft (5.82 m) below land-surface datum, Oct. 3, 1980.

DEPTH BELOW LAND SURFACE (WATER LEVEL) (FEET), WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	19.07	---	9.36	11.50	9.79	9.72	8.43	10.51	11.50	12.44	11.62	12.38
10	18.91	13.39	9.91	11.69	10.62	10.05	9.36	10.91	11.68	11.57	---	12.12
15	18.62	13.29	10.44	11.86	9.47	10.26	9.53	10.73	12.07	11.82	---	12.34
20	18.40	---	10.78	12.00	9.81	10.61	9.94	9.88	12.50	12.47	---	12.61
25	---	---	10.99	12.13	9.13	10.64	10.12	10.80	11.97	11.44	---	9.21
EOM	---	8.26	11.19	12.24	9.10	8.84	10.14	11.39	11.91	10.84	11.94	10.34
MEAN	18.83	12.27	10.32	11.83	9.74	10.11	9.52	10.59	11.85	11.76	11.16	11.76
MAX	19.11	13.41	11.24	12.24	12.28	10.72	10.34	11.43	12.51	12.47	11.94	12.75
MIN	18.40	7.88	8.69	11.27	8.59	8.84	8.06	9.45	11.23	10.84	9.42	9.21
WTR YR 1981	MEAN	11.42	HIGH	7.88	NOV 29	LOW	19.11	OCT 4				

OXFORD COUNTY

444637070552301. Local number, O 400.

LOCATION.--Lat 44°46'37", long 70°55'23", Hydrologic Unit 01040001, at Middle Dam, Lower Richardson Lake.

Owner: Union Water Power Co.

AQUIFER.--Glacial till of Pleistocene age.

WELL CHARACTERISTICS.--Dug observation water-table well, diameter 24 in (0.61 m), depth 15 ft (4.6 m), cased with concrete pipe to 15 ft (4.6 m), open end.

DATUM.--Altitude of land-surface datum is 1,450 ft (442 m). Measuring point: Top of casing, 2.0 ft (0.61 m) above land-surface datum.

PERIOD OF RECORD.--April 1944 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 0.4 ft (0.12 m) below land-surface datum, Apr. 11, 1976; lowest measured, 12.2 ft (3.7 m) below land-surface datum, Oct. 9, 16, 23, 1966.

WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 05	7.1	DEC 07	2.7	FEB 08	7.2	APR 19	2.3	JUN 21	3.3	AUG 16	5.6
12	6.5	14	3.2	15	8.2	26	1.7	28	4.2	23	6.0
19	5.8	21	4.2	22	5.2	MAY 03	2.1	JUL 05	5.2	30	6.2
26	5.4	28	4.8	MAR 01	3.8	10	3.2	12	6.2	SEP 06	6.9
NOV 02	4.6	JAN 04	5.2	08	4.4	17	1.7	19	6.7	13	7.3
09	3.7	11	5.8	15	4.4	24	2.7	26	7.4	20	5.3
16	3.9	18	5.3	29	4.2	31	1.7	AUG 02	7.6	27	2.3
23	4.6	25	6.8	APR 05	2.5	JUN 07	1.4	09	6.2		
30	1.8	FEB 01	7.2	12	3.2	14	2.7				

GROUND-WATER LEVELS
OXFORD COUNTY

440642070583401. Local number, O 615.

LOCATION.--Lat 44°06'42", long 70°58'34", Hydrologic Unit 01060002, at intersection of State Highways 5 and 113, Fryeburg.

Owner: U.S. Geological Survey.

AQUIFER.--Glacial sand and gravel (outwash) of Pleistocene age.

WELL CHARACTERISTICS.--Wash-bored observation water-table well, diameter 1.5 in (0.04 m), depth 43 ft (13.1 m), screened 38 to 43 ft (11.6 to 13.1 m).

DATUM.--Altitude of land-surface datum is 390 ft (119 m). Measuring point: Top of casing at land-surface datum.

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

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 4.90 ft (1.49 m) below land-surface datum, Apr. 17, 1979; lowest measured, 11.58 ft (3.53 m) below land-surface datum, Oct. 1, 1978.

WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 20	10.55	JAN 18	10.00	MAR 22	7.20	APR 19	7.10	MAY 17	7.20	AUG 09	9.30
NOV 16	9.90	FEB 07	9.50	APR 14	7.12	28	7.56	JUL 10	9.40	30	8.45
JAN 01	9.60	MAR 01	5.15								

442515070481001. Local number, O 616.

LOCATION.--Lat 44°25'15", long 70°48'10", Hydrologic Unit 01040002, at Bethel Airport, Bethel.

Owner: U.S. Geological Survey.

AQUIFER.--Glacial sand and gravel (outwash) of Pleistocene age.

WELL CHARACTERISTICS.--Wash-bored observation water-table well, diameter 1.5 in (0.04 m), depth 24 ft (7.3 m), screened 19 to 24 ft (5.8 to 7.3 m).

DATUM.--Altitude of land-surface datum is 650 ft (198 m). Measuring point: Top of casing at land-surface datum.

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

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 7.40 ft (2.26 m) below land-surface datum, May 15, 29, 1979; lowest measured, 12.60 ft (3.84 m) below land-surface datum, Nov. 16, 1978.

WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 30	10.70	JAN 07	11.28	MAR 16	9.60	APR 28	9.66	JUN 16	9.60	AUG 31	10.60
NOV 17	11.90	16	11.60	27	9.70	29	9.68	29	9.60	SEP 16	10.90
26	11.80	FEB 18	10.20	APR 14	9.82	MAY 14	9.70	JUL 30	10.65	28	9.80
DEC 16	12.20	MAR 11	9.78	16	9.50	31	9.60	AUG 17	10.20		

OXFORD COUNTY --Continued

440823070291501. Local number, O 1214.

LOCATION.--Lat 44°08'23", long 70°29'15", Hydrologic Unit 01040002, on State Highway 121, about 0.1 mi (.16 km) east of intersection with Skeetfield Road, in Oxford.

Owner: U.S. Geological Survey.

AQUIFER.--Stratified sand (outwash) of Pleistocene age.

WELL CHARACTERISTICS.--Drilled observation water-table well, diameter 6 in (0.15 m), depth 40 ft (12.2 m), cased with 6 in (0.15 m) steel to 36 ft (11.0 m), 4 ft (1.22 m) stainless steel screen.

DATUM.--Altitude of measuring-point datum is 333.95 ft (101.8 m). Measuring point: mark on electric tape gage.

REMARKS.--Test hole adjacent to this well shows a depth to bedrock of 174 ft (53.03 m).

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

EXTREMES FOR PERIOD OF RECORD.--Highest water level, 9.00 ft (2.74 m) below measuring-point datum, Apr. 24, 1981; lowest, 10.13 ft (3.09 m) below measuring-point datum, Oct. 25, 1980.

DEPTH BELOW LAND SURFACE (WATER LEVEL) (FEET), WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	10.00	9.75	9.42	9.66	9.85	9.11	9.18	9.03	9.34	9.68	9.66	9.91
10	10.03	9.81	9.34	9.73	9.95	9.11	9.07	9.05	9.38	9.61	9.73	9.93
15	10.06	9.90	9.36	9.77	9.79	9.14	9.02	9.09	9.45	9.65	9.78	9.99
20	10.10	9.97	9.43	9.84	9.84	9.20	9.00	9.14	9.51	9.71	9.73	---
25	10.13	10.01	9.51	9.90	9.45	9.30	9.01	9.23	9.54	9.71	9.78	---
EOM	9.74	9.69	9.60	9.96	9.22	9.34	9.01	9.28	9.63	9.67	9.85	---
MEAN	10.01	9.87	9.44	9.76	9.74	9.19	9.08	9.13	9.45	9.66	9.74	9.94
MAX	10.13	10.03	9.60	9.96	9.97	9.34	9.35	9.29	9.63	9.72	9.85	10.01
MIN	9.74	9.69	9.34	8.76	9.22	9.10	9.00	9.02	9.30	9.59	9.65	9.86
WTR YR 1981 MEAN 9.57 HIGH 8.76 JAN 14 LOW 10.13 OCT 23 AND OTHERS												

PENOBSCOT COUNTY

451047068512201. Local number, Pe 455.

LOCATION.--Lat 45°10'47", long 68°51'22", Hydrologic Unit 01020005, on Medford Road, about 0.25 mi (0.4 km) north of intersection of State Highway 16, Lagrange.

Owner: Mrs. E. Velna Cowing.

AQUIFER.--Glacial till of Pleistocene age.

WELL CHARACTERISTICS.--Dug domestic and observation water-table well, diameter 36 in (0.91 m), depth 24.2 ft (7.4 m), cased with rock to 24.2 ft (7.4 m), open end.

DATUM.--Altitude of land-surface datum is 410 ft (125 m). Measuring point: Painted nail in north side of windlass housing at land-surface datum.

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

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 2.55 ft (0.95 m) below land-surface datum, Mar. 15, 1979; lowest measured, 15.78 ft (4.60 m) below land-surface datum, Oct. 15, 1978.

WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 15	7.72	DEC 15	5.65	FEB 15	5.74	APR 15	4.79	JUN 14	6.49	AUG 15	8.54
29	6.58	JAN 04	7.84	28	4.70	30	4.76	JUL 01	6.02	29	8.87
NOV 15	6.77	15	8.55	MAR 15	5.25	MAY 13	4.95	14	7.00	SEP 12	10.18
29	3.83	29	9.35	29	6.21	30	5.91	AUG 01	6.95	27	4.77

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 (4.02 km) south of Kenduskeag, near Kenduskeag-Levant town line, Kenduskeag.

Owner: Clarence W. Parker, Jr.

AQUIFER.--Bedrock of Silurian age.

WELL CHARACTERISTICS.--Drilled observation artesian well, diameter 6 in (0.15 m), depth 101 ft (30.8 m), open hole.

DATUM.--Altitude of land-surface datum is 190 ft (57.9 m). Measuring point: Floor of fiberglass shelter at land-surface datum.

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

EXTREMES FOR PERIOD OF RECORD.--Highest water level, 17.49 ft (5.33 m) below land-surface datum, Apr. 30, 1979; lowest, 26.33 ft (8.03 m) below land-surface datum, Nov. 16, 1978.

DEPTH BELOW LAND SURFACE (WATER LEVEL) (FEET), WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	24.47	22.65	---	---	22.16	20.84	20.89	21.23	21.85	22.38	23.75	---
10	23.99	22.62	---	---	22.08	21.05	20.53	21.43	22.08	22.54	23.82	---
15	23.80	22.65	---	22.33	20.80	21.19	20.66	21.56	22.33	22.72	23.95	---
20	23.67	22.71	---	22.58	20.87	21.46	20.81	21.27	22.56	22.92	---	---
25	23.59	22.61	---	22.84	20.79	21.68	21.00	21.32	22.27	23.02	---	22.03
EOM	22.79	20.47	---	23.14	20.80	21.80	21.16	21.66	22.25	23.64	---	21.32
MEAN	23.80	22.43	20.14	22.67	21.45	21.29	20.91	21.38	22.18	22.83	23.78	22.41
MAX	24.60	22.77	20.24	23.14	23.17	21.80	21.82	21.66	22.56	23.64	23.95	24.53
MIN	22.79	20.47	20.04	22.22	20.76	20.77	20.52	21.16	21.72	22.28	23.60	21.32

WTR YR 1981 MEAN 22.18 HIGH 20.04 DEC 3 LOW 24.60 OCT 3

NOTE: NUMBER OF MISSING DAYS OF RECORD EXCEEDED 20% OF YEAR

SOMERSET COUNTY

444219069545801. Local number, Sm 1.

LOCATION.--Lat 44°42'19", long 69°54'58", Hydrologic Unit 01030003, on dirt road, 2.25 mi (3.62 km) north of village of Mercer.

Owner: J. Harrison Farrand.

AQUIFER.--Eolian deposits of late Pleistocene age.

WELL CHARACTERISTICS.--Dug observation water-table well, diameter 60 in (1.52 m), depth 14 ft (4.3 m), cased with rock to 14 ft (4.3 m), open end.

DATUM.--Altitude of land-surface datum is 270 ft (82 m). Measuring point: Nail in top of horizontal timber at northeast corner of well cover, 0.4 ft (0.1 m) above land-surface datum.

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

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

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 3.21 ft (0.98 m) below land-surface datum, Mar. 25, 1979; lowest estimated, 14.1 ft (4.3 m) below land-surface datum, Nov. 30, 1952.

WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 10	9.72	DEC 10	6.26	FEB 25	5.14	APR 25	4.82	JUN 10	5.76	AUG 10	7.52
26	8.59	26	5.77	MAR 10	4.86	MAY 10	5.17	25	7.04	26	7.74
NOV 10	6.45	JAN 11	6.38	25	5.11	11	5.14	JUL 11	6.97	SEP 10	8.09
25	6.04	FEB 10	6.08	APR 10	4.33	25	5.57	25	7.25	25	7.88

WASHINGTON COUNTY

444240067283501. Local number, W 1.

LOCATION.--Lat 44°42'40", long 67°28'35", Hydrologic Unit 01050002, at barn southeast of race track at former fairgrounds on U.S. Highway 1A, 1.0 mi (1.6 km) west of village of Machias.

Owner: Julian A. Johnson.

AQUIFER.--Bedrock of Silurian age.

WELL CHARACTERISTICS.--Drilled artesian stock and observation well, diameter 6 in (0.15 m), depth 54 ft (16.5 m), open hole.

DATUM.--Altitude of land-surface datum is 140 ft (43 m). Measuring point: Top of casing at land-surface datum.

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

PERIOD OF RECORD.--July 1958 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 5.29 ft (1.61 m) below land-surface datum, Apr. 16, 1961; lowest measured, 14.80 ft (4.51 m) below land-surface datum, Oct. 31, 1977.

WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
NOV 11	9.55	JAN 16	10.75	MAR 16	9.83	MAY 05	8.44	JUN 16	10.18	AUG 19	9.25
DEC 01	6.42	29	11.12	30	8.95	16	9.18	30	8.42	31	10.25
16	9.14	FEB 14	7.68	APR 21	8.31	31	9.60	JUL 29	8.89	SEP 19	9.38
30	10.58	28	8.49	28	8.67						

444955067000501. Local number, W 2.

LOCATION.--Lat 44°49'55", long 67°00'05", Hydrologic Unit 01050002, on Maple Tree Road, 1.0 mi (1.6 km) south of State Highway 189, Lubec.

Owner: Lubec Water and Light District.

AQUIFER.--Stratified sand and gravel (end moraine) of Pleistocene age.

WELL CHARACTERISTICS.--Driven artesian observation well, diameter 2.5 in (0.06 m), depth 52 ft (15.8 m), screened 42 to 52 ft (12.8 to 15.8 m).

DATUM.--Altitude of land-surface datum is 50 ft (15 m). Measuring point: Top of casing at land-surface datum.

PERIOD OF RECORD.--July 1958 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 9.31 ft (2.84 m) below land-surface datum, June 14, 1960; lowest measured, 22.30 ft (6.80 m) below land-surface datum, Sept. 30, 1978.

WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 26	18.37	DEC 26	18.20	MAR 25	14.25	MAY 26	13.08	JUL 27	12.73	SEP 26	14.65
NOV 24	17.96	FEB 28	13.28	APR 27	13.51	JUN 25	12.35	AUG 25	13.49		

WASHINGTON COUNTY--Continued

450713067162801. Local number, W 796.

LOCATION.--Lat 45°07'13", long 67°16'28", Hydrologic Unit 01050002, in Calais, on Charlotte Road, about 2.25 mi south of U.S. Highway 1.

Owner: U.S. Government (Moosehorn National Wildlife Refuge).

AQUIFER.--Bedrock of Devonian age.

WELL CHARACTERISTICS.--Drilled observation artesian well, diameter 6 in (0.15 m), depth 150 ft (45.7 m), cased with steel to 28 ft (8.5 m).

DATUM.--Altitude of land-surface datum is about 130 ft (39.6 m). Measuring point: Top of casing at land-surface datum.

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, overflowed Feb. 14, 1981, and Sept. 25, 1981. Feb. 24, 1981; lowest measured, 5.34 ft (1.63 m) below land-surface datum, Sept. 16, 1980.

WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 16	2.10	DEC 15	2.78	FEB 24	0.28	APR 30	1.02	JUN 15	3.19	AUG 19	1.39
20	2.47	23	3.42	MAR 19	3.27	MAY 05	1.82	24	3.39	26	2.39
21	2.53	JAN 16	4.18	24	3.04	18	0.99	JUL 14	3.98	SEP 18	4.64
28	0.81	25	4.65	APR 18	1.44	26	2.30	26	3.56	25	Q
NOV 21	1.04	FEB 14	Q								

Q = Flowing

YORK COUNTY

434822070482501. Local number, Y 1.

LOCATION.--Lat 43°48'22", long 70°48'25", Hydrologic Unit 01060002, on Main Street, about 0.2 mi (0.3 km) east of intersection of State Highways 25 and 5 in Cornish.

Owner: James P. Small.

AQUIFER.--Stratified sand and gravel (outwash) of Pleistocene age.

WELL CHARACTERISTICS.--Dug observation water-table well, diameter 36 in (0.91 m), depth 24 ft (7.3 m), cased with brick to 24 ft (7.3 m), open end.

DATUM.--Altitude of land-surface datum is 370 ft (113 m). Measuring point: Mark chiseled on top of concrete curb at land-surface datum.

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

PERIOD OF RECORD.--November 1943 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level, 7.17 ft (2.19 m) below land-surface datum, Mar. 16, 1977; lowest, 20.02 ft (6.10 m) below land-surface datum, Dec. 31, 1978.

WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	14.54	12.15	9.54	12.99	15.40	--	9.63	10.98	12.28	--	--	15.28
10	14.65	12.38	10.04	13.54	15.51	9.27	9.20	11.00	--	--	--	15.63
15	14.62	12.60	10.74	14.07	15.30	9.45	9.71	11.14	--	--	--	--
20	14.82	13.20	--	14.63	14.90	9.79	10.08	11.32	--	--	--	--
25	--	13.58	11.80	14.94	9.10	10.43	10.53	11.70	13.68	14.38	13.57	15.78
EOM	12.90	11.60	12.45	15.40	9.42	10.58	--	--	--	--	14.98	14.84

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

STATION NUMBER	GEO-LOGIC UNIT	SAMP-LING DEPTH (FT)	DATE OF SAMPLE	SPE-CIFIC CON-DUCT-ANCE LAB (UMHOS)	PH (UNITS)	TEMPER-ATURE (DEG C)	HARD-NESS (MG/L AS CAC03)	HARD-NESS, NONCAR-BONATE (MG/L CAC03)	CALCIUM DIS-SOLVED (MG/L AS CA)	MAGNE-SIUM, DIS-SOLVED (MG/L AS MG)	SODIUM, DIS-SOLVED (MG/L AS NA)
ANDROSCOGGIN COUNTY											
440438070261601	112ICCC	45	81-05-04	50	7.1	9.0	15	--	4.7	.8	2.1
	112ICCC	45	81-05-07	62	6.4	8.0	21	--	6.6	1.2	2.5
AROOSTOOK COUNTY											
460728067513201	112ICCC	42	80-10-21	--	7.2	8.0	54	5	19	1.5	3.3
	112ICCC	42	81-05-06	199	7.5	8.0	74	--	25	2.7	9.8
KENNEBEC COUNTY											
441849069442001	112TILL	22	81-05-11	203	6.3	8.5	51	--	13	4.6	16
SOMERSET COUNTY											
444219069545801	111EOLN	14	81-05-11	101	6.4	7.5	39	--	12	2.2	2.0
WASHINGTON COUNTY											
444240067283501	3008DRK	71	81-05-05	197	6.5	9.5	84	--	30	2.2	6.3
450713067162801	3008DRK	150	80-10-20	--	8.0	8.0	30	0	9.5	1.5	30
	3008DRK	150	81-05-05	193	8.0	9.0	31	--	9.9	1.5	32
YORK COUNTY											
432838070333501	112DFSFE	137	80-12-01	1800	8.5	10.0	57	0	8.8	8.4	420
434822070482501	1120TSH	24	81-05-04	178	6.8	8.5	54	--	19	1.5	9.2

STATION NUMBER	DATE OF SAMPLE	POTAS-SIUM, DIS-SOLVED (MG/L AS K)	ALKA-LINITY LAB (MG/L AS CAC03)	SULFATE DIS-SOLVED (MG/L AS S04)	CHLO-RIDE, DIS-SOLVED (MG/L AS CL)	FLUO-RIDE, DIS-SOLVED (MG/L AS F)	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)	NITRO-GEN, NO2+N03 TOTAL (MG/L AS N)	PHOS-PHORUS, TOTAL (MG/L AS P)
ANDROSCOGGIN COUNTY.--Continued											
440438070261601	81-05-04	.7	22	.4	2.3	<.1	.9	23	25	<.01	.010
	81-05-07	.8	16	2.9	4.3	<.1	14	41	42	.13	<.010
AROOSTOOK COUNTY.--Continued											
460728067513201	80-10-21	1.5	--	.0	6.2	.1	1.8	75	65	.00	.020
	81-05-06	1.7	70	.1	17	.1	2.4	106	103	.01	<.010
KENNEBEC COUNTY.--Continued											
441849069442001	81-05-11	1.7	17	14	38	<.1	11	118	109	.24	<.010
SOMERSET COUNTY.--Continued											
444219069545801	81-05-11	2.5	33	8.5	3.1	<.1	6.3	61	57	.09	.230
WASHINGTON COUNTY.--Continued											
444240067283501	81-05-05	2.1	81	8.6	4.1	<.1	15	117	118	.12	<.010
450713067162801	80-10-20	.4	--	15	12	.4	8.6	117	114	.02	.020
	81-05-05	.4	58	14	13	.4	13	115	119	.09	.010
YORK COUNTY.--Continued											
432838070333501	80-12-01	7.1	320	62	330	3.1	9.9	990	1040	.00	.320
434822070482501	81-05-04	6.5	26	15	9.8	<.1	6.4	114	83	5.0	.03

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

STATION NUMBER	DATE OF SAMPLE	PHOS-PHORUS TOTAL (MG/L AS P04)	ARSENIC DIS-SOLVED (UG/L AS AS)	BERYL-LIUM, DIS-SOLVED (UG/L AS BE)	CADMIUM DIS-SOLVED (UG/L AS CD)	CHRO-MIUM, DIS-SOLVED (UG/L AS CR)	COPPER, DIS-SOLVED (UG/L AS CU)	IRON, TOTAL RECOV-ERABLE (UG/L AS FE)	IRON, SUS-PENDED RECOV-ERABLE (UG/L AS FE)	IRON, DIS-SOLVED (UG/L AS FE)	LEAD, DIS-SOLVED (UG/L AS PB)
ANDROSCOGGIN COUNTY.--Continued											
440438070261601	81-05-04 81-05-07	.03 .03	-- --	-- --	-- --	-- --	-- --	-- 520	-- 420	-- 100	-- --
AROOSTOOK COUNTY.--Continued											
460728067513201	80-10-21 81-05-06	.06 .03	-- 0	-- <1	-- 13	-- 10	-- 2	5800 3600	3900 1700	1900 1900	-- 34
KENNEBEC COUNTY.--Continued											
441849069442001	81-05-11	.03	--	--	--	--	--	140	120	20	--
SOMERSET COUNTY.--Continued											
444219069545801	81-05-11	.71	--	--	--	--	--	2100	1600	470	--
WASHINGTON COUNTY.--Continued											
444240067283501	81-05-05	.03	--	--	--	--	--	2900	2000	920	--
450713067162801	80-10-20 81-05-05	.06 .03	-- --	-- --	-- --	-- --	-- --	12000 2900	12000 2900	50 20	-- --
YORK COUNTY.--Continued											
432838070333501	80-12-01	.98	--	--	--	--	--	640	640	0	--
434822070482501	81-05-04	.09	--	--	--	--	--	110	90	20	--

STATION NUMBER	DATE OF SAMPLE	MANGA-NESE, TOTAL RECOV-ERABLE (UG/L AS MN)	MANGA-NESE, SUS-PENDED RECOV. (UG/L AS MN)	MANGA-NESE, DIS-SOLVED (UG/L AS MN)	MERCURY DIS-SOLVED (UG/L AS HG)	NICKEL, DIS-SOLVED (UG/L AS NI)	SELE-NIUM, DIS-SOLVED (UG/L AS SE)	ZINC, DIS-SOLVED (UG/L AS ZN)	POTAS-SIUM 40 DIS-SOLVED (PCI/L AS K40)	CARBON, ORGANIC TOTAL (MG/L AS C)
ANDROSCOGGIN COUNTY.--Continued										
440438070261601	81-05-04 81-05-07	-- 20	-- 10	-- 10	-- --	-- --	-- --	-- --	.50 .60	-- .2
AROOSTOOK COUNTY.--Continued										
460728067513201	80-10-21 81-05-06	230 300	10 0	220 310	-- <.1	-- 3	-- 0	-- 40	-- 1.3	7.8 4.8
KENNEBEC COUNTY.--Continued										
441849069442001	81-05-11	20	20	3	--	--	--	--	1.3	1.6
SOMERSET COUNTY.--Continued										
444219069545801	81-05-11	340	180	160	--	--	--	--	1.9	4.0
WASHINGTON COUNTY.--Continued										
444240067283501	81-05-05	30	0	40	--	--	--	--	1.6	.4
450713067162801	80-10-20 81-05-05	60 20	20 20	40 1	-- --	-- --	-- --	-- --	-- .30	8.5 .3
YORK COUNTY.--Continued										
432838070333501	80-12-01	20	0	20	--	--	--	--	--	2.2
434822070482501	81-05-04	20	20	1	--	--	--	--	4.8	2.0

	Page		Page
Accuracy of field data and computed results..	13	Jock Stream at South Monmouth.....	122
Algae, definition of.....	5	Johnson Brook at South Albion.....	107
Allagash River near Allagash.....	24-25		
Ambajejus Lake, contents of.....	97	Kennebec River at Bingham.....	103
Androscoggin River, at Brunswick.....	150-157	at Moosehead.....	100
at Errol, NH.....	127	at North Sidney.....	108-119
at Rumford.....	136	at The Forks.....	101
at Turner Bridge.....	139-141	Kennebec River basin:	
near Auburn.....	149	gaging-station records in.....	99-124
Androscoggin River basin:		reservoirs in.....	99, 123, 125
gaging-station records in.....	126-157		
reservoirs in.....	158	Lake Auburn, contents of.....	158
Aquifer, definition of.....	5	Lakes and reservoirs:	
Aroostook River at Caribou.....	41-48	Ambajejus Lake.....	97
at Washburn.....	40	Auburn Lake.....	158
near Masardis.....	38	Azischohos Lake.....	158
Artesian, definition of.....	5	Brassua Lake.....	125
Azischohos Lake, contents of.....	158	Caribou Lake.....	97
		Chamberlain Lake.....	97
Bacteria, definition of.....	5	Chesuncook Lake.....	97
Bald Mountain Brook near Bald Mountain.....	28	Cobbosseecontee Lake at East Winthrop....	123
Bed material, definition of.....	5	Elbow Lake.....	97
Big Black River near Seven Islands.....	19	First Roach Pond.....	125
Brassua Lake, contents of.....	125	Flagstaff Lake.....	125
		Grand Lake.....	97
Caribou Lake, contents of.....	97	Gulf Island Pond.....	158
Carrabassett River near North Anson.....	104	Indian Pond.....	125
Cells/volume, definition of.....	5	Moose Pond.....	97
Cfs-day, definition of.....	5	Moosehead Lake at East Outlet.....	99
Chamberlain Lake, contents of.....	97	Mooselookmeguntic Lake.....	158
Chemical oxygen demand, definition of.....	6	Moxie Pond.....	125
Chesuncook Lake, contents of.....	97	North Twin Lake.....	97
Chlorophyll, definition of.....	6	Pemadumcook Lake.....	97
Cobbosseecontee Lake at East Winthrop.....	123	Rangeley Lake.....	158
Cobbosseecontee Stream at Gardiner.....	124	Richardson Lakes.....	158
Collyer Brook near Gray.....	159	Ripogenus Lake.....	97
Color, definition of.....	6	Round Pond.....	97
Computation, accuracy of results of.....	13	Sebec Lake.....	97
Contents, definition of.....	6	Second Lake.....	97
Control, definition of.....	6	South Twin Lake.....	97
Control structure, definition of.....	6	Telos Lake.....	97
Cooperation.....	1	Thompson Lake.....	158
Cubic feet per second per square mile,		Umbagog Lake.....	158
definition of.....	6	Wyman Pond.....	125
Cubic foot per second, definition of.....	6	Land surface datum, definition of.....	7
		Little Androscoggin River near Auburn.....	148
Data, accuracy of.....	13	near South Paris.....	145
explanation of.....	11-15	Little Black River near Dickey.....	21
Dead River near Dead River.....	102	Little Ossipee River near South Limington..	185
Dennys River at Dennysville.....	66		
Diamond River near Wentworth Location, NH....	126	Machias River (tributary to Aroostook River)	
Discharge, definition of.....	6	near Ashland.....	39
Dissolved, definition of.....	6	Marley Brook near Ludlow.....	49
Diversity index, definition of.....	6	Mattawamkeag River near Mattawamkeag.....	79
Drainage area, definition of.....	6	Measuring point, definition of.....	7
Drainage basin, definition of.....	6	Meduxnekeag River near Houlton.....	50
		Methylene blue active substance,	
Elbow Lake, contents of.....	97	definition of.....	7
Ellis River at South Andover.....	135	Micrograms per kilogram, definition of....	7
		Micrograms per liter, definition of.....	7
First Roach Pond, contents of.....	125	Milligrams per liter, definition of.....	7
Fish River near Fort Kent.....	29	Mill Stream at Winthrop.....	121
Flagstaff Lake, contents of.....	125	Miscellaneous measurements of streamflow... 188-189	
		of water temperature and specific	
Gage height, definition of.....	6	conductance.....	190-196
Gaging station, definition of.....	6	Moose Pond, contents of.....	97
Garland Brook near Mariaville.....	76	Moosehead Lake at East Outlet.....	99
Grand Lake, contents of.....	97	Mooselookmeguntic Lake, contents of.....	158
Grand Lake Stream at Grand Lake Stream.....	52	Mousam River near West Kennebunk.....	186
Ground water, analyses of.....	209-210	Moxie Pond, contents of.....	125
Ground-water levels.....	197-208		
Gulf Island Pond.....	142-144, 158	Narraguagus River at Cherryfield.....	68-75
		National Geodetic Vertical Datum of 1929	
Hardness, definition of.....	6	(NGVD), definition of.....	7
Hydrologic bench-mark station,		National stream-quality accounting network,	
definition of.....	11	definition of.....	11
Hydrologic conditions.....	3	Nezinscot River at Turner Center.....	138
graph of.....	4	North Twin Lake, contents of.....	97
Hydrologic unit, definition of.....	6		
		Indian Pond contents of.....	125

	Page		Page
Order of listing gaging stations.....	10	St. Francis River at outlet of Glasier Lake, near Connors, New Brunswick.....	27
Organism, definition of.....	7	St. John River at Dickey.....	22-23
Organism count/area, definition of.....	7	at Lincoln School.....	26
Organism count/volume, definition of.....	7	at Ninemile Bridge.....	17-18
Ossipee River at Cornish.....	175	at Van Buren.....	31-37
at Effingham Falls, NH.....	174	below Fish River at Fort Kent.....	30
Partial-record station, definition of.....	7	St. John River basin: gaging-station records in.....	17-50
Particle size, definition of.....	7	Salmon Falls River at Milton, NH.....	187
Particle size classification, definition of..	7	Seabasticook River near Pittsfield.....	106
Pemadumcook Lake, contents of.....	97	Sebec Lake, contents of.....	97
Pennesseewassee Lake Outlet at Norway.....	146	Sebec River at Sebec.....	81
Penobscot River at Eddington.....	84-96	Second Lake, contents of.....	97
at West Enfield.....	83	Sediment, definition of.....	8
East Branch at Grindstone.....	77	Sheepscot River at North Whitefield.....	98
near Mattawamkeag.....	78	Shields Branch Big Black River near Seven Islands.....	20
Penobscot River basin: gaging-station records in.....	77-96	Sodium-adsorption ratio, definition of.....	8
reservoirs in.....	97	Solute, definition of.....	8
Percent composition, definition of.....	7	South Twin Lake, contents of.....	97
Periphyton, definition of.....	7	Specific conductance, definition of.....	8
Pesticides, definition of.....	7	Stage-discharge relation, definition of.....	8
Pesticides program, definition of.....	11	Stations, location of.....	2
pH, definition of.....	7	Station numbers.....	10
Phytoplankton, definition of.....	7	Streamflow, definition of.....	8
Picocurie, definition of.....	8	Substrate, definition of.....	8
Piscataquis River at Medford.....	82	Surface area, definition of.....	9
near Dover-Foxcroft.....	80	Surficial bed material, definition of.....	9
Plankton, definition of.....	8	Suspended, definition of.....	9
Pleasant River near Epping.....	67	Suspended recoverable, definition of.....	9
Polychlorinated biphenyls, definition of....	8	Suspended, total, definition of.....	9
Presumpscot River basin: gaging-station records in.....	161-172	Swift River near Roxbury.....	137
Presumpscot River near West Falmouth.....	162-172	Tanning Brook, North Branch, near Manchester.....	120
Publication of streamflow records by Geological Survey.....	1	Taxonomy, definition of.....	9
Radiochemical program definition of.....	11	Telos Lake, contents of.....	97
Rangeley Lake, contents of.....	158	Terms, definition of.....	3, 5-10
Recoverable from bottom material, definition of.....	5	Thompson Lake, contents of.....	158
Reservoirs, see Lakes and Reservoirs.....	211	Thompson Lake Outlet at Oxford.....	147
Richardson Lakes, contents of.....	158	Time-weighted average, definition of.....	9
Ripogenus Lake, contents of.....	97	Tons per day, definition of.....	9
Round Pond, contents of.....	97	Total, definition of.....	9
Royal River at Yarmouth.....	160	Total in bottom material, definition of.....	5
Royal River basin: gaging station records in.....	159-160	Total load, definition of.....	10
Runoff in inches, definition of.....	8	Total, recoverable, definition of.....	9
Saco River at Cornish.....	176-184	Umbagog Lake, contents of.....	158
near Conway, NH.....	173	Wells, description of.....	197-208
Saco River basin: gaging-station records in	173-185	numbers of.....	10
St. Croix River at Baring.....	54	water-level measurements in.....	197-208
at Milltown.....	55-65	water quality in.....	209-210
at Vanceboro.....	51	Wild River at Gilead.....	129-134
near Baileyville.....	53	Wilson Stream at East Wilson.....	105
St. Croix River basin: gaging-station records in.....	51-65	WDR, definition of.....	10
		WSP, definition of.....	10
		Wyman Pond, contents of.....	125

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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