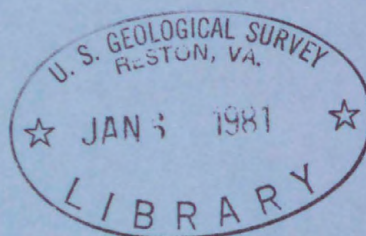


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1975

Water Resources Data for Maine

Water Year 1975



U.S. GEOLOGICAL SURVEY WATER-DATA REPORT ME-75-1

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

CALENDAR FOR WATER YEAR 1975

1974

OCTOBER

S	M	T	W	T	F	S
		1	2	3	4	5
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1975

JANUARY

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AUGUST

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31						

SEPTEMBER

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28	29	30				

Water Resources Data for Maine Water Year 1975



U.S. GEOLOGICAL SURVEY WATER-DATA REPORT ME-75-1

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and with other agencies**

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Preface

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

This report is one of a series issued State by State under the general direction of J. S. Cragwell, Jr., Chief Hydrologist, and G. W. Whetstone, Assistant Chief Hydrologist for Scientific Publications and Data Management.

UNITED STATES DEPARTMENT OF THE INTERIOR

THOMAS S. KLEPPE, Secretary

GEOLOGICAL SURVEY

V. E. McKelvey, Director

Prepared in cooperation with

Androscoggin Valley Regional Planning Commission
Corps of Engineers, U. S. Army
Greater Portland Council of Governments
Maine Department of Environmental Protection
Maine Department of Transportation
Maine Public Utilities Commission
Southern Kennebec Valley Regional Planning Commission
Southern Maine Regional Planning Commission
U. S. Department of State
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1976

CONTENTS

	Page
List of surface-water stations, in downstream order, for which records are published	VI
List of water-quality stations, in downstream order, for which records are published	VIII
List of ground-water wells, by county, for which records are published	VIII
Introduction	1
Cooperation	2
Definition of terms	3
Special network and programs	8
Downstream order and station numbers	9
Explanation of surface-water records	10
Collection and computation of data	10
Accuracy of data	13
Publications	14
Other data available	15
Explanation of water-quality records	15
Collection and examination of data	15
Solutes	16
Temperature	17
Publications	17
Explanation of ground-water level records	18
Collection and reporting of data	18
Publications	18
Hydrologic conditions	19
Selected references	20
Conversion table, English Units to International System Units	24
Surface-water and water-quality records	25
Discharge at partial-record stations and miscellaneous sites	159
Measurements made at miscellaneous sites	159
Water analyses of field-measured samples	165
Ground-water records	167
Index	171

ILLUSTRATIONS

Figure 1. Comparison of discharge at three long-term index gaging stations during 1975 water year with median discharge for period 1931-60	22
2. Location of stations	23

SURFACE-WATER STATIONS, IN DOWNSTREAM ORDER, FOR WHICH
RECORDS ARE PUBLISHED

	Page
<u>ST. JOHN RIVER BASIN</u>	
St. John River at Ninemile Bridge, Maine	26
St. John River at Dickey, Maine	27
Allagash River near Allagash, Maine	31
St. Francis River at outlet of Glasier Lake, near Connors, New Brunswick	35
Fish River near Fort Kent, Maine	36
St. John River below Fish River, at Fort Kent, Maine	37
Aroostook River near Masardis, Maine	38
Machias River near Ashland, Maine	39
Aroostook River at Washburn, Maine	40
Meduxnekeag River:	
Timoney Lake Outlet Stream:	
Marley Brook near Ludlow, Maine	48
Meduxnekeag River near Houlton, Maine	49
<u>ST. CROIX RIVER BASIN</u>	
St. Croix River at Vanceboro, Maine.	50
Grand Lake Stream at Grand Lake Stream, Maine	51
St. Croix River near Baileyville, Maine	52
St. Croix River at Baring, Maine	53
<u>DENNYS RIVER BASIN</u>	
Dennys River at Dennysville, Maine	65
<u>MACHIAS RIVER BASIN</u>	
Machias River at Whitneyville, Maine	66
<u>NARRAGUAGUS RIVER BASIN</u>	
Narraguagus River at Cherryfield, Maine	67
<u>UNION RIVER BASIN</u>	
West Branch Union River at Amherst, Maine	68
Garland Brook near Mariaville, Maine	69
<u>PENOBSCOT RIVER BASIN</u>	
Penobscot River:	
East Branch Penobscot River at Grindstone, Maine	70
Penobscot River near Mattawamkeag, Maine	71
Mattawamkeag River near Mattawamkeag, Maine	72
Piscataquis River near Dover-Foxcroft, Maine	73
Morrison Brook near Sebec Corners, Maine	74
Sebec River at Sebec, Maine.	75
Pleasant River near Milo, Maine	76
Piscataquis River at Medford, Maine	77
Penobscot River at West Enfield, Maine	78
Passadumkeag River at Lowell, Maine	89
Kenduskeag Stream near Kenduskeag, Maine	90
Reservoirs in Penobscot River basin	91
<u>SHEEPSCOT RIVER BASIN</u>	
Sheepscot River at North Whitefield, Maine	92
<u>KENNEBEC RIVER BASIN</u>	
Moose River (head of Kennebec River):	
Moosehead Lake at East Outlet, Maine	97
Kennebec River at Moosehead, Maine	98
Kennebec River at The Forks, Maine	99

KENNEBEC RIVER BASIN-ContinuedKennebec River--Continued

Dead River near Dead River, Maine	100
Dead River at The Forks, Maine	101
Kennebec River at Bingham, Maine	102
Carrabassett River near North Anson, Maine	109
Sandy River near Mercer, Maine	110
Sebasticook River near Pittsfield, Maine	111

Bond Brook:Tanning Brook:

North Branch Tanning Brook near Manchester, Maine	112
Reservoirs in Kennebec River basin	113

ANDROSCOGGIN RIVER BASINAndroscoggin River:Umbagog Lake:Magalloway River:

Diamond River near Wentworth Location, N. H.	114
Androscoggin River at Errol, N. H.	115
Androscoggin River near Gorham, N. H.	116
Wild River at Gilead, Maine	117
Ellis River at South Andover, Maine	121
Androscoggin River at Rumford, Maine	122
Swift River near Roxbury, Maine	123
Nezinscot River at Turner Center, Maine	124
Little Androscoggin River near South Paris, Maine	125
Thompson Lake Outlet at Oxford, Maine	126
Little Androscoggin River near Auburn, Maine	127
Androscoggin River near Auburn, Maine	128
Sabattus River near Lisbon Center, Maine	137
Reservoirs in Androscoggin River basin	138

ROYAL RIVER BASINRoyal River:

Collyer Brook near Gray, Maine	139
Royal River at Yarmouth, Maine	140

PRESUMPCOT RIVER BASIN

Crooked River near Naples, Maine	141
Presumpscot River at outlet of Sebago Lake, Maine	142

STROUDWATER RIVER BASIN

Stroudwater River at South Portland, Maine	143
--	-----

SACO RIVER BASIN

Saco River near Conway, N. H.	144
Ossipee River at Effingham Falls, N. H.	145
Ossipee River at Cornish, Maine	146
Saco River at Cornish, Maine	147
Little Ossipee River near South Limington, Maine	155

MOUSAM RIVER BASIN

Mousam River near West Kennebunk, Maine	156
---	-----

WEBHANNET RIVER BASINWebhannet River:

Blacksmith Brook at Wells, Maine	157
--	-----

PISCATAQUA RIVER BASIN

Salmon Falls River (head of Piscataqua River) at Milton, N. H.	158
--	-----

VIII WATER-QUALITY STATIONS, IN DOWNSTREAM ORDER, FOR WHICH
RECORDS ARE PUBLISHED

*[Letters after station name designate type of data: (b) biological
(c), chemical; (t), water temperature; (s) sediment]*

<u>ST. JOHN RIVER BASIN</u>	
St. John River at Dickey, Maine (ct)	28
Allagash River near Allagash, Maine (ct)	32
<u>AROOSTOOK RIVER BASIN</u>	
Aroostook River at Caribou, Maine (bcts)	41
<u>ST. CROIX RIVER BASIN</u>	
St. Croix River at Baring, Maine (t)	54
St. Croix River at Milltown, Maine (bcts)	55
<u>PENOBSCOT RIVER BASIN</u>	
Penobscot River at West Enfield, Maine (bcts)	79
<u>SHEEPSCOT RIVER BASIN</u>	
Sheepscot River at North Whitefield, Maine (ct)	93
<u>KENNEBEC RIVER BASIN</u>	
Kennebec River at Bingham, Maine (bcts)	103
<u>ANDROSCOGGIN RIVER BASIN</u>	
Androscoggin River:	
Wild River at Gilead, Maine (bcts)	118
Androscoggin River near Auburn, Maine (bcts)	129
<u>SACO RIVER BASIN</u>	
Saco River at Cornish, Maine (bcts)	148

GROUND-WATER WELLS, BY COUNTY, FOR WHICH
RECORDS ARE PUBLISHED

<u>ANDROSCOGGIN COUNTY</u>	
Auburn (An 1)	168
<u>AROOSTOOK COUNTY</u>	
Portage (Ar 1)	168
Houlton (Ar 3)	168
<u>CUMBERLAND COUNTY</u>	
Brunswick (C 26)	168
<u>HANCOCK COUNTY</u>	
Amherst (H 1)	168
<u>KENNEBEC COUNTY</u>	
Winthrop (K 88)	168
Augusta (K 52)	168
<u>OXFORD COUNTY</u>	
Middle Dam (O 400)	169
<u>SOMERSET COUNTY</u>	
Mercer (Sm 1)	169
<u>WASHINGTON COUNTY</u>	
Machias (W 1)	169
Lubec (W 2)	169
<u>YORK COUNTY</u>	
Cornish (Y 1)	169

WATER RESOURCES DATA FOR MAINE, 1975

- Section 1. Surface-Water and Water-Quality Records
- Section 2. Ground-Water Records

INTRODUCTION

Water resources data for the 1975 water year for Maine consist of records of stage, discharge, and water quality of streams; stage and contents of lakes and reservoirs; and water-levels and water quality of wells. This report contains discharge records for 65 gaging stations; stage only records for 1 gaging station; contents for 17 lakes and reservoirs; water quality for 33 gaging stations and 11 wells; and water levels for 12 observation wells. Additional water data were collected at various sites, not part of the systematic data collection program, and are published as miscellaneous measurements. These data represent that part of the National Water Data System operated by the U.S. Geological Survey and cooperating State and Federal agencies.

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 water year 1960, these water-supply papers were in an annual series and 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".

Beginning with the 1961 water year and continuing through water year 1974, streamflow data have been released by the Geological Survey in annual reports on a State-boundary basis. Water-quality records beginning with the 1968 water year, and ground-water data since the 1971 water year have been similarly released either in separate reports or in conjunction with streamflow records. These reports provided rapid release of preliminary water data shortly after the end of the water year. The final data were then released in the water-supply paper series mentioned above. Beginning with the 1975 water year, water data will be released on a State-boundary basis in final form and will not be republished in the water-supply paper series. The 1975 and subsequent water year reports will be in a series which will carry an identification number consisting of the two-letter State abbreviation, the last two digits of the water year, and the volume number. For example, this report is identified as "U.S. Geological Survey Water-Data Report ME-75-1". These reports are for sale to the public for a nominal fee from the National Technical Information Service, U.S. Department of Commerce, Springfield, Virginia, 22151. For more information on publications available, see "PUBLICATIONS" on a subsequent page.

COOPERATION

The U.S. Geological Survey and organizations of the State of Maine have had cooperative agreements for the systematic collection of stream-flow records since 1909, and for water-quality and ground-water records since 1957. Organizations that supplied data are acknowledged in station descriptions or in footnotes to tables. Organizations that assisted in collecting data through cooperative agreement with the Survey are:

Maine Public Utilities Commission, P. A. Bradford, Chairman, succeeded by L. H. Stanley.
Maine Department of Transportation, R. L. Mallar, Commissioner.
Maine Department of Environmental Protection, W. R. Adams, Jr., Commissioner.
Androscoggin Valley Regional Planning Commission, C. H. Varney, Chairman.
Greater Portland Council of Governments, R. Jordan, Chairman, succeeded by E. L. Bernstein.
Southern Kennebec Valley Regional Planning Commission, P. G. Poulin, Chairman, succeeded by C. R. Bragdon.
Southern Maine Regional Planning Commission, H. W. Reynolds, Chairman, succeeded by D. B. Ofner.

Assistance in the form of funds or services was given by the U. S. Department of State in collecting records published herein for 5 gaging stations; U. S. Environmental Protection Agency for 1 water-quality station; and Corps of Engineers, U. S. Army, for 3 water-quality stations.

The following organizations aided in collecting records:

Bangor Hydro-Electric Company
Kennebec Water Power Company
Georgia-Pacific Corporation
Union Water Power Company

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".

DEFINITION OF TERMS

The terms related to streamflow, water-quality, and other hydrologic data, as used in this report, are defined below. See also table for converting English Units to International System (SI) Units on page 24.

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, approximately 1.9835 acre-feet, or about 646,000 gallons or 2,445 cubic metres. It represents a runoff of approximately 0.0372 inch from 1 square mile or 0.3468 millimetre from 1 square kilometre.

Chemical oxygen demand (COD) indicates the quantity of oxidizable compounds in water and varies with water composition(s), temperature, period of contact, and other factors.

Coliform organisms are a group of bacteria used as an indicator of the sanitary quality of the water. The number of coliform colonies per 100 millilitres is determined by the immediate or delayed incubation membrane filter method. The letter "B" preceding coliform data indicates that the number of colonies is based on a non-ideal colony count.

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.

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) is the rate of discharge representing a volume of 1 cubic foot (0.02832 cubic metres) passing a given point during 1 second and is equivalent to 7.48 gallons per second (0.03832 cubic metres per second) or 448.8 gallons per minute (1.69 cubic metres per minute).

Discharge is the volume of water (or more broadly, total fluids), that passes a given point within a given period of time.

Mean discharge is the arithmetic average of individual daily mean discharges during a specific period.

Instantaneous discharge is the discharge at a particular instant of time. If this discharge is reported instead of the daily mean, the heading of the discharge column in the tables is "Discharge (ft³/s)."

Dissolved refers to the amount of a substance present in true chemical solution. In practice, however, the term includes all forms of the substance that will pass through a 0.45-micrometric membrane filter, and thus may include some very small (colloidal) suspended particles. Analyses are performed on filtered samples.

Drainage area of a stream at a specified 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.

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 gage height or discharge are obtained. When used in connection with a discharge record, the term is applied only to those gaging stations where a continuous record of discharge is obtained.

Hardness of water is a physical-chemical characteristic attributable to the presence of alkaline earths (principally calcium and magnesium) and is expressed as equivalent calcium carbonate (CaCO_3).

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

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

Micrograms per litre ($\mu\text{g/l}$, UG/L) is a more precise unit for expressing the concentration of chemical constituents in solution. One thousand micrograms per litre is equivalent to one milligram per litre. See below.

Milligrams per litre (MG/L , mg/l) is a unit for expressing the concentration of chemical constituents in solution. Milligrams per litre represents the weight of solute per unit volume of water. Milligrams or micrograms per litre may be converted to milliequivalents (one thousandth of a gram-equivalent weight of a constituent) per litre by multiplying by the factors in table 1, page 7. Concentration of suspended sediment also is expressed in mg/l , and is based on the weight of sediment per litre of water-sediment mixture. Sediment concentrations may be converted to parts per million by using the factors in table 2.

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

Periphyton refers to organisms that grow or live around or upon submerged solid surfaces.

Phytoplankton are the organisms that drift passively with the currents in a body of water. Taxonomic identifications are presented in the tables using the following format:

PHYLUM
 Class
 ..Order
 ...Family
 Genus

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 discharge 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 is discharged in a given time. It is computed by multiplying discharge times mg/l times 0.0027.

Total sediment discharge or total sediment load 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.

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 litre of water-sediment mixture (mg/l).

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 centimetre at 25°C. Because the specific conductance is related to the number and specific chemical types of ions in solution, it can be used for approximating the dissolved-solids content in the water. Commonly, the amount of dissolved solids (in milligrams per litre) is about 65 percent of the 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 and the volume of water per unit of time, flowing in a channel.

Thermograph is a thermometer that continuously and automatically records, on a chart, the water temperature of a stream. "Temperature recorder" is the term used to indicate the presence of a thermograph or a digital mechanism that automatically records water temperatures on paper tape.

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 analyses) refers to the amount of a substance that is present both in solution and in suspension. Analyses are performed on representative samples of water-suspended sediment mixtures.

Weighted average is used in this report to indicate discharge-weighted average. It is computed by multiplying the discharge for a sampling period by the concentrations of individual constituents for the corresponding period and dividing the sum of the products by the sum of the discharges. A discharge-weighted average approximates the composition of water that would be found in a reservoir containing all the water passing a given location during the water year after thorough mixing in the reservoir. See also table for converting English Units to International Units on page 24.

WRD is used as an abbreviation for "Water-Resources Data" in the summary REVISIONS paragraph to refer to previously published State annual basic-data reports.

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

Table 1.--Factors for conversion of chemical constituents in milligrams or micrograms per litre to milliequivalents per litre

<u>Ion</u>	<u>Multi- ply by</u>	<u>Ion</u>	<u>Multi- ply by</u>
Aluminum (Al^{+3})*...	0.11119	Iodide (I^{-1}).....	0.00788
Ammonia as NH_4^{+1} ...	.05544	Iron (Fe^{+3})*.....	.05372
Barium (Ba^{+2}).....	.01456	Lead (Pb^{+2})*.....	.00965
Bicarbonate (HCO_3^{-1})	.01639	Lithium (Li^{+1})*....	.14411
Bromide (Br^{-1}).....	.01251	Magnesium (Mg^{+2})..	.08226
Calcium (Ca^{+2}).....	.04990	Manganese (Mn^{+2})*.	.03640
Carbonate (CO_3^{-2})..	.03333	Nickel (Ni^{+2})*....	.03406
Chloride (Cl^{-1}).....	.02821	Nitrate (NO_3^{-1})...	.01613
Chromium (Cr^{+6})*...	.11539	Nitrite (NO_2^{-1})...	.02174
Cobalt (Co^{+2})*.....	.03394	Phosphate (PO_4^{-3})..	.03159
Copper (Cu^{+2})*.....	.03148	Potassium (K^{+1})...	.02557
Cyanide (CN^{-1})*.....	.03844	Sodium (Na^{+1}).....	.04350
Fluoride (F^{-1}).....	.05264	Strontium (Sr^{+2})*.	.02283
Hydrogen (H^{+1}).....	.99209	Sulfate (SO_4^{-2})...	.02082
Hydroxide (OH^{-1})...	.05880	Zinc (Zn^{+2})*.....	.03060

*Constituent reported in micrograms per litre; multiply by factor and divide results by 1,000.

Table 2.--Factors for conversion of sediment concentration in milligrams per litre to parts per million*

(All values calculated to three significant figures)

Range of concen- tration in 1000 mg/l	Di- vide by	Range of concen- tration in 1000 mg/l	Di- vide by	Range of concen- tration in 1000 mg/l	Di- vide by	Range of concen- tration in 1000 mg/l	Di- vide by
0 - 8	1.00	201-217	1.13	411-424	1.26	619-634	1.39
8.05- 24	1.01	218-232	1.14	427-440	1.27	636-650	1.40
24.2 - 40	1.02	234-248	1.15	443-457	1.28	652-666	1.41
40.5 - 56	1.03	250-264	1.16	460-473	1.29	668-682	1.42
56.5 - 72	1.04	266-280	1.17	476-489	1.30	684-698	1.43
72.5 - 88	1.05	282-297	1.18	492-506	1.31	700-715	1.44
88.5 - 104	1.06	299-313	1.19	508-522	1.32	717-730	1.45
105 - 120	1.07	315-329	1.20	524-538	1.33	732-747	1.46
121 - 136	1.08	331-345	1.21	540-554	1.34	749-762	1.47
137 - 152	1.09	347-361	1.22	556-570	1.35	765-780	1.48
153 - 169	1.10	363-378	1.23	572-585	1.36	782-796	1.49
170- - 185	1.11	380-393	1.24	587-602	1.37	798-810	1.50
186 - 200	1.12	395-409	1.25	604-617	1.38		

*Based on water density of 1.000 g/ml and a specific gravity of sediment of 2.65.

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 is an accounting 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 in the network design. Areal configuration of the network is based on river-basin accounting units 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 water-quality conditions nationwide on a year-by-year basis and (2) to detect and assess long-term changes in stream quality.

Pesticide program is a network of regularly sampled water-quality stations where additional monthly samples are collected to determine the concentration and distribution of pesticides in streams whose waters are used for irrigation or in streams in areas where potential contamination could result from the application of the commonly used insecticides and herbicides.

Pesticides are chemical compounds used to control the growth of undesirable plants and animals. Major categories of pesticides include insecticides, miticides, fungicides, herbicides, and rodenticides. Since the first application of DDT as an insecticide in the early 1930's, there have been almost 60,000 pesticide formulations registered, each containing at least one of the approximately 800 different basic pesticide compounds. The United States annually produces about 1 billion pounds of these compounds. Although efforts are being made to substitute many of the chlorinated hydrocarbon pesticides with more specific, fast-acting, and easily degradable compounds, chlorinated hydrocarbon pesticides are still commonly used in many areas of the country.

Radiochemical program is a network of regularly sampled water quality stations where additional samples are collected monthly or twice a year (at high and low flow) to be analyzed for radioisotopes. The streams that are sampled represent major drainage basins in the conterminous United States.

Radioisotopes are isotope forms of an element that exhibit radioactivity. Isotopes are varieties of a chemical element that differ in atomic weight, but are very nearly alike in chemical properties. The difference arises because the atoms of the isotopic forms of an element differ in the number of neutrons in the nucleus. For example: Ordinary chlorine is a mixture of isotopes having atomic weights 35 and 37, with the natural mixture having atomic weight about 35.453. Many of the elements similarly exist as mixtures of isotopes, and a great many new isotopes have been produced in the operation of nuclear devices such as the cyclotron (Rose, 1966). There are 275 isotopes of the 81 stable elements in addition to over 800 radioactive isotopes.

Radioisotopes that are determined in this program are natural uranium in ug/l (micrograms per litre), radium as radium - 226 in PC/L, (pCi/l, picocuries per litre), gross beta radiation as equivalent strontium/yttrium-90 or cesium-137 in PC/L, and gross alpha radiation as micrograms of uranium equivalent per litre (ug/l). Gross alpha and beta radioactivity associated with the fine grained (silt and clay sized) sediments in the samples are also determined.

A picocurie (PC,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).

DOWNSTREAM ORDER AND STATION NUMBERS

Records are listed in a downstream direction along the main stream, and stations on tributaries are listed between stations on the main stream in the order in which those tributaries enter the main stream. Stations on tributaries entering above all mainstream stations are listed before the first mainstream station. Stations on tributaries to tributaries are listed in a similar manner. In the lists of gaging stations and water-quality stations in the front of this report the rank of tributaries is indicated by indention, each indention representing one rank.

As an added means of identification, each gaging station, partial-record station, and water-quality station has been assigned a station number. These are in the same downstream order used in this report. In assigning station numbers, no distinction is made between partial-record stations and continuous-record gaging stations; therefore, the station number for a partial-record station indicates downstream order position in a list made up of both types of stations. Water-quality stations located at or near gaging stations or partial-record stations have the same number as the gaging station or partial-record station. Gaps are left in the 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 03335500, which appears just to the left of the station name includes the 2-digit part number "03" plus the 6-digit downstream order number "335500". In this report, the records are listed in downstream order by parts. All records for a drainage basin encompassing more than one State could be arranged in downstream order by assembling pages from the various State reports by station number to include all records in the basin.

EXPLANATION OF SURFACE WATER 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 direct reading of a nonrecording gage or from a water-stage recorder that gives either a continuous graph of the fluctuations or a tape punched at 15-, 30-, or 60-minute intervals. Measurements of discharge are made with a current meter, using the general methods adopted by the Geological Survey on the basis of experience in stream gaging since 1888. These methods are described in standard textbooks, in Water-Supply Paper 888, and in the U.S. Geological Survey Techniques of Water Resources Investigations, book 3, chapter A6. Surface areas of lakes or reservoirs are determined from instrument surveys using standard methods. The configuration of the reservoir bottom is determined by sounding at many points.

For a stream-gaging station, rating tables giving the discharge for any stage are prepared from stage-discharge relation curves defined by discharge measurements. If extensions to the rating curves are necessary to define the extremes of discharge, 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), velocity-area studies, and logarithmic plotting. The application of the gage height to the rating table gives the discharge. The daily mean discharge is computed from gage heights, 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 determined 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 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 determining discharge. Information required for determining 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 determining discharge.

At some stream-gaging stations the stage-discharge relation is affected by ice in 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 the gage-height record and occasional winter discharge measurements, consideration being 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 are computed. Discharge over spillways is computed from a stage-discharge relation curve defined by discharge measurements.

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, adjoining good record, discharge measurements, weather records, and comparison with other station records from the same or nearby basins. Likewise daily contents may be estimated on the basis of operator's log, adjoining good record, inflow-outflow studies, and other information.

The data in this report generally comprise a description of the station and tabulations of basic data. For gaging stations or streams or canals 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 contents is given. Tables of daily gage heights are included for some reservoir stations. Records are published for the water year, which begins on October 1 and ends on September 30. A calendar for the 1975 water year is shown on the reverse side of the front cover to facilitate finding the day of the week for any date.

The description of the gaging station gives the location, drainage area, period of record, type and history of gages, average discharge, extremes of discharge or contents, general remarks. The location of the gaging station and the drainage area are obtained from the most accurate maps available. River mileage, given under "LOCATION" for some stations is that determined and used by the Corps of Engineers and 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." The type of gage currently in use, the datum of the present gage above mean sea level, and a condensed history of the types, locations, and datums of previous gages used during the period of record are given under "GAGE." In references to datum of gage, the phrase "mean sea level" denotes "Sea Level Datum of 1929" as used by the Topographic Division of the Geological Survey unless otherwise qualified. 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 or for stations where changes in water development during the period of record cause the figure to have little significance. The maximum discharge (or contents) and the maximum gage height, the minimum discharge if there is little or no regulation (or minimum contents) and the minimum gage height if it is significant are given under "EXTREMES." The minimum daily discharge is given if there is extensive regulation (also the minimum discharge and gage

height if they are abnormally low). In the first paragraph headed "Current year:" the data given are for the complete water year unless otherwise specified. In the second paragraph under "EXTREMES" headed "Period of record:" the data given are for the period of record given in "PERIOD OF RECORD" paragraph. Reliable information concerning major floods that occurred outside the period of record is given in the third or last paragraph under "EXTREMES." Unless otherwise qualified, the maximum discharge (or contents) corresponds 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 at the same time as the maximum discharge (or contents), it is given separately. Information pertaining to the accuracy of the streamflow records, to conditions that affect the natural flow at the gaging station, and availability of Water Quality records, 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 also under "REMARKS."

Previously published 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 "REVISIONS (WATER YEARS)" 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 were revised, that 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.

Skeleton capacity tables are published for all reservoirs for which records of contents are published on a daily basis.

The daily tables for stream-gaging stations give the discharge corresponding to the daily mean gage height unless there are large or rapid changes in the discharge during a day. For days having large or rapid changes, discharge for the day is computed by averaging the mean discharge for several parts of a day. For digital recorders, the daily mean discharge is always the average of the discharges at each punched reading. For stations equipped with nonrecording gages, the daily discharge corresponds to once-daily reading of the gage or to the mean of twice-daily readings; but for periods of rapidly changing stage the discharge is determined from a gage-height graph based on gage readings.

The daily tables for reservoir stations give the contents corresponding to the water-surface elevation at a given time, usually at 2400 each day. For some reservoirs the elevation is given in the daily table.

The monthly summary is given below the daily table. For stream-gaging stations the line headed "TOTAL" gives the sum of the daily figures; it is the total cubic feet per second per day for the month. 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"), or in inches (line headed "IN."). Figures for cubic feet per second per square mile and runoff in inches are omitted if there is extensive regulation or diversion, if the drainage area includes large noncontributing areas, or if the average rainfall on the basin is usually less than 20 inches (508 millimetres).

For reservoir stations the monthly summary gives the contents at the end of the month. If elevation or gage height is given in the daily table, the monthly summary gives the contents at the end of the month and the change in contents during the month.

In the yearly summary below the monthly summary, the figures of maximum are the maximum daily discharges for the calendar and water years; likewise, the minimum in this summary are the minimum daily discharges.

For the reservoir stations the yearly summary gives the change in contents for the calendar year and for the water year.

Peak discharges and their times of occurrence and corresponding gage heights for many stations are listed below the yearly summary. All independent peaks above the selected base are given. The base discharge, which is given in parentheses, is selected so that an average of about three peaks a year can 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.

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

Accuracy of Data

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 interpretation 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 is within 5 percent; "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 (0.02832 cubic metres) per second for discharges less than 1 ft³/s; to tenths between 1.0 and 10 ft³/s (0.02832 and 0.2832 m³/s); to whole numbers between 10 and 1,000 ft³/s (0.2832 and 28.3 m³/s); and to 3 significant figures above 1,000 ft³/s (28.3 m³/s). The number of significant figures used is based solely on the magnitude of the figures. The same rounding rules apply to discharge figures listed for partial-record stations and miscellaneous sites.

Discharge at many stations, as indicated by the monthly mean, may not reflect natural runoff due to the effects of diversion, consumptive use, regulation, evaporation or other factors. For these stations, discharge in cubic feet per second per square mile and runoff in inches are not published unless satisfactory adjustments can be made for such effects.

Evaporation from a reservoir is not included in the adjustments for changes in reservoir contents, unless it is so stated. Even at those stations where adjustments are made, large errors in computed runoff may occur if adjustments or unadjusted losses (consumptive use, evaporation, seepage, etc.) are large in comparison with the observed discharge.

Publications

In each water-supply paper entitled, "Surface Water Supply of the United States" there is a list of numbers of preceding water-supply papers containing streamflow information for the area covered by that report. In addition, there is a list of numbers of water-supply papers containing detailed information on major floods in the area. Records for stations in Maine for the period October 1960 to September 1965 are in Water-Supply Paper 1901 and for the period October 1965 to September 1970 in Water-Supply Paper 2101 (now in press).

Two series of summary reports entitled, "Compilation of Records of Surface Waters of the United States" have been published; the first series covers the entire period of record through September 1950 and the second covers the period October 1950 to September 1960. These reports contain summaries of monthly and annual discharge and monthend storage for all previously published records, as well as some records not contained in the annual series of water-supply papers. All records were reexamined and revised where warranted. Estimates of discharge were made to fill short gaps whenever practical. The yearly summary table for each gaging station lists the numbers of the water-supply papers in which daily records were published for that station. Records for stations in Maine are compiled in Water-Supply Papers 1301 through September 1950, and in 1721 for October 1950 to September 1960.

Special reports on major floods or droughts or of other hydrologic studies for the area have been issued in publications other than water-supply papers. Information relative to these reports may be obtained from the district office.

Other Data Available

A table of discharge measurements made at miscellaneous sites is shown at the end of Section I of this report.

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.

EXPLANATION OF WATER QUALITY RECORDS

Collection and Examination of Data

Water samples for analyses usually are collected at or near gaging stations. The discharge records at these stations are used in conjunction with the computations of the chemical constituents and sediment loads in this report.

Descriptive statements are given for water-quality stations located at or near streamflow stations. Given are location, drainage areas, periods of record for the various water-quality data, extremes of pertinent data, and general remarks, in a format similar to that used for streamflow gaging stations. For ground-water stations, no descriptive statements are given; however, the well number, depth of well, date of sampling, and other pertinent data are given in the table containing the chemical analyses of the ground water.

Data on the quality of surface water were collected from designated sampling sites (map on page 23) at predetermined intervals such as once daily, weekly, monthly or less frequently. Data on the quality of ground water were collected once during the year at 3 index wells whose locations are shown in Figure 2 and 12 other wells in the eastern section of the State.

Water-quality information is presented for chemical quality, microbiological, fluvial sediment and water temperatures. Chemical quality includes concentrations of individual dissolved constituents and certain properties or characteristics such as hardness, specific conductance, and pH. Microbiological information includes quantitative identification of certain bacteriological indicator organisms. Water-temperature data represent once-daily observations except for stations where a continuous temperature recorder furnishes information from which daily minimums and maximums are obtained.

Prior to the 1968 water year, data for chemical constituents and concentration of suspended sediment were reported in parts per million (ppm) and water temperatures were reported in degrees Fahrenheit (°F). In October 1967 the U.S. Geological Survey began to use the metric system; data for chemical constituents and concentrations of suspended sediment are now reported in milligrams per litre (mg/l) and water temperature are given in degrees Celsius (centigrade, °C). In waters with density of 1.000 g/ml (grams per millilitre), parts per million and milligrams per litre can be considered equal. In waters with a density

greater than 1.000 g/ml, values in parts per million should be multiplied by the density to convert to milligrams per litre. To convert temperatures in degrees Celsius to degrees Fahrenheit, see table on page 17.

In October 1968, the Geological Survey began reporting many of the chemical constituents as well as the minor elements and some pollutants in micrograms per litre instead of milligrams per litre. (See "Definition of Terms," p. 4).

Solutes

Most methods for collecting and analyzing water samples to determine the kinds and concentrations of solutes are described by Brown, Skougstad, and Fishman. The method for determining elemental constituents by emission spectrographic techniques is described by Barnett and Mallory. Analysis of pesticides, herbicides, and organic substances in water are described by Goerlitz and Lamar, Lamar, Goerlitz, and Law, and Goerlitz and Brown. The collection and analysis of aquatic, biological and microbiological samples are described by Slack and others.

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, the concentration of solutes at different locations in the cross 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.

Chemical-quality data published in this report are considered to be the most representative values available for the stations listed. The values reported represent 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 the 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 measurement of pH in the field and determination of carbonate and bicarbonate in the laboratory.

For chemical-quality stations equipped with noncontinuous-digital monitors, the records consist of daily maximum, minimum, and mean values for each constituent measured and are based upon 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 U.S. Geological Survey sub-district office at the address given on the back of the title page of this report.

Ground-water quality normally does not change significantly during short periods of time; infrequent sampling and analysis of ground water adequately define ground-water quality at a given site. Water samples from wells are analyzed individually.

Temperature

Water temperatures are measured at most of the water-quality stations. Large streams have a small diurnal temperature change while small, shallow streams may have a daily range of several degrees and may follow closely the changes in air temperature.

At stations where continuously recording thermographs are present, the records consist of maximum and minimum temperatures for each day and the monthly averages.

Table 3.--Degrees Celsius (°C) to degrees Fahrenheit (°F)*
(Temperature reported to nearest 0.5°C)

°C	°F	°C	°F	°C	°F	°C	°F	°C	°F
0.0	32	10.0	50	20.0	68	30.0	86	40.0	104
.5	33	10.5	51	20.5	69	30.5	87	40.5	105
1.0	34	11.0	52	21.0	70	31.0	88	41.0	106
1.5	35	11.5	53	21.5	71	31.5	89	41.5	107
2.0	36	12.0	54	22.0	72	32.0	90	42.0	108
2.5	36	12.5	54	22.5	72	32.5	90	42.5	108
3.0	37	13.0	55	23.0	73	33.0	91	43.0	109
3.5	38	13.5	56	23.5	74	33.5	92	43.5	110
4.0	39	14.0	57	24.0	75	34.0	93	44.0	111
4.5	40	14.5	58	24.5	76	34.5	94	44.5	112
5.0	41	15.0	59	25.0	77	35.0	95	45.0	113
5.5	42	15.5	60	25.5	78	35.5	96	45.5	114
6.0	43	16.0	61	26.0	79	36.0	97	46.0	115
6.5	44	16.5	62	26.5	80	36.5	98	46.5	116
7.0	45	17.0	63	27.0	81	37.0	99	47.0	117
7.5	45	17.5	63	27.5	81	37.5	99	47.5	117
8.0	46	18.0	64	28.0	82	38.0	100	48.0	118
8.5	47	18.5	65	28.5	83	38.5	101	48.5	119
9.0	48	19.0	66	29.0	84	39.0	102	49.0	120
9.5	49	19.5	67	29.5	85	39.5	103	49.5	121

*C = 5/9 (°F - 32) or °F = 9/5 (°C) + 32.

Publications

The annual series of water-supply papers that contain information on quality of surface waters in Maine are listed below.

<u>Water year</u>	<u>WSP No.</u>	<u>Water year</u>	<u>WSP No.</u>
1953	1290	1963	1947
1954	1350	1964	1954
1955	1400	1965	1961
1957	1520	1966	1991
1958	1571	1967	2011
1959	1641	1968	2091
1960	1741	1969	2141
1961	1881	1970	2151
1962	1941	1971	2161

EXPLANATION OF GROUND-WATER LEVEL RECORDS

Collection and Reporting of Data

Ground-water level data for a network of 11 observation wells are published herein. These water-level measurements are intended to provide a sampling and historical record of water-level changes in several of the State's aquifers.

Each well is identified by means of (1) a 15-digit number that is based on the grid system of latitude and longitude, and (2) a local number that is provided for continuity with older reports and for other use as dictated by local needs.

Measurements are made in several types of wells under varying conditions, but the methods of measurement are standardized to the extent possible. The equipment and measuring techniques used at each observation well insure that measurements at each well are of consistent accuracy and reliability.

Water-level measurements in this report are reported in feet below land-surface datum and to as many significant figures as can be justified by local conditions. Land-surface datum is a datum plane that is approximately at land surface at each well. The approximate altitude of the land-surface datum above sea level 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 at the end of each month (EOM). Locations of the observation wells are shown on the map on page 23.

Publications

Publication of ground-water level data for the United States in Water-Supply Papers was begun in 1935. The first report containing water-level data for Maine was Water-Supply Paper 986, which covered 1943 and before. Through 1955 the reports were published annually. The calendar years 1956 through 1960 span a transition period wherein the Water-Supply Papers are converted from presenting 1 year of data to 5 years of data. The release of basic data in the Water-Supply Paper series was discontinued in 1975. Beginning with the 1968 water year ground-water data have also been published in conjunction with stream-flow and water-quality records in a report entitled "Water Resources Data for Maine." Data in the present report are for the 12-month water year ending September 30, 1975.

Water-Supply Papers containing data on ground-water levels in Maine for one or more calendar years (January-December) are listed below.

<u>Calendar year</u>	<u>WSP No.</u>	<u>Calendar year</u>	<u>WSP No.</u>	<u>Calendar year</u>	<u>WSP No.</u>	<u>Calendar year</u>	<u>WSP No.</u>
1943	986	1948	1126	1952	1221	1956-57	1537
1944	1016	1949	1156	1953	1265	1958-62	1782
1945	1023	1950	1165	1954	1321	1963-67	1977
1946	1071	1951	1191	1955	1404	1968-72	2140
1947	1096						

Information about reports and other data on ground water in Maine may be obtained from the subdistrict office at the address given on the back of the title page.

HYDROLOGIC CONDITIONS

Runoff for the water year 1975 was about 7 percent below normal in the northern and central sections of the State and about 2 percent above normal in the southwestern area. Mean monthly runoff ranged from deficient to excessive during various months of the index gaging stations, but no statewide trend developed during these extreme periods. The annual runoff for water year 1975 was about 30 percent lower than in water year 1974 in the northern section, 40 percent lower in the central area, and 25 percent lower in southern Maine.

Average water content of the snowpack on March 1 ranged from 4 to 8 inches (102 to 203 millimeters) in the various river basins of the State, and ranged from 75 percent to 125 percent of normal for the date.

Ground-water levels had the usual seasonal fluctuations. They reached annual peaks in March or April and in most areas reached annual low levels during September. Ground-water levels were generally quite normal with most sections experiencing brief periods of above- or below-normal conditions at one time or another.

Water in usable storage, which was 141 percent of average at the start of the water year, decreased at a slower than usual rate from December thru the end of March, when it was 194 percent of average. After the spring runoff, the quantity in storage on May 31 was 109 percent of normal, and while again decreasing seasonally, was 115 percent of average at the end of the water year.

Figure 1, page 22, for which records at three long-term representative gaging stations were used, shows a comparison of the monthly and yearly mean discharges for the 1975 water year with median discharges for the 1931-60 period.

SELECTED REFERENCES

- American Public Health Association, and others, 1971, Standard methods for the examination of water and wastewater, 13th ed.: Am. Public Health Assoc., New York, 874 p.
- Barker, F. B., and Johnson, J. O., 1964, Determination of radium in water: U.S. Geol. Survey Water-Supply Paper 1696-B, 29 p.
- Barker, F. B., and others, 1965, Determination of uranium in natural water: U.S. Geol. Survey Water-Supply Paper 1696-C, 25 p.
- Barker, F. B., and Robinson, B. P., 1963, Determination of beta activity in water: U.S. Geol. Survey Water-Supply Paper 1696-A, 32 p.
- Barnett, P. R., and Mallory, Jr., E. C., 1971, Determination of minor elements in water by emission spectroscopy: U.S. Geol. Survey Techniques of Water Resources Inv., book 5, chap. A2, 31 p.
- Brown, Eugene, Skougstad, M. W., and Fishman, M. J., 1970, Methods for collection and analysis of water samples for dissolved minerals and gases: U.S. Geol. Survey Techniques of Water-Resources Inv., book 5, chap. A1, 160 p.
- Carter, R. W., and Davidian, Jacob, 1968, General procedures for gaging streams: U.S. Geol. Survey Techniques of Water-Resources Inv., book 3, chap. A6, 13 p.
- Colby, B. R., 1963, Fluvial sediments--a summary of source, transportation, deposition, and measurement of sediment discharge: U.S. Geol. Survey Bull. 1181-A, 47 p.
- Corbett, D. M., and others, 1943, reprinted 1957, Stream-gaging procedures, a manual describing methods and practices of the Geological Survey: U.S. Geol. Survey Water-Supply Paper 888, 245 p.
- Goerlitz, D. F., and Brown, Eugene, 1972, Methods for analysis of organic substances in water: U.S. Geol. Survey Techniques of Water-Resources Inv., book 5, chap. A3, 40 p.
- Goerlitz, D. F., Lamar, W. L., 1967, Determination of phenoxy acid herbicides in water by electron-capture and micro-coulometric gas chromatography: U.S. Geol. Survey Water-Supply Paper 1817-C, 21 p.
- Guy, H. P., 1969, Laboratory theory and methods for sediment analysis: U.S. Geol. Survey Techniques of Water-Resources Inv., book 5, chap. C1, 57 p.
- 1970, Fluvial sediment concepts: U.S. Geol. Survey Techniques of Water-Resources Inv., book 3, chap. C1, 55 p.
- Guy, H. P., and Norman, V. W., 1970, Field methods for measurement of fluvial sediment: U.S. Geol. Survey Techniques of Water-Resources Inv., book 3, chap. C2, 59 p.
- Hem, J. D., 1971, Study and interpretation of the chemical characteristics of natural water - 2nd ed: U.S. Geol. Survey Water-Supply Paper 1473, 363 p.

- Lamar, W. L., Goerlitz, D. F., and Law, L. M., 1965, Identification and measurement of chlorinated organic pesticides in water by electron-capture gas chromatography: U.S. Geol. Survey Water-Supply Paper 1817-B, 12 p.
- Langbein, W. B., and Iseri, K. T., 1960, General introduction and hydrologic definitions: U.S. Geol. Survey Water-Supply Paper 1541-A, 29 p.
- Rose, Arthur and Elizabeth, 1966, The condensed chemical dictionary: Reinhold Pub. Corp., New York, 7th ed., p. 257.
- Slack, K. V., and others, 1973, Methods for collection and analysis of aquatic, biological and microbiological samples: U.S. Geol. Survey Techniques of Water Resources Inv., book 5, Chap. A-4, 165 p.

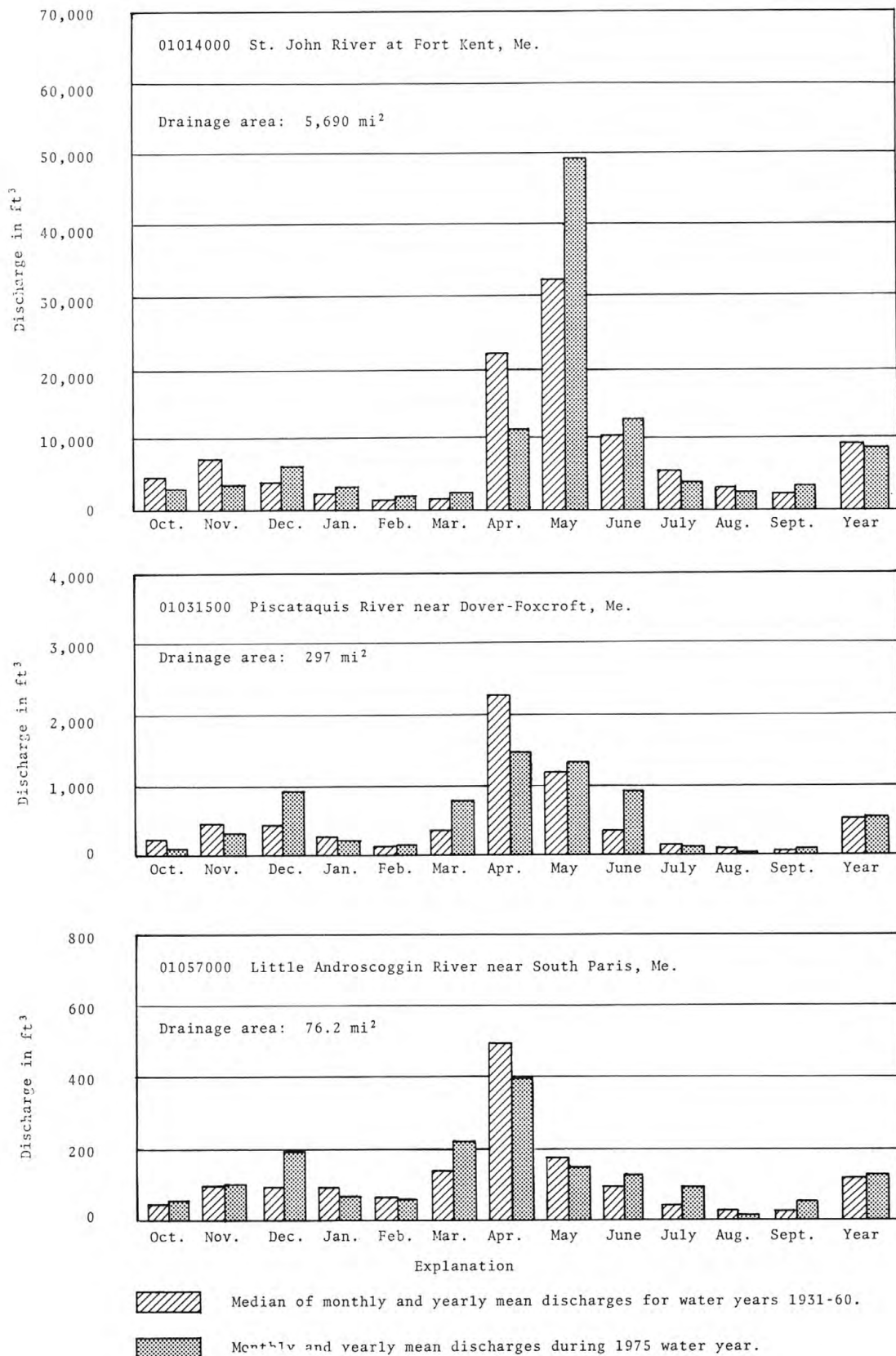


Figure 1.--Comparison of runoff at three long-term index gaging stations during 1975 water year with median runoff for period 1931-60.

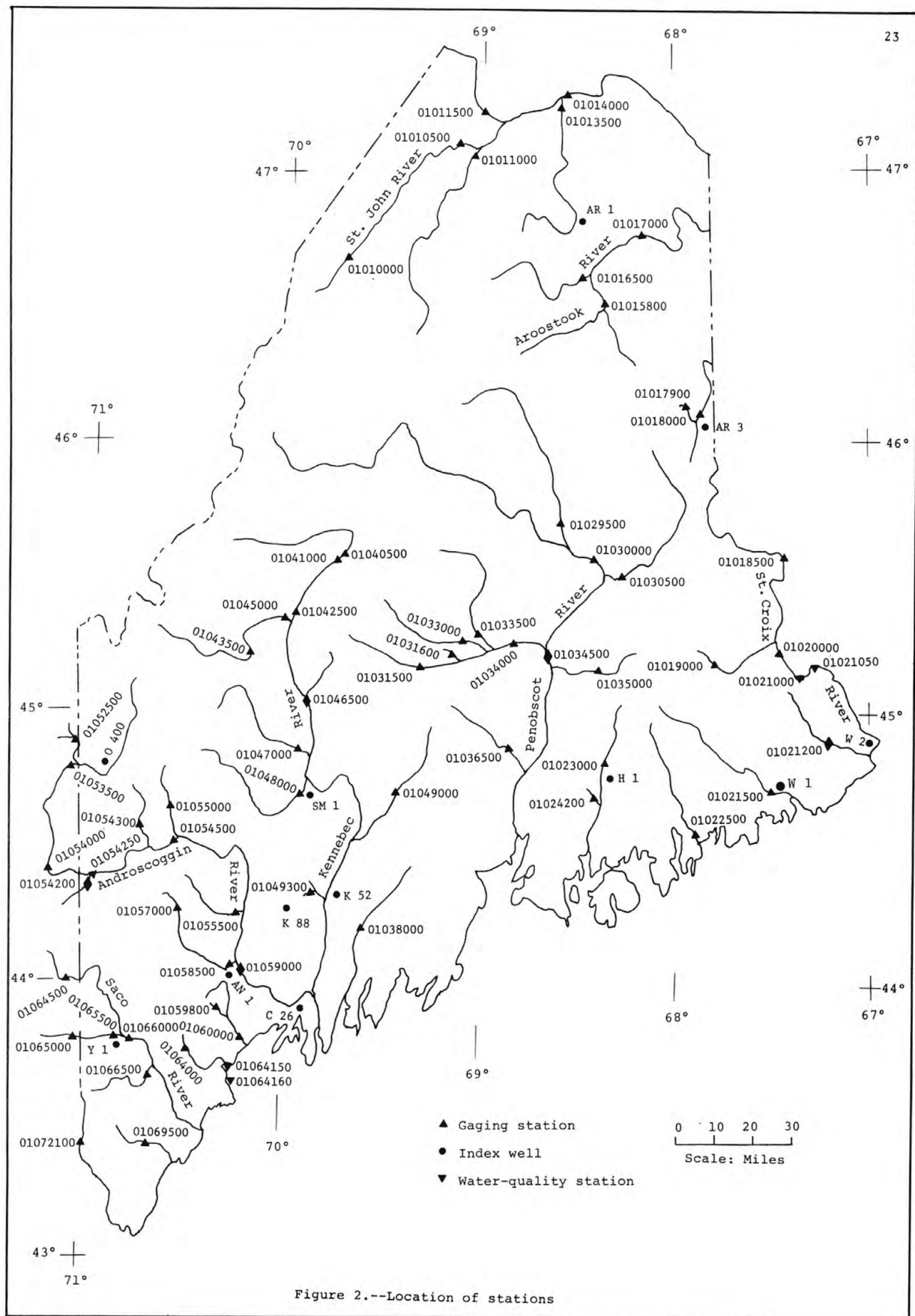


Table 4.--Factors for converting English units to International System units (SI)

The following factors may be used to convert the English units published herein to the International System of Units (SI). Subsequent reports will contain both the English and SI unit equivalents in the station manuscript descriptions until such time that all data will be published in SI units.

Multiply English units	By	To obtain SI units
<i>Length</i>		
inches (in)	25.4	millimetres (mm)
	.0254	metres (m)
feet (ft)	.3048	metres (m)
yards (yd)	.9144	metres (m)
rods	5.0292	metres (m)
miles (mi)	1.609	kilometres (km)
<i>Area</i>		
acres	4047	square metres (m ²)
	.4047	*hectares (ha)
	.4047	square hectometres (hm ²)
	.004047	square kilometres (km ²)
square miles (mi ²)	2.590	square kilometres (km ²)
<i>Volume</i>		
gallons (gal)	3.785	**litres (l)
	3.785	cubic decimetres (dm ³)
	3.785x10 ⁻³	cubic metres (m ³)
million gallons (10 ⁶ gal)	3785	cubic metres (m ³)
	3.785x10 ⁻³	cubic hectometres (hm ³)
cubic feet (ft ³)	28.32	cubic decimetres (dm ³)
	.02832	cubic metres (m ³)
cfs-days [(ft ³ /s) · d]	2447	cubic metres (m ³)
	2.447x10 ⁻³	cubic hectometres (hm ³)
acre-feet (acre-ft)	1233	cubic metres (m ³)
	1.233x10 ⁻³	cubic hectometres (hm ³)
	1.233x10 ⁻⁶	cubic kilometres (km ³)
<i>Flow</i>		
cubic feet per second (ft ³ /s)	28.32	litres per second (l/s)
	28.32	cubic decimetres per second (dm ³ /s)
	.02832	cubic metres per second (m ³ /s)
gallons per minute (gpm)	.06309	litres per second (l/s)
	.06309	cubic decimetres per second (dm ³ /s)
	6.309x10 ⁻⁵	cubic metres per second (m ³ /s)
million gallons per day (mgd)	43.81	cubic decimetres per second (dm ³ /s)
	.04381	cubic metres per second (m ³ /s)
<i>Mass</i>		
tons (short)	.9072	tonnes (t)

*The unit hectare is approved for use with the International System (SI) for a limited time. See NBS Special Bulletin 330, p.15, 1972 edition.

**The unit litre is accepted for use with the International System (SI). See NBS Special Bulletin 330, p. 13, 1972 edition.

SECTION 1. SURFACE WATER RECORDS
and
WATER QUALITY RECORDS

ST. JOHN RIVER BASIN

ST. JOHN RIVER AT NINEMILE BRIDGE, MAINE

LOCATION.--Lat 46°42'00", long 69°42'59", Aroostook County, 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) above mean sea level.

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

AVERAGE DISCHARGE.--25 years, 2,228 ft³/s (63.10 m³/s), 23.45 in/yr (596 mm/yr).

EXTREMES.--Period of record: Maximum discharge, 44,400 ft³/s (1,260 m³/s) May 1, 1974 (gage height, 12.63 ft or 3.850 m), from rating curve extended above 16,000 ft³/s (453 m³/s); minimum, 59 ft³/s (1.7 m³/s) Sept. 5, 1953; minimum gage height, 0.25 ft (0.076 m) Sept. 5, 1953, Sept. 11-12, 1960.

Current year: Maximum discharge, 18,800 ft³/s (532 m³/s) May 8 (gage height, 8.03 ft or 2.448 m); maximum gage height, 9.46 ft (2.883 m) April 22 (backwater from ice); minimum discharge, 98 ft³/s (2.78 m³/s) Aug. 24 (gage height, 0.38 ft or 0.116 m).

DISCHARGE, IN CUBIC FEET PER SECOND • WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	450	447	900	600	390	230	1900	7400	3090	296	633	278
2	473	1000	860	580	380	230	1750	8900	3750	267	554	252
3	456	1530	800	560	370	230	1650	10500	3610	245	555	707
4	455	1360	760	540	360	235	1550	12500	2870	228	998	2110
5	539	1240	720	520	350	235	1500	14000	2440	216	834	1850
6	573	1180	700	510	340	240	1400	16000	2150	202	554	1290
7	528	1010	680	500	330	240	1300	17000	3130	187	401	956
8	462	862	680	490	320	240	1200	18000	5530	173	314	789
9	405	757	720	480	320	235	1200	18300	5210	176	251	685
10	359	674	1400	470	310	230	1150	17900	3580	199	207	621
11	327	602	2700	460	300	230	1100	18000	2310	250	177	573
12	311	561	2600	460	290	230	1100	18300	3760	286	158	595
13	310	557	2300	500	290	225	1050	17600	3460	349	146	2670
14	310	810	2000	560	280	220	1000	16600	2730	362	146	3200
15	347	1390	1800	600	280	220	1000	14400	2240	336	133	2320
16	583	1710	1700	580	275	220	1050	12500	1920	418	123	1640
17	857	1600	1500	540	270	220	1150	11400	1740	484	116	1190
18	812	1370	1400	500	260	215	1300	9500	1540	428	116	916
19	887	1240	1300	470	260	220	1500	7630	1090	347	114	756
20	789	1210	1200	450	250	250	1900	6260	890	299	109	693
21	642	1100	1150	440	250	300	2700	5310	745	287	109	774
22	555	1000	1050	430	250	390	3600	4590	660	350	107	742
23	510	900	1000	420	245	600	4800	4740	630	786	102	642
24	465	880	920	410	240	1200	6600	4480	600	738	102	560
25	435	920	860	400	240	2200	7600	3540	580	1310	103	499
26	419	800	820	410	240	2600	8000	2790	550	2410	112	463
27	407	880	760	420	235	2550	7900	2480	474	1890	157	716
28	322	1050	720	420	230	2500	7400	3040	415	1270	425	1640
29	430	1020	680	410	---	2300	7100	3980	367	898	487	1700
30	376	970	650	400	---	2200	7000	3590	328	725	439	1430
31	385	---	630	400	---	2000	---	2990	---	656	360	---
TOTAL	15179	30630	35960	14930	8155	23435	89450	314220	62389	17068	9142	33257
MEAN	490	1021	1160	482	291	756	2982	10140	2080	551	295	1109
MAX	887	1710	2700	600	390	2600	8000	18300	5530	2410	998	3200
MIN	310	447	630	400	230	215	1000	2480	328	173	102	252
CFSM	.38	.79	.90	.37	.23	.59	2.31	7.86	1.61	.43	.23	.86
IN.	.44	.88	1.04	.43	.24	.68	2.58	9.06	1.80	.49	.26	.96

CAL YR 1974 TOTAL 903402 MEAN 2475 MAX 38600 MIN 199 CFSM 1.92 IN 26.05
WTR YR 1975 TOTAL 653815 MEAN 1791 MAX 18300 MIN 102 CFSM 1.39 IN 18.85

ST. JOHN RIVER BASIN

27

01010500 ST. JOHN RIVER AT DICKEY, MAINE

LOCATION.--Lat 47°06'44", long 69°05'25", Aroostook County, 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 (6,993 km²), approximately.

WATER DISCHARGE RECORDS

PERIOD OF RECORD.--July to November 1910 and April to November 11 (published as "near Dickey"), September 1946 to current year.

GAGE.--Water-stage recorder. Datum of gage is 590.66 ft (180.033 m) above mean sea level (levels by Corps of Engineers). Prior to December 1911, nonrecording gage at site 2,300 ft (701 m) downstream at different datum. September 1946 to April 1962, water-stage recorder at site 1,300 ft (396 m) downstream at same datum.

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

AVERAGE DISCHARGE.--29 years (1946-75), 4,597 ft³/s (130.2 m³/s), 23.12 in/yr (587 mm/yr).

EXTREMES.--Period of record: Maximum discharge, 87,200 ft³/s (2,470 m³/s) May 1, 1974 (gage height, 18.67 ft or 5.691 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.

Current year: Peak discharges above base of 27,000 ft³/s (765 m³/s) and maximums (*):

Date	Time	Discharge (ft ³ /s) (m ³ /s)	Gage height (ft) (m)	Date	Time	Discharge (ft ³ /s) (m ³ /s)	Gage height (ft) (m)
Apr. 22	1300	ice jam	*16.03 4.886	May 13	0400	*41,200 1,167	13.27 4.045
May 7	2000	41,000 1,161	13.24 4.036				

Minimum discharge, 313 ft³/s (8.86 m³/s) Aug. 23, gage height, 3.71 ft (1.131 m).

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1460	1040	2200	1500	780	520	3400	15000	6960	800	1550	725
2	1460	1280	2000	1400	750	520	3300	19600	7280	770	1530	636
3	1460	2000	1850	1400	720	520	3200	26300	8640	780	1380	655
4	1440	2560	1800	1300	700	520	3100	30300	7310	790	1160	1500
5	1340	2430	1750	1300	680	520	2900	32900	5880	720	1410	3650
6	1340	2280	1700	1250	670	515	2800	36200	4990	650	1500	2980
7	1380	2200	1650	1200	660	510	2700	39500	5800	610	1200	2200
8	1290	1920	1650	1170	640	510	2600	39300	10800	510	987	1770
9	1140	1680	1650	1150	630	510	2500	38300	11800	620	790	1570
10	1060	1510	2100	1130	620	505	2400	37900	9760	700	675	1340
11	974	1390	4000	1150	610	505	2300	38200	7410	665	570	1170
12	883	1310	6400	1170	600	505	2200	39800	5630	740	488	1060
13	870	1360	6400	1250	600	500	2150	40200	4900	950	470	1980
14	858	2450	6000	1350	590	500	2150	38600	6400	970	428	6220
15	870	2700	5200	1500	580	500	2300	34000	8080	1030	402	5740
16	974	2950	4700	1600	580	500	2600	29400	6680	1040	385	3880
17	1180	3150	4300	1600	580	500	3000	27200	5350	1240	377	2810
18	1680	2900	3800	1500	570	500	4000	22800	4390	1220	345	2160
19	1700	2560	3500	1400	560	495	5200	18900	3800	1040	345	1770
20	1680	2410	3200	1300	560	530	6800	16300	3370	870	337	1510
21	1600	2040	2900	1200	560	620	9000	15300	2980	812	329	1360
22	1360	1000	2800	1150	550	960	13500	15400	2540	1080	321	1340
23	1180	735	2600	1100	540	1400	16500	17400	2320	1080	321	1360
24	1140	1140	2400	1050	540	2200	16500	15600	2140	1070	329	1230
25	1070	1920	2300	980	540	3400	19800	12000	1850	2120	321	1100
26	1030	2000	2100	950	540	4200	20000	9280	1550	3000	329	1000
27	987	1770	2000	920	530	4200	19000	8280	1310	3990	377	1160
28	870	1810	1900	900	530	4100	17600	8120	1130	2880	533	2240
29	935	2150	1800	860	---	3900	15800	9600	1000	2120	665	3520
30	922	2400	1700	840	---	3700	14200	9520	900	1720	896	3300
31	1000	---	1600	800	---	3600	---	7880	---	1510	824	---
TOTAL	37133	59045	89950	37370	17010	42465	223500	749080	152950	38097	21574	62936
MEAN	1198	1968	2902	1205	608	1370	7450	24160	5098	1229	696	2098
MAX	1700	3150	6400	1600	780	4200	20000	40200	11800	3990	1550	6220
MIN	858	735	1600	800	530	495	2150	7880	900	510	321	636
CFSM	.44	.73	1.07	.45	.23	.51	2.76	8.95	1.89	.46	.26	.78
IN.	.51	.81	1.24	.51	.23	.59	3.08	10.32	2.11	.52	.30	.87

CAL YR 1974 TOTAL 1963121 MEAN 5378 MAX 66000 MIN 655 CFSM 1.99 IN 27.05
WTR YR 1975 TOTAL 1531110 MEAN 4195 MAX 40200 MIN 321 CFSM 1.55 IN 21.10

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

WATER QUALITY RECORDS

PERIOD OF RECORD.--WATER ANALYSES: Current year.

SPECIFIC CONDUCTANCE: Current year.

WATER TEMPERATURES: Current year.

INSTRUMENTATION.--Two parameter water quality monitor since April 1975.

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

EXTREMES.--Current year:

SPECIFIC CONDUCTANCE: Maximum, 109 micromhos Sept. 1; minimum, 35 micromhos May 10, 14, 15.

WATER TEMPERATURES: Maximum, 28.5°C Aug. 16; minimum, freezing point on many days in April.

WATER ANALYSES, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)	TEMPERATURE (DEG C)	DISSOLVED OXYGEN (MG/L)	DISSOLVED OXYGEN SATURATION (%)	CARBON DIOXIDE (MG/L)	ALKALINITY AS CaCO ₃ (MG/L)	BICARBONATE (MG/L)
JUNE 01...	1000	6890	47	6.7	13.5	10.0	95	5.1	13	16
SEP. 11...	1845	1070	73	6.9	17.5	9.8	102	5.4	22	27

DATE	CARBONATE (CO ₃) (MG/L)	HARDNESS (CA, MG) (MG/L)	NON-CARBONATE HARDNESS (MG/L)	DISSOLVED CALCIUM (CA) (MG/L)	DISSOLVED MAGNESIUM (MG) (MG/L)	DISSOLVED SODIUM (NA) (MG/L)	SODIUM ADSORPTION RATIO	PERCENT SODIUM	DISSOLVED POTASSIUM (K) (MG/L)	DISSOLVED CHLORIDE (CL) (MG/L)
JUNE 01...	0	22	9	7.4	.6	.5	.0	5	.2	2.0
SEP. 11...	0	35	12	13	.5	1.0	.1	6	.1	.5

DATE	DISSOLVED SULFATE (SO ₄) (MG/L)	DISSOLVED FLUORIDE (F) (MG/L)	DISSOLVED SILICA (SiO ₂) (MG/L)	TOTAL IRON (FE) (UG/L)	TOTAL MANGANESE (MN) (UG/L)	TOTAL PHOSPHORUS (P) (MG/L)	TOTAL ORTHO PHOSPHORUS (P) (MG/L)	TOTAL ORGANIC NITROGEN (N) (MG/L)	TOTAL KjFL-DAHL NITROGEN (N) (MG/L)	AMMONIA NITROGEN (N) (MG/L)
JUNE 01...	3.0	.1	2.7	220	20	.01	.00	.13	.14	.01
SEP. 11...	7.8	.3	4.6	140	30	.01	.01	.24	.24	.00

DATE	DISSOLVED NITRATE (NO ₃) (MG/L)	DISSOLVED NITRITE (NO ₂) (MG/L)	DISSOLVED NITRITE (N) (MG/L)	DISSOLVED NITRATE (N) (MG/L)	DISSOLVED NITRITE PLUS NITRATE (N) (MG/L)	DISSOLVED MERCURY (HG) (UG/L)	TOTAL MERCURY (HG) (UG/L)	TOTAL MERCURY IN BOTTOM MATERIAL (UG/G)	DISSOLVED SOLIDS (SUM OF CONSTITUENTS) (MG/L)	DISSOLVED SOLIDS (TONS PER DAY)
JUNE 01...	.22	.00	.00	.05	.05	--	--	--	25	465
SEP. 11...	7.9	.03	.01	1.8	1.8	<.5	<.5	.0	49	142

29

SPECIFIC CONDUCTANCE (MICROMHOS/CM AT 25 DEG. C), WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975

APRIL							MAY						
		DAY		MAX	MIN	MEAN	MAX	MIN	MEAN				
		1		---	---	---	49	46	47				
		2		---	---	---	49	45	47				
		3		---	---	---	45	43	44				
		4		---	---	---	45	42	43				
		5		---	---	---	44	41	43				
		6		---	---	---	43	40	42				
		7		---	---	---	40	39	40				
		8		---	---	---	40	38	39				
		9		---	---	---	40	37	39				
		10		---	---	---	40	35	39				
		11		72	68	70	40	37	39				
		12		71	68	70	39	37	38				
		13		71	71	71	39	36	38				
		14		72	70	72	39	35	37				
		15		73	72	73	39	35	37				
		16		74	72	73	38	37	38				
		17		74	70	72	39	37	38				
		18		71	68	69	41	38	39				
		19		69	67	68	41	39	40				
		20		67	59	63	42	39	41				
		21		59	55	57	43	41	42				
		22		55	52	53	45	42	43				
		23		53	47	51	48	45	46				
		24		49	48	49	48	46	47				
		25		49	48	49	49	46	47				
		26		49	47	48	51	47	48				
		27		47	46	47	49	48	49				
		28		47	46	46	51	49	50				
		29		47	46	46	50	49	50				
		30		48	46	47	51	49	50				
		31		---	---	---	50	49	49				
		MONTH		---	---	---	51	35	43				
		JUNE			JULY			AUGUST			SEPTEMBER		
	DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
	1	53	50	50	84	72	77	75	71	73	109	80	84
	2	51	49	50	84	76	78	76	73	75	87	78	82
	3	50	48	49	78	75	77	78	77	77	77	76	77
	4	49	48	48	83	77	79	76	76	76	77	75	76
	5	50	47	48	82	78	80	79	75	77	85	73	76
	6	47	46	47	89	79	82	80	72	76	81	71	74
	7	47	45	46	83	78	81	79	72	74	74	69	71
	8	47	44	47	80	79	79	89	73	77	82	69	73
	9	45	41	43	81	77	79	---	---	---	80	74	76
	10	43	40	41	81	77	80	---	---	---	79	70	74
	11	43	37	40	82	81	82	---	---	---	78	71	75
	12	46	44	45	84	82	83	---	---	---	77	67	72
	13	47	46	46	84	83	84	---	---	---	75	67	70
	14	49	47	48	83	82	82	---	---	---	79	64	72
	15	49	47	48	84	82	83	87	74	78	72	63	66
	16	48	47	47	84	82	83	95	78	82	67	58	62
	17	49	47	48	89	82	85	102	81	85	58	58	58
	18	51	48	50	90	86	88	97	81	87	59	58	58
	19	52	50	51	87	84	85	91	82	84	65	58	60
	20	52	50	51	86	84	85	91	82	85	60	59	59
	21	54	52	53	85	81	83	91	84	86	63	60	61
	22	56	54	55	86	80	83	95	83	86	61	60	61
	23	57	55	56	83	81	82	99	83	88	62	61	61
	24	62	57	59	83	81	82	95	84	88	63	61	62
	25	66	59	61	81	72	77	93	87	90	83	64	69
	26	72	62	65	75	71	72	97	78	87	71	63	67
	27	83	65	68	76	71	72	84	78	79	66	64	64
	28	68	67	68	70	68	69	93	81	85	67	66	66
	29	80	68	70	69	68	69	105	80	87	69	67	68
	30	77	70	71	71	69	70	105	80	85	83	63	68
	31	---	---	---	73	71	72	98	79	84	---	---	---
MONTH		83	37	52	90	68	79	105	71	82	109	58	69
PERIOD		109	35	64									

TEMPERATURE (DEG. C) OF WATER, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975

				APRIL			MAY					
DAY				MAX	MIN	MEAN	MAX	MIN	MEAN			
1				---	---	---	3.5	0.5	2.0			
2				---	---	---	3.0	1.5	2.5			
3				---	---	---	2.5	1.5	2.0			
4				---	---	---	3.0	1.5	2.0			
5				---	---	---	3.5	2.0	3.0			
6				---	---	---	4.5	2.5	3.0			
7				---	---	---	3.5	3.0	3.0			
8				---	---	---	4.0	2.5	3.5			
9				---	---	---	5.5	3.0	4.5			
10				---	---	---	6.5	4.0	5.5			
11				0.5	0.0	0.5	7.5	5.0	6.0			
12				0.5	0.0	0.5	8.0	6.0	7.0			
13				0.5	0.5	0.5	8.5	7.0	7.5			
14				0.5	0.0	0.5	9.0	7.0	8.0			
15				0.5	0.5	0.5	9.5	7.5	8.5			
16				0.5	0.5	0.5	9.5	9.0	9.0			
17				0.5	0.0	0.5	10.0	8.0	9.0			
18				0.5	0.0	0.0	11.5	8.5	10.0			
19				0.0	0.0	0.0	12.5	10.5	11.5			
20				0.0	0.0	0.0	12.5	11.5	12.0			
21				0.0	0.0	0.0	13.0	12.0	12.5			
22				0.5	0.0	0.0	12.0	11.5	11.5			
23				1.5	0.0	0.5	14.0	11.0	12.0			
24				0.5	0.0	0.5	15.5	13.0	14.5			
25				1.0	0.5	0.5	16.0	14.0	15.0			
26				0.5	0.0	0.5	16.0	14.0	15.0			
27				0.5	0.0	0.5	14.5	13.5	14.0			
28				1.5	0.0	0.5	14.5	13.0	13.5			
29				1.5	0.0	1.0	14.5	13.0	13.5			
30				2.0	0.0	1.0	15.5	13.5	14.5			
31				---	---	---	15.5	14.5	15.0			
MONTH				---	---	---	16.0	0.5	8.5			
JUNE				JULY			AUGUST			SEPTEMBER		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	15.0	14.5	15.0	27.0	21.0	24.5	26.5	21.0	23.5	20.0	15.5	18.5
2	17.0	15.0	16.0	25.5	23.0	24.0	27.5	23.0	25.5	19.5	15.5	16.5
3	17.5	15.5	16.5	25.5	22.5	23.5	26.0	23.0	24.5	15.5	14.5	15.0
4	16.5	16.0	16.5	24.5	21.0	22.5	22.5	20.5	21.5	17.0	13.5	15.5
5	18.0	15.0	16.5	25.5	20.5	23.0	24.5	20.5	22.0	18.5	15.5	16.5
6	16.5	14.0	15.5	26.5	20.5	23.5	23.0	20.5	22.5	18.5	15.5	16.5
7	14.0	12.0	13.0	25.5	21.5	24.0	23.5	19.0	21.0	17.0	14.0	15.5
8	12.5	11.5	12.0	25.5	22.0	24.0	26.0	19.5	22.5	19.0	14.0	16.5
9	13.5	11.5	12.5	24.5	22.5	23.0	---	---	---	18.0	15.0	16.5
10	15.5	12.5	14.0	24.5	20.5	22.5	---	---	---	17.0	13.5	15.0
11	16.5	14.5	15.5	23.0	21.0	22.0	---	---	---	17.5	14.0	15.5
12	18.5	16.0	17.0	23.0	20.0	21.5	---	---	---	17.5	14.5	16.0
13	17.0	15.5	16.5	22.0	19.5	20.5	---	---	---	16.5	13.5	15.0
14	16.0	15.0	15.5	23.0	20.0	21.5	---	---	---	16.0	14.5	15.5
15	17.5	16.0	16.5	22.0	20.0	21.0	26.0	20.5	22.0	15.5	13.0	14.5
16	19.5	16.5	18.0	23.5	18.5	21.0	28.5	22.5	25.5	14.5	12.0	13.5
17	21.0	18.0	19.5	25.0	20.5	22.5	27.5	24.0	26.0	13.0	12.0	12.5
18	20.5	19.5	20.0	26.0	22.5	24.0	27.0	24.5	25.5	14.5	11.5	13.0
19	21.5	19.0	20.0	26.5	23.0	24.5	25.0	22.0	23.5	16.0	13.0	13.5
20	20.5	19.0	20.0	26.5	23.5	25.0	23.0	20.5	21.5	14.5	13.0	13.5
21	20.0	16.0	18.5	24.5	21.0	23.0	23.0	19.5	21.0	17.5	14.5	15.5
22	20.0	17.5	19.0	22.5	19.5	21.0	24.5	20.5	22.0	16.0	14.0	15.0
23	23.0	19.0	21.0	22.0	19.0	20.5	25.0	20.5	23.0	14.0	13.5	13.5
24	24.5	21.0	22.5	23.5	19.0	21.5	22.5	20.0	20.5	13.5	12.0	12.5
25	24.0	20.0	22.0	23.0	20.0	22.0	21.5	19.5	20.5	16.0	11.5	13.5
26	25.0	19.5	22.0	20.0	18.0	18.5	23.0	20.5	21.5	15.5	12.0	13.5
27	24.5	20.0	22.0	20.0	17.0	18.5	21.0	19.0	20.0	14.0	12.5	13.0
28	25.5	21.0	23.0	19.5	18.5	19.0	24.5	19.0	21.5	13.5	12.0	13.0
29	26.5	22.0	24.0	19.5	18.0	19.0	25.5	17.0	22.0	14.0	11.5	12.5
30	25.0	20.0	22.5	21.0	17.0	19.0	25.0	18.5	21.0	15.0	13.0	14.0
31	---	---	---	24.5	19.5	22.0	23.5	15.0	18.0	---	---	---
MONTH	26.5	11.5	18.0	27.0	17.0	22.0	28.5	15.0	22.5	20.0	11.5	14.5
PERIOD	28.5	0.0	15.0									

ST. JOHN RIVER BASIN

31

01011000 ALLAGASH RIVER NEAR ALLAGASH, MAINE

LOCATION.--Lat 47°04'14", long 69°04'51", Aroostook County, 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.

GAGE.--Water-stage recorder. Datum of gage is 604.6 ft (184.28 m) above mean sea level. Prior to December 1911, nonrecording gage at site 3.0 mi (4.8 km) downstream at different datum.

REVISIONS (WATER YEARS).--WSP 726: Drainage area. WSP 1231: 1911.

REMARKS.--Records excellent except those for winter period, which are fair. Some regulation for recreational purposes since May 1969 by Churchill Lake (usable capacity, about 3.4 billion ft³ or 96.3 million m³), 58 mi (93 km) upstream.

AVERAGE DISCHARGE.--44 years (1931-75), 1,888 ft³/s (53.47 m³/s), 20.51 in/yr (521 mm/yr).

EXTREMES.--Period of record: Maximum discharge, 29,400 ft³/s (833 m³/s) Apr. 29, 1973 (gage height, 12.33 ft or 3.758 m); maximum gage height, 14.16 ft (4.316 m) Apr. 23, 1960 (backwater from ice); minimum discharge, 87 ft³/s (2.46 m³/s) Sept. 11, 1960.

Current year: Maximum discharge, 14,700 ft³/s (416 m³/s) May 13 (gage height, 8.96 ft or 2.731 m); minimum daily, 270 ft³/s (7.65 m³/s) Mar. 14-18.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1300	558	1050	1030	440	300	780	4990	3460	1030	1460	498
2	1110	606	980	1000	430	290	840	5500	3730	978	1430	483
3	1100	585	920	960	420	290	900	6730	3500	1000	1570	587
4	1140	562	880	920	410	290	940	8000	3170	954	2290	793
5	1140	579	830	900	400	290	980	9570	2950	914	2040	773
6	1080	579	800	860	400	285	1000	11400	2750	877	1760	739
7	1020	553	780	820	390	280	1030	13100	3250	808	1490	739
8	953	522	760	800	380	280	1050	13000	4260	782	1290	739
9	884	497	800	760	375	280	1050	13200	4250	1090	1140	723
10	840	474	1200	740	370	280	1030	13300	3830	1300	1010	689
11	806	456	2000	720	365	280	1000	13600	3370	1240	902	640
12	773	445	2200	700	360	275	1000	14300	2980	1170	832	671
13	768	473	2150	680	350	275	980	14500	2970	1130	788	1090
14	744	701	2100	700	345	270	960	13700	3510	1090	781	1100
15	760	919	2000	700	340	270	960	12200	3360	1110	776	960
16	758	1100	1950	680	335	270	1000	11100	3020	1090	725	848
17	717	1040	1900	640	330	270	1050	10100	2720	1030	697	781
18	709	964	1800	600	330	270	1150	8620	2460	933	722	737
19	697	931	1700	580	325	275	1300	7610	2390	863	690	711
20	665	882	1650	550	320	280	1600	6750	2300	842	626	717
21	612	672	1600	520	320	290	2400	6620	2090	850	571	731
22	582	456	1550	500	315	310	3500	6290	1920	908	552	714
23	573	811	1500	490	310	330	4600	7090	1830	849	544	685
24	563	1000	1400	470	310	370	4520	6220	1720	782	517	652
25	544	1060	1350	460	310	400	4790	5130	1560	1870	507	616
26	538	838	1300	460	300	440	4930	4390	1430	2230	519	603
27	531	749	1250	470	300	490	4900	4200	1340	1790	662	653
28	490	966	1200	470	300	540	4850	4110	1260	1460	801	756
29	494	900	1170	470	---	600	4620	4030	1170	1320	682	775
30	483	1100	1120	460	---	660	4590	3800	1080	1260	596	749
31	502	---	1050	450	---	720	---	3560	---	1220	546	---
TOTAL	23876	21978	42940	20560	9880	10750	64300	266710	79630	34770	29516	21952
MEAN	770	733	1385	663	353	347	2143	8604	2654	1122	952	732
MAX	1300	1100	2200	1030	440	720	4930	14500	4260	2230	2290	1100
MIN	483	445	760	450	300	270	780	3560	1080	782	507	483
CFSM	.62	.59	1.11	.53	.28	.28	1.71	6.88	2.12	.90	.76	.59
IN.	.71	.65	1.28	.61	.29	.32	1.91	7.94	2.37	1.03	.88	.65
CAL YR 1974	TOTAL	829308	MEAN	2272	MAX	24800	MIN	445	CFSM	1.82	IN	24.68
WTR YR 1975	TOTAL	626862	MEAN	1717	MAX	14500	MIN	270	CFSM	1.37	IN	18.66

ST. JOHN RIVER BASIN

01011000 ALLAGASH RIVER NEAR ALLAGASH, MAINE--Continued

WATER QUALITY RECORDS

PERIOD OF RECORD.--WATER ANALYSES: Current year.

SPECIFIC CONDUCTANCE: Current year.

WATER TEMPERATURES: Current year.

INSTRUMENTATION.--Two parameter water quality monitor since April 1975.

REMARKS.--Monitor located on highway bridge 3.0 mi (4.8 km) downstream from gage in village of Allagash. Interruptions in the record were due to malfunctions of the monitor.

EXTREMES.--Current year:

SPECIFIC CONDUCTANCE: Maximum, 67 micromhos Sept. 29; minimum, 37 micromhos April 30.

WATER TEMPERATURES: Maximum, 27.5°C Aug. 2; minimum, freezing point on many days in April.

WATER ANALYSES, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)	TEMPERATURE (DEG C)	DISSOLVED OXYGEN (MG/L)	DISSOLVED OXYGEN SATURATION (%)	CARBON DIOXIDE (CO2) (MG/L)	ALKALINITY AS CaCO3 (MG/L)	BICARBONATE (HCO3) (MG/L)
JUNE 01...	0900	3440	50	7.0	13.0	10.0	94	2.7	14	17
SEP. 11...	1700	628	60	7.2	16.0	10.2	102	2.5	21	25

DATE	CARBONATE (CO3) (MG/L)	HARDNESS (CA+MG) (MG/L)	NON-CARBONATE HARDNESS (MG/L)	DISSOLVED CALCIUM (CA) (MG/L)	DISSOLVED MAGNESIUM (MG/L)	DISSOLVED SODIUM (NA) (MG/L)	SODIUM ADSORPTION RATIO	PERCENT SODIUM	DISSOLVED POTASSIUM (K) (MG/L)	DISSOLVED CHLORIDE (CL) (MG/L)
JUNE 01...	0	23	9	7.6	1.0	.6	.1	5	.2	1.8
SEP. 11...	0	27	7	10	.5	.8	.1	6	.1	.2

DATE	DISSOLVED SULFATE (SO4) (MG/L)	DISSOLVED FLUORIDE (F) (MG/L)	DISSOLVED SILICA (SiO2) (MG/L)	TOTAL IRON (FE) (UG/L)	TOTAL MANGANESE (MN) (UG/L)	TOTAL PHOSPHORUS (P) (MG/L)	TOTAL ORTHO PHOSPHORUS (P) (MG/L)	TOTAL ORGANIC NITROGEN (N) (MG/L)	TOTAL KJELDAHL NITROGEN (N) (MG/L)	AMMONIA NITROGEN (N) (MG/L)
JUNE 01...	4.8	.2	3.3	160	20	.01	.00	.97	.97	.00
SEP. 11...	6.1	.2	2.9	100	10	.01	.01	.23	.23	.00

DATE	DISSOLVED NITRATE (NO3) (MG/L)	DISSOLVED NITRITE (NO2) (MG/L)	DISSOLVED NITRITE (N) (MG/L)	DISSOLVED NITRATE (N) (MG/L)	DISSOLVED NITRITE PLUS NITRATE (N) (MG/L)	DISSOLVED MERCURY (HG) (UG/L)	TOTAL MERCURY (HG) (UG/L)	TOTAL MERCURY IN BOTTOM MATERIAL (UG/G)	DISSOLVED SOLIDS (SUM OF CONSTITUENTS) (MG/L)	DISSOLVED SOLIDS (TONS PER DAY)
JUNE 01...	.71	.03	.01	.16	.17	--	--	--	29	269
SEP. 11...	1.3	.03	.01	.30	.31	<.5	<.5	.0	35	59.3

ST. JOHN RIVER BASIN

01011000 ALLAGASH RIVER NEAR ALLAGASH, MAINE--Continued

TEMPERATURE (DEG. C) OF WATER, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975

				APRIL			MAY					
DAY				MAX	MIN	MEAN	MAX	MIN	MEAN			
1				---	---	---	1.5	0.5	1.0			
2				---	---	---	3.5	1.0	2.5			
3				---	---	---	3.0	2.0	2.0			
4				---	---	---	3.5	1.5	2.5			
5				---	---	---	3.5	1.5	2.5			
6				---	---	---	4.0	1.5	3.0			
7				---	---	---	3.5	2.0	2.5			
8				---	---	---	4.0	2.0	3.0			
9				---	---	---	5.0	2.5	3.5			
10				---	---	---	5.5	3.0	4.0			
11				---	---	---	6.0	3.5	5.0			
12				0.5	0.0	0.5	6.5	4.5	5.5			
13				0.5	0.0	0.5	7.0	5.0	6.0			
14				0.5	0.0	0.5	7.5	5.0	6.5			
15				0.5	0.0	0.5	8.0	6.0	7.0			
16				0.5	0.0	0.5	8.0	7.0	7.5			
17				0.5	0.5	0.5	8.5	6.5	7.5			
18				0.5	0.5	0.5	10.5	7.0	9.0			
19				0.5	0.5	0.5	11.5	9.0	10.5			
20				0.5	0.5	0.5	11.0	10.0	10.5			
21				0.5	0.5	0.5	10.5	10.5	10.5			
22				0.5	0.5	0.5	10.5	9.5	10.0			
23				1.0	0.5	0.5	12.5	10.0	11.0			
24				0.5	0.5	0.5	13.0	11.0	12.0			
25				1.0	0.5	0.5	13.5	11.0	12.0			
26				0.5	0.5	0.5	13.0	12.0	12.0			
27				1.0	0.5	0.5	12.5	11.5	12.0			
28				1.0	0.5	0.5	13.0	11.5	12.5			
29				1.0	0.5	0.5	13.0	11.5	12.5			
30				1.0	0.5	0.5	14.0	11.5	13.0			
31				---	---	---	13.5	13.0	13.0			
MONTH				---	---	---	14.0	0.5	7.5			
JUNE				JULY			AUGUST			SEPTEMBER		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	13.5	13.0	13.0	---	---	---	26.5	21.5	24.0	20.0	14.5	17.5
2	15.5	13.0	14.5	---	---	---	27.5	23.5	25.5	17.0	16.0	16.5
3	14.5	12.5	14.5	---	---	---	25.5	23.0	24.5	16.0	15.0	15.5
4	14.5	13.5	14.0	---	---	---	23.0	21.0	22.0	19.0	14.5	16.5
5	16.0	13.0	14.5	---	---	---	25.0	21.0	23.0	19.5	16.0	17.5
6	15.0	12.5	14.0	---	---	---	23.0	21.0	21.5	16.5	15.0	15.5
7	12.5	10.5	11.5	---	---	---	20.5	19.5	21.0	17.5	14.5	16.0
8	11.5	10.0	11.0	---	---	---	24.5	19.5	22.0	18.0	14.5	16.0
9	13.0	10.5	11.5	24.5	21.5	23.0	24.5	20.5	23.0	16.0	14.0	15.5
10	14.5	11.0	13.0	24.5	20.5	22.0	---	---	---	16.5	13.0	14.5
11	16.0	13.0	14.5	22.5	21.5	22.0	---	---	---	16.5	12.5	14.5
12	16.5	14.5	15.5	24.0	21.0	22.5	---	---	---	16.0	15.0	15.5
13	16.0	15.0	15.5	22.5	20.5	22.0	---	---	---	16.0	13.5	14.5
14	15.0	14.0	14.5	24.5	20.5	22.5	---	---	---	14.5	13.0	13.5
15	16.5	14.5	15.5	23.0	20.5	22.0	23.5	20.0	21.5	14.0	11.0	12.5
16	19.0	15.5	17.0	24.5	19.5	22.0	25.0	19.0	22.0	14.0	12.0	13

ST. JOHN RIVER BASIN

35

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).

WATER DISCHARGE RECORDS

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

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

REVISIONS.--WSP 1621: Drainage area.

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

REMARKS.--Records excellent.

AVERAGE DISCHARGE.--24 years, 872 ft³/s (24.7 m³/s), 22.77 in/yr (578 mm/yr).

EXTREMES.--Period of record: Maximum discharge, 13,000 ft³/s (368 m³/s) May 12, 1969 (gage height, 14.01 ft or 4.270 m); minimum, 68 ft³/s (1.93 m³/s) Sept. 11, 12, 1960, Oct. 3, 1968.

CORRECTIONS.--The maximum discharge for water year 1952 occurred on May 2, 1952; the date previously published in WSP 1231 and 1721 was in error.

Current year: Maximum discharge, 9,180 ft³/s (260 m³/s) May 14 (gage height, 11.70 ft or 3.566 m); minimum, 130 ft³/s (3.68 m³/s) Aug. 25 (gage height, 2.34 ft or 0.713 m).

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	312	208	330	480	312	179	613	1920	2230	439	330	138
2	315	218	322	463	303	182	599	2050	2060	409	313	140
3	340	223	346	449	300	185	580	2410	1950	391	290	149
4	340	230	341	438	302	185	606	2960	1870	367	254	152
5	340	248	326	415	291	182	588	3550	1730	350	237	157
6	331	253	318	401	285	181	557	4240	1580	327	220	159
7	325	260	307	388	274	179	532	5160	1540	300	204	162
8	315	263	303	375	240	182	505	6110	1620	286	189	162
9	306	268	317	358	231	180	482	6790	1720	281	177	162
10	295	267	377	359	228	175	470	7290	1790	280	167	164
11	286	266	474	343	222	171	450	7660	1710	275	162	157
12	273	255	636	343	215	168	442	8220	1570	270	155	167
13	263	254	789	340	209	167	434	8860	1470	267	151	187
14	249	261	887	345	204	166	426	9110	1400	266	153	201
15	252	288	913	369	202	163	421	8920	1340	272	155	230
16	243	325	893	381	203	160	421	8530	1290	277	146	256
17	239	367	877	393	201	156	442	8150	1230	261	140	279
18	245	396	851	391	193	155	481	7700	1140	252	145	288
19	248	410	801	396	196	158	570	6860	1080	242	143	291
20	248	413	762	385	197	163	738	6070	994	236	138	286
21	244	444	732	378	192	184	1020	5750	909	226	135	281
22	238	447	701	374	193	201	1360	5750	834	235	136	271
23	232	406	673	365	189	224	1670	5680	777	262	139	255
24	228	380	652	351	184	289	1890	5280	727	309	134	237
25	223	382	635	340	188	383	2030	4680	674	365	131	226
26	219	390	598	351	191	482	2110	4030	634	393	130	223
27	214	378	563	348	183	551	2160	3480	584	395	139	229
28	209	359	540	333	180	597	2140	3140	545	379	143	227
29	204	347	517	324	---	619	2060	2850	513	370	143	230
30	198	334	505	320	---	639	1950	2670	475	355	143	231
31	205	---	493	317	---	630	---	2470	---	348	142	---
TOTAL	8179	9540	17779	11613	6308	8236	28747	168340	37986	9685	5384	6297
MEAN	264	318	574	375	225	266	958	5430	1266	312	174	210
MAX	340	447	913	480	312	639	2160	9110	2230	439	330	291
MIN	198	208	303	317	180	155	421	1920	475	226	130	138
CFSM	.51	.61	1.10	.72	.43	.51	1.84	10.4	2.43	.60	.33	.40
IN.	.59	.68	1.27	.83	.45	.59	2.06	12.04	2.72	.69	.39	.45
CAL YR 1974	TOTAL	373171	MEAN	1022	MAX	11200	MIN	146	CFSM	1.97	IN	26.70
WTR YR 1975	TOTAL	318094	MEAN	871	MAX	9110	MIN	130	CFSM	1.68	IN	22.76

ST. JOHN RIVER BASIN

01013500 FISH RIVER NEAR FORT KENT, MAINE

LOCATION.--Lat 47°14'14", long 68°34'56", Aroostook County, 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).

WATER DISCHARGE RECORDS

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

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

REVISIONS.--WSP 1001: Drainage area.

REMARKS.--Records excellent except those for winter period, which are fair. Large lake area above station has not yet been developed for storage. Records of water analyses for the water year 1975 are published on page 165.

AVERAGE DISCHARGE.--51 years (1903-8, 1929-75), 1,384 ft³/s (39.19 m³/s), 21.58 in/yr (548 mm/yr).

EXTREMES.--Period of record: Maximum discharge, 15,800 ft³/s (447 m³/s) Apr. 30, 1973 (gage height, 12.43 ft or 3.789 m); minimum, 34 ft³/s (0.963 m³/s) Aug. 29, 1968.

Current year: Maximum discharge, 9,380 ft³/s (266 m³/s) May 14 (gage height, 9.24 ft or 2.816 m); minimum, 132 ft³/s (3.74 m³/s) Sept. 10, 11 (gage height, 2.35 ft or 0.716 m).

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	613	354	600	1150	620	340	640	3820	3890	1030	590	144
2	612	349	600	1100	610	340	680	4250	3830	957	566	144
3	638	349	580	1100	600	330	700	4700	3670	907	534	164
4	643	356	580	1050	580	330	720	5120	3500	848	510	163
5	639	361	570	1000	560	320	740	5780	3310	814	518	154
6	638	359	570	960	560	320	750	6590	3150	782	486	148
7	633	355	560	920	540	320	760	7430	3320	746	458	151
8	605	355	580	880	520	315	760	7920	3410	713	433	147
9	587	340	640	820	500	310	760	8200	3430	767	413	149
10	576	349	800	780	490	310	750	8390	3400	831	384	138
11	545	341	1050	760	480	305	725	8640	3370	804	359	132
12	543	336	1300	740	470	300	706	9060	3230	765	344	158
13	532	380	1500	740	460	300	692	9320	3230	722	325	192
14	530	503	1700	730	450	295	686	9290	3300	692	316	173
15	532	598	1800	740	440	290	693	9000	3180	740	294	164
16	507	672	1800	760	420	290	715	8650	3080	706	273	161
17	495	639	1800	780	420	290	753	8230	2910	647	262	158
18	488	758	1750	800	410	285	848	7650	2800	598	259	157
19	474	800	1700	780	400	295	1070	7080	2630	566	245	156
20	440	860	1700	780	400	310	1520	6600	2310	534	223	157
21	422	880	1650	760	390	325	1840	6650	2210	574	204	159
22	417	860	1600	760	380	340	2070	6360	2080	606	198	155
23	404	820	1550	740	375	360	2320	6400	1950	590	188	154
24	387	800	1500	740	370	370	2590	6080	1820	590	179	149
25	387	740	1450	720	360	380	2930	5730	1670	827	179	144
26	367	720	1400	700	360	410	3170	5390	1570	749	183	144
27	351	680	1350	700	355	430	3330	5090	1460	724	200	162
28	342	660	1300	680	350	470	3440	4910	1340	690	209	168
29	344	640	1300	660	---	510	3490	4620	1210	681	170	168
30	338	620	1250	650	---	560	3560	4330	1120	656	159	168
31	343	---	1200	640	---	600	---	4080	---	614	150	---
TOTAL	15372	16834	37730	25120	12870	10950	44408	205360	81380	22470	9811	4681
MEAN	496	561	1217	810	460	353	1480	6625	2713	725	316	156
MAX	643	880	1800	1150	620	600	3560	9320	3890	1030	590	192
MIN	338	336	560	640	350	285	640	3820	1120	534	150	132
CFSM	.57	.64	1.40	.93	.53	.41	1.70	7.61	3.11	.83	.36	.18
IN.	.66	.72	1.61	1.07	.55	.47	1.90	8.77	3.48	.96	.42	.20

CAL YR 1974 TOTAL 604024 MEAN 1655 MAX 11000 MIN 334 CFMS 1.90 IN 25.80
WTR YR 1975 TOTAL 486986 MEAN 1334 MAX 9320 MIN 132 CFMS 1.53 IN 20.80

ST. JOHN RIVER BASIN

37

01014000 ST. JOHN RIVER BELOW FISH RIVER, AT FORT KENT, MAINE

(International gaging station)

LOCATION.--Lat 47°15'27", long 68°35'35", Aroostook County, 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.

WATER DISCHARGE RECORDS

RECORDS AVAILABLE.--October 1926 to current year. Prior to October 1931, published as "at Fort Kent."

GAGE.--Water-stage recorder. Datum of gage is 488.9 ft (149.02 m) above mean sea level. Prior to Oct. 10, 1933, nonrecording gage on opposite bank at same datum.

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

REMARKS.--Records excellent except those for winter period, which are fair. Records of water analyses for the water year 1975 are published on page 165.

AVERAGE DISCHARGE.--49 years, 9,549 ft³/s (270 m³/s), 22.79 in/yr (579 mm/yr).

EXTREMES.--Period of record: Maximum discharge, 148,000 ft³/s (4,190 m³/s) May 1, 1974 (gage height, 26.95 ft or 8.21 m); minimum daily, 510 ft³/s (14.4 m³/s) Mar. 13-15, 1948.

Current year: Peak discharges above base of 45,000 ft³/s (1,274 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)
May 13	0700	*79,300 2,246	*19.54 5.956				

Minimum discharge, 1,320 ft³/s (37.4 m³/s) Aug. 26, gage height, 1.55 ft (0.472 m).

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	3700	2350	4000	3800	2550	1550	5800	26000	19000	3900	4150	1840
2	3800	2520	3750	3700	2500	1500	5600	31000	19000	3660	4240	1730
3	3800	2750	3600	3500	2450	1500	5400	40200	19000	3530	4000	1810
4	3700	3590	3600	3400	2400	1500	5200	47600	18000	3480	4330	2140
5	3600	3850	3500	3300	2300	1500	5000	53900	17000	3330	4540	4230
6	3400	3670	3500	3200	2250	1500	4900	62000	16000	3130	4610	4690
7	3200	3580	3500	3000	2200	1500	4800	69300	16500	2950	4060	3950
8	3000	3380	3600	2950	2150	1450	4700	71600	18000	2790	3530	3320
9	2900	3120	4000	2900	2100	1450	4600	71100	20000	3130	3090	3020
10	2800	2920	6000	2900	2050	1450	4500	71600	20500	3790	2720	2760
11	2900	2720	10500	2900	2000	1450	4400	72600	17200	3640	2440	2490
12	2810	2580	13200	2950	1950	1400	4350	76400	14800	3450	2230	2420
13	2740	2690	13300	3000	1900	1400	4200	78800	13700	3450	2070	2770
14	2660	3120	12300	3200	1850	1400	4100	76900	14600	3530	1990	6230
15	2660	4740	11000	3400	1800	1400	4100	74000	16200	3660	1940	7820
16	2660	5760	10100	3500	1800	1350	4300	69000	15100	3740	1850	6140
17	2740	5950	9200	3600	1750	1350	5000	63000	13500	3720	1760	4850
18	3070	5640	8200	3700	1700	1350	7000	56000	12000	3610	1760	4040
19	3360	5170	7600	3600	1700	1350	9600	50000	11000	3340	1750	3510
20	3270	4840	6900	3500	1700	1400	13500	46000	10200	3030	1640	3190
21	3220	4390	6400	3450	1700	1500	15000	41000	9280	2930	1520	3010
22	2970	3080	6100	3400	1650	1900	16000	39000	8380	3150	1470	2890
23	2740	2920	5800	3300	1650	2400	18000	38000	7690	3410	1460	2890
24	2600	3160	5400	3200	1600	3200	21000	37000	7230	3160	1400	2780
25	2490	3700	5200	3100	1600	4600	25000	34000	6570	4160	1360	2580
26	2390	3650	4900	3000	1600	6000	28000	31000	5940	6700	1360	2440
27	2370	3400	4700	2900	1600	6600	30000	27000	5420	7370	1570	2550
28	2190	3300	4500	2800	1550	6400	28000	25000	4950	6430	1800	3160
29	2200	3800	4300	2750	---	6400	27000	23000	4560	5310	1960	4700
30	2190	4200	4100	2700	---	6200	26000	21000	4200	4670	1960	5010
31	2220	---	4000	2600	---	6000	---	20000	---	4180	2040	---
TOTAL	90350	110540	196750	99200	54050	79950	345050	1543000	385520	120330	76600	104960
MEAN	2915	3685	6347	3200	1930	2579	11500	49770	12850	3882	2471	3499
MAX	3800	5950	13300	3800	2550	6600	30000	78800	20500	7370	4610	7820
MIN	2190	2350	3500	2600	1550	1350	4100	20000	4200	2790	1360	1730
CFSM	.51	.65	1.12	.56	.34	.45	2.02	8.75	2.26	.68	.43	.61
IN.	.59	.72	1.29	.65	.35	.52	2.26	10.09	2.52	.79	.50	.69
CAL YR 1974	TOTAL	4327720	MEAN	11860	MAX	130000	MIN	1550	CFSM	2.08	IN	28.29
WTR YR 1975	TOTAL	3206300	MEAN	8784	MAX	78800	MIN	1350	CFSM	1.54	IN	20.96

ST. JOHN RIVER BASIN

01015800 AROOSTOOK RIVER NEAR MASARDIS, MAINE

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

DRAINAGE AREA.--888 mi² (2,300 km²).

WATER DISCHARGE RECORDS

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

GAGE.--Water-stage recorder. Datum of gage is 530.0 ft (161.54 m) above mean sea level.

REMARKS.--Records excellent. Considerable regulation by Millinocket Lake (capacity 1,110,000,000 ft³ or 31,400,000 m³) used for power. Records of water analyses for the water year 1975 are published on page 165.

AVERAGE DISCHARGE.--18 years, 1,458 ft³/s (41.29 m³/s), 22.30 in/yr (566 mm/yr), adjusted for storage.

EXTREMES.--Period of record: Maximum discharge, 21,500 ft³/s (609 m³/s) Apr. 25, 1958 (gage height, 16.30 ft or 4.968 m); minimum, 41 ft³/s (1.16 m³/s) Sept. 26, 27, 1968 (gage height, 1.89 ft or 0.576 m).

Current year: Maximum discharge, 11,900 ft³/s (337 m³/s) May 8 (gage height, 13.27 ft or 4.045 m); minimum daily, 123 ft³/s (3.48 m³/s) Sept. 1.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	
1	990	279	620	740	400	235	1050	4450	1910	473	326	123	
2	911	302	600	740	380	235	960	5780	2070	425	365	126	
3	856	316	610	720	370	230	900	7350	2050	386	376	133	
4	836	310	660	720	360	230	840	8310	1820	428	375	146	
5	780	305	680	710	350	230	800	9270	1720	427	401	150	
6	705	298	650	700	330	230	760	9860	1590	395	386	148	
7	623	289	640	690	325	230	720	10800	2740	350	365	215	
8	542	277	620	680	320	230	700	11800	5420	306	332	218	
9	482	265	720	680	310	230	670	11600	5670	278	302	217	
10	430	255	960	670	300	230	650	11000	4990	263	277	211	
11	407	244	1600	660	300	230	640	10400	4130	267	257	207	
12	389	240	2000	670	290	230	620	10400	3130	254	250	208	
13	383	300	1800	680	280	230	620	10400	2590	240	242	245	
14	378	619	1700	700	280	230	620	9970	3130	234	249	288	
15	380	871	1600	720	275	230	640	8840	3410	239	248	275	
16	403	1050	1500	750	270	225	740	7320	3140	308	240	258	
17	414	1030	1400	720	265	225	900	5780	2660	387	222	242	
18	413	914	1300	660	260	225	1200	4790	2220	329	206	227	
19	404	819	1200	610	260	225	1500	3950	1920	280	196	215	
20	382	710	1100	560	255	235	2600	3330	1700	244	185	208	
21	350	491	1050	540	250	270	3900	3000	1470	248	172	204	
22	320	790	1000	520	245	350	4400	2760	1280	466	165	198	
23	315	740	960	480	240	500	4800	2910	1130	828	161	192	
24	303	700	920	470	240	700	5000	2840	1010	763	151	190	
25	293	680	880	450	240	1100	5300	2460	898	654	144	183	
26	288	660	860	430	240	1250	5600	2100	785	618	141	180	
27	285	680	830	430	240	1300	5290	1990	701	559	146	199	
28	262	720	810	450	240	1250	4980	2300	631	462	149	277	
29	265	720	790	450	---	1250	4570	2580	576	392	144	367	
30	254	660	780	430	---	1200	4260	2320	517	351	136	369	
31	262	---	760	420	---	1150	---	2030	---	321	128	---	
TOTAL	14305	16534	31600	18850	8115	14915	66230	192690	67008	12175	7437	6419	
MEAN	461	551	1019	608	290	481	2208	6216	2234	393	240	214	
MAX	990	1050	2000	750	400	1300	5600	11800	5670	828	401	369	
MIN	254	240	600	420	240	225	620	1990	517	234	128	123	
MEAN*	448	583	1032	376	206	477	2208	6569	2201	357	209	140	
CFSM*	.50	.66	1.16	.42	.23	.54	2.49	7.40	2.48	.40	.24	.16	
IN.*	.58	.73	1.34	.49	.24	.62	2.78	8.53	2.77	.46	.27	.18	
CAL YR 1974 TOTAL	545922			1496	MAX	17000	MIN	207	MEAN*	1492	CFSM*	1.68	
WTR YR 1975 TOTAL	456278			MEAN	1250	MAX	11800	MIN	123	MEAN*	1242	CFSM*	1.40
											IN.*	22.78	
											IN.*	18.99	

*Adjusted for change in contents in Millinocket Lake. Records furnished by Maine Public Service Co.

01016500 MACHIAS RIVER NEAR ASHLAND, MAINE

LOCATION.--Lat 46°37'42", long 68°26'07", Aroostook County, 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).

WATER DISCHARGE RECORDS

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

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

REVISIONS.--WSP 1501: Drainage area.

REMARKS.--Records excellent except those for winter period, which are fair. Records of water analyses for the water year 1975 are published on page 165.

AVERAGE DISCHARGE.--24 years, 554 ft³/s (15.69 m³/s), 22.80 in/yr (579 mm/yr).

EXTREMES.--Period of record: Maximum discharge, 16,600 ft³/s (470 m³/s) June 29, 1954 (gage height, 11.94 ft or 3.639 m), from rating curve extended above 7,900 ft³/s (224 m³/s); minimum, 5.4 ft³/s (0.15 m³/s) Sept. 17, 1952.

Current year: Peak discharges above base of 3,200 ft³/s (90.6 m³/s) and maximums (*):

Date	Time	Discharge (ft ³ /s) (m ³ /s)	Gage height (ft) (m)	Date	Time	Discharge (ft ³ /s) (m ³ /s)	Gage height (ft) (m)
Apr. 21	0800	ice jam	*5.71 1.740	May 13	0900	*4,960 140	5.56 1.695

Minimum discharge, 33 ft³/s (0.93 m³/s) Aug. 31, Sept. 1, 2, gage height, 0.49 ft (0.149 m).

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	308	124	200	250	125	80	375	1620	820	154	136	33
2	294	133	195	240	120	80	350	2050	894	144	124	34
3	303	137	190	230	115	80	320	2610	899	153	112	49
4	309	138	185	225	110	80	300	3010	812	152	106	57
5	304	137	180	220	110	80	280	3550	732	144	104	55
6	290	137	180	215	110	80	265	3900	662	131	111	50
7	268	135	175	210	105	79	255	4490	1320	116	106	51
8	247	132	175	205	100	79	245	4630	2080	106	97	50
9	222	126	190	200	100	78	240	4370	2090	99	89	51
10	205	121	700	200	98	78	230	4210	1800	98	81	48
11	194	116	870	205	96	78	225	4300	1430	100	75	46
12	188	115	840	210	94	78	220	4620	1120	96	79	55
13	181	159	780	230	92	78	220	4910	980	95	79	108
14	176	316	700	245	91	77	220	4800	1040	94	72	121
15	176	411	640	225	90	77	225	4220	1040	128	64	99
16	178	537	600	200	89	76	240	3610	945	202	60	89
17	173	542	550	180	88	76	260	3140	800	164	53	83
18	171	500	510	165	87	76	290	2750	669	124	50	78
19	171	456	475	155	86	76	340	2280	611	106	47	74
20	162	417	450	145	85	80	400	1910	570	95	45	71
21	151	314	420	140	84	96	560	1810	501	97	42	69
22	148	271	400	130	84	140	800	1790	439	222	43	65
23	140	250	380	130	83	220	1200	2030	391	229	42	63
24	136	250	350	120	82	380	1600	1940	344	203	38	61
25	132	260	340	120	82	610	1920	1670	304	194	37	58
26	127	250	320	120	82	680	1990	1370	267	210	38	57
27	127	240	300	130	81	640	1840	1190	239	187	44	75
28	115	230	290	135	80	570	1690	1160	215	160	44	114
29	114	220	280	135	---	500	1460	1120	191	174	40	122
30	116	210	270	130	---	450	1350	984	169	168	36	111
31	118	---	260	130	---	410	---	871	---	150	34	---
TOTAL	5944	7384	12395	5575	2649	6262	19910	86915	24374	4495	2128	2097
MEAN	192	246	400	180	94.6	202	664	2804	812	145	68.6	69.9
MAX	309	542	870	250	125	680	1990	4910	2090	229	136	122
MIN	114	115	175	120	80	76	220	871	169	94	34	33
CFSM	.58	.75	1.21	.55	.29	.61	2.01	8.50	2.46	.44	.21	.21
IN.	.67	.83	1.40	.63	.30	.71	2.24	9.80	2.75	.51	.24	.24

CAL YR 1974	TOTAL	215264	MEAN 590	MAX 7980	MIN 84	CFSM 1.79	IN 24.27
WTR YR 1975	TOTAL	180128	MEAN 494	MAX 4910	MIN 33	CFSM 1.50	IN 20.31

ST. JOHN RIVER BASIN

01017000 AROOSTOOK RIVER AT WASHBURN, MAINE

LOCATION.--Lat 46°46'36", long 68°09'29", Aroostook County, 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).

WATER DISCHARGE RECORDS

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

GAGE.--Water-stage recorder. Datum of gage is 436.40 ft (133.015 m) above mean sea level. Prior to Oct. 1, 1948, at datum 2.00 ft (0.610 m) higher.

REVISIONS (WATER YEARS).--WSP 951: 1935. WSP 1301: 1933-50 (adjusted monthly runoff). WSP 1501: Drainage area.

REMARKS.--Records excellent except those for winter period, which are fair. Considerable regulation by Squa Pan Lake (capacity, 2,893,000,000 ft³ or 81,900,000 m³), and by Millinocket Lake (capacity, 1,110,000,000 ft³ or 31,400,000 m³) used for power.

AVERAGE DISCHARGE.--45 years, 2,601 ft³/s (73.66 m³/s), 21.38 in/yr (543 mm/yr), unadjusted.

EXTREMES.--Period of record: Maximum discharge, 43,100 ft³/s (1,220 m³/s) Apr. 30, 1973 (gage height, 13.68 ft or 4.170 m, present datum); maximum gage height, 15.78 ft (4.810 m) Apr. 6, 1951 (backwater from ice); minimum daily discharge, 75 ft³/s (2.12 m³/s) Feb. 13-15, 1948.

Current year: Maximum discharge, 20,200 ft³/s (572 m³/s) May 8 (gage height, 9.41 ft or 2.868 m); maximum gage height, 9.46 ft (2.883 m) Apr. 22 (backwater from ice); minimum daily discharge, 179 ft³/s (5.07 m³/s) Sept. 1, 2.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1550	470	1100	1400	860	540	1800	8390	3610	731	584	179
2	1540	491	1050	1350	840	530	1600	10600	3800	674	544	179
3	1770	512	1000	1300	810	530	1500	13000	3880	713	535	188
4	1640	520	970	1300	800	520	1450	14500	3520	643	531	228
5	1570	521	940	1300	770	520	1400	16100	3220	672	542	281
6	1430	519	920	1250	750	520	1350	17400	2980	636	604	223
7	1290	510	920	1250	740	520	1300	19000	4550	581	559	218
8	1130	501	900	1200	720	520	1250	20100	8570	527	515	260
9	1040	486	960	1200	700	520	1250	19800	9330	474	470	343
10	953	472	1300	1200	680	520	1200	18800	8220	439	575	337
11	854	450	3600	1200	670	520	1200	18200	6900	421	415	328
12	811	443	3800	1200	660	520	1200	18300	5540	413	383	353
13	598	489	3500	1250	650	530	1150	18700	4510	399	374	439
14	587	892	3300	1300	640	530	1150	18100	4990	393	368	461
15	575	1690	3100	1400	630	530	1300	16300	5400	432	355	469
16	573	2280	2800	1400	620	540	1600	14100	5070	628	335	469
17	593	2390	2600	1350	610	540	2000	11600	4360	647	322	435
18	598	2170	2500	1300	600	540	2500	9630	3700	615	306	409
19	594	1930	2300	1200	580	540	3300	8010	3210	584	296	391
20	729	1670	2200	1100	580	620	6800	6760	2880	501	267	373
21	648	1550	2100	1050	570	740	8800	6580	2540	440	247	304
22	724	1350	2000	1000	560	940	9000	6510	2210	511	237	290
23	666	1250	1800	980	550	1200	10000	7200	1950	997	229	335
24	655	1200	1800	940	540	1500	10500	6790	1730	1190	217	330
25	648	1150	1700	900	540	1800	11000	5760	1510	1080	209	322
26	626	1130	1600	880	540	2000	11000	4810	1310	1040	201	323
27	487	1100	1600	880	540	2100	10100	4340	1150	1020	206	376
28	470	1130	1500	880	540	2100	9750	4390	1050	834	204	400
29	449	1130	1500	900	---	2100	9070	4740	1020	950	197	487
30	452	1100	1500	900	---	2000	8000	4360	885	853	191	623
31	458	---	1400	870	---	1900	---	3860	---	696	183	---
TOTAL	26708	31496	58260	35630	18290	29030	133520	356730	113595	20734	11201	10353
MEAN	862	1050	1879	1149	653	936	4451	11510	3787	669	361	345
MAX	1770	2390	3800	1400	860	2100	11000	20100	9330	1190	604	623
MIN	449	443	900	870	540	520	1150	3860	885	393	183	179
MEAN*	748	1128	1901	667	326	624	4465	12520	3861	625	294	222
CFSM*	.45	.68	1.15	.40	.20	.38	2.70	7.58	2.34	.38	.18	.13
IN.*	.52	.76	1.33	.47	.21	.44	3.01	8.74	2.61	.44	.21	.15

CAL YR 1974 TOTAL 1020753 MEAN 2797 MAX 38300 MIN 291 MEAN* 2778 CFSM* 1.68 IN.* 22.69
WTR YR 1975 TOTAL 845547 MEAN 2317 MAX 20100 MIN 179 MEAN* 2297 CFSM* 1.39 IN.* 18.89

*Adjusted for change in contents in Millinocket and Squa Pan Lakes. Records furnished by Maine Public Service Co.

LOCATION.--Lat 46°50'57", long 68°80'12", Aroostook County, on left bank of powerhouse intake pool of Maine Public Service Corporation at Caribou Dam.

WATER QUALITY RECORDS

PERIOD OF RECORD.--WATER ANALYSES: Current year.

		SPECIFIC CONDUCTANCE (MICROMHOS)		PH	TEMPERATURE (DEG C)	DISSOLVED OXYGEN (MG/L)	DISSOLVED OXYGEN SATURATION (%)	IMMEDIATE COLIFORM (COL. PER 100 ML)	FECAL COLIFORM (COL. PER 100 ML)	STREPTOCOCCI (COLONIES PER 100 ML)	TOTAL PHOSPHORUS (P) (MG/L)	TOTAL NITROGEN (N) (MG/L)
DATE	TIME	DISCHARGE (CFS)		(UNITS)								
OCT. 22...	1230	775	110	7.2	1.0	14.2	100	1800	400	65	.09	.42
NOV. 14...	1630	725	123	7.3	5.0	12.4	97	450	170	56	.13	.57
DEC. 10...	1400	3800	128	6.8	.0	11.4	78	1700	120	130	.06	1.1
JAN. 28...	1400	1310	112	6.7	.5	7.4	51	2700	46	65	.09	.91
FEB. 26...	1330	830	125	6.5	1.0	6.0	42	2800	898	280	.19	.94
MAR. 31...	1345	2540	80	6.6	.0	11.0	75	360	51	812	.05	.80
APR. 30...	1300	9580	76	6.7	1.0	12.0	84	2200	74	180	.04	.74
MAY 31...	1600	1020	72	6.9	13.5	7.5	71	3000	8600	1000	.11	.77
JUNE 23...	1300	2420	76	7.2	21.0	8.0	89	5800	39	62	.04	.45
JULY 31...	1600	882	110	7.3	23.0	9.0	103	5000	26	822	.04	.57
AUG. 20...	1400	321	110	8.3	21.0	8.2	91	1400	83	81	.04	.40
SEP. 11...	1130	415	125	8.5	17.5	10.2	106	150	84	83	.05	.34

[illegible]

ST. JOHN RIVER BASIN

01017100 AROOSTOOK RIVER AT CARIBOU, MAINE--Continued

WATER ANALYSES, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975

DATE	HARD- NESS (CA+MG) (MG/L)	NON- CAR- BONATE HARD- NESS (MG/L)	DIS- SOLVED CAL- CIUM (CA) (MG/L)	DIS- SOLVED MAG- NE- SIUM (MG) (MG/L)	DIS- SOLVED SODIUM (NA) (MG/L)	DIS- SOLVED PO- TAS- SIUM (K) (MG/L)	DIS- SOLVED CHLO- RIDE (CL) (MG/L)	DIS- SOLVED SULFATE (SO4) (MG/L)	DIS- SOLVED FLUO- RIDE (F) (MG/L)	DIS- SOLVED SILICA (SiO2) (MG/L)	DIS- SOLVED SOLIDS (RESI- DUE AT 180 C) (MG/L)	DIS- SOLVED SOLIDS (SUM OF CONSTITUENTS) (MG/L)
OCT.												
22...	--	--	--	--	--	--	--	--	--	--	--	--
NOV.												
14...	--	--	--	--	--	--	--	--	--	--	--	--
DEC.												
10...	47	17	15	2.4	2.7	1.4	4.5	11	.1	4.7	88	60
JAN.												
28...	--	--	--	--	--	--	--	--	--	--	--	--
FEB.												
26...	39	0	12	2.2	4.1	2.4	3.5	6.1	.2	4.7	98	61
MAR.												
31...	--	--	--	--	--	--	--	--	--	--	--	--
APR.												
30...	--	--	--	--	--	--	--	--	--	--	--	--
MAY												
31...	30	9	9.9	1.4	1.7	.6	1.9	6.0	.3	3.4	65	38
JUNE												
23...	--	--	--	--	--	--	--	--	--	--	--	--
JULY												
31...	--	--	--	--	--	--	--	--	--	--	--	--
AUG.												
20...	52	6	16	3.0	2.7	.4	1.9	7.9	.2	1.2	83	61
SEP.												
11...	--	--	--	--	--	--	--	--	--	--	--	--

DATE	DIS- SOLVED ARSENIC (AS) (UG/L)	SUS- PENDED ARSENIC (AS) (UG/L)	TOTAL ARSENIC (AS) (UG/L)	DIS- SOLVED CAD- MIUM (CD) (UG/L)	SUS- PENDED CAD- MIUM (CD) (UG/L)	TOTAL CAD- MIUM (CD) (UG/L)	DIS- SOLVED CHRO- MIUM (CR) (UG/L)	SUS- PENDED CHRO- MIUM (CR) (UG/L)	TOTAL CHRO- MIUM (CR) (UG/L)	DIS- SOLVED COBALT (CO) (UG/L)	SUS- PENDED COBALT (CO) (UG/L)
DEC.											
10...	2	0	1	1	0	0	0	<10	<10	1	1
FEB.											
26...	0	0	0	0	0	0	<10	0	10	0	0
MAY											
31...	1	0	1	0	0	0	20	0	10	0	0
AUG.											
20...	0	0	0	1	0	0	<10	0	10	0	2

DATE	TOTAL COBALT (CO) (UG/L)	DIS- SOLVED COPPER (CU) (UG/L)	SUS- PENDED COPPER (CU) (UG/L)	TOTAL COPPER (CU) (UG/L)	DIS- SOLVED IRON (FE) (UG/L)	TOTAL IRON (FE) (UG/L)	DIS- SOLVED LEAD (PB) (UG/L)	SUS- PENDED LEAD (PB) (UG/L)	TOTAL LEAD (PB) (UG/L)	DIS- SOLVED MAN- GANESE (MN) (UG/L)	SUS- PENDED MAN- GANESE (MN) (UG/L)
DEC.											
10...	2	0	0	0	110	410	6	28	34	40	0
FEB.											
26...	0	0	0	0	90	180	2	11	13	40	0
MAY											
31...	0	10	0	10	100	270	8	41	49	20	10
AUG.											
20...	2	0	0	0	20	190	6	63	69	10	30

DATE	TOTAL MAN- GANESE (MN) (UG/L)	DIS- SOLVED MERCURY (HG) (UG/L)	SUS- PENDED MERCURY (HG) (UG/L)	TOTAL MERCURY (HG) (UG/L)	DIS- SOLVED SELE- NIUM (SE) (UG/L)	SUS- PENDED SELE- NIUM (SE) (UG/L)	TOTAL SELE- NIUM (SE) (UG/L)	DIS- SOLVED ZINC (ZN) (UG/L)	SUS- PENDED ZINC (ZN) (UG/L)	TOTAL ZINC (ZN) (UG/L)	DIS- SOLVED SOLIDS (TONS PER DAY)
DEC.											
10...	30	<.5	.0	<.5	0	0	0	0	10	10	903
FEB.											
26...	40	<.5	.0	<.5	0	0	0	0	0	0	220
MAY											
31...	30	<.5	.0	<.5	0	0	0	10	0	10	179
AUG.											
20...	40	<.5	.0	<.5	1	0	1	0	10	10	71.9

QUALITATIVE AND QUANTITATIVE ANALYSES OF BIOLOGICAL DATA, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975

DATE	TIME	ORGANISM	COUNT (CELLS/ML)	PERCENT OF TOTAL	SAMPLING METHOD
OCT. 22	1230	CHLOROPHYTA			DEPTH INTEGRATED
		..CHLOROPHYCEAE			
		...ZYGNEMATALES			
		...DESMIDIACEAE			
		CLOSTERIUM	36	5	
		CHRYSTOPHYTA			
		..BACILLARIOPHYCEAE			
		..CENTRALES			
		...COSCIKODISCACEAE			
		CYCLOTETLA	36	5	
		MELOSIRA	73	9	
		..PENNALES			
		...DIATOMACEAE			
		DIATOMA	36	5	
		...FRAGILARIACEAE			
		SYNEDRA	400	50	
		...NAVICULACEAE			
		NAVICULA	110	14	
		...NITZSCHIA			
		NITZSCHIA	73	9	
		...TABELLARIACEAE			
		TABELLARIA	36	5	
		TOTAL	800		
NOV. 14	1630	CHRYSTOPHYTA			DEPTH INTEGRATED
		..BACILLARIOPHYCEAE			
		..PENNALES			
		...ACHNANTHACEAE			
		ACHNANTHES	15	1	
		...CYMBELLACEAE			
		CYMBELLA	30	2	
		...DIATOMACEAE			
		DIATOMA	30	2	
		...GOMPHONEMACEAE			
		GOMPHONEMA	15	1	
		...NAVICULACEAE			
		NAVICULA	180	11	
		...NITZSCHIA			
		NITZSCHIA	1,100	70	
		CYANOPHYTA			
		..MYXOPHYCEAE			
		...OSCILLATORIALES			
		OSCILLATORIA			
		LYNGBYA	220	14	
		TOTAL	1,600		
DEC. 10	1400	CHLOROPHYTA			DEPTH INTEGRATED
		..CHLOROPHYCEAE			
		...CHLOROCOCCALES			
		...OCCYSTACEAE			
		ANKISTRODESMUS	35	2	
		CHRYSTOPHYTA			
		..BACILLARIOPHYCEAE			
		..CENTRALES			
		...COSCIKODISCACEAE			
		CYCLOTETLA	35	2	
		..PENNALES			
		...ACHNANTHACEAE			
		ACHNANTHES	110	7	
		...CYMBELLACEAE			
		CYMBELLA	35	2	
		...DIATOMACEAE			
		DIATOMA	35	2	
		...NAVICULACEAE			
		NAVICULA	35	2	
		...NITZSCHIA			
		NITZSCHIA	1,200	81	
		TOTAL	1,500		
JAN. 28	1400	CHRYSTOPHYTA			DEPTH INTEGRATED
		..BACILLARIOPHYCEAE			
		..PENNALES			
		...FRAGILARIACEAE			
		ASTERIONELLA	6	14	
		SYNEDRA	18	43	
		...GOMPHONEMACEAE			
		GOMPHONEMA	12	29	
		CHRYSTOPHYCEAE			
		...CHRYSONOMADALES			
		...OCHROMONADACEAE			
		DINOBRYON	6	14	
		TOTAL	41		

01017100 AROOSTOOK RIVER AT CARIBOU, MAINE--Continued

QUALITATIVE AND QUANTITATIVE ANALYSES OF BIOLOGICAL DATA, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975

PHYTOPLANKTON

DATE	TIME	ORGANISM	COUNT (CELLS/ML)	PERCENT OF TOTAL	SAMPLING METHOD
FEB. 26	1330	CHRYSOPHYTA			DEPTH INTEGRATED
		..BACILLARIOPHYCEAE			
		..PENNALES			
		...ACHNANTHACEAE			
		ACHNANTHES	23	44	
		...GOMPHONEMATACEAE			
		GOMPHONEMA	6	11	
		...NITZSCHIA			
		NITZSCHIA	11	22	
		...TABELLARIA			
		TABELLARIA	6	11	
		..CHRYSOPHYCEAE			
		...CHRYSONOMADALES			
		...OCHROMONADALES			
		DINOBRYON	6	11	
		TOTAL	52		
MAR. 31	1345	CHRYSOPHYTA			DEPTH INTEGRATED
		..BACILLARIOPHYCEAE			
		..PENNALES			
		...ACHNANTHACEAE			
		ACHNANTHES	26	18	
		...DIATOMACEAE			
		DIATOMA	9	6	
		...FRAGILARIACEAE			
		ASTERIONELLA	34	24	
		FRAGILARIA	9	6	
		SYNEDRA	9	6	
		...GOMPHONEMATACEAE			
		GOMPHONEMA	9	6	
		...MERIDIONACEAE			
		MERIDION	9	6	
		...NAVICULACEAE			
		NAVICULA	9	6	
		...NITZSCHIA			
		NITZSCHIA	34	24	
		TOTAL	150		
APR. 30	1300	CHLOROPHYTA			DEPTH INTEGRATED
		..CHLOROPHYCEAE			
		..CHLOROCOCCALES			
		...OCCYSTACEAE			
		ANKISTRODESMUS	15	5	
		CHRYSOPHYTA			
		..BACILLARIOPHYCEAE			
		..CENTRALES			
		...COSCINODISCACEAE			
		CYCLOTELLA	7	3	
		..PENNALES			
		...ACHNANTHACEAE			
		ACHNANTHES	66	23	
		...CYMBELLACEAE			
		CYMBELLA	7	3	
		...DIATOMACEAE			
		DIATOMA	15	5	
		...FRAGILARIACEAE			
		HANNAEA			
		HANNAEA ARCUS	7	3	
		...GOMPHONEMATACEAE			
		GOMPHONEMA	30	10	
		...NAVICULACEAE			
		NAVICULA	89	30	
		...NITZSCHIA			
		NITZSCHIA	37	13	
		...TABELLARIA			
		TABELLARIA	22	8	
		TOTAL	300		

01017100 AROOSTOOK RIVER AT CARIBOU, MAINE--Continued

QUALITATIVE AND QUANTITATIVE ANALYSES OF BIOLOGICAL DATA, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975

PHYTOPLANKTON

DATE	TIME	ORGANISM	COUNT (CELLS/ML)	PERCENT OF TOTAL	SAMPLING METHOD
MAY 31	1600	CHLOROPHYTA ..CHLOROPHYCEAE ..VOLVOCALES ...CHLAMYDOMONADACEAECHLAMYDOMONAS CHRYSOPHYTA ..BACILLARIOPHYCEAE ..CENTRALES ...COSCINODISCACEAECYCLOTELLA ..PENNALES ...ACHNANTHACEAEACHNANTHES ...CYMBELLACEAECYMBELLA ...DIATOMACEAEDIATOMA ...EUNOTIACEAEEUNOTIA ...FRAGILARIACEAESYNEDRA ...GOMPHONEMACEAEGOMPHONEMA ...NAVICULACEAENAVICULA ...NITZSCHIACEAENITZSCHIA TOTAL	15 15 58 29 44 44 150 15 73 58 500	3 3 12 6 9 9 29 3 15 12	DEPTH INTEGRATED
JUNE 23	1300	CHRYSOPHYTA ..BACILLARIOPHYCEAE ..CENTRALES ...COSCINODISCACEAECYCLOTELLA ..PENNALES ...ACHNANTHACEAEACHNANTHES ...CYMBELLACEAECYMBELLA ...FRAGILARIACEAESYNEDRA ...NAVICULACEAENAVICULA ...NITZSCHIACEAENITZSCHIA TOTAL	160 84 160 84 1,200 160 1,900	9 4 9 4 65 9	DEPTH INTEGRATED
JULY 31	1600	CHLOROPHYTA ..CHLOROPHYCEAE ..CHLOROCOCCALES ...COELASTRACEAECOELASTRUM ...HYDRODICTYACEAEPEDIASTRUM ...OCCYSTACEAEANKISTRODESMUSDICTYOSPHAERIUM ...SCENEDESMACEAECRUCIGENIASCENEDESMUS ...TETRASPORALES ...COCCOMYXACEAEELAKATOTHRIX ..ZYGNEMATALES ...DESMIDIACEAECLOSTERIUMEUASTRUM CHRYSOPHYTA ..BACILLARIOPHYCEAE ..CENTRALES ...COSCINODISCACEAECYCLOTELLA ..PENNALES ...ACHNANTHACEAEACHNANTHES ...CYMBELLACEAECYMBELLA ...FRAGILARIACEAESYNEDRA ...GOMPHONEMACEAEGOMPHONEMA ...NAVICULACEAENAVICULA ...NITZSCHIACEAENITZSCHIA CYANOPHYTA ..MYXOPHYCEAE ..CHROOCOCCALES ...CHROOCOCCACEAEAGMENELLUMANACYSTIS TOTAL	3,200 90 540 180 810 90 360 90 45 45 360 90 720 270 6,900	47 1 8 3 12 1 5 1 1 1 5 1 10 4	DEPTH INTEGRATED

01017100 AROOSTOOK RIVER AT CARIBOU, MAINE--Continued

QUALITATIVE AND QUANTITATIVE ANALYSES OF BIOLOGICAL DATA, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975

PHYTOPLANKTON

DATE	TIME	ORGANISM	COUNT (CELLS/ML)	PERCENT OF TOTAL	SAMPLING METHOD
AUG. 20	1400	CHLOROPHYTA			DEPTH INTEGRATED
		..CHLOROPHYCEAE			
		...CHLOROCOCCALES			
		...COELASTRACEAE			
		COELASTRUM	1,300	7	
		...HYDRODICTYACEAE			
		PEDIASTRUM			
		...MICRACTINIACEAE			
		MICRACTINIUM	170	1	
		...OCCYSTACEAE			
		ANKISTRODESMUS	12,000	64	
		SELENASTRUM	170	1	
		...SCENEDESMACEAE			
		SCENEDESMUS	2,200	12	
		..VOLVOCALES			
		...VOLVOCAEAE			
		EUDORINA			
		..ZYGNEATALES			
		...DESMIDIACEAE			
		COSMARIUM	86		
		CHRYSTOPHYTA			
		..BACILLARIOPHYCEAE			
		...CENTRALES			
		...COSCINODISCACEAE			
		CYCLOTELLA	340	2	
		...PENNALES			
		...ACHNANTHACEAE			
		ACHNANTHES	1,300	7	
		...CYMBELLACEAE			
		CYMBELLA			
		...DIATOMACEAE			
		DIATOMA			
		...GOMPHONEMACEAE			
		GOMPHONEMA	86		
		...NAVICULACEAE			
		NAVICULA	600	3	
		...NITZSCHACEAE			
		NITZSCHIA	260	1	
		..CHRYSTOPHYCEAE			
		...CHRYSOMONADALES			
		...MALLOMONADACEAE			
		MALLOMONAS			
		CYANOPHYTA			
		..MYXOPHYCEAE			
		...CHROOCOCCALES			
		...CHROOCOCCACEAE			
		ANACYSTIS	340	2	
		TOTAL	19,000		

01017100 AROOSTOOK RIVER AT CARIBOU, MAINE--Continued

QUALITATIVE AND QUANTITATIVE ANALYSES OF BIOLOGICAL DATA, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975

PHYTOPLANKTON

DATE	TIME	ORGANISM	COUNT (CELLS/ML)	PERCENT OF TOTAL	SAMPLING METHOD
SEP. 11	2400	CHLOROPHYTA			DEPTH INTEGRATED
		..CHLOROPHYCEAE			
		...CHLOROCOCCALES			
		...COELASTRACEAE			
		COELASTRUM	1,200	17	
		...HYDRODICTYACEAE			
		PEDIATRUM	400	5	
		...OCCYSTACEAE			
		ANKISTRODESMUS			
		DICTYOSPHAERIUM	640	8	
		OCCYSTIS	2,300	31	
		TETRAEDRON			
		...SCENEDESMACEAE			
		SCENEDESMUS	970	13	
		..VOLVOCALES			
		...VOLVOCAEAE			
		EUDORINA			
		PANDORINA			
		..ZYGNEMATALES			
		...DESMIDIACEAE			
		COSMARIIUM	81	1	
		STAURASTRUM			
		CHRYSTOPHYTA			
		..BACILLARIOPHYCEAE			
		...CENTRALES			
		...COSCINODISCAEAE			
		CYCLOTELLA	160	2	
		MELOSIRA			
		..PENNALES			
		...ACHNANTHACEAE			
		ACHNANTHES	81	1	
		COCCONEIS	81	1	
		...CYMBELLACEAE			
		AMPHORA			
		CYMBELLA	160	2	
		...DIATOMACEAE			
		DIATOMA			
		...FRAGILARIACEAE			
		FRAGILARIA			
		SYNEDRA	81	1	
		...GOMPHONEMATAEAE			
		GOMPHONEMA	81	1	
		...NAVICULACEAE			
		NAVICULA	320	4	
		...NITZSCHIAEAE			
		NITZSCHIA	240	3	
		...SURIPELLACEAE			
		SURIPELLA			
		...TABELLARIAEAE			
		TABELLARIA			
		CYANOPHYTA			
		..MYXOPHYCEAE			
		...CHROOCOCCALES			
		...CHROOCOCCACEAE			
		AGMENELLUM			
		ANACYSTIS	720	9	
		TOTAL	7,600		

PERIPHYTON

DATE	LENGTH OF EXPOSURE (DAYS)	BIOMASS(G/SQ M)		CHLOROPHYLL	CHLOROPHYLL	BIOMASS PIGMENT RATIO	SAMPLING METHOD
		DRY WEIGHT	ASH WEIGHT	A (MG/SQ M)	B (MG/SQ M)		
DEC. 10	26	1.5	0.8	0.0	0.0	--	POLYETHYLENE STRIP
JUNE 23	23	1.8	1.3	1.5	0.1	370	POLYETHYLENE STRIP
JULY 31	38	0.0	0.5	0.6	0.1	930	POLYETHYLENE STRIP

ST. JOHN RIVER BASIN

01017900 MARLEY BROOK NEAR LUDLOW, MAINE

LOCATION.--Lat 46°08'42", long 68°03'42", Aroostook County, 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).

WATER DISCHARGE RECORDS

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

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

REMARKS.--Records good except those for winter period, which are fair. Records of water analyses for the water year 1975 are published on page 165.

AVERAGE DISCHARGE.--11 years (1965-75), 2.53 ft³/s (0.0716 m³/s), 23.37 in/yr (594 mm/yr).

EXTREMES.--Period of record: Maximum discharge, 335 ft³/s (9.49 m³/s) July 5, 1973 (gage height, 10.36 ft or 3.158 m); minimum discharge, 0.02 ft³/s (0.001 m³/s) Aug. 31, Sept. 1-4, 1966, Aug. 12, 1968, and Aug. 16, 1974.

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)
Dec. 9	1400	35 0.99	4.90 1.494	June 7	0845	*39 1.10	*4.99 1.521
Apr. 20	0400	34 0.96	4.87 1.484	June 14	0815	25 0.71	4.68 1.426
May 1	1900	36 1.02	4.93 1.503				

Minimum discharge, 0.03 ft³/s (0.001 m³/s) Sept. 8, 9, gage height, 3.49 ft (1.064 m).

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1.5	1.4	.78	.80	.32	.62	2.0	21	2.7	.26	.18	.05
2	.89	2.0	.74	.78	.31	.56	1.9	19	4.9	.14	.17	.07
3	1.4	1.3	7.0	.77	.30	.52	1.8	20	3.2	.98	.14	.09
4	.98	.98	.66	.75	.29	.49	1.7	19	3.0	.37	.14	.08
5	.80	.89	.64	.74	.29	.46	1.7	17	3.4	.31	.12	.06
6	.58	.89	.62	.73	.28	.45	1.6	17	3.6	.22	.09	.05
7	.50	.80	.60	.73	.28	.43	2.0	19	27	.18	.09	.06
8	.44	.66	1.6	.73	.27	.42	2.0	16	18	.09	.08	.04
9	.31	.66	25	.74	.27	.40	2.0	12	6.2	.09	.07	.10
10	.32	.58	17	.77	.27	.39	2.0	11	4.6	.08	.07	.07
11	.50	.50	8.3	.89	.26	.39	1.8	9.4	3.4	.09	.06	.07
12	.37	.50	6.2	2.8	.26	.38	1.8	7.9	2.6	.09	.11	.25
13	.44	2.2	5.1	2.0	.26	.37	2.4	8.3	9.1	.10	.14	.53
14	.44	3.9	4.2	1.4	.26	.37	3.0	7.5	19	.11	.09	.98
15	1.3	2.7	3.4	1.1	.26	.36	4.6	6.2	9.4	.19	.08	.73
16	2.2	2.6	2.7	.88	.26	.36	6.6	5.5	6.4	.27	.07	.35
17	1.6	2.0	2.3	.76	.26	.37	8.6	4.9	4.9	.12	.07	.30
18	1.8	1.8	2.0	.68	.26	.43	12	3.7	3.9	.09	.07	.26
19	1.3	1.5	1.9	.62	.26	.70	20	3.6	3.0	.06	.07	.26
20	.98	1.3	1.7	.57	.26	1.8	29	3.4	2.6	.13	.07	.29
21	.80	.98	1.6	.53	.26	4.1	17	3.6	1.9	.37	.07	.37
22	.73	.88	1.4	.50	.26	7.5	11	3.7	1.6	.50	.07	.37
23	.66	.82	1.2	.46	.26	8.3	12	4.4	1.4	.15	.07	.33
24	.60	.77	1.1	.45	.31	5.7	13	3.2	1.2	.18	.07	.44
25	.54	.73	1.0	.43	.44	3.9	13	2.6	.89	.18	.07	.44
26	.50	.71	1.0	.41	.98	3.5	14	2.4	.73	.18	.07	.44
27	.47	1.1	.95	.39	.98	3.2	10	3.2	.44	.18	.10	2.8
28	.44	1.0	.89	.37	.73	2.9	8.1	5.3	.44	.18	.08	2.0
29	.44	.93	.86	.35	---	2.6	8.3	3.6	.26	.18	.05	1.2
30	.44	.84	.83	.34	---	2.4	10	2.7	.26	.18	.05	.80
31	.44	---	.81	.33	---	2.2	---	2.7	---	.18	.05	---
TOTAL	24.71	37.92	104.08	23.80	9.70	56.57	224.9	268.8	150.02	6.43	2.73	13.88
MEAN	.80	1.26	3.36	.77	.35	1.82	7.50	8.67	5.00	.21	.088	.46
MAX	2.2	3.9	25	2.8	.98	8.3	29	21	27	.98	.18	2.8
MIN	.31	.50	.60	.33	.26	.36	1.6	2.4	.26	.06	.05	.04
CFSM	.80	1.26	3.36	.77	.35	1.82	7.50	8.67	5.00	.21	.09	.46
IN	.92	1.41	3.87	.88	.36	2.10	8.36	9.99	5.58	.24	.10	.52
CAL YR 1974	TOTAL 948.19	MEAN 2.60	MAX 37	MIN .04	CFSM 2.60	IN 35.24						
WTR YR 1975	TOTAL 923.54	MEAN 2.53	MAX 29	MIN .04	CFSM 2.53	IN 34.32						

ST. JOHN RIVER BASIN

49

01018000 MEDUXNEKEAG RIVER NEAR HOULTON, MAINE

LOCATION.--Lat 46°06'17", long 67°52'00", Aroostook County, 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).

WATER DISCHARGE RECORDS

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

GAGE.--Water-stage recorder. Datum of gage is 333.92 ft (101.779 m) above mean sea level.

REVISIONS (WATER YEARS).--WSP 1031: 1944.

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

AVERAGE DISCHARGE.--35 years, 287 ft³/s (8.128 m³/s), 22.27 in/yr (566 mm/yr).

EXTREMES.--Period of record: Maximum discharge, 6,620 ft³/s (187 m³/s) Apr. 23, 1958 (gage height, 9.30 ft or 2.835 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 or 0.637 m).

Current year: Peak discharges above base of 2,100 ft³/s (59.5 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)
Apr. 20	2200	*1,980 56.1	*5.82 1.774				

No peaks above base.

Minimum discharge, 5.2 ft³/s (0.15 m³/s) Sept. 2, gage height, 2.21 ft (0.674 m).

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	104	55	82	135	69	74	180	1040	222	63	18	5.8
2	91	74	77	130	68	68	170	1380	243	58	17	5.8
3	87	76	74	125	65	64	165	1500	223	65	16	7.0
4	82	73	70	120	63	62	160	1530	194	72	15	7.8
5	72	69	68	120	61	60	160	1460	204	83	15	7.3
6	68	65	65	115	60	58	190	1380	191	74	17	6.3
7	54	60	64	115	58	56	210	1420	635	62	15	7.2
8	46	56	64	110	57	54	227	1440	1440	54	14	6.7
9	42	52	78	110	56	52	219	1230	1410	49	13	9.9
10	42	51	380	110	54	51	204	1010	962	46	12	9.9
11	40	48	465	110	53	51	194	874	658	45	11	8.5
12	37	48	450	125	52	50	197	769	487	43	10	11
13	46	56	415	150	51	50	233	703	481	44	11	22
14	42	94	380	140	50	50	282	652	826	52	10	27
15	47	118	350	130	50	50	388	564	1010	53	9.7	29
16	89	134	325	125	50	50	529	478	824	66	8.6	25
17	109	127	305	120	49	54	666	428	629	61	8.3	22
18	136	113	280	110	49	62	853	372	495	50	7.9	20
19	120	101	265	105	48	76	1280	321	401	42	7.2	19
20	97	95	250	100	47	96	1830	294	327	35	6.3	18
21	85	90	235	95	47	160	1830	275	269	39	5.8	18
22	81	85	220	90	46	300	1460	262	230	79	6.1	19
23	65	82	210	86	46	430	1280	286	194	54	6.5	22
24	61	77	200	84	48	380	1240	284	166	41	6.6	24
25	59	75	185	82	56	330	1200	256	140	36	6.9	28
26	56	74	180	80	72	290	1210	238	119	30	7.4	27
27	55	74	170	78	90	260	1130	247	104	26	7.6	47
28	52	83	160	76	80	235	995	302	90	24	6.8	94
29	49	94	155	74	---	220	910	255	78	22	6.8	100
30	46	88	150	72	---	200	871	258	69	21	6.4	81
31	48	---	145	70	---	190	---	236	---	20	6.1	---
TOTAL	2108	2387	6517	3292	1595	4183	20463	21744	13321	1509	315.0	735.2
MEAN	68.0	79.6	210	106	57.0	135	682	701	444	48.7	10.2	24.5
MAX	136	134	465	150	90	430	1830	1530	1440	83	18	100
MIN	37	48	64	70	46	50	160	236	69	20	5.8	5.8
CFSM	.39	.45	1.20	.61	.33	.77	3.90	4.01	2.54	.28	.06	.14
IN.	.45	.51	1.39	.70	.34	.89	4.35	4.62	2.83	.32	.07	.16

CAL YR 1974	TOTAL	104396.0	MEAN 286	MAX 3710	MIN 16	CFSM 1.63	IN 22.19
WTR YR 1975	TOTAL	78169.2	MEAN 214	MAX 1830	MIN 5	CFSM 1.22	IN 16.62

ST. CROIX RIVER BASIN

01018500 ST. CROIX RIVER AT VANCEBORO, MAINE

(International gaging station)

LOCATION.--Lat 45°34'08", long 67°25'47", Washington County, 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).

WATER DISCHARGE RECORDS

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

GAGE.--Water-stage recorder. Datum of gage is 367.75 ft (112.090 m) above mean sea level.

REVISIONS.--WSP 1431: Drainage area.

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

REMARKS.--Records excellent. Flow regulated by Chiputneticook Lakes (combined usable capacity, about 13,200,000,000 ft³ or 374,000,000 m³). Final regulation is at Spednik Lake Dam about 400 ft (120 m) upstream.

AVERAGE DISCHARGE.--47 years, 705 ft³/s (19.97 m³/s), 22.96 in/yr (583 mm/yr).

EXTREMES.--Period of record: Maximum discharge, 6,040 ft³/s (171 m³/s) Apr. 29, 1973 (gage height, 10.43 ft or 3.179 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.

Current year: Maximum discharge, 912 ft³/s (25.8 m³/s) July 9 (gage height, 5.74 ft or 1.750 m); minimum daily, 204 ft³/s (5.73 m³/s) Mar. 22.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	327	504	333	546	693	618	225	271	450	879	809	695
2	292	499	281	546	693	611	225	273	450	880	809	693
3	292	494	240	546	693	607	225	275	450	882	804	653
4	292	493	240	546	693	607	225	277	450	880	801	537
5	291	490	240	546	681	607	226	280	451	880	798	537
6	495	487	240	546	672	607	227	283	596	885	796	533
7	275	481	240	652	672	604	227	285	668	875	795	532
8	275	481	240	752	672	598	228	287	863	888	790	531
9	275	481	240	752	672	593	229	287	532	898	788	528
10	275	480	240	752	672	593	229	289	303	893	786	525
11	275	477	244	752	672	593	230	294	310	884	782	524
12	275	477	248	751	669	593	231	294	316	861	783	520
13	275	477	250	747	662	591	232	294	315	864	776	519
14	275	473	252	747	662	584	236	295	315	868	770	519
15	442	470	254	747	662	583	236	297	315	860	762	359
16	537	467	258	747	655	583	236	298	318	847	757	250
17	537	465	259	742	647	583	236	298	615	845	751	248
18	537	465	260	742	640	578	239	299	900	841	745	248
19	537	465	260	724	632	578	243	303	901	840	741	248
20	533	465	262	722	622	414	245	303	653	838	742	248
21	531	465	262	722	622	223	249	303	469	838	738	248
22	528	465	262	722	622	204	251	347	472	838	732	248
23	526	465	262	722	622	213	254	603	452	831	731	248
24	524	462	262	714	622	216	257	861	364	830	727	248
25	521	461	264	712	622	216	260	862	309	829	720	248
26	519	469	264	712	622	217	264	693	588	826	717	248
27	519	392	264	712	622	216	264	458	814	824	717	248
28	519	333	264	712	622	220	267	455	889	820	713	248
29	515	332	264	707	-----	220	268	450	888	816	709	252
30	515	333	264	699	-----	221	270	450	885	815	703	252
31	514	-----	364	693	-----	223	-----	450	-----	813	702	-----
TOTAL	13,043	13,768	8,077	21,432	18,312	14,114	7,234	11,714	16,501	26,468	23,494	11,935
MEAN	421	459	261	691	654	455	241	378	550	854	758	398
MAX	537	504	364	752	693	618	270	862	901	898	809	695
MIN	275	332	240	546	622	204	225	271	303	813	702	248
CAL YR 1974	TOTAL 258,841	MEAN 709	MAX 4,380	MIN 212								
WTR YR 1975	TOTAL 186,092	MEAN 510	MAX 901	MIN 204								

ST. CROIX RIVER BASIN

51

01019000 GRAND LAKE STREAM AT GRAND LAKE STREAM, MAINE

LOCATION.--45°10'23", long 67°46'06", Washington County, 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).

WATER DISCHARGE RECORDS

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

GAGE.--Water-stage recorder. Datum of gage is 273.96 ft (83.503 m) above mean sea level.

REVISIONS.--WSP 971: Drainage area.

REMARKS.--Records excellent. 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 or 234,000,000 m³). Records of water analyses for water year 1975 are published on page 165.

AVERAGE DISCHARGE.--47 years, 392 ft³/s (11.10 m³/s), 23.76 in/yr (604 mm/yr).

EXTREMES.--Period of record: Maximum discharge, 2,840 ft³/s (80.4 m³/s) June 12, 1952 (gage height, 6.35 ft or 1.935 m); minimum daily, 5 ft³/s (0.14 m³/s) Dec. 3-6, 11, 1945.

Current year: Maximum discharge, 990 ft³/s (28.0 m³/s) June 30 (gage height, 3.85 ft or 1.174 m); maximum gage height, 4.00 ft (1.219 m) Mar. 28 (backwater from ice); minimum daily discharge, 108 ft³/s (3.06 m³/s) Nov. 1, 12, 19.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	799	108	119	207	207	277	125	137	313	980	251	281
2	787	110	171	207	207	280	125	137	312	980	251	281
3	781	110	208	207	207	314	126	137	310	975	249	281
4	763	109	201	207	207	337	127	139	311	970	248	311
5	750	110	200	207	265	337	127	138	312	970	248	324
6	737	110	198	207	305	337	127	134	314	965	248	319
7	570	110	198	207	305	443	127	131	320	965	248	318
8	475	110	198	207	305	524	127	130	328	960	248	314
9	470	110	209	207	302	526	127	130	326	960	246	316
10	465	110	208	207	302	522	127	130	232	670	245	313
11	455	109	207	205	302	575	127	130	177	424	245	307
12	448	108	207	207	302	636	127	130	178	420	244	305
13	442	110	208	207	302	633	127	131	178	420	245	311
14	359	109	207	207	298	629	128	130	181	333	244	308
15	232	110	207	207	293	632	130	128	183	248	245	306
16	161	110	207	207	291	628	131	127	183	248	243	303
17	162	110	207	207	291	623	131	125	183	248	241	302
18	160	109	207	207	250	615	133	123	185	248	240	299
19	160	108	207	207	222	607	137	122	186	246	240	296
20	160	109	207	207	221	701	139	123	185	245	237	295
21	160	112	207	207	219	774	138	123	183	249	237	293
22	155	112	207	206	219	767	137	179	183	251	236	292
23	140	111	207	207	219	768	136	312	183	248	235	290
24	110	110	207	205	219	762	135	310	183	248	234	291
25	110	110	207	205	219	545	134	305	183	248	232	288
26	110	113	207	207	240	221	134	310	373	251	231	284
27	110	112	207	207	276	130	136	312	520	254	232	286
28	110	112	207	207	277	130	137	312	534	253	231	288
29	110	112	207	207	-----	127	137	311	655	254	264	410
30	110	112	207	207	-----	127	137	309	984	252	284	486
31	110	-----	207	207	-----	126	-----	310	-----	253	284	-----
TOTAL	10,671	3,305	6,258	6,410	7,272	14,653	3,936	5,705	8,878	15,236	7,606	9,298
MEAN	344	110	202	207	260	473	131	184	296	491	245	310
MAX	799	113	209	207	305	774	139	312	984	980	284	486
MIN	110	108	119	205	207	126	125	122	177	245	231	281
CAL YR 1974	TOTAL 149,924	MEAN 411	MAX 918	MIN 108								
WTR YR 1975	TOTAL 99,228	MEAN 272	MAX 984	MIN 108								

ST. CROIX RIVER BASIN

01020000 ST. CROIX RIVER NEAR BAILEYVILLE, MAINE

(International gaging station)

LOCATION.--Lat 45°15'55", long 67°28'36". Washington County, 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).

WATER DISCHARGE RECORDS

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

GAGE.--Water-stage recorder. Datum of gage is 148.8 ft (45.42 m) above mean sea level.

REVISIONS (WATER YEARS).--WSP 1231: 1922.

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

REMARKS.--Records excellent. Flow regulated by Chiputneticook Lakes, Grand and other lakes (combined capacity, about 25,000,000,000 ft³ or 708,000,000 m³). Final regulation is at Grand Falls Dam about 700 ft (213 m) upstream. Records of water analyses for water year 1975 are published on page 165.

AVERAGE DISCHARGE.--56 years, 2,291 ft³/s (64.88 m³/s), 23.57 in/yr (599 mm/yr).

EXTREMES.--Period of record: Maximum discharge, about 23,300 ft³/s (660 m³/s) May 1, 1923 (gage height, 13.90 ft or 4.237 m); minimum daily, 64 ft³/s (1.81 m³/s) Oct. 13, 1957.

Current year: Maximum discharge, 6,970 ft³/s (197 m³/s) Apr. 22 (gage height, 5.56 ft or 1.695 m); minimum daily, 723 ft³/s (20.5 m³/s) Sept. 23.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1,340	1,520	1,240	1,320	1,290	1,490	2,910	3,430	2,330	987	1,700	746
2	1,280	1,530	1,580	1,310	1,260	1,480	2,820	3,280	1,870	1,010	1,660	1,020
3	1,780	1,510	2,130	1,320	1,260	1,470	2,750	3,390	1,280	1,170	1,620	856
4	2,240	1,340	2,050	1,320	1,270	1,230	2,740	3,410	1,800	1,140	1,460	749
5	2,100	1,360	2,060	1,320	1,270	1,430	2,720	2,940	1,730	1,120	1,150	807
6	2,240	1,340	2,110	1,470	1,260	1,440	2,710	2,550	1,710	1,130	1,320	841
7	1,610	1,340	2,000	1,590	1,280	1,520	2,700	2,410	1,790	1,200	895	822
8	1,500	1,340	1,880	1,310	1,300	1,530	2,540	2,400	1,780	1,380	1,120	830
9	1,510	1,360	2,240	1,340	1,310	1,460	2,460	2,380	1,940	2,030	1,380	827
10	1,520	1,360	3,170	1,090	1,320	1,450	2,470	2,350	2,140	2,410	1,160	814
11	1,380	1,350	4,260	1,250	1,340	1,550	2,070	2,050	2,140	2,240	949	798
12	1,440	1,250	4,460	1,390	1,340	1,720	1,860	1,810	2,220	2,170	1,140	760
13	1,460	1,170	4,460	1,340	1,290	1,420	1,860	2,040	2,260	2,160	919	774
14	1,370	1,180	4,360	1,530	1,330	1,430	1,820	1,940	2,260	2,320	1,270	744
15	1,220	1,200	3,750	1,510	1,350	1,450	1,820	1,580	2,210	2,450	1,040	793
16	1,300	1,220	3,180	1,460	1,340	1,450	1,710	1,920	2,580	2,310	1,030	749
17	1,360	1,220	2,860	1,440	1,400	1,450	2,060	1,920	2,750	1,950	1,040	819
18	1,350	1,220	2,660	1,370	1,450	1,450	2,640	1,890	2,740	2,290	1,140	857
19	1,310	1,230	2,440	1,480	1,440	1,400	2,760	1,780	2,750	1,260	1,190	844
20	1,310	1,240	1,830	2,070	1,320	2,170	4,840	1,910	2,580	1,260	1,120	848
21	1,330	1,230	1,570	2,360	1,380	2,520	6,580	1,900	2,300	1,770	1,050	850
22	1,320	1,240	1,480	2,090	1,390	2,500	6,690	1,850	2,250	2,080	1,090	937
23	1,500	1,320	1,460	2,220	1,360	2,700	6,590	1,920	2,180	2,180	1,050	723
24	1,660	1,350	1,440	2,060	1,330	2,840	6,110	1,870	1,980	1,960	1,040	874
25	1,370	1,370	1,410	1,190	1,440	2,860	5,320	1,870	1,910	1,880	1,190	1,200
26	1,080	1,530	1,580	1,180	1,470	2,910	5,040	1,870	1,970	1,870	1,020	1,150
27	1,180	1,240	1,980	1,650	1,450	2,940	5,020	1,890	1,970	2,010	915	924
28	1,420	1,300	1,570	1,890	1,480	2,930	4,640	1,890	1,990	2,270	904	1,110
29	1,450	1,400	1,260	2,100	-----	2,930	4,190	1,890	2,130	1,950	807	1,150
30	1,290	1,460	1,290	1,650	-----	2,920	3,680	1,520	1,470	1,810	767	1,060
31	1,360	-----	1,310	1,530	-----	2,920	-----	1,310	-----	1,690	763	-----
TOTAL	45,580	39,720	71,110	48,150	37,720	60,960	104,120	67,160	63,010	55,457	34,899	26,276
MEAN	1,470	1,324	2,294	1,553	1,347	1,966	3,471	2,166	2,100	1,789	1,126	876
MAX	2,240	1,530	4,460	2,360	1,480	2,940	6,690	3,430	2,750	2,450	1,700	1,200
MIN	1,080	1,170	1,260	1,090	1,260	1,230	1,710	1,310	1,280	987	763	723

CAL YR 1974 TOTAL 847,410 MEAN 2,322 MAX 8,320 MIN 1,020
WTR YR 1975 TOTAL 654,162 MEAN 1,792 MAX 6,690 MIN 723

ST. CROIX RIVER BASIN

53

01021000 ST. CROIX RIVER AT BARING, MAINE

(International gaging station)

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

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

WATER DISCHARGE RECORDS

PERIOD OF RECORD.--October 1958 to current year.

GAGE.--Water-stage recorder. Datum of gage is 66.231 ft (20.187 m) above mean sea level.

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

REMARKS.--Records excellent. Flow regulated by Chiputneticook Lakes, Grand, and other lakes (combined capacity, about 25,000,000 ft³ or 708,000,000 m³). Final regulation is at Woodland 5.6 mi (9.0 km) upstream from gage.

AVERAGE DISCHARGE.--16 years (1960-75), 2,640 ft³/s (74.76 m³/s), 26.17 in/yr (665 mm/yr).

EXTREMES.--Period of record: Maximum discharge, 23,500 ft³/s (666 m³/s) May 29, 1961 (gage height, 12.76 ft or 3.889 m); minimum daily, 262 ft³/s (7.42 m³/s) Oct. 20, 1964.

Current year: Maximum discharge, 7,980 ft³/s (226 m³/s) Apr. 21 (gage height, 9.03 ft or 2.752 m); minimum daily, 754 ft³/s (21.4 m³/s) Sept. 1.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1,300	1,550	1,470	1,320	1,370	1,410	3,030	3,400	2,080	1,020	1,580	754
2	1,290	1,560	1,580	1,350	1,320	1,420	2,980	3,660	2,120	824	1,570	816
3	1,500	1,550	2,440	1,370	1,340	1,410	2,850	3,600	1,360	952	1,570	938
4	2,530	1,360	2,400	1,380	1,430	1,370	2,880	3,630	1,590	968	1,320	873
5	2,270	1,330	2,300	1,370	1,380	1,380	2,940	3,050	1,710	940	1,090	810
6	2,020	1,260	2,220	1,370	1,330	1,380	2,800	2,640	1,720	1,080	1,150	814
7	1,920	1,350	2,060	1,700	1,310	1,390	2,760	2,600	1,970	1,220	1,070	806
8	1,610	1,350	1,880	1,330	1,310	1,420	2,720	2,610	1,970	1,330	1,060	805
9	1,300	1,350	3,200	1,370	1,300	1,420	2,570	2,630	2,000	1,680	1,060	808
10	1,410	1,350	3,880	1,360	1,310	1,410	2,570	2,490	2,160	2,110	1,100	808
11	1,510	1,350	4,680	1,350	1,330	1,300	2,320	2,160	2,200	2,150	1,080	794
12	1,510	1,270	5,020	1,390	1,300	1,530	1,960	1,890	2,180	2,170	1,060	802
13	1,480	1,170	4,940	1,410	1,290	1,720	2,010	1,890	2,190	2,150	1,060	1,030
14	1,470	1,230	4,820	1,410	1,310	1,410	2,080	1,910	2,250	2,150	1,050	793
15	1,270	1,220	4,150	1,450	1,310	1,430	2,140	1,690	2,290	2,160	1,050	798
16	1,300	1,230	3,320	1,670	1,240	1,430	2,200	1,920	2,510	2,170	1,040	785
17	1,330	1,220	3,170	1,370	1,270	1,440	2,400	1,930	2,850	2,060	1,030	799
18	1,330	1,210	2,830	1,420	1,330	1,440	3,170	1,920	2,720	2,120	1,030	802
19	1,320	1,220	2,660	1,440	1,340	1,450	3,570	1,800	2,670	1,180	1,030	799
20	1,320	1,260	2,130	2,060	1,340	1,960	5,140	1,890	2,730	1,020	1,040	800
21	1,310	1,430	1,710	2,540	1,350	3,130	7,660	1,880	2,180	1,660	1,040	801
22	1,310	1,500	1,510	2,250	1,350	2,790	7,440	1,870	2,180	2,090	1,040	855
23	1,400	1,450	1,340	2,260	1,330	3,220	7,410	1,870	2,050	1,820	1,040	1,050
24	1,580	1,420	1,320	1,960	1,340	3,270	6,910	1,870	1,900	1,900	1,030	916
25	1,530	1,430	1,490	1,420	1,380	3,220	6,000	1,870	1,890	1,860	1,040	1,050
26	1,300	1,580	1,570	1,300	1,390	3,240	5,590	1,870	2,040	2,020	1,040	1,060
27	1,290	1,390	1,800	1,430	1,410	3,250	5,550	1,880	1,990	2,000	926	1,060
28	1,280	1,430	1,880	2,070	1,410	3,210	5,170	1,890	1,850	1,940	804	1,050
29	1,290	1,410	1,320	2,050	-----	3,250	4,610	1,820	1,850	1,800	806	1,050
30	1,290	1,430	1,320	1,710	-----	3,200	4,120	1,710	1,620	1,570	806	1,070
31	1,320	-----	1,310	1,360	-----	3,180	-----	1,310	-----	1,570	799	-----
TOTAL	45,890	40,860	77,720	49,240	37,420	64,080	115,550	69,150	62,820	51,684	33,411	26,396
MEAN	1,480	1,362	2,507	1,588	1,336	2,067	3,852	2,231	2,094	1,667	1,078	880
MAX	2,530	1,580	5,020	2,540	1,430	3,270	7,660	3,660	2,850	2,170	1,580	1,070
MIN	1,270	1,170	1,310	1,300	1,240	1,300	1,960	1,310	1,360	824	799	754
CAL YR 1974	TOTAL 879,080		MEAN 2,408		MAX 8,800		MIN 1,070					
WTR YR 1975	TOTAL 674,221		MEAN 1,847		MAX 7,660		MIN 754					

01021000 ST. CROIX RIVER AT BARING, MAINE--Continued

WATER QUALITY RECORDS

PERIOD OF RECORD.

WATER TEMPERATURES: October 1959 to current year.

INSTRUMENTATION.--Temperature recorder.

EXTREMES.--Period of record:

WATER TEMPERATURES: Maximum, 30.5°C July 28, 1963; minimum, freezing point on many days during winter months.

EXTREMES. -- Current year:

WATER TEMPERATURES: Maximum, 29.5°C Aug. 11; minimum, freezing point on many days during November to March.

TEMPERATURE (DEG. C) OF WATER, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975

	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	15.5	14.0	8.0	7.0	0.0	0.0	0.5	0.5	0.5	0.0	0.5	0.5
2	14.5	14.0	7.0	6.5	0.0	0.0	0.5	0.5	0.0	0.0	0.5	0.5
3	14.0	13.5	7.0	6.0	1.0	0.0	0.5	0.0	0.0	0.0	0.5	0.5
4	13.5	13.0	6.5	6.5	0.5	0.0	0.5	0.0	0.0	0.0	0.5	0.5
5	13.5	12.0	7.0	6.5	0.0	0.0	0.5	0.5	0.0	0.0	0.5	0.5
6	14.5	13.0	7.0	7.0	0.0	0.0	0.5	0.0	0.0	0.0	0.5	0.0
7	14.5	13.0	7.0	6.5	0.5	0.0	1.0	0.0	0.0	0.0	1.0	0.5
8	13.5	11.5	6.0	5.5	1.0	0.5	0.5	0.0	0.0	0.0	1.0	0.5
9	13.0	11.0	6.0	5.5	1.0	1.0	0.0	0.0	0.0	0.0	0.5	0.0
10	11.5	11.0	5.5	5.0	1.0	0.0	0.5	0.0	0.0	0.0	0.5	0.5
11	11.5	10.0	5.5	4.5	0.0	0.0	0.5	0.5	0.0	0.0	1.0	0.5
12	11.5	10.5	6.0	5.5	0.0	0.0	0.5	0.5	0.0	0.0	1.0	0.5
13	11.5	10.0	6.5	6.0	0.0	0.0	0.5	0.5	0.0	0.0	1.0	0.5
14	10.5	9.5	6.0	5.5	0.0	0.0	0.5	0.5	0.0	0.0	0.5	0.5
15	11.5	10.5	6.0	5.5	0.0	0.0	0.5	0.5	0.0	0.0	0.5	0.0
16	11.0	10.0	5.5	5.0	0.0	0.0	1.0	0.0	0.0	0.0	1.0	0.0
17	10.0	9.5	5.0	4.5	0.0	0.0	0.5	0.5	0.0	0.0	1.5	0.5
18	10.0	9.0	5.0	4.5	0.5	0.0	0.5	0.0	0.0	0.0	1.0	0.5
19	9.5	8.5	4.5	4.0	0.5	0.0	0.5	0.0	0.0	0.0	0.5	0.5
20	9.0	7.0	4.5	4.0	1.0	0.5	0.5	0.0	0.0	0.0	1.0	0.5
21	8.0	7.0	4.5	3.5	1.0	1.0	0.5	0.0	0.5	0.0	1.0	1.0
22	8.5	6.5	3.5	3.0	1.0	1.0	0.0	0.0	0.5	0.0	1.0	1.0
23	9.0	8.0	3.0	3.0	1.0	1.0	0.5	0.0	0.5	0.5	1.0	1.0
24	8.0	6.5	3.0	2.0	1.0	1.0	0.5	0.0	0.5	0.0	1.0	1.0
25	7.0	6.5	3.0	3.0	1.0	0.0	0.0	0.0	0.5	0.0	1.0	1.0
26	7.0	7.0	3.0	0.0	0.0	0.0	0.5	0.0	0.5	0.5	1.0	1.0
27	7.0	5.5	0.5	0.0	0.5	0.0	0.0	0.0	0.5	0.5	1.5	1.0
28	6.0	5.0	0.5	0.5	1.0	0.0	0.0	0.0	0.5	0.5	1.5	1.0
29	7.0	6.0	0.5	0.5	0.5	0.5	0.5	0.0	---	---	2.0	1.5
30	7.0	6.5	0.5	0.0	0.5	0.5	0.5	0.5	---	---	2.0	1.5
31	7.0	7.0	---	---	0.5	0.5	0.5	0.5	---	---	2.0	1.5
MONTH	15.5	5.0	8.0	0.0	1.0	0.0	1.0	0.0	0.5	0.0	2.0	0.0
	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	3.0	1.5	8.0	6.0	16.5	16.5	27.0	21.5	27.0	24.5	21.0	18.0
2	3.0	1.5	8.5	6.5	19.0	16.5	26.5	21.0	28.5	24.5	20.5	18.0
3	2.0	1.0	8.5	8.0	19.5	16.0	25.0	21.5	27.0	26.0	19.0	18.5
4	1.5	1.0	8.5	8.0	18.0	16.5	25.5	21.5	26.0	25.5	21.5	18.5
5	1.5	1.0	9.5	8.5	20.5	16.5	26.0	22.0	26.0	25.0	21.0	19.0
6	2.0	1.5	9.0	8.5	18.5	16.0	26.0	22.0	27.0	25.0	15.0	18.5
7	2.0	1.5	8.5	8.5	16.0	15.0	25.5	22.0	25.5	24.0	21.5	19.0
8	3.0	1.5	9.0	8.5	15.5	14.0	25.0	23.0	26.5	24.5	21.0	18.5
9	3.0	2.0	10.5	8.5	14.5	13.5	24.0	23.0	29.0	24.0	20.5	19.5
10	3.5	2.0	11.5	9.0	16.5	13.5	23.5	23.0	28.5	24.5	20.0	17.0
11	3.0	2.0	12.0	9.5	18.0	14.5	23.5	23.0	29.5	25.0	20.5	17.0
12	3.5	2.0	13.5	10.0	16.5	15.0	23.5	23.0	28.0	25.0	19.5	18.0
13	3.5	2.0	11.5	11.0	15.5	15.5	23.0	23.0	29.0	25.5	19.5	18.0
14	3.5	3.0	15.0	11.5	15.5	15.5	24.0	23.0	26.5	24.5	19.0	16.5
15	4.0	3.0	15.5	13.5	16.0	15.0	24.0	22.0	26.5	23.5	19.5	16.0
16	3.5	3.0	14.0	13.5	18.0	15.5	25.0	22.0	27.0	23.5	18.5	16.0
17	5.5	3.5	16.0	13.0	18.5	16.0	26.0	23.0	26.0	23.5	19.0	16.5
18	4.5	3.5	16.5	13.5	19.5	17.0	26.0	24.0	25.0	24.0	20.0	17.0
19	4.0	3.5	18.5	14.0	20.5	18.0	28.5	24.5	24.5	23.0	19.0	16.5
20	4.5	3.5	18.0	15.5	20.0	19.0	28.5	24.5	24.0	21.5	18.0	17.0
21	4.0	3.5	18.0	16.0	21.5	19.0	26.5	24.5	23.5	21.0	19.0	18.0
22	4.0	3.5	17.0	16.0	23.0	19.5	27.0	24.5	23.0	20.5	19.5	18.0
23	4.0	3.5	18.0	15.5	24.0	21.0	28.5	25.0	23.0	20.0	19.0	17.0
24	4.0	3.5	18.5	16.0	25.5	22.0	28.5	25.5	22.0	19.5	18.0	17.0
25	5.0	3.5	19.5	16.0	25.5	23.0	27.0	25.5	21.5	20.5	18.0	16.5
26	5.0	4.5	17.0	16.0	26.0	22.0	26.0	25.5	22.0	20.5	17.0	16.5
27	4.5	4.0	16.0	16.0	26.0	23.0	27.0	24.0	23.0	20.0	18.0	17.0
28	4.5	4.0	18.5	16.0	26.5	22.0	26.0	24.0	23.0	20.5	18.5	17.0
29	4.5	4.0	19.5	16.0	25.5	23.5	26.0	24.0	23.0	20.0	19.5	16.0
30	5.5	4.0	19.5	16.5	26.5	22.0	26.5	24.0	21.5	19.5	18.5	16.0
31	---	---	17.0	16.5	---	---	27.0	24.5	22.0	20.0	---	---
MONTH	5.5	1.0	19.5	6.0	26.5	13.5	28.5	21.0	29.5	19.5	21.5	16.0
YEAR	29.5	0.0										

01021050 ST. CROIX RIVER AT MILLTOWN, MAINE

WATER QUALITY RECORDS

PERIOD OF RECORD.--WATER ANALYSES: September 1969 to current year.
 SPECIFIC CONDUCTANCE: July 1972 to current year (partial records).
 WATER TEMPERATURES: September 1969 to current year (partial records).
 DISSOLVED OXYGEN: September 1969 to current year (partial records).
 pH: July 1972 to current year (partial records).

INSTRUMENTATION.--Four parameter water quality monitor.

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

EXTREMES.--Period of record:

SPECIFIC CONDUCTANCE: Maximum, >200 micromhos (monitor limitation) Oct. 21, 22, 1975; minimum, 27 micromhos July 7, 8, 1973.
 WATER TEMPERATURES: Maximum, 27.0°C July 24, 1973, Aug. 2, 3, 1975; minimum, 3.0°C Apr. 30, May 2, 3, 1971.
 DISSOLVED OXYGEN: Maximum, 10.9 mg/l Oct. 19, 1972; minimum, 0.5 mg/l Aug. 19, 1975.
 pH: Maximum, 11.6 units Sept. 28, 1974; minimum, 5.3 units Oct. 18, 1973.

EXTREMES.--Current year:

SPECIFIC CONDUCTANCE: Maximum, >200 micromhos (monitor limitation) Oct. 21, 22; minimum 44 micromhos June 13.
 WATER TEMPERATURES: Maximum, 27.0°C Aug. 2, 3; minimum, 3.5°C Oct. 28.
 DISSOLVED OXYGEN: Maximum, 8.4 mg/l June 9; minimum, 0.5 mg/l Aug. 19.
 pH: Maximum, 9.1 units Oct. 10; minimum, 5.8 units Oct. 3-6.

WATER ANALYSES, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	SPECIFIC CONDUCTANCE (MICRO-MHOS)	PH (UNITS)	TEMPERATURE (DEG C)	DISSOLVED OXYGEN (MG/L)	DISSOLVED OXYGEN SATURATION (%)	IMMEDIATE COLIFORM (COL. PER 100 ML)	FECAL COLIFORM (COL. PER 100 ML)	STREPTOCOCCI (COLONIES PER 100 ML)	CHEMICAL OXYGEN DEMAND (LOW LEVEL) (MG/L)	TURBIDITY (JTU)
OCT.												
09...	0930	1290	100	6.4	11.0	7.2	65	16000	820	--	33	5
31...	0830	1290	90	6.6	6.5	9.3	75	820000	200	98	44	3
NOV.												
11...	1130	1350	112	6.5	5.0	10.2	80	1300	220	87	44	4
DEC.												
02...	1230	1410	94	6.5	.0	12.2	84	2400	82	87	36	4
11...	0930	4270	70	6.6	.0	12.6	86	720	811	35	41	7
30...	1000	1310	110	6.5	1.5	11.8	84	4700	21	811	47	5
JAN.												
15...	1045	1430	100	6.6	.5	10.2	71	810000	830	81	41	4
28...	1800	2050	80	6.4	.5	12.0	83	4300	100	810	32	3
FEB.												
18...	1200	1340	112	6.7	.0	10.6	73	5500	340	47	45	6
26...	1800	1390	85	6.4	2.0	10.0	72	89100	180	52	35	3
MAR.												
19...	1245	1440	85	6.7	2.0	10.0	72	810000	70	41	37	5
31...	1730	3180	73	6.5	2.5	11.0	81	2000	35	20	34	5
APR.												
23...	1400	7410	44	6.5	4.5	12.0	92	750	85	85	26	2
30...	1700	3820	43	6.5	5.5	11.0	87	2100	848	83	20	3
MAY												
31...	0930	1310	86	6.5	16.5	6.4	65	6500	8940	33	32	2
JUNE												
18...	1330	2650	60	6.3	19.0	6.8	72	--	--	--	38	2
30...	1300	1340	72	6.6	22.5	5.1	58	45000	820	820	34	8
JULY												
10...	1300	2100	68	6.6	22.0	5.1	58	6800	100	77	25	1
31...	2030	1570	81	6.6	25.5	3.4	41	16000	100	833	34	3
AUG.												
19...	1330	1050	105	6.5	23.5	1.2	14	5000	1800	77	37	2
27...	1230	960	105	6.3	21.5	1.6	18	14000	1600	83	46	2
SEP.												
09...	1430	806	105	6.5	19.5	3.6	39	4200	8750	600	34	6
24...	1130	793	55	6.5	16.0	5.8	58	3400	250	140	20	1

ST. CROIX RIVER BASIN

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

WATER ANALYSES, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975

DATE	COLOR (PLAT- INUM- COBALT UNITS)	CHLORO- PHYLL A (UG/L)	TOTAL PHOS- PHORUS (P) (MG/L)	TOTAL ORGANIC CARBON (C) (MG/L)	TOTAL NITRO- GEN (N) (MG/L)	TOTAL NITRO- GEN (NO3) (MG/L)	TOTAL KJEL- DAHL- NITRO- GEN (N) (MG/L)	TOTAL NITRITE PLUS NITRATE (N) (MG/L)	SUS- PENDEED SEDI- MENT (MG/L)	SUS- SEED. SIEVE DIAM. % FINER THAN .062 MM	SUS- PENDEED SEDI- MENT DIS- CHARGE (T/DAY)	DIS- SOLVED SOLIDS (RESI- DUE AT 180 C) (MG/L)
OCT.												
09...	70	3.3	--	9.5	--	--	--	--	--	--	--	--
31...	40	.7	--	15	--	--	--	--	--	--	--	--
NOV.												
11...	70	4.0	--	11	--	--	--	--	--	--	--	--
DEC.												
02...	60	2.7	--	--	--	--	--	--	--	--	--	--
11...	80	6.0	--	--	--	--	--	--	--	--	--	--
30...	70	.0	--	15	--	--	--	--	--	--	--	--
JAN.												
15...	60	2.6	--	7.0	--	--	--	--	--	--	--	--
28...	50	1.3	.03	11	.36	1.6	.35	.01	5	88	28	--
FEB.												
18...	80	3.3	--	--	--	--	--	--	--	--	--	--
26...	50	1.3	.03	12	.31	1.4	.25	.06	4	100	15	74
MAR.												
19...	56	2.7	--	15	--	--	--	--	--	--	--	--
31...	56	1.3	.05	10	.39	1.7	.36	.03	10	95	86	--
APR.												
23...	41	--	--	6.7	--	--	--	--	--	--	--	--
30...	40	--	.02	6.9	.24	1.1	.22	.02	4	98	41	--
MAY												
31...	74	--	.03	9.7	.17	.75	.12	.05	8	91	28	67
JUNE												
18...	60	--	--	--	--	--	--	--	--	--	--	--
30...	35	--	.04	3.4	.40	1.8	.40	.00	7	85	25	--
JULY												
10...	35	--	--	--	--	--	--	--	--	--	--	--
31...	45	--	.04	--	.36	1.6	.35	.01	5	100	21	--
AUG.												
19...	40	--	--	11	--	--	--	--	--	--	--	--
27...	35	--	.04	16	.34	1.5	.33	.01	7	100	18	75
SEP.												
09...	30	--	--	11	--	--	--	--	--	--	--	--
24...	10	--	.04	--	.28	1.2	.28	.00	1	100	2.1	--

DATE	DIS- SOLVED SOLIDS (SUM OF CONSTIT- TUENTS) (MG/L)	ALKA- LINITY AS CACO3 (MG/L)	BICAR- BONATE (HCO3) (MG/L)	CAR- BONATE (CO3) (MG/L)	HARD- NESS (CA,MG) (MG/L)	NON- CAR- BONATE HARD- NESS (MG/L)	DIS- SOLVED CAL- CIUM (CA) (MG/L)	DIS- SOLVED MAG- NE- SIUM (MG) (MG/L)	DIS- SOLVED SODIUM (NA) (MG/L)	DIS- SOLVED PO- TAS- SIUM (K) (MG/L)	DIS- SOLVED CHLO- RIDE (CL) (MG/L)	DIS- SOLVED SULFATE (SO4) (MG/L)
DEC.												
02...	--	9	11	0	32	23	9.5	2.0	--	--	13	7.0
FEB.												
26...	47	17	21	0	25	7	8.5	.8	8.1	1.0	10	5.4
MAY												
31...	43	8	10	0	16	8	5.6	.5	10	.6	13	5.2
AUG.												
19...	--	--	--	--	--	--	--	--	--	--	--	--
27...	52	16	19	0	16	1	5.0	.9	14	.9	12	7.2

DATE	DIS- SOLVED FLUO- RIDE (F) (MG/L)	DIS- SOLVED SILICA (SI02) (MG/L)	DIS- SOLVED SOLIDS (TONS PER DAY)	DIS- SOLVED ALUM- INUM (AL) (UG/L)	DIS- SOLVED ARSENIC (AS) (UG/L)	SUS- PENDEED ARSENIC (AS) (UG/L)	TOTAL ARSENIC (AS) (UG/L)	DIS- SOLVED BARIUM (BA) (UG/L)	DIS- SOLVED BERYL- LIUM (BE) (UG/L)	DIS- SOLVED BISMUTH (BI) (UG/L)	DIS- SOLVED BORON (B) (UG/L)	DIS- SOLVED CAD- MIUM (CD) (UG/L)
DEC.												
02...	--	--	--	180	--	--	--	13	0	0	5	<2
FEB.												
26...	.1	2.6	278	160	0	0	0	10	0	0	5	<2
MAY												
31...	.2	1.9	237	250	1	0	1	11	0	0	6	<3
AUG.												
19...	--	--	--	200	--	--	--	18	0	0	10	<7
27...	.3	1.6	194	--	0	0	0	--	--	--	--	0

DATE	SUS- PENDEED CAD- MIUM (CD) (UG/L)	TOTAL CAD- MIUM (CD) (UG/L)	DIS- SOLVED CHRO- MIUM (CR) (UG/L)	SUS- PENDEED CHRO- MIUM (CR) (UG/L)	TOTAL CHRO- MIUM (CR) (UG/L)	DIS- SOLVED COBALT (CO) (UG/L)	SUS- PENDEED COBALT (CO) (UG/L)	TOTAL COBALT (CO) (UG/L)	DIS- SOLVED COPPER (CU) (UG/L)	SUS- PENDEED COPPER (CU) (UG/L)	TOTAL COPPER (CU) (UG/L)	DIS- SOLVED GALLIUM (GA) (UG/L)
DEC.												
02...	--	--	3	--	--	0	--	--	2	--	--	0
FEB.												
26...	0	0	0	10	10	0	0	0	1	0	0	0
MAY												
31...	0	0	1	0	0	0	0	0	1	10	20	0
AUG.												
19...	--	--	1	--	--	0	--	--	2	--	--	0
27...	0	0	<10	0	<10	0	0	0	0	10	10	--

WATER ANALYSES, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975

[illegible]

QUALITATIVE AND QUANTITATIVE ANALYSES OF BIOLOGICAL DATA, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975

PHYTOPLANKTON

DATE	TIME	ORGANISM	COUNT (CELLS/ML)	PERCENT OF TOTAL	SAMPLING METHOD
FEB. 26	1800	CHRYSOPHYTA			DEPTH INTEGRATED
		..BACILLARIOPHYCEAE			
		...PENNALES			
		...DIATOMACEAE			
		DIATOMA	6	11	
		...FRAGILARIACEAE			
		SYNEDRA	6	11	
		...GOMPHONEMACEAE			
		GOMPHONEMA	6	11	
		...NITZSCHIACEAE			
		NITZSCHIA	12	22	
		...TABELLARIACEAE			
		TABELLARIA	23	44	
		TOTAL	53		
MAR. 31	1730	CHRYSOPHYTA			DEPTH INTEGRATED
		..BACILLARIOPHYCEAE			
		...CENTRALES			
		...COSCINODISCACEAE			
		CYCLOTELLA	53	7	
		MELOSIRA	18	2	
		...PENNALES			
		...DIATOMACEAE			
		DIATOMA	35	5	
		...GOMPHONEMACEAE			
		GOMPHONEMA	18	2	
		...NITZSCHIACEAE			
		NITZSCHIA	35	5	
		...TABELLARIACEAE			
		TABELLARIA	89	12	
		CYANOPHYTA			
		..MYXOPHYCEAE			
		...CHROOCOCCALES			
		...CHROOCOCCACEAE			
		ANACYSTIS	140	19	
		...OSCILLATORIALES			
		...OSCILLATORIA			
		OSCILLATORIA	350	48	
		TOTAL	740		
APR. 30	1700	CHLOROPHYTA			DEPTH INTEGRATED
		..CHLOROPHYCEAE			
		...CHLOROCOCCALES			
		...OCCYSTACEAE			
		ANKISTRODESMUS	53	15	
		CHRYSOPHYTA			
		..BACILLARIOPHYCEAE			
		...CENTRALES			
		...COSCINODISCACEAE			
		CYCLOTELLA	40	12	
		...PENNALES			
		...DIATOMACEAE			
		DIATOMA	40	12	
		...EUNOTIACEAE			
		EUNOTIA	13	4	
		...FRAGILARIACEAE			
		SYNEDRA	13	4	
		...NAVICULACEAE			
		NAVICULA	13	4	
		...NITZSCHIACEAE			
		NITZSCHIA	120	35	
		...TABELLARIACEAE			
		TABELLARIA	40	12	
		CHRYSOPHYCEAE			
		...CHRYSONOMADALES			
		...OCHROMONADACEAE			
		DINOBRYON	13	4	
		TOTAL	350		

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

QUALITATIVE AND QUANTITATIVE ANALYSES OF BIOLOGICAL DATA, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975

PHYTOPLANKTON

DATE	TIME	ORGANISM	COUNT (CELLS/ML)	PERCENT OF TOTAL	SAMPLING METHOD
MAY 31	0930	CHLOROPHYTA			DEPTH INTEGRATED
		..CHLOROPHYCEAE			
		...TETRASPORALES			
		...PALMELLACEAE			
		GLOEOCYSTIS	73	24	
		CHRYSTOPHYTA			
		..BACILLARIOPHYCEAE			
		...CENTRALES			
		...COSCINODISCACEAE			
		CYCLOTELLA	91	29	
		...PENNALES			
		...FRAGILARIACEAE			
		ASTERIONELLA	18	6	
		...GOMPHONEMACEAE			
		GOMPHONEMA	18	6	
		...NAVICULACEAE			
		NAVICULA	18	6	
		...NITZSCHIA			
		NITZSCHIA	55	18	
		...TABELLARIA			
		TABELLARIA	18	6	
		..CHRYSTOPHYCEAE			
		...CHRYSONOMADALES			
		...OCHROMONADACEAE			
		DINOBYRON	18	6	
		TOTAL	310		
JUNE 30	1300	CHLOROPHYTA			DEPTH INTEGRATED
		..CHLOROPHYCEAE			
		...CHLOROCOCCALES			
		...OCCYSTACEAE			
		ANKISTRODESMUS	42	7	
		OOCYSTIS	28	5	
		...SCENEDESMACEAE			
		CRUCIGENIA	56	10	
		SCENEDESMUS	28	5	
		CHRYSTOPHYTA			
		..BACILLARIOPHYCEAE			
		...CENTRALES			
		...COSCINODISCACEAE			
		CYCLOTELLA	150	27	
		...PENNALES			
		...ACHNANTHACEAE			
		ACHNANTHES	14	2	
		...GOMPHONEMACEAE			
		GOMPHONEMA	14	2	
		...NAVICULACEAE			
		NAVICULA	28	5	
		...NITZSCHIA			
		NITZSCHIA	56	10	
		...TABELLARIA			
		TABELLARIA	14	2	
		..CHRYSTOPHYCEAE			
		...CHRYSONOMADALES			
		...OCHROMONADACEAE			
		DINOBYRON	42	7	
		CYANOPHYTA			
		..MYXOPHYCEAE			
		...CHROOCOCCALES			
		...CHROOCOCCACEAE			
		ANACYSTIS	84	15	
		PYRRHOPHYTA			
		..DINOBYRON			
		...PERIDINIALES			
		...GLENODINIACEAE			
		GLENODINIUM	14	2	
		TOTAL	570		

ST. CROIX RIVER BASIN

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

QUALITATIVE AND QUANTITATIVE ANALYSES OF BIOLOGICAL DATA, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975

PHYTOPLANKTON

DATE	TIME	ORGANISM	COUNT (CELLS/ML)	PERCENT OF TOTAL	SAMPLING METHOD
JULY 10	1300	CHLOROPHYTA			DEPTH INTEGRATED
		..CHLOROPHYCEAE			
		...CHLOROCOCCALES			
		...OCCYSTACEAE			
		ANKISTRODESMUS	42	2	
		...SCENEDESMACEAE			
		CRUCIGENIA	170	6	
		SCENEDESMUS	170	6	
		CHRYSTOPHYTA			
		..BACILLARIOPHYCEAE			
		..CENTRALES			
		...COSCINODISCACEAE			
		...CYCLOTELLA	130	5	
		..PENNALES			
		...NAVICULACEAE			
		...NAVICULA	84	3	
		CYANOPHYTA			
		..MYXOPHYCEAE			
		...CHROOCOCCALES			
		...CHROOCOCCACEAE			
		AGMENELLUM	1,300	52	
		ANACYSTIS	170	6	
		..OSCILLATORIALES			
		...OSCILLATORIA	420	16	
		PYRRHOPHYTA			
		..DINOPHYCEAE			
		..PERIDINIALES			
		...PERIDINIACEAE			
		PERIDINIUM	84	3	
		TOTAL	2,600		
AUG. 27	1230	CHLOROPHYTA			DEPTH INTEGRATED
		..CHLOROPHYCEAE			
		...CHLOROCOCCALES			
		...HYDRODICTYACEAE			
		PEDIASTRUM	29	2	
		...OCCYSTACEAE			
		ANKISTRODESMUS	43	3	
		...DICTYOSPHAERIUM	43	3	
		...SCENEDESMACEAE			
		CRUCIGENIA	29	2	
		SCENEDESMUS	50	3	
		..ZYGNEMATALES			
		...ZYGNEMATAACEAE			
		...MOUGEOTIA			
		CHRYSTOPHYTA			
		..BACILLARIOPHYCEAE			
		..PENNALES			
		...GOMPHONEMATAACEAE			
		GOMPHONEMA			
		...NITZSCHIA	14	1	
		...NITZSCHIA			
		CYANOPHYTA			
		..MYXOPHYCEAE			
		...CHROOCOCCALES			
		...CHROOCOCCACEAE			
		AGMENELLUM	460	29	
		ANACYSTIS			
		..OSCILLATORIALES			
		...OSCILLATORIA			
		LYNGBYA	900	57	
		EUGLENOPHYTA			
		..EUGLENOPHYCEAE			
		...EUGLENALES			
		...EUGLENACEAE			
		EUGLENA			
		TOTAL	1,600		

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

QUALITATIVE AND QUANTITATIVE ANALYSES OF BIOLOGICAL DATA, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975

PHYTOPLANKTON

DATE	TIME	ORGANISM	COUNT (CELLS/ML)	PERCENT OF TOTAL	SAMPLING METHOD
SEP. 24	1130	CHLOROPHYTA			DEPTH INTEGRATED
		..CHLOROPHYCEAE			
		...CHLOROCOCCALES			
		...OCCYSTACEAE			
		ANKISTRODESMUS			
		...SCENEDESMACEAE			
		SCENEDESMUS			
		..ZYGNEMATALES			
		...ZYGNEMATACEAE			
		MOUGEOTIA			
		CHRYSTOPHYTA			
		..BACILLARIOPHYCEAE			
		..PENNALES			
		...ACHNANTHACEAE			
		...COCCONEIS			
		...CYMBELLACEAE			
		...CYMBELLA	7	14	
		...GOMPHONEMATACEAE			
		...GOMPHONEMA	7	14	
		...NAVICULACEAE			
		...NAVICULA			
		...STAURONEIS			
		...NITZSCHACEAE			
		...NITZSCHIA	27	57	
		...TABELLARIACEAE			
		...TABELLARIA			
		EUGLENOPHYTA			
		..EUGLENOPHYCEAE			
		..EUGLENALES			
		...EUGLENACEAE			
		TRACHELOMONAS	7	14	
		TOTAL	47		

PERIPHYTON

DATE	LENGTH OF EXPOSURE (DAYS)	BIOMASS (G/SQ M)		CHLOROPHYLL A (MG/SQ M)	CHLOROPHYLL B (MG/SQ M)	BIOMASS PIGMENT RATIO	SAMPLING METHOD
		DRY WEIGHT	ASH WEIGHT				
JULY 10	40	1.8	0.6	0.9	0.4	1400	POLYETHYLENE STRIP
AUG. 19	40	0.8	4.4	3.1	0.4	1300	POLYETHYLENE STRIP

DENNYS RIVER BASIN

65

01021200 DENNYS RIVER AT DENNYSVILLE, MAINE

LOCATION.--Lat 44°54'03", long 67°14'56", Washington County, 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 Dennysville.

DRAINAGE AREA.--92.4 mi² (239.3 km²).

WATER DISCHARGE RECORDS

PERIOD OF RECORD.--October 1955 to current year.

GAGE.--Water-stage recorder. Datum of gage is 54.78 ft (16.700 m) above mean sea level.

REMARKS.--Records excellent. Flow slightly regulated by dam at outlet of Meddybemps Lake 14 miles (22 km) upstream. Records of water analyses for the water year 1975 are published on page 165.

AVERAGE DISCHARGE.--20 years, 188 ft³/s (5.32 m³/s), 27.63 in/yr (702 mm/yr).

EXTREMES.--Period of record: Maximum discharge, 3,930 ft³/s (111 m³/s) Apr. 29, 1973 (gage height, 9.35 ft or 2.850 m); minimum, 8.4 ft³/s (0.24 m³/s) Oct. 1, 1957 (gage height, 0.28 ft or 0.085 m).

Current year: Peak discharge above base of 800 ft³/s (22.7 m³/s) and maximums (*):

Date	Time	Discharge (ft ³ /s) (m ³ /s)	Gage height (ft) (m)	Date	Time	Discharge (ft ³ /s) (m ³ /s)	Gage height (ft) (m)
Apr. 20	0700	*902 25.5	*4.18 1.274				

Minimum discharge, 18 ft³/s (0.51 m³/s) Aug. 17, gage height, 0.49 ft (0.149 m).

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	218	64	117	82	87	147	216	409	118	126	22	44
2	152	64	118	81	88	134	200	412	142	90	22	43
3	173	61	541	78	88	123	184	358	122	88	21	44
4	152	61	535	81	90	116	163	340	116	87	20	46
5	122	81	350	78	92	106	186	322	105	86	21	44
6	100	98	226	74	93	104	190	302	114	82	20	40
7	84	100	166	75	94	100	210	312	524	81	20	40
8	71	90	160	75	92	111	460	325	460	80	20	40
9	63	82	480	75	92	129	556	288	282	75	20	40
10	59	75	718	78	92	141	547	212	180	71	19	39
11	56	71	496	81	90	128	544	171	133	64	19	37
12	52	68	282	144	90	116	547	157	117	59	19	37
13	50	94	244	204	90	123	565	150	111	61	19	59
14	48	129	210	184	88	134	589	160	191	59	20	48
15	55	122	168	165	90	131	478	152	352	55	19	36
16	80	112	182	145	92	117	454	144	268	54	18	32
17	150	99	155	126	92	129	475	134	208	51	18	29
18	135	90	226	106	92	125	508	128	180	50	21	29
19	118	84	194	126	92	131	670	118	210	48	24	27
20	98	80	155	145	88	206	886	114	177	47	25	28
21	82	296	131	134	86	514	770	118	182	46	34	29
22	72	556	128	120	82	517	571	117	180	46	48	28
23	70	332	112	105	84	541	493	112	173	44	49	30
24	61	210	110	96	88	490	496	96	184	40	48	36
25	46	177	104	94	102	439	496	93	184	34	49	36
26	47	186	82	99	145	379	511	87	175	33	48	34
27	70	194	90	104	165	350	484	106	169	26	47	34
28	71	208	88	99	160	308	451	134	168	29	46	38
29	68	158	84	94	-----	295	424	137	168	38	44	36
30	67	136	88	93	-----	244	403	126	165	30	48	32
31	65	-----	82	88	-----	238	-----	112	-----	25	48	-----
TOTAL	2,755	4,178	6,822	3,329	2,724	6,866	13,727	5,946	5,858	1,805	916	1,115
MEAN	88.9	139	220	107	97.3	221	458	192	195	58.2	29.5	37.2
MAX	218	556	718	204	165	541	886	412	524	126	49	59
MIN	46	61	82	74	82	100	163	87	105	25	18	27
CFSM	.96	1.50	2.38	1.16	1.05	2.39	4.96	2.08	2.11	.63	.32	.40
IN.	1.11	1.68	2.75	1.34	1.10	2.76	5.53	2.39	2.36	.73	.37	.45

CAL YR 1974 TOTAL 64,987 MEAN 178 MAX 1,310 MIN 38 CFSM 1.93 IN 26.16
WTR YR 1975 TOTAL 56,041 MEAN 154 MAX 886 MIN 18 CFSM 1.67 IN 22.56

MACHIAS RIVER BASIN

01021500 MACHIAS RIVER AT WHITNEYVILLE, MAINE

LOCATION.--Lat 44°43'23", long 67°31'15", Washington County, on right bank 800 ft (244 m) downstream from highway bridge at Whitneyville.

DRAINAGE AREA.--457 mi² (1,184 km²).

WATER DISCHARGE RECORDS

PERIOD OF RECORD.--October 1905 to September 1921, September 1929 to current year. Monthly discharge only for some periods published in WSP 1301. Records for October 1903 to September 1905, published in WSP 97, 124, 165, and 241, are unreliable and should not be used.

GAGE.--Water-stage recorder. Datum of gage is 37.22 ft (11.345 m) above mean sea level. October 1, 1905 to Sept. 30, 1921, nonrecording gage on highway bridge at different datum.

REVISIONS (WATER YEARS).--WSP 971: Drainage area. WSP 1231: 1907-15, 1916-21 (M). See also PERIOD OF RECORD.

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

AVERAGE DISCHARGE.--62 years, 931 ft³/s (26.37 m³/s), 27.67 in/yr (703 mm/yr).

EXTREMES.--Period of record: Maximum discharge, 14,800 ft³/s (419 m³/s) May 29, 1961 (gage height, 16.92 ft or 5.157 m); minimum daily, 3.5 ft³/s (0.099 m³/s) Oct. 12, 1939, when flow was held back by cofferdam during reconstruction of highway bridge upstream.

Current year: Peak discharges above base of 3,200 ft³/s (90.6 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. 10	0600	3,270 92.6	7.14 2.176	Apr. 21	0400	*3,420 96.8	*7.32 2.231
Mar. 21	2000	3,410 96.6	7.31 2.228				

Minimum discharge, 84 ft³/s (2.38 m³/s) Sept. 12, gage height, 2.93 ft (0.893 m).

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1,700	310	837	440	440	957	1,630	1,810	699	332	241	148
2	1,200	301	756	430	420	808	1,390	1,870	603	311	227	133
3	1,060	295	1,410	420	410	756	1,290	1,890	780	297	197	128
4	871	288	1,800	410	390	710	1,190	1,890	658	294	187	137
5	691	325	1,660	410	380	652	1,270	1,840	786	286	180	144
6	576	462	1,210	400	370	597	1,330	1,740	828	270	180	133
7	506	510	982	400	360	552	1,410	1,750	2,310	257	172	124
8	450	466	986	400	355	582	1,500	1,780	2,610	246	172	114
9	405	422	1,940	405	345	791	1,480	1,660	2,010	240	167	110
10	378	392	3,160	420	340	803	1,330	1,510	1,460	238	161	101
11	352	363	2,590	487	330	705	1,300	1,370	1,120	243	149	93
12	334	344	1,950	801	330	620	1,290	1,270	891	256	148	98
13	321	403	1,500	1,120	325	625	1,360	1,200	813	273	178	173
14	307	705	1,200	1,060	330	715	1,440	1,240	1,550	287	221	305
15	303	679	1,040	989	340	717	1,670	1,200	2,450	280	194	258
16	311	613	1,010	832	360	668	1,920	1,120	2,420	269	178	207
17	650	549	1,000	748	370	638	2,030	1,070	1,860	267	160	174
18	842	494	1,200	610	370	635	2,130	983	1,380	255	150	152
19	656	451	1,100	650	370	621	2,550	884	1,110	235	143	140
20	535	422	930	820	370	972	3,280	809	932	221	132	137
21	504	1,030	800	770	370	2,970	3,350	753	798	210	124	150
22	482	2,380	690	680	390	3,150	2,940	707	694	297	125	180
23	436	1,840	630	580	420	2,960	2,480	672	620	477	129	185
24	405	1,320	590	508	490	3,010	2,270	658	564	423	126	212
25	378	1,060	560	502	677	2,840	2,200	612	511	352	120	242
26	381	1,050	530	517	974	2,720	2,240	568	464	304	115	230
27	385	825	510	540	1,220	2,690	2,170	718	424	279	114	224
28	360	1,020	490	520	1,130	2,400	2,090	1,020	391	259	110	278
29	338	971	480	490	-----	2,060	1,980	960	367	243	102	303
30	324	870	460	470	-----	1,790	1,840	774	350	233	107	270
31	315	-----	450	450	-----	1,640	-----	671	-----	239	130	-----
TOTAL	16,756	21,200	34,451	18,279	12,976	42,354	56,350	36,999	32,653	8,673	4,839	5,283
MEAN	541	707	1,111	590	463	1,366	1,878	1,194	1,088	280	156	176
MAX	1,700	2,380	3,160	1,120	1,220	3,150	3,350	1,890	2,610	477	241	305
MIN	303	288	450	400	325	552	1,190	568	350	210	102	93
CFSM	1.18	1.55	2.43	1.29	1.01	2.99	4.11	2.61	2.38	.61	.34	.39
IN.	1.36	1.73	2.80	1.49	1.06	3.45	4.59	3.01	2.66	.71	.39	.43
CAL YR 1974	TOTAL 347,877	MEAN 953	MAX 4,560	MIN 135	CFSM 2.09	IN 28.32						
WTR YR 1975	TOTAL 290,813	MEAN 797	MAX 3,350	MIN 93	CFSM 1.74	IN 23.67						

NARRAGUAGUS RIVER BASIN

67

01022500 NARRAGUAGUS RIVER AT CHERRYFIELD, MAINE

LOCATION.--Lat 44°36'29", long 67°56'10", Washington County, 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.

GAGE.--Water-stage recorder. Datum of gage is 44.2 ft (13.47 m) above mean sea level. Prior to July 1, 1948, nonrecording gage at same site and datum.

REVISIONS (WATER YEARS).--WSP 1301: 1948 (M).

REMARKS.--Records excellent except those for winter period, which are fair. Records of water analyses for the water year 1975 are published on page 165.

AVERAGE DISCHARGE.--27 years, 488 ft³/s (13.82 m³/s), 28.56 in/yr (725 mm/yr).

EXTREMES.--Period of record: Maximum discharge, 10,400 ft³/s (295 m³/s) May 28, 1961 (gage height, 17.40 ft or 5.304 m); minimum, 20 ft³/s (0.57 m³/s) Sept. 22, 23, 1965.

Current year: Peak discharges above base of 2,000 ft³/s (56.6 m³/s) and maximums (*):

Date	Time	Discharge (ft ³ /s) (m ³ /s)	Gage height (ft) (m)	Date	Time	Discharge (ft ³ /s) (m ³ /s)	Gage height (ft) (m)
Mar. 21	1000	2,100 59.5	11.65 3.551				

Minimum discharge, 46 ft³/s (1.30 m³/s) Sept. 12, gage height, 7.22 ft (2.201 m).

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	979	171	349	240	220	399	768	711	401	158	105	79
2	797	167	333	235	210	368	695	700	420	146	97	69
3	616	161	739	230	200	338	653	717	384	139	90	74
4	483	158	842	225	190	304	737	721	341	139	88	80
5	393	192	647	220	185	277	809	704	348	136	88	74
6	332	265	515	220	180	275	732	661	385	131	92	66
7	286	277	451	215	170	253	793	627	1,370	124	87	62
8	249	254	456	215	165	274	896	664	1,270	119	90	58
9	222	233	966	220	160	341	891	635	1,040	117	89	56
10	205	211	1,380	220	150	326	804	577	799	118	83	52
11	190	194	1,330	230	150	276	840	501	604	122	76	49
12	177	184	1,080	489	145	253	843	452	479	132	73	54
13	170	262	932	641	145	288	904	432	468	147	72	117
14	160	380	788	630	150	317	948	450	1,360	153	72	138
15	154	353	613	525	150	300	1,050	444	1,770	150	67	108
16	170	339	517	435	150	284	1,130	436	1,510	145	63	93
17	379	306	547	389	150	297	1,140	417	1,110	142	60	84
18	409	279	639	366	150	305	1,160	385	820	134	60	80
19	350	255	559	435	150	342	1,320	356	655	121	59	75
20	306	240	484	498	155	724	1,650	333	533	109	56	91
21	267	855	406	424	155	1,930	1,750	318	443	121	52	114
22	238	1,310	380	358	160	1,530	1,580	305	382	288	57	115
23	220	1,040	360	329	175	1,660	1,290	311	339	310	59	125
24	205	778	330	277	210	1,790	1,100	320	302	259	56	142
25	194	624	310	266	321	1,700	1,020	281	269	212	55	141
26	199	590	295	275	531	1,630	985	262	237	181	55	128
27	199	532	275	280	520	1,450	972	368	214	153	57	132
28	190	479	270	270	445	1,270	939	530	196	134	55	168
29	179	440	260	255	-----	1,000	856	482	183	124	51	173
30	176	405	255	240	-----	914	770	400	170	113	61	159
31	172	-----	250	230	-----	878	-----	380	-----	108	86	-----
TOTAL	9,266	11,934	17,558	10,082	5,842	22,293	30,025	14,885	18,802	4,685	2,211	2,956
MEAN	299	398	566	325	209	719	1,001	480	627	151	71.3	98.5
MAX	979	1,310	1,380	641	531	1,930	1,750	721	1,770	310	105	173
MIN	154	158	250	215	145	253	653	262	170	108	51	49
CFSM	1.29	1.72	2.44	1.40	.90	3.10	4.31	2.07	2.70	.65	.31	.42
IN.	1.49	1.91	2.82	1.62	.94	3.57	4.81	2.39	3.01	.75	.35	.47

CAL YP 1974 TOTAL 182,231 MEAN 499 MAX 3,000 MIN 78 CFSM 2.15 IN 29.22
WTR YP 1975 TOTAL 150,539 MEAN 412 MAX 1,930 MIN 49 CFSM 1.78 IN 24.14

UNION RIVER BASIN

01023000 WEST BRANCH UNION RIVER AT AMHERST, MAINE

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

DRAINAGE AREA.--148 mi² (383 km²).

WATER DISCHARGE RECORDS

PERIOD OF RECORD.--July 1909 to September 1919, July 1929 to current year. Published as Union River at Amherst, October 1910 to September 1913.

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

REVISIONS (WATER YEARS).--WSP 801: 1935. WSP 821: Drainage area. WSP 1231: 1912-15, 1916-19 (M). WSP 1301: 1901-11.

REMARKS.--Records excellent except those for winter period and period of no gage-height record, which are fair. Records of water analyses for water year 1975 are published on page 165.

AVERAGE DISCHARGE.--56 years, 265 ft³/s (7.505 m³/s), 24.32 in/yr (618 mm/yr).

EXTREMES.--Period of record: Maximum discharge, 4,140 ft³/s (117 m³/s) Apr. 13, 1940 (gage height, 9.58 ft or 2.920 m); maximum gage height, 10.41 ft (3.173 m) Mar. 9, 1942 (ice jam); minimum discharge, 2.6 ft³/s (0.074 m³/s) July 28, 1965 (gage height, 2.75 ft or 0.838 m).

Current year: Peak discharges above base of 1,000 ft³/s (28.3 m³/s) and maximums (*):

Date	Time	Discharge (ft ³ /s) (m ³ /s)	Gage height (ft) (m)	Date	Time	Discharge (ft ³ /s) (m ³ /s)	Gage height (ft) (m)
Mar. 25	-	*1,050 29.7	- -				

Minimum discharge, 10 ft³/s (0.28 m³/s) Aug. 29, 30, gage height, 3.03 ft (0.924 m).

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	381	88	284	155	105	245	560	598	214	82	42	12
2	363	88	287	150	97	259	540	575	222	74	38	12
3	341	83	271	145	93	263	520	562	206	69	37	13
4	298	82	290	145	89	244	510	549	198	67	34	14
5	257	95	421	140	86	225	505	531	199	61	32	13
6	223	121	499	140	83	207	500	509	212	56	31	13
7	195	130	393	140	81	206	505	486	398	53	29	13
8	174	133	251	135	76	218	510	465	464	54	27	12
9	152	134	628	135	74	241	520	438	469	52	25	13
10	136	124	730	130	72	220	530	410	438	50	23	13
11	125	117	669	135	60	206	540	382	394	48	22	13
12	127	112	611	140	58	190	560	354	340	48	22	14
13	114	118	607	160	57	200	580	340	351	55	23	29
14	101	127	572	200	56	200	600	341	625	63	21	25
15	97	135	540	220	56	200	630	314	657	73	20	28
16	102	147	456	200	56	216	660	289	600	89	18	30
17	141	147	414	175	56	208	700	271	541	96	17	32
18	153	143	380	160	56	204	750	240	488	99	16	31
19	156	137	347	155	58	209	800	218	432	91	15	30
20	153	133	300	150	59	250	900	200	370	80	14	39
21	140	228	270	145	60	780	940	190	306	85	13	38
22	126	344	240	140	59	870	940	175	260	88	14	36
23	120	333	225	135	62	930	930	180	224	82	13	40
24	113	308	210	130	87	960	892	173	195	82	12	45
25	105	299	200	130	130	970	862	158	168	80	12	45
26	111	322	190	140	292	940	833	146	145	75	11	47
27	106	329	180	135	310	850	794	179	126	65	11	71
28	98	317	175	130	262	760	743	223	112	58	11	100
29	94	315	170	120	-----	690	682	238	102	53	10	102
30	92	295	160	115	-----	630	632	229	92	48	13	104
31	89	-----	160	110	-----	600	-----	223	-----	46	15	-----
TOTAL	4,983	5,484	11,130	4,540	2,690	13,391	20,168	10,186	9,548	2,122	641	1,027
MEAN	161	183	359	146	96.1	432	672	329	318	68.5	20.7	34.2
MAX	381	344	730	220	310	970	940	598	657	99	42	104
MIN	89	82	160	110	56	190	500	146	92	46	10	12
CFSM	1.09	1.24	2.43	.99	.65	2.92	4.54	2.22	2.15	.46	.14	.23
IN.	1.25	1.38	2.80	1.14	.68	3.37	5.07	2.56	2.40	.53	.16	.26

CAL YR 1974 TOTAL 113,102 MEAN 310 MAX 1,320 MIN 39 CFSM 2.09 IN 28.43
WTR YR 1975 TOTAL 85,910 MEAN 235 MAX 970 MIN 10 CFSM 1.59 IN 21.59

Note.--No gage-height record Mar. 21 to Apr. 23.

UNION RIVER BASIN

69

01024200 GARLAND BROOK NEAR MARIAVILLE, MAINE

LOCATION.--Lat 44°43'17", long 68°24'40", Hancock County, 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).

WATER DISCHARGE RECORDS

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 good.

AVERAGE DISCHARGE.--11 years, 21.3 ft³/s (0.603 m³/s), 29.52 in/yr (750 mm/yr).

EXTREMES.--Period of record: Maximum discharge, 1,230 ft³/s (34.8 m³/s) Dec. 27, 1969 (gage height, 13.47 ft or 4.106 m); minimum, 0.24 ft³/s (0.007 m³/s) Sept. 22-25, 1965.

Current year: Peak discharges above base of 150 ft³/s (4.25 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. 9	1200	242 6.85	6.82 2.079	June 14	0715	227 6.43	6.67 2.033
Apr. 19	2200	182 5.15	6.21 1.893				

Minimum discharge, 0.55 ft³/s (0.016 m³/s) Aug. 30, gage height, 2.53 ft (0.771 m).

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	65	4.7	13	10	5.7	11	31	32	16	5.0	1.5	1.4
2	46	4.8	13	11	6.0	8.9	28	31	19	4.5	1.2	1.5
3	43	4.7	34	9.8	6.4	8.0	25	28	13	4.6	1.2	1.6
4	37	4.7	32	9.9	8.2	7.3	24	27	13	5.8	1.3	1.8
5	37	11	21	9.6	9.0	6.6	26	23	18	5.9	1.5	1.7
6	38	16	16	8.7	7.2	6.1	25	21	35	5.5	1.5	1.5
7	40	12	15	9.2	6.0	6.1	30	20	113	3.8	1.5	1.4
8	48	9.1	18	9.2	5.4	7.2	37	21	52	2.9	1.4	1.3
9	50	7.8	169	8.7	5.1	9.9	35	18	31	2.9	1.8	1.2
10	54	6.9	90	9.3	4.9	7.8	31	16	22	3.1	1.5	1.2
11	45	6.3	49	10	4.6	6.6	36	15	17	3.5	1.2	1.2
12	4.0	6.2	36	29	4.2	6.0	40	14	14	4.5	1.9	1.8
13	3.9	15	39	29	4.2	9.9	48	15	47	8.9	2.0	2.5
14	3.9	20	32	23	4.0	11	58	19	187	10	1.6	2.9
15	3.6	17	25	17	3.7	8.0	74	16	92	7.8	1.1	2.5
16	6.1	16	21	14	3.5	7.6	84	14	54	9.6	.83	2.2
17	24	13	23	12	3.5	7.4	86	18	37	6.5	.80	2.6
18	14	11	30	8.8	3.6	8.1	95	20	30	4.2	.89	2.4
19	9.0	9.4	24	15	4.0	10	141	13	24	3.3	.84	2.3
20	7.3	9.5	20	18	4.1	42	145	11	19	2.7	.73	2.6
21	6.4	71	17	11	4.0	126	99	9.7	15	15	.73	3.0
22	5.6	68	17	9.3	3.9	88	67	8.6	12	14	.90	3.2
23	5.4	31	16	7.6	4.2	82	56	19	11	5.6	1.3	3.5
24	5.2	23	15	6.8	4.8	73	53	15	9.7	3.4	1.2	3.8
25	4.8	22	15	7.0	11	61	52	10	8.3	2.5	1.1	3.7
26	6.6	21	12	8.3	19	53	53	9.8	7.2	2.3	1.2	3.5
27	6.9	21	12	8.8	23	46	46	32	6.8	1.9	2.1	4.2
28	6.0	18	12	7.7	16	42	43	32	5.7	1.8	.98	5.8
29	5.7	16	11	6.9	-----	39	36	18	5.8	1.8	.82	6.2
30	5.1	15	11	7.0	-----	36	33	12	5.4	1.7	1.9	5.8
31	4.5	-----	11	5.7	-----	34	-----	14	-----	1.5	2.3	-----
TOTAL	641.0	511.1	869	357.3	189.2	875.5	1,637	572.1	939.9	156.5	40.82	80.3
MEAN	20.7	17.0	28.0	11.5	6.76	28.2	54.6	18.5	31.3	5.05	1.32	2.68
MAX	65	71	169	29	23	126	145	32	187	15	2.3	6.2
MIN	3.6	4.7	11	5.7	3.5	6.0	24	8.6	5.4	1.5	.73	1.2
CFSM	2.11	1.73	2.86	1.17	.69	2.88	5.57	1.89	3.19	.52	.13	.27
IN.	2.43	1.94	3.30	1.36	.72	3.32	6.21	2.17	3.57	.59	.15	.30

CAL YR 1974	TOTAL	8,676.60	MEAN	23.8	MAX	227	MIN	1.3	CFSM	2.43	IN	32.94
WTR YR 1975	TOTAL	6,869.72	MEAN	18.8	MAX	187	MIN	.73	CFSM	1.92	IN	26.08

PENOBSCOT RIVER BASIN

01029500 EAST BRANCH PENOBSCOT RIVER AT GRINDSTONE, MAINE

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

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

WATER DISCHARGE RECORDS

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

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

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

REMARKS.--Records excellent, except those for winter period, which are fair. Flow regulated by Chamberlain, Telos, Second and Grand Lakes, and Round Pond (see sta. 01028500 and sta. 01029000, page 91). Final regulation at Grand Lake Dam 35 mi (56 km) upstream. Records of water analyses for the water year 1975 are published on page 165.

AVERAGE DISCHARGE.--73 years, 1,922 ft³/s (54.43 m³/s), 23.95 in/yr (608 mm/yr), unadjusted.

EXTREMES.--Period of record: Maximum discharge, 37,000 ft³/s (1,050 m³/s) Apr. 30, 1923 (gage height, 16.9 ft or 5.15 m), site then in use, present datum; minimum daily (1914-74), 77 ft³/s (2.18 m³/s) Nov. 19, 1924.

Current year: Maximum discharge, 12,800 ft³/s (362 m³/s) June 8 (gage height, 10.34 ft or 3.152 m); minimum daily, 407 ft³/s (11.5 m³/s) Aug. 11.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1680	934	893	790	460	1180	1750	5040	1940	913	530	1090
2	1420	941	802	780	450	1140	1690	6350	2480	871	510	1080
3	1370	904	919	750	450	1080	1650	7180	2790	879	507	1110
4	962	843	1250	730	520	1030	1590	7670	2400	934	488	1100
5	776	793	1210	720	750	1000	1550	7920	2280	893	529	1070
6	721	745	1050	710	740	960	1520	7740	2330	847	482	1050
7	684	697	952	680	740	930	1490	8010	6450	821	452	1360
8	795	649	964	670	730	900	1470	8790	12100	772	442	1430
9	1080	609	2750	660	900	880	1450	8900	9970	751	431	1420
10	1340	575	5840	650	1150	850	1440	8230	7710	745	418	1390
11	1380	546	4610	670	1150	830	1430	8470	6110	744	407	1340
12	1360	527	3630	700	1140	800	1430	8700	4220	740	418	1370
13	1350	717	2850	740	1130	780	1430	8780	4710	740	507	1570
14	1530	1940	2340	750	1200	770	1450	8760	9340	754	502	1420
15	1600	1480	1930	740	1340	760	1530	8130	6940	724	438	1340
16	1680	1270	1710	710	1450	750	1700	7850	4930	701	412	1290
17	1670	1140	1600	680	1420	750	1900	7220	3970	658	634	1250
18	1630	1030	1510	660	1380	750	2180	5350	3400	597	762	1220
19	1560	965	1450	630	1340	780	2550	4090	2750	562	753	1190
20	1490	917	1330	610	1280	840	3100	3620	2370	536	737	1200
21	1410	780	1280	600	1250	960	3850	3390	2370	560	726	1200
22	1360	714	1210	570	1240	1100	4250	2710	2220	1060	731	1160
23	1310	967	1150	550	1300	1300	4530	2660	1920	866	732	1130
24	1260	872	1090	540	1400	1600	4840	2840	1610	680	712	1120
25	1210	879	1040	530	1380	2050	5210	2290	1470	609	712	1110
26	1170	689	990	510	1350	2250	5580	1990	1300	567	1020	1080
27	1130	643	950	500	1280	2210	5390	1950	1180	523	1170	1230
28	1060	920	910	490	1210	2130	4980	2060	1110	491	1160	1070
29	1040	945	870	480	---	2000	4700	2140	1040	475	1130	620
30	990	929	850	470	---	1900	4650	1950	968	495	1120	472
31	950	---	820	470	---	1820	---	1860	---	525	1120	---
TOTAL	38968	26560	50750	19740	30130	37080	82280	172640	114378	22033	20692	35482
MEAN	1257	885	1637	637	1076	1196	2743	5569	3813	711	667	1183
MAX	1680	1940	5840	790	1450	2250	5580	8900	12100	1060	1170	1570
MIN	684	527	802	470	450	750	1430	1860	968	475	407	472
MEAN*	599	905	2213	681	464	1067	3205	7047	3775	543	152	223
CFSM*	.55	.83	2.03	.62	.43	.98	2.94	6.47	3.46	.50	.14	.20
IN.*	.63	.93	2.34	.72	.44	1.13	3.28	7.46	3.86	.57	.16	.23

CAL YR 1974 TOTAL 788414 MEAN 2160 MAX 18800 MIN 508 MEAN* 2092 CFSM* 1.92 IN.* 26.04
WTR YR 1975 TOTAL 650733 MEAN 1783 MAX 12100 MIN 407 MEAN* 1747 CFSM* 1.60 IN.* 21.75

*Adjusted for change in contents in Chamberlain, Telos, Second, and Grand Lakes, and Round Pond.

PENOBSCOT RIVER BASIN

71

01030000 PENOBSCOT RIVER NEAR MATTAWAMKEAG, MAINE

LOCATION.--Lat 45°34'01", long 68°24'10", Penobscot County, on left bank 700 ft (213 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.

WATER DISCHARGE RECORDS

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

GAGE.--Water-stage recorder. Datum of gage is 191.72 ft (58.436 m) above mean sea level.

REVISIONS.--WSP 2101: Drainage area.

REMARKS.--Records good. Flow regulated by many reservoirs above station (see p.91).

AVERAGE DISCHARGE.--35 years, 5,695 ft³/s (161.3 m³/s), 23.04 in/yr (585 mm/yr), unadjusted.

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

Current year: Maximum daily discharge, 17,000 ft³/s (481 m³/s) June 8; minimum daily, 2,300 ft³/s (65.1 m³/s) July 2.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	3350	3500	3050	4150	3950	4750	5600	9000	5000	2600	3750	2900
2	3500	3400	3000	3300	4100	4800	5400	10000	5800	2300	3400	2900
3	3600	3300	3100	3500	4000	4750	5600	11000	6000	2550	3600	3600
4	3900	3500	3700	3450	4200	4650	4900	12000	5400	2600	3500	3550
5	3200	3500	3200	3600	4100	4550	4300	12500	5700	3000	3500	3400
6	2850	3200	3400	3600	4300	4300	3850	12000	6000	2800	3550	3600
7	2800	3500	3550	3200	4250	3650	3900	12300	10000	3300	3600	3500
8	3200	3400	3700	3300	4050	3300	4700	13000	17000	4100	3600	3900
9	3700	3550	5600	3700	4000	3400	4900	13500	15000	3700	3700	3700
10	4000	3800	7600	3600	4000	3700	4900	12500	11500	4000	3800	3500
11	4000	3600	6600	3900	4100	3650	5200	11700	9200	4000	3500	3800
12	3800	3500	6000	4000	4000	4000	5300	12000	8400	4300	3550	3600
13	4100	4100	5450	4200	4100	4400	5500	11900	8600	3900	3700	3750
14	5400	5400	5300	4250	4300	4500	5800	11500	14000	4100	3550	3900
15	5400	5400	4200	4350	3750	4400	6100	11300	12000	4100	3600	3750
16	4700	3500	3900	4100	4400	4500	6800	10800	10500	3800	3600	3600
17	3900	3400	4100	4300	4400	4500	7200	10000	9500	3700	3750	3700
18	3400	3750	4100	4000	4600	4600	7600	7000	8600	3600	3900	3400
19	3800	3500	4050	4250	4400	4400	10000	6000	7800	2900	3600	3300
20	4200	3700	4200	4300	4200	4800	13500	5600	7400	3100	3550	3500
21	4000	4200	3800	4200	4000	5400	14000	4800	7100	3800	3550	3550
22	4000	4000	3400	4100	4500	6200	11000	5000	6900	3850	3500	3450
23	3700	3000	3700	4000	4300	6600	9600	5100	6500	3900	3400	3400
24	3900	3600	3300	3850	4350	6700	9500	5600	5800	4000	3500	3450
25	3900	3800	3150	3900	4600	6600	10000	5000	5200	4000	3400	3500
26	3700	3750	2800	3800	4600	6600	8800	5400	5200	3600	3450	3600
27	3600	3050	3400	3700	4650	6500	8100	5000	4750	3800	3500	3800
28	3400	3150	3300	4000	4600	6200	7400	4700	4600	3800	3500	4000
29	3000	3200	3100	3750	---	6300	8000	4950	4600	3900	3400	3500
30	3200	3100	3700	3800	---	6200	8500	5200	3200	3650	3350	3550
31	3350	---	3150	3800	---	5900	---	4700	---	3500	3150	---
TOTAL	116550	109350	124600	119950	118800	154800	215950	271050	237250	110250	110000	106650
MEAN	3760	3645	4019	3869	4243	4994	7198	8744	7908	3556	3548	3555
MAX	5400	5400	7600	4350	4650	6700	14000	13500	17000	4300	3900	4000
MIN	2800	3000	2800	3200	3750	3300	3850	4700	3200	2300	3150	2900
MEAN*	.692	.2418	.5645	.1955	.1095	.2765	.9968	.21140	.9552	.1097	.100	.495
CFSM*	.21	.72	1.68	.58	.33	.82	2.97	6.30	2.85	.33	.03	.15
IN.*	.24	.80	1.94	.67	.34	.95	3.31	7.26	3.18	.38	.04	.16
CAL YR 1974	TOTAL	2499600	MEAN	6848	MAX	35000	MIN	2700	MEAN*	6284	CFSM*	1.87
WTR YR 1975	TOTAL	1795200	MEAN	4918	MAX	17000	MIN	2300	MEAN*	4763	CFSM*	1.42
											IN.*	25.41
											IN.*	19.27

*Adjusted for change in contents in reservoirs in East and West Branches of Penobscot River.

PENOBSCOT RIVER BASIN

01030500 MATTAWAMKEAG RIVER NEAR MATTAWAMKEAG, MAINE

LOCATION.--Lat 45°30'18", long 68°18'07", Penobscot County, on right bank at Gordon Lower Falls, 1.0 mi (1.6 km) upstream from Mattakeunk Stream, 3.7 mi (6.0 km) upstream from Mattawamkeag, and 4.1 mi (6.6 km) upstream from mouth.

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

WATER DISCHARGE RECORDS

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

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

REVISIONS.--WSP 1501: Drainage area.

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

AVERAGE DISCHARGE.--41 years, 2,440 ft³/s (69.1 m³/s), 23.37 in/yr (594 mm/yr).

EXTREMES.--Period of record: Maximum discharge, 29,200 ft³/s (827 m³/s) Mar. 25, 1936 (gage height, 15.34 ft or 4.676 m); minimum, 38 ft³/s (1.08 m³/s) Sept. 19, 1952.

Current year: Maximum discharge, 11,000 ft³/s (312 m³/s) Apr. 23 (gage height, 8.20 ft or 2.499 m); minimum, 59 ft³/s (1.67 m³/s) Sept. 2, 3, 4 (gage height, 0.07 ft or 0.021 m).

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	845	381	1600	1100	560	415	4060	8110	1670	792	271	64
2	933	388	1550	1050	550	430	3750	8040	1650	706	252	61
3	907	403	1500	1000	540	425	3470	8650	1650	650	234	59
4	849	442	1450	990	520	410	2900	9560	1620	593	218	61
5	793	466	1400	970	515	395	2710	10300	1570	595	206	63
6	737	471	1350	940	510	380	2580	10500	1580	663	201	63
7	671	472	1300	920	505	365	2460	10500	2610	667	190	67
8	600	464	1250	900	500	350	2380	10400	5160	617	181	81
9	544	453	1200	890	485	350	2310	10200	7470	556	172	80
10	487	439	1250	880	470	350	2220	9800	8330	511	162	78
11	451	420	1500	880	460	350	2110	9080	7890	474	151	78
12	410	389	2500	900	455	350	2080	8210	6800	457	145	78
13	389	400	2650	950	450	345	2120	7320	5670	497	142	80
14	367	461	2500	1050	440	345	2230	6500	5570	736	139	85
15	360	657	2400	1180	430	340	2560	5700	6660	862	127	105
16	374	899	2250	1210	420	340	3110	4950	7530	908	120	155
17	488	1050	2150	1180	415	340	3770	4280	7540	908	114	166
18	676	1080	2000	1150	410	350	4590	3740	6840	792	107	163
19	796	1040	1900	1020	400	370	5960	3270	5830	655	102	155
20	803	985	1800	920	400	420	7900	2870	4680	543	93	154
21	757	1090	1700	880	390	560	9920	2540	3750	474	87	162
22	694	1090	1650	810	385	850	10800	2250	3040	477	85	162
23	628	1140	1550	770	385	1400	10900	2080	2540	555	86	161
24	577	1180	1500	720	380	2100	10800	2070	2170	583	84	163
25	532	1290	1450	680	375	2800	10600	1990	1860	545	82	172
26	508	1450	1350	660	370	3380	10400	1850	1570	495	82	190
27	485	1500	1300	640	380	3730	10200	1760	1340	424	80	293
28	471	1550	1250	620	405	3920	9900	1760	1170	358	73	548
29	454	1600	1200	600	---	3820	9310	1860	1030	324	67	819
30	425	1600	1150	590	---	3790	8640	1850	898	293	66	849
31	388	---	1100	580	---	4010	---	1760	---	288	65	---
TOTAL	18399	25250	50700	27630	12505	37780	166740	173750	117688	17998	4184	5415
MEAN	594	842	1635	891	447	1219	5558	5605	3923	581	135	181
MAX	933	1600	2650	1210	560	4010	10900	10500	8330	908	271	849
MIN	360	381	1100	580	370	340	2080	1760	898	288	65	59
CFSM	.42	.59	1.15	.63	.32	.86	3.92	3.95	2.77	.41	.10	.13
IN.	.48	.66	1.33	.72	.33	.99	4.37	4.56	3.09	.47	.11	.14
CAL YR 1974	TOTAL	902752	MEAN	2473	MAX	18600	MIN	204	CFSM	1.74	IN	23.68
WTR YR 1975	TOTAL	658039	MEAN	1803	MAX	10900	MIN	59	CFSM	1.27	IN	17.26

01031500 PISCATAQUIS RIVER NEAR DOVER-FOXCROFT, MAINE

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

DRAINAGE AREA.--297 mi² (769 km²).

WATER DISCHARGE RECORDS

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

GAGE.--Water-stage recorder. Datum of gage is 358.1 ft (109.15 m) above mean sea level. Prior to July 20, 1930, nonrecording gage at same site and datum.

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

REMARKS.--Records excellent except those for winter period, which are fair. Low flow may be regulated by operation of mills above station. Records of water analyses for the water year 1975 are published on page 165.

AVERAGE DISCHARGE.--73 years, 599 ft³/s (16.96 m³/s), 27.39 in/yr (696 mm/yr).

EXTREMES.--Period of record: Maximum discharge, 22,800 ft³/s (646 m³/s) Nov. 4, 1966 (gage height, 17.89 ft or 5.453 m); minimum, 5 ft³/s (0.14 m³/s) Aug. 6, 1905, Nov. 22, 1908.

Current year: Peak discharges above base of 4,000 ft³/s (113 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. 9	1600	*6,830 193	*8.94 2.725	June 14	0700	6,300 178	8.56 2.609
Apr. 20	0500	4,130 117	6.84 2.085				

Minimum discharge, 20 ft³/s (0.57 m³/s) Aug. 23, gage height, 1.55 ft (0.472 m).

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	147	85	249	275	155	360	690	2430	348	106	60	44
2	120	93	234	265	150	300	640	3140	402	97	57	45
3	131	93	605	260	145	260	610	3140	356	108	52	50
4	168	91	905	250	145	245	600	3160	338	125	52	65
5	147	102	617	240	150	235	570	2760	487	128	60	67
6	123	136	492	230	160	230	564	2670	455	115	56	56
7	104	147	388	225	165	220	570	2680	2560	97	54	50
8	85	134	435	220	165	215	564	2580	2120	87	48	43
9	77	118	5740	210	160	210	526	2210	1420	83	45	46
10	74	106	4570	205	155	205	476	1890	958	89	41	45
11	72	93	2520	200	150	200	476	1670	700	106	38	44
12	68	95	1670	250	140	200	487	1470	553	102	33	45
13	65	338	1260	350	140	195	542	1310	1820	131	33	51
14	62	654	1030	275	130	195	587	1180	4430	293	41	57
15	62	460	849	240	130	200	814	988	2920	257	45	58
16	67	392	726	200	125	200	1160	856	1760	245	40	56
17	85	317	617	185	120	200	1500	752	1360	187	34	51
18	108	273	550	180	120	200	2110	599	891	139	31	48
19	113	234	510	170	120	195	3100	514	700	113	28	46
20	97	206	470	170	120	230	3840	460	548	95	25	60
21	87	526	440	165	125	2530	3280	406	445	93	23	120
22	77	726	410	160	125	3490	2400	356	370	174	23	111
23	77	564	385	160	130	2870	2210	330	321	142	22	102
24	75	455	370	160	135	2320	2760	313	285	108	21	95
25	72	410	355	160	160	1830	2430	269	238	93	22	95
26	75	531	340	165	220	1500	2680	253	203	85	23	95
27	75	492	330	170	350	1300	2340	465	177	75	26	177
28	77	520	320	170	380	1100	2010	793	156	72	28	406
29	77	397	305	165	---	960	1810	599	134	69	28	273
30	75	297	295	160	---	850	1770	440	115	67	32	196
31	77	---	280	155	---	760	---	361	---	66	35	---
TOTAL	2819	9085	28267	6390	4470	24005	44116	41044	27570	3747	1156	2697
MEAN	90.9	303	912	206	160	774	1471	1324	919	121	37.3	89.9
MAX	168	726	5740	350	380	3490	3840	3160	4430	293	60	406
MIN	62	85	234	155	120	195	476	253	115	66	21	43
CFSM	.31	1.02	3.07	.69	.54	2.61	4.95	4.46	3.09	.41	.13	.30
IN.	.35	1.14	3.54	.80	.56	3.01	5.53	5.14	3.45	.47	.14	.34

CAL YR 1974	TOTAL	261492	MEAN 716	MAX 6130	MIN 46	CFSM 2.41	IN 32.75
WTR YR 1975	TOTAL	195366	MEAN 535	MAX 5740	MIN 21	CFSM 1.80	IN 24.47

PENOBSCOT RIVER BASIN

01031600 MORRISON BROOK NEAR SEBEC CORNERS, MAINE

LOCATION.--Lat 45°14'17", long 69°03'06", Piscataquis County, on left bank 60 ft (18 m) upstream from culvert on State Highway 16, 2.4 mi (3.9 km) east of Sebec Corners, and 3.8 mi (6.1 km) upstream from mouth.

DRAINAGE AREA.--4.37 mi² (11.32 km²).

WATER DISCHARGE RECORDS

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

GAGE.--Water-stage recorder. Datum of gage is 408.41 ft (124.483 m) above mean sea level.

REMARKS.--Records good except those for winter period, which are fair. Records of water analyses for the water year 1975 are published on page 165.

AVERAGE DISCHARGE.--11 years (1965-75), 7.57 ft³/s (0.214 m³/s), 23.52 in/yr (597 mm/yr).

EXTREMES.--Period of record: Maximum discharge, 575 ft³/s (16.3 m³/s) Nov. 3, 1966 (gage height, 8.95 ft or 2.728 m); minimum, 0.04 ft³/s (0.001 m³/s) Aug. 17, 18, 23, 25, 1975 (gage height, 1.70 ft or 0.518 m).

Current year: Peak discharges above base of 70 ft³/s (1.98 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)
June 13	2245	*37.2 1.05	*3.07 0.936				

No peaks above base.

Minimum discharge, 0.04 ft³/s (0.001 m³/s) Aug. 17, 18, 23, 25, gage height, 1.70 ft (0.518 m).

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1.9	1.1	3.7	3.0	1.9	3.4	7.2	30	4.0	1.1	.42	.49
2	1.9	1.1	4.3	3.0	1.9	3.1	6.8	29	5.8	.95	.43	.52
3	2.2	1.1	10	2.9	1.8	3.0	6.5	27	4.8	1.1	.55	.71
4	1.9	1.3	8.7	2.8	1.8	2.9	6.2	28	4.4	1.1	1.1	.69
5	1.6	1.4	5.6	2.8	1.7	2.8	6.2	31	5.4	1.1	1.3	.60
6	1.4	1.5	4.8	2.8	2.0	2.7	6.2	28	9.1	.93	.98	.57
7	1.3	1.3	4.4	2.7	2.1	2.6	6.2	24	24	.74	.70	.57
8	1.3	1.2	6.4	2.6	2.0	2.5	6.0	23	22	.66	.56	.57
9	1.2	1.1	19	2.6	1.9	2.5	5.9	15	21	.66	.46	.98
10	1.1	1.1	12	2.6	1.8	2.4	5.8	8.9	19	1.0	.38	.93
11	1.1	.91	10	2.7	1.8	2.4	5.8	6.2	8.6	.99	.31	.90
12	.91	.99	9.0	4.4	1.7	2.4	6.2	5.7	6.1	.97	.25	1.2
13	.97	2.8	8.0	4.2	1.7	2.3	6.8	5.5	16	2.0	.23	1.9
14	.92	3.3	7.0	3.6	1.6	2.3	8.0	5.4	32	3.6	.13	1.9
15	1.0	2.9	6.5	3.6	1.6	2.3	10	4.8	27	2.8	.10	1.7
16	1.0	2.4	6.0	3.2	1.6	2.3	14	4.6	19	2.2	.07	1.6
17	1.5	2.1	5.6	2.9	1.5	2.4	20	4.3	20	1.6	.06	1.5
18	1.5	1.9	5.2	2.7	1.5	2.5	26	3.6	15	1.2	.05	.94
19	1.5	1.7	5.0	2.6	1.6	2.7	31	3.2	8.9	.88	.05	.51
20	1.4	1.6	4.8	2.5	1.6	9.2	23	3.1	6.2	.77	.06	.85
21	1.3	8.1	4.5	2.4	1.6	16	21	2.9	5.0	.80	.05	1.0
22	1.2	9.1	4.3	2.4	1.5	22	23	2.5	4.1	1.1	.05	1.5
23	1.2	6.2	4.2	2.3	1.5	23	26	10	3.4	.94	.06	1.6
24	1.1	3.8	4.0	2.3	1.5	20	29	29	2.9	.77	.07	1.6
25	1.1	4.9	3.8	2.2	2.5	15	29	7.9	2.5	.70	.05	1.4
26	1.1	9.4	3.7	2.5	3.6	13	30	5.0	2.1	.56	.05	1.4
27	1.1	5.2	3.6	2.4	3.9	12	25	9.5	1.8	.46	.10	3.0
28	1.0	4.2	3.5	2.2	3.7	10	23	12	1.6	.44	.14	3.3
29	1.0	3.6	3.3	2.1	---	9.0	24	6.5	1.4	.46	.10	2.4
30	1.0	3.4	3.2	2.0	---	8.3	27	4.5	1.2	.48	.21	1.7
31	1.0	---	3.1	2.0	---	7.8	---	4.0	---	.42	.47	---
TOTAL	39.70	90.70	187.2	85.0	54.9	214.8	470.8	384.1	304.3	33.48	9.54	38.53
MEAN	1.28	3.02	6.04	2.74	1.96	6.93	15.7	12.4	10.1	1.08	.31	1.28
MAX	2.2	9.4	19	4.4	3.9	23	31	31	32	3.6	1.3	3.3
MIN	.91	.91	3.1	2.0	1.5	2.3	5.8	2.5	1.2	.42	.05	.49
CFSM	.29	.69	1.38	.63	.45	1.59	3.59	2.84	2.31	.25	.07	.29
IN.	.34	.77	1.59	.72	.47	1.83	4.01	3.27	2.59	.28	.08	.33
CAL YR 1974	TOTAL	2420.14	MEAN	6.63	MAX	37	MIN	.39	CFSM	1.52	IN	20.60
WTR YR 1975	TOTAL	1913.05	MEAN	5.24	MAX	32	MIN	.05	CFSM	1.20	IN	16.28

PENOBSCOT RIVER BASIN

75

01033000 SEBEC RIVER AT SEBEC, MAINE

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

DRAINAGE AREA.--327 mi² (847 km²).

WATER DISCHARGE RECORDS

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

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

REVISIONS (WATER YEARS).--WSP 1171: Drainage area, 1936 (M). WSP 1301: 1925.

REMARKS.--Records excellent. Flow regulated by Sebec Lake (see p. 91) and other reservoirs above station.

AVERAGE DISCHARGE.--51 years, 628 ft³/s (17.78 m³/s), 26.08 in/yr (662 mm/yr), unadjusted.

EXTREMES.--Period of record: Maximum discharge, 11,400 ft³/s (323 m³/s) Mar. 20, 1936 (gage height, 14.46 ft or 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 (0.057 m³/s) Oct. 14-17, 1930 (gage height, 0.87 ft or 0.265 m), when gates in dam were closed.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	488	164	85	496	352	378	909	1920	231	225	246	164
2	441	157	85	494	352	398	852	1970	290	225	245	163
3	399	146	89	491	349	386	797	2050	310	225	242	165
4	375	142	90	489	348	371	826	2150	648	226	241	163
5	365	143	92	486	347	351	794	2200	1040	228	230	158
6	348	146	95	483	347	338	752	2210	1090	229	225	149
7	338	142	95	479	347	331	716	2230	1460	229	221	149
8	308	140	99	616	344	341	682	2230	1650	234	224	149
9	279	137	138	696	343	332	644	2190	1680	235	224	146
10	263	134	179	685	343	313	609	2140	1660	237	218	142
11	254	130	737	676	342	304	580	2110	1550	235	215	141
12	235	127	1360	671	340	294	559	2060	1480	240	214	143
13	226	152	1360	666	338	294	552	1980	1700	245	213	143
14	215	183	1350	661	338	286	555	1890	2280	248	209	145
15	220	212	1320	656	336	293	575	1440	2410	249	206	145
16	216	227	1120	644	333	291	648	748	2390	259	202	260
17	221	226	896	630	333	283	762	746	2280	260	201	507
18	231	228	889	625	333	278	943	749	1840	260	201	499
19	220	227	882	394	332	276	1200	478	1520	264	198	499
20	221	223	807	362	330	306	1530	153	1250	267	194	499
21	209	253	703	362	329	427	1730	159	900	269	188	496
22	198	223	700	360	325	579	1810	165	900	263	189	492
23	197	77	695	359	324	771	1840	171	475	259	189	488
24	193	79	596	357	320	916	1890	169	270	259	185	484
25	187	81	512	357	322	1000	1950	168	270	260	182	482
26	199	83	510	358	324	1070	2000	173	270	256	181	625
27	202	82	508	357	359	1090	2040	184	270	251	178	747
28	177	82	506	357	379	1080	2030	196	270	249	171	734
29	170	84	503	356	---	1040	1990	195	270	249	166	704
30	162	84	501	354	---	1010	1940	198	240	248	165	658
31	160	---	497	352	---	970	---	208	---	246	164	---
TOTAL	7917	4514	17999	15329	9509	16397	34705	35630	32894	7629	6327	10439
MFAN	255	150	581	494	340	529	1157	1149	1096	246	204	348
MAX	488	253	1360	696	379	1090	2040	2230	2410	269	246	747
MIN	160	77	85	352	320	276	552	153	231	225	164	141
MEAN*	84	462	805	260	93	651	1472	1331	1084	180	58	96
CFSM*	.26	1.41	2.46	.80	.28	1.99	4.50	4.07	3.31	.55	.18	.29
IN.*	.30	1.57	2.84	.92	.30	2.29	5.02	4.69	3.69	.63	.20	.33
CAL YR 1974	TOTAL	254584	MEAN 697	MAX 3920	MIN 77	MEAN* 692	CFSM* 2.12	IN.* 28.78				
WTR YR 1975	TOTAL	199289	MEAN 546	MAX 2410	MIN 77	MEAN* 549	CFSM* 1.68	IN.* 22.78				

*Adjusted for change in contents in Sebec Lake.

PENOBSCOT RIVER BASIN

01033500 PLEASANT RIVER NEAR MILO, MAINE

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

DRAINAGE AREA.--324 mi² (839 km²).

WATER DISCHARGE RECORDS

PERIOD OF RECORD.--June 1920 to current year.

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

REVISIONS (WATER YEARS).--WSP 1301: 1921-22 (M), 1924-27 (M), 1929 (M). WSP 2101: Drainage area.

REMARKS.--Records excellent except those for winter period, which are fair. Flow may be slightly regulated by small storage dams above station. Records of water analyses for the water year 1975 are published on page 105.

AVERAGE DISCHARGE.--55 years, 704 ft³/s (19.94 m³/s), 29.51 in/yr (750 mm/yr).

EXTREMES.--Period of record: Maximum discharge, 28,600 ft³/s (810 m³/s) Nov. 4, 1966 (gage height, 15.46 ft or 4.712 m); minimum, 15 ft³/s (0.42 m³/s) Aug. 17, 1944 (gage height, 1.21 ft or 0.369 m).

Current year: Peak discharges above base of 3,700 ft³/s (105 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. 9	1200	7,450 211	7.06 2.152	June 14	1000	*9,730 276	*8.05 2.454
June 7	2100	3,840 109	5.31 1.618				

Minimum discharge, 59 ft³/s (1.67 m³/s) Aug. 21, gage height, 1.51 ft (0.460 m).

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	391	149	454	310	170	320	550	2010	723	234	181	138
2	321	156	547	300	170	290	500	2820	767	215	170	123
3	328	153	674	290	170	265	460	3230	674	205	192	144
4	299	149	863	280	165	250	420	3470	611	204	206	168
5	259	156	958	275	170	240	420	3240	662	233	187	149
6	229	167	924	270	175	230	420	3120	702	235	165	127
7	205	165	858	265	200	220	420	3270	3180	206	142	120
8	183	158	545	260	195	220	420	3200	3550	190	126	112
9	166	150	3900	260	190	210	410	2790	2650	180	113	131
10	142	143	5250	255	180	210	410	2510	1770	197	102	137
11	148	138	3140	255	180	205	410	2440	1300	232	92	118
12	140	138	1920	390	170	200	405	2490	1020	215	98	116
13	137	284	1420	520	170	200	405	2540	2220	240	273	271
14	134	582	1130	420	160	200	420	2500	8840	368	191	289
15	140	525	995	310	160	200	618	2160	5500	349	134	231
16	170	451	835	250	160	210	861	1940	2980	392	105	189
17	209	390	725	220	155	210	1120	1860	2020	323	89	163
18	240	343	635	200	155	210	1500	1540	1510	258	80	145
19	229	308	580	190	165	210	2200	1310	1210	214	74	133
20	205	290	530	190	170	300	2800	1180	982	206	67	201
21	184	532	495	180	170	1600	2530	1060	808	210	62	281
22	167	583	465	180	165	3400	1960	935	690	253	64	263
23	158	538	435	180	165	2800	1810	1330	605	234	67	230
24	153	485	415	180	170	2000	2120	1250	534	195	65	236
25	148	410	395	180	180	1300	2020	952	467	176	66	230
26	152	490	380	185	200	1100	2370	794	399	172	70	217
27	157	534	365	195	250	950	2080	974	349	156	81	424
28	149	623	350	190	360	840	1760	1280	313	142	98	735
29	140	615	340	185	---	740	1550	1120	288	233	94	515
30	138	502	330	180	---	600	1570	875	260	224	96	379
31	142	---	320	175	---	600	---	763	---	194	139	---
TOTAL	5963	10307	31173	7720	5090	20530	34939	60953	47584	7085	3689	6715
MEAN	192	344	1006	249	182	662	1165	1966	1586	229	119	224
MAX	391	623	5250	520	360	3400	2800	3470	8840	392	273	735
MIN	134	138	320	175	155	200	405	763	260	142	62	112
CFSM	.59	1.06	3.10	.77	.56	2.04	3.60	6.07	4.90	.71	.37	.69
IN.	.68	1.18	3.58	.89	.58	2.36	4.01	7.00	5.46	.81	.42	.77
CAL YR 1974	TOTAL	275257	MEAN 754	MAX 7260	MIN 73	CFSM 2.33	IN 31.60					
WTR YR 1975	TOTAL	241748	MEAN 662	MAX 8840	MIN 62	CFSM 2.04	IN 27.76					

PENOBSCOT RIVER BASIN

77

01034000 PISCATAQUIS RIVER AT MEDFORD, MAINE

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

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

WATER DISCHARGE RECORDS

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

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

REVISIONS (WATER YEARS).--WSP 1171: Drainage area. WSP 1231: 1936. WSP 1301: 1925-29 (M).

REMARKS.--Records excellent except those for winter period, which are fair. Flow regulated by Sebec Lake 15 mi (24 km) upstream (see p. 91) and other small reservoirs and powerplants above station.

AVERAGE DISCHARGE.--51 years, 2,331 ft³/s (66.01 m³/s), 27.27 in/yr (693 mm/yr), unadjusted.

EXTREMES.--Period of record: Maximum discharge, 60,100 ft³/s (1,700 m³/s) Nov. 4, 1966 (gage height, 15.58 ft or 4.749 m); minimum, 99 ft³/s (2.80 m³/s) Oct. 28, 1947 (gage height, 1.28 ft or 0.390 m).
Maximum stage known, 20.8 ft (6.34 m) May 1, 1923, former site and datum.

Current year: Peak discharges above base of 13,000 ft³/s (368 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. 10	0500	14,100 399	7.65 2.332	June 14	1800	*20,000 566	*8.95 2.728

Minimum discharge, 255 ft³/s (7.22 m³/s), Aug. 24-26, gage height, 1.66 ft (0.506 m).

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1240	417	1120	1120	750	1100	2000	6860	1500	699	500	341
2	1080	425	1170	1110	740	1040	1850	8570	1620	618	487	335
3	1020	422	1190	1090	730	980	1700	9320	1620	591	463	356
4	958	416	2370	1080	720	920	1630	9880	1510	593	502	390
5	923	424	2520	1050	770	880	1650	9390	2170	633	497	374
6	846	459	2140	1020	810	840	1650	8840	2400	655	468	353
7	772	497	1700	1010	840	810	1620	8870	7400	615	432	340
8	678	511	1200	990	840	790	1610	9000	9490	574	405	322
9	609	486	6620	1200	825	770	1580	8110	7440	550	388	358
10	558	452	13400	1180	815	760	1540	7300	5530	593	362	359
11	531	424	8660	1150	800	745	1530	6790	4280	612	340	334
12	498	415	6340	1140	790	730	1530	6540	3510	621	334	329
13	473	563	5010	1650	785	730	1620	6280	4250	675	444	468
14	452	1380	4180	1550	780	720	1800	6070	17100	1010	468	566
15	452	1340	3800	1390	770	720	2200	5470	15800	1120	381	501
16	476	1300	3260	1250	760	730	3000	4130	9680	1060	338	663
17	547	1140	2370	1170	760	735	4300	3670	7090	981	317	778
18	623	1020	2150	1090	840	735	5970	3220	5480	822	307	739
19	651	931	2000	1090	900	740	8180	2770	4120	701	299	723
20	626	880	1890	700	875	820	10700	2120	3390	633	278	769
21	578	1500	1800	695	860	2300	10300	1840	2580	621	263	875
22	526	2240	1650	685	860	5000	8330	1670	2240	656	268	934
23	493	1760	1600	680	855	6000	7350	1940	1980	702	266	950
24	474	1370	1450	675	860	5600	8070	2230	1390	647	255	937
25	458	1320	1380	680	890	4700	7860	1770	1180	585	250	916
26	461	1410	1320	730	960	4200	8460	1460	1060	548	261	887
27	467	1570	1280	825	1050	3700	8030	1700	961	515	282	1170
28	452	1560	1230	805	1120	3200	7170	2540	891	481	287	1800
29	427	1460	1200	780	---	2850	6450	2440	840	540	282	1870
30	412	1290	1180	770	---	2550	6160	1910	790	573	295	1540
31	411	---	1160	760	---	2300	---	1610	---	523	324	---
TOTAL	19172	29382	88340	31115	23355	58695	135840	154310	129292	20747	11043	21277
MEAN	618	979	2850	1004	834	1893	4528	4978	4310	669	356	709
MAX	1240	2240	13400	1650	1120	6000	10700	9880	17100	1120	502	1870
MIN	411	415	1120	675	720	720	1530	1460	790	481	250	322
MEAN*	447	1291	3074	770	587	2015	4843	5160	4298	603	210	457
CFSM*	.38	1.11	2.65	.66	.51	1.74	4.17	4.44	3.70	.52	.18	.39
IN.*	.44	1.24	3.06	.76	.53	2.01	4.65	5.12	4.13	.60	.21	.44

CAL YR 1974	TOTAL	934962	MEAN	2562	MAX	20400	MIN	373	MEAN*	2557	CFSM*	2.20	IN.*	29.89
WTR YR 1975	TOTAL	722568	MEAN	1980	MAX	17100	MIN	250	MEAN*	1983	CFSM*	1.71	IN.*	23.19

*Adjusted for change in contents in Sebec Lake.

PENOBSCOT RIVER BASIN

01034500 PENOBSCOT RIVER AT WEST ENFIELD, MAINE

(National Stream-Quality Accounting Network Station)

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

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

WATER DISCHARGE RECORDS

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

GAGE.--Water-stage recorder. Datum of gage is 125.94 ft (38.387 m) above mean sea level. Prior to Dec. 11, 1912, nonrecording gage at same site and datum.

REVISIONS (WATER YEARS).--WSP 279: 1902-10. WSP 1171: 1940. WSP 1231: 1902-13. WSP 2101: Drainage area.

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

REMARKS.--Records excellent, except those for winter period, which are fair. Flow regulated by many reservoirs above station (see p.91).

AVERAGE DISCHARGE.--73 years (1902-75), 11.730 ft³/s (332.2 m³/s), 23.88 in/yr (607 mm/yr), unadjusted.

EXTREMES.--Period of record: Maximum discharge, 153,000 ft³/s (4,330 m³/s) May 1, 1923 (gage height, 25.15 ft or 7.666 m), from rating curve extended above 88,000 ft³/s (2,490 m³/s); minimum, 1,630 ft³/s (46.2 m³/s) Oct. 29, 1905 (gage height, 1.0 ft or 0.30 m).

Current year: Maximum discharge, 47,500 ft³/s (1,345 m³/s) June 15 (gage height, 12.29 ft or 3.746 m); minimum daily, 4,190 ft³/s (119 m³/s) Sept. 2.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP		
1	7400	5020	7710	7210	7100	6600	15000	26800	8530	5520	5360	4700		
2	6950	5200	7260	8150	7200	6700	14100	29600	9120	4780	5340	4190		
3	6820	4960	7060	7050	7300	6600	13200	32400	10400	4340	4920	4810		
4	7220	4930	8880	6810	7200	6500	11200	35100	9650	4480	5180	5640		
5	7000	5290	9820	6940	7000	6400	11900	36000	10100	4440	5050	5520		
6	5880	5320	8380	6980	6800	6700	10900	35100	10600	4720	4810	5360		
7	5410	4670	8330	7020	6900	6600	9560	34700	18600	4700	4780	5570		
8	4930	5200	8640	6780	7000	6600	10800	35400	35600	5110	4740	5000		
9	5820	5020	14000	6680	6800	5500	10800	34800	37700	5930	4810	5930		
10	6200	4530	30300	7090	6700	4700	10300	33500	31800	5520	4960	5700		
11	6270	4840	29500	7050	6800	5100	10200	30700	26500	5820	5220	4810		
12	6000	4860	24300	7580	6600	5600	10400	29700	22200	5820	5090	5750		
13	5560	4490	21500	8170	6500	6100	10800	28100	19900	6540	4810	5430		
14	5880	6510	19300	8860	6600	6600	11500	26800	36900	6640	5360	7110		
15	7450	8600	17700	8890	6500	6900	12500	25500	43900	7340	5250	6030		
16	7260	8430	15000	8480	6300	7000	15100	22500	34400	7110	4870	5890		
17	6540	6140	12500	8000	6200	7100	17400	20300	29400	6760	4890	5730		
18	6140	6150	11600	7600	6800	7200	20700	18300	24600	6580	5000	6030		
19	4950	6430	12200	7200	6800	7300	26000	14300	21600	5980	5380	5590		
20	5810	6120	10900	7400	6700	7400	33800	11700	17900	5000	5110	5570		
21	6430	7500	10300	7400	6400	8500	37500	10900	15600	4980	5030	5690		
22	6250	8980	9090	7600	6400	10000	35100	9880	14100	5770	4890	5950		
23	6190	7960	9060	7800	6500	12000	32100	10000	12600	6030	5030	5980		
24	5630	6600	8820	7600	6800	15500	32000	10500	10500	6220	4400	5610		
25	5970	7540	8420	7400	6400	15000	32300	10200	9690	6150	4630	5730		
26	5860	7760	7540	7300	6000	17000	32900	9070	8290	5610	4700	5920		
27	5500	7560	7250	7200	6100	19500	31300	9830	8350	5340	5160	6150		
28	5440	7030	7890	7200	6300	20700	29600	9640	7500	5700	5030	7410		
29	5220	7160	8080	7200	---	20300	27400	10100	7300	5660	4940	8120		
30	4860	8150	7560	7200	---	18000	27000	9820	6740	5930	4980	7270		
31	4780	---	7940	7000	---	16400	---	9530	---	5380	5700	---		
TOTAL	187620	188950	376830	230840	186700	302100	603360	670770	560070	175900	155420	174190		
MEAN	6052	6298	12160	7446	6668	9745	20110	21640	18670	5674	5014	5806		
MAX	7450	8980	30300	8890	7300	20700	37500	36000	43900	7340	5700	8120		
MIN	4780	4490	7060	6680	6000	4700	9560	9070	6740	4340	4400	4190		
MEAN*	2813	5383	14010	5299	3272	7638	23190	34210	20300	3149	1420	2494		
CFSM*	.42	.81	2.10	.79	.49	1.15	3.48	5.13	3.04	.47	.21	.37		
IN.*	.49	.90	2.42	.92	.51	1.33	3.88	5.91	3.39	.54	.25	.42		
CAL YR 1974	TOTAL	5052270	MEAN	13840	MAX	76000	MIN	4470	MEAN*	13280	CFSM*	1.99	IN*	27.00
WTR YR 1975	TOTAL	3812750	MEAN	10450	MAX	43900	MIN	4190	MEAN*	10300	CFSM*	1.54	IN*	20.96

*Adjusted for change in contents in East and West Branches of Penobscot River, also Sebec Lake in Piscataquis River Basin.

PENOBSCOT RIVER BASIN

79

01034500 PENOBSCOT RIVER AT WEST ENFIELD, MAINE--Continued

WATER QUALITY RECORDS

PERIOD OF RECORD.--WATER ANALYSES: January 1966 to current year.

SPECIFIC CONDUCTANCE: July 1973 to current year.

WATER TEMPERATURES: July 1966 to current year.

INSTRUMENTATION.--Two parameter water quality monitor.

REMARKS.--Interruptions in the record were due to malfunctions of the monitor. Samples also collected for the National Radiochemical Surveillance Program.

EXTREMES.--Period of record:

SPECIFIC CONDUCTANCE: Maximum, 153 micromhos Aug. 21, 1973; minimum, 30 micromhos June 9, 10, 1975.

WATER TEMPERATURES: Maximum, 27.5°C Aug. 2, 3, 1975; minimum, freezing point on many days during winter months.

EXTREMES.--Current year:

SPECIFIC CONDUCTANCE: Maximum, 152 micromhos Aug. 13; minimum, 30 micromhos June 9, 10.

WATER TEMPERATURES: Maximum, 27.5°C Aug. 2, 3; minimum, freezing point on many days during November through April.

WATER ANALYSES, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)	TEMPERATURE (DEG C)	DISSOLVED OXYGEN (MG/L)	DISSOLVED OXYGEN SATURATION (%)	IMMEDIATE COLIFORM (COL. PER 100 ML)	FECAL COLIFORM (COL. PER 100 ML)	STREPTOCOCCI (COLONIES PER 100 ML)	TOTAL PHOSPHORUS (P) (MG/L)	TOTAL NITROGEN (N) (MG/L)
OCT. 29...	1015	5290	65	6.7	5.0	10.8	84	3600	190	94	.02	.15
NOV. 19...	1130	6360	72	6.8	4.5	11.5	89	6600	84	58	.02	.54
DEC. 18...	1115	11500	65	6.5	.0	13.2	90	1500	180	81	.01	.74
JAN. 27...	1100	5500	65	6.4	.0	12.0	82	2500	8350	58	.02	.31
FEB. 19...	1200	6500	62	6.4	.0	10.6	73	2000	110	40	.02	.25
MAR. 25...	1200	15500	62	6.5	1.0	11.8	83	1900	150	42	.02	.44
APR. 28...	1100	30200	50	6.6	3.5	13.0	98	2600	850	45	--	--
MAY 21...	1130	11200	58	6.7	16.5	8.6	87	816000	87	84	.02	.37
JUNE 26...	1100	8110	50	6.6	23.0	6.8	78	2800	58	38	.04	.33
JULY 29...	1000	5680	48	6.7	22.5	7.3	83	81500	70	75	.03	.23
AUG. 26...	1100	4630	53	6.5	18.5	8.5	90	4400	150	200	.03	.28
SEP. 22...	1200	5890	52	6.6	17.0	7.2	74	24000	180	290	.03	.29

DATE	TOTAL NITROGEN (NO3) (MG/L)	TOTAL KJELDAHL NITROGEN (N) (MG/L)	TOTAL NITRITE PLUS NITRATE (N) (MG/L)	SUSPENDED SEDIMENT (MG/L)	SUS. SED. SIEVE % FINER THAN .062 MM	SUSPENDED SEDIMENT DISCHARGE (T/DAY)	TOTAL ORGANIC CARBON (C) (MG/L)	CARBON DIOXIDE (CO2) (MG/L)	ALKALINITY AS CaCO3 (MG/L)	BICARBONATE (HCO3) (MG/L)	CARBONATE (CO3) (MG/L)	TURBIDITY (JTU)
OCT. 29...	.66	.14	.01	4	85	57	--	--	--	--	--	--
NOV. 19...	2.4	.40	.14	9	43	155	--	4.3	14	17	0	4
DEC. 18...	3.3	.69	.05	5	100	155	--	--	--	--	--	--
JAN. 22...	1.4	.27	.04	1	100	15	--	--	--	--	--	--
FEB. 19...	1.1	.20	.05	4	100	70	9.6	9.6	12	15	0	4
MAR. 25...	1.9	.30	.14	7	66	293	--	--	--	--	--	--
APR. 28...	--	--	--	4	95	326	--	--	--	--	--	--
MAY 21...	1.6	.33	.04	5	96	151	6.2	4.5	11	14	0	2
JUNE 26...	1.5	.32	.01	8	100	175	--	--	--	--	--	--
JULY 29...	1.0	.22	.01	5	100	77	--	--	--	--	--	--
AUG. 26...	1.2	.28	.00	6	100	75	9.2	5.6	9	11	0	2
SEP. 22...	1.3	.28	.01	2	100	32	--	--	--	--	--	--

PENOBSCOT RIVER BASIN

01034500 PENOBSCOT RIVER AT WEST ENFIELD, MAINE--Continued

WATER ANALYSES, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975

DATE	HARD- NESS (CA+MG) (MG/L)	NON- CAR- BONATE HARD- NESS (MG/L)	DIS- SOLVED CAL- CIUM (CA) (MG/L)	DIS- SOLVED MAG- NE- SIUM (MG) (MG/L)	DIS- SOLVED SODIUM (NA) (MG/L)	DIS- SOLVED PO- TAS- SIUM (K) (MG/L)	DIS- SOLVED CHLO- RIDE (CL) (MG/L)	DIS- SOLVED SULFATE (SO4) (MG/L)	DIS- SOLVED FLUO- RIDE (F) (MG/L)	DIS- SOLVED SILICA (SiO2) (MG/L)	DIS- SOLVED SOLIDS (RESI- DUE AT 180 C) (MG/L)	DIS- SOLVED SOLIDS (SUM OF CONSTITUENTS) (MG/L)
OCT. 29...	--	--	--	--	--	--	--	--	--	--	--	--
NOV. 19...	25	11	7.5	1.4	4.0	.5	3.2	9.4	.2	3.4	55	38
DEC. 18...	--	--	--	--	--	--	--	--	--	--	--	--
JAN. 22...	--	--	--	--	--	--	--	--	--	--	--	--
FEB. 19...	24	11	6.7	1.7	3.2	1.0	3.1	9.6	.1	3.6	47	37
MAR. 25...	--	--	--	--	--	--	--	--	--	--	--	--
APR. 28...	--	--	--	--	--	--	--	--	--	--	--	--
MAY 21...	16	5	5.1	.8	2.2	.2	2.7	6.2	.2	2.9	34	27
JUNE 26...	--	--	--	--	--	--	--	--	--	--	--	--
JULY 29...	--	--	--	--	--	--	--	--	--	--	--	--
AUG. 26...	24	15	7.0	1.5	2.9	.6	2.9	9.0	.2	2.9	54	33
SEP. 22...	--	--	--	--	--	--	--	--	--	--	--	--

DATE	DIS- SOLVED ARSENIC (AS) (UG/L)	SUS- PENDE D ARSENIC (AS) (UG/L)	TOTAL ARSENIC (AS) (UG/L)	DIS- SOLVED CAD- MIUM (CD) (UG/L)	SUS- PENDE D CAD- MIUM (CD) (UG/L)	TOTAL CAD- MIUM (CD) (UG/L)	DIS- SOLVED CHRO- MIUM (CR) (UG/L)	SUS- PENDE D CHRO- MIUM (CR) (UG/L)	TOTAL CHRO- MIUM (CR) (UG/L)	DIS- SOLVED COBALT (CO) (UG/L)	SUS- PENDE D COBALT (CO) (UG/L)
NOV. 19...	0	0	0	0	0	0	0	0	0	0	0
FEB. 19...	0	0	0	0	1	1	0	0	0	1	1
MAY 21...	0	1	1	0	0	0	20	0	10	0	0
AUG. 26...	0	0	0	0	0	0	10	0	10	0	0

DATE	TOTAL COBALT (CO) (UG/L)	DIS- SOLVED COPPER (CU) (UG/L)	SUS- PENDE D COPPER (CU) (UG/L)	TOTAL COPPER (CU) (UG/L)	DIS- SOLVED IRON (FE) (UG/L)	TOTAL IRON (FE) (UG/L)	DIS- SOLVED LEAD (PB) (UG/L)	SUS- PENDE D LEAD (PB) (UG/L)	TOTAL LEAD (PB) (UG/L)	DIS- SOLVED MAN- GANESE (MN) (UG/L)	SUS- PENDE D MAN- GANESE (MN) (UG/L)
NOV. 19...	0	0	10	10	110	300	1	48	49	40	20
FEB. 19...	2	10	0	0	120	220	3	19	22	60	0
MAY 21...	0	10	0	10	80	240	8	29	37	30	1
AUG. 26...	0	0	10	10	90	230	1	9	10	30	10

DATE	TOTAL MAN- GANESE (MN) (UG/L)	DIS- SOLVED MERCURY (HG) (UG/L)	SUS- PENDE D MERCURY (HG) (UG/L)	TOTAL MERCURY (HG) (UG/L)	DIS- SOLVED SELE- NIUM (SE) (UG/L)	SUS- PENDE D SELE- NIUM (SE) (UG/L)	TOTAL SELE- NIUM (SE) (UG/L)	DIS- SOLVED ZINC (ZN) (UG/L)	SUS- PENDE D ZINC (ZN) (UG/L)	TOTAL ZINC (ZN) (UG/L)	DIS- SOLVED SOLIDS (TONS PER DAY)
NOV. 19...	60	<.5	.0	<.5	0	0	0	10	0	0	944
FEB. 19...	50	<.5	.0	<.5	0	0	0	10	0	10	825
MAY 21...	40	<.5	.0	<.5	0	0	0	10	0	10	1030
AUG. 26...	40	<.5	.0	<.5	0	1	1	10	0	10	675

RADIOCHEMICAL ANALYSES, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975

DATE	DIS- SOLVED URANIUM (U) (UG/L)	DIS- SOLVED RA-226 (RADON METHOD) (PC/L)	DIS- SOLVED GROSS ALPHA AS U-NAT. (UG/L)	DIS- SOLVED GROSS BETA AS SR90 /Y90 (PC/L)	DIS- SOLVED GROSS BETA AS CS-137 (PC/L)	TOTAL FILT- RABLE RESIDUE (MG/L)	SUS- PENDE D GROSS ALPHA AS U-NAT. (UG/L)	SUS- PENDE D GROSS BETA AS SR90 /Y90 (PC/L)	SUS- PENDE D GROSS BETA AS CS-137 (PC/L)	TOTAL NON- FILT- RABLE RESIDUE (MG/L)
OCT. 29...	.05	.04	<1.9	2.5	2.7	150	1.5	1.0	1.1	6
JUNE 26...	.09	.02	.8	1.8	2.2	45	<.4	<.4	<.4	4

01034500 PENOBSCOT RIVER AT WEST ENFIELD, MAINE--Continued

QUALITATIVE AND QUANTITATIVE ANALYSES OF BIOLOGICAL DATA, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975

PHYTOPLANKTON

DATE	TIME	ORGANISM	COUNT (CELLS/ML)	PERCENT OF TOTAL	SAMPLING METHOD
OCT. 29	1015	CHLOROPHYTA			DEPTH INTEGRATED
		..CHLOROPHYCEAE			
		...CHLOROCOCCALES			
		...SCENEDESMACEAE			
		SCENEDESMUS	45	27	
		CHRYSOPHYTA			
		..BACILLARIOPHYCEAE			
		...CENTRALES			
		...COSCINODISCACEAE			
		MELOSIRA	79	47	
		...PENNALES			
		...FRAGILARIACEAE			
		SYNEDRA	23	13	
		...MERIDIONACEAE			
		MERIDION	23	13	
		TOTAL	170		
NOV. 19	1130	CHLOROPHYTA			DEPTH INTEGRATED
		..CHLOROPHYCEAE			
		...CHLOROCOCCALES			
		...OCCYSTACEAE			
		ANKISTRODESMUS	4	1	
		...SCENEDESMACEAE			
		SCENEDESMUS	7	2	
		...ZYGNEMATALES			
		...DESMIDIACEAE			
		COSMARIUM	4	1	
		CHRYSOPHYTA			
		..BACILLARIOPHYCEAE			
		...CENTRALES			
		...COSCINODISCACEAE			
		CYCLOTELLA	35	10	
		...RHIZOSOLENACEAE			
		RHIZOSOLENIA	21	6	
		...PENNALES			
		...ACHNANTHACEAE			
		ACHNANTHES	39	11	
		...CYMBELLACEAE			
		CYMBELLA	4	1	
		...DIATOMACEAE			
		DIATOMA	4	1	
		...EUNOTIACEAE			
		EUNOTIA	4	1	
		...FRAGILARIACEAE			
		ASTERIONELLA	11	3	
		HANNAEA	7	2	
		...GOMPHONEMACEAE			
		GOMPHONEMA	7	2	
		...NAVICULACEAE			
		NAVICULA	4	1	
		...NITZSCHACEAE			
		NITZSCHIA	32	9	
		...TABELLARIACEAE			
		TABELLARIA	4	1	
		CHRYSOPHYCEAE			
		..CHRYSOMONADALES			
		...OCHROMONADACEAE			
		DINOBYRON	25	7	
		CYANOPHYTA			
		..MYXOPHYCEAE			
		...OSCILLATORIALES			
		OSCILLATORIAACEAE			
		LYNGBYA	140	40	
		TOTAL	350		

PENOBSCOT RIVER BASIN

01034500 PENOBSCOT RIVER AT WEST ENFIELD, MAINE--Continued

QUALITATIVE AND QUANTITATIVE ANALYSES OF BIOLOGICAL DATA, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975

PHYTOPLANKTON

DATE	TIME	ORGANISM	COUNT (CELLS/ML)	PERCENT OF TOTAL	SAMPLING METHOD
DEC. 18	1115	CHLOROPHYTA			DEPTH INTEGRATED
		..CHLOROPHYCEAE			
		...CHLOROCOCCALES			
		...SCENEDESMACEAE			
		SCENEDESMUS	14	4	
		CHRYSTOPHYTA			
		..BACILLARIOPHYCEAE			
		...CENTRALES			
		...COSCINODISCACEAE			
		CYCLOTELLA	29	8	
		...RHIZOSOLENIA			
		RHIZOSOLENIA	7	2	
		...PENNALES			
		...ACHNANTHACEAE			
		ACHNANTHES	21	6	
		...DIATOMACEAE			
		DIATOMA	7	2	
		...FRAGILARIACEAE			
		ASTERIONELLA	7	2	
		...SYNEDRA	14	4	
		...NITZSCHIA			
		NITZSCHIA	29	8	
		CHRYSTOPHYCEAE			
		..CHRYDOMONADALES			
		...OCHROMONADACEAE			
		DINOBRYON	7	2	
		CYANOPHYTA			
		..MYXOPHYCEAE			
		...CHROOCOCCALES			
		...CHROOCOCCACEAE			
		ANACYSTIS	210	61	
		TOTAL	350		
JAN. 22	1100	CHLOROPHYTA			DEPTH INTEGRATED
		..CHLOROPHYCEAE			
		...CHLOROCOCCALES			
		...OCCYSTACEAE			
		ANKISTRODESMUS	4	6	
		CHRYSTOPHYTA			
		..BACILLARIOPHYCEAE			
		...PENNALES			
		...DIATOMACEAE			
		DIATOMA	4	6	
		...FRAGILARIACEAE			
		ASTERIONELLA	9	12	
		...SYNEDRA	4	6	
		...NITZSCHIA			
		NITZSCHIA	45	62	
		CHRYSTOPHYCEAE			
		..CHRYDOMONADALES			
		...OCHROMONADACEAE			
		DINOBRYON	4	6	
		TOTAL	71		
FEB. 19	1200	CHRYSTOPHYTA			DEPTH INTEGRATED
		..BACILLARIOPHYCEAE			
		...CENTRALES			
		...COSCINODISCACEAE			
		CYCLOTELLA	9	12	
		...PENNALES			
		...FRAGILARIACEAE			
		SYNEDRA	17	25	
		...TABELLARIACEAE			
		TABELLARIA	17	25	
		CYANOPHYTA			
		..MYXOPHYCEAE			
		...CHROOCOCCALES			
		...CHROOCOCCACEAE			
		ANACYSTIS	26	37	
		TOTAL	70		
MAR. 25	1200	CHRYSTOPHYTA			DEPTH INTEGRATED
		..BACILLARIOPHYCEAE			
		...PENNALES			
		...CYMBELLACEAE			
		EPITHEMIA	7	7	
		...FRAGILARIACEAE			
		ASTERIONELLA	15	14	
		...SYNEDRA	15	14	
		...NAVICULACEAE			
		NAVICULA	22	21	
		...NITZSCHIA			
		NITZSCHIA	15	14	
		...TABELLARIACEAE			
		TABELLARIA	29	29	
		TOTAL	100		

01034500 PENOBSCOT RIVER AT WEST ENFIELD, MAINE--Continued

QUALITATIVE AND QUANTITATIVE ANALYSES OF BIOLOGICAL DATA, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975

PHYTOPLANKTON

DATE	TIME	ORGANISM	COUNT (CELLS/ML)	PERCENT OF TOTAL	SAMPLING METHOD
APR. 28	1100	CHLOROPHYTA .CHLOROPHYCEAE ..CHLOROCOCCALES ...OCCYSTACEAECLOSTERIOPSIS CHRYSOPHYTA .BACILLARIOPHYCEAE ..CENTRALES ...COSCINODISCACEAECYCLOTELLA ..PENNALES ...ACHNANTHACEAEACHNANTHES ...DIATOMACEAEDIATOMA ...FRAGILARIACEAEFRAGILARIA ...HANNAEAHANNAEA ARCUS ...NAVICULACEAENAVICULA ...NITZSCHIANITZSCHIA CYANOPHYTA .MYXOPHYCEAE ..OSCILLATORIALES ...OSCILLATORIALYNGBYA ...PHORMIDIUM TOTAL	7 14 22 22 14 14 36 50 180 7 370	2 4 6 6 4 4 10 14 49 2	DEPTH INTEGRATED
MAY 21	1300	CHRYSOPHYTA .BACILLARIOPHYCEAE ..CENTRALES ...COSCINODISCACEAEMELOSIRA ..PENNALES ...CYMBELLACEAERHOPALODIA ...DIATOMACEAEDIATOMA ...EUNOTIACEAEEUNOTIA ...FRAGILARIACEAEASTERIONELLA ...FRAGILARIASYNEDRA ...GOMPHONEMACEAEGOMPHONEMA ...MERIDIONACEAEMERIDION ...NITZSCHIANITZSCHIA ...TABELLARIACEAETABELLARIA CHRYSOPHYCEAE ..CHRYSONOMADALES ...MALLOMONADACEAEMALLOMONAS TOTAL	94 13 110 13 27 27 80 27 13 67 27 13 510	18 3 21 3 5 5 16 5 3 13 5 3	DEPTH INTEGRATED
JUNE 26	1100	CHLOROPHYTA .CHLOROPHYCEAE ..CHLOROCOCCALES ...HYDRODICTYACEAEPEDIASTRUM ...OCCYSTACEAEDICTYOSPHAERIUM ...SCENEDESMACEAESCENEDESMUS CHRYSOPHYTA .BACILLARIOPHYCEAE ..PENNALES ...ACHNANTHACEAEACHNANTHES ...COCONEIS ...DIATOMACEAEDIATOMA ...NAVICULACEAENAVICULA ...NITZSCHIANITZSCHIA CYANOPHYTA .MYXOPHYCEAE ..OSCILLATORIALES ...OSCILLATORIA TOTAL	50 25 6 6 6 25 25 390 530	9 5 1 1 1 5 5 73	DEPTH INTEGRATED

QUALITATIVE AND QUANTITATIVE ANALYSES OF BIOLOGICAL DATA, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975

PHYTOPLANKTON

DATE	TIME	ORGANISM	COUNT (CELLS/ML)	PERCENT OF TOTAL	SAMPLING METHOD
JULY 29	1000	CHLOROPHYTA			DEPTH INTEGRATED
		..CHLOROPHYCEAE			
		..CHLOROCOCCALES			
		...HYDRODICTYACEAE			
		PEDIASTRUM			
		...OCCYSTACEAE			
		ANKISTRODESMUS	22	6	
		OOCYSTIS			
		...SCENEDESMACEAE			
		SCENEDESMUS	65	18	
		CHRYSTOPHYTA			
		..BACILLARIOPHYCEAE			
		..CENTRALES			
		...COSCINODISCACEAE			
		MELOSIHA	22	6	
		..PENNALES			
		...ACHNANTHACEAE			
		COCCONEIS	22	6	
		...CYMBELLACEAE			
		CYMBELLA			
		...DIATOMACEAE			
		DIATOMA	11	3	
		...EUNOTIACEAE			
		EUNOTIA			
		...FRAGILARIACEAE			
		ASTERIONELLA			
		...GOMPHONEMACEAE			
		GOMPHONEMA	11	3	
		...NAVICULACEAE			
		NAVICULA	11	3	
		...PINNULARIA			
		...NITZSCHIACEAE			
		NITZSCHIA	22	6	
		..CHRYSTOPHYCEAE			
		..CHRYSOMONADALES			
		...OCHROMONADACEAE			
		DINOBRYON	11	3	
		CYANOPHYTA			
		..MYXOPHYCEAE			
		..CHROOCOCCALES			
		...CHROOCOCCACEAE			
		AGMENELLUM	87	24	
		ANACYSTIS	87	24	
		EUGLENOPHYTA			
		..EUGLENOPHYCEAE			
		..EUGLENALES			
		...EUGLENACEAE			
		PHACUS			
		TOTAL	370		
AUG. 26	1100	CHLOROPHYTA			DEPTH INTEGRATED
		..CHLOROPHYCEAE			
		..VOLVOCALES			
		...CHLAMYDOMONADACEAE			
		CHLAMYDOMONAS	37	1	
		CHRYSTOPHYTA			
		..BACILLARIOPHYCEAE			
		..PENNALES			
		...ACHNANTHACEAE			
		ACHNANTHES	37	1	
		...NAVICULACEAE			
		NAVICULA	37	1	
		...NITZSCHIACEAE			
		NITZSCHIA	110	2	
		..CHRYSTOPHYCEAE			
		..CHRYSOMONADALES			
		...OCHROMONADACEAE			
		DINOBRYON	37	1	
		..XANTHOPHYCEAE			
		..HETEROCOCCALES			
		...CHLOROTHECIACEAE			
		OPHIOCYTUM	37	1	
		CYANOPHYTA			
		..MYXOPHYCEAE			
		..CHROOCOCCALES			
		...CHROOCOCCACEAE			
		AGMENELLUM	4,000	88	
		ANACYSTIS	220	5	
		EUGLENOPHYTA			
		..EUGLENOPHYCEAE			
		..EUGLENALES			
		...EUGLENACEAE			
		TRACHELOMONAS	37	1	
		TOTAL	4,500		

PENOBSCOT RIVER BASIN

01034500 PENOBSCOT RIVER AT WEST ENFIELD, MAINE--Continued

QUALITATIVE AND QUANTITATIVE ANALYSES OF BIOLOGICAL DATA, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975

PHYTOPLANKTON

DATE	TIME	ORGANISM	COUNT (CELLS/ML)	PERCENT OF TOTAL	SAMPLING METHOD
SEP. 22	1200	CHLOROPHYTA			DEPTH INTEGRATED
		..CHLOROPHYCEAE			
		...CHLOROCOCCALES			
		...OCCYSTACEAE			
		ANKISTRODESMUS	9	3	
		DICTYOSPHAERIUM			
		CHRYSTOPHYTA			
		..BACILLARIOPHYCEAE			
		..CENTRALES			
		...COSCINODISACEAE			
		CYCLOTELLA	9	3	
		MELOSIRA	92	29	
		..PENNALES			
		...ACHNANTHACEAE			
		ACHNANTHES	28	9	
		...CYMBELLACEAE			
		RHOPALODIA	9	3	
		...EUNOTIACEAE			
		EUNOTIA	18	6	
		...FRAGILARIACEAE			
		ASTERIONELLA	18	6	
		SYNEDRA	9	3	
		...GOMPHONEMACEAE			
		GOMPHONEMA			
		...NAVICULACEAE			
		NAVICULA			
		...PINNULARIA			
		...TABELLARIACEAE			
		TABELLARIA			
		..CHRYSTOPHYCEAE			
		...CHRYSONOMADALES			
		...OCHROMONADACEAE			
		DINOBRYON	18	6	
		CYANOPHYTA			
		..MYXOPHYCEAE			
		...CHROOCOCCALES			
		...CHROOCOCCACEAE			
		ANACYSTIS	100	32	
		TOTAL	310		

PERIPHYTON

DATE	LENGTH OF EXPOSURE (DAYS)	BIOMASS(G/SQ M)		CHLOROPHYLL A (MG/SQ M)	CHLOROPHYLL B (MG/SQ M)	BIOMASS PIGMENT RATIO	SAMPLING METHOD
		DRY WEIGHT	ASH WEIGHT				
OCT. 29	35	6.2	4.6	7.2	1.0	0.2	POLYETHYLENE STRIP
JUNE 26	36	3.3	2.3	0.8	0.1	1300	POLYETHYLENE STRIP
JULY 29	33	11	4.8	8.3	2.0	710	POLYETHYLENE STRIP

PENOBSCOT RIVER BASIN

01034500 PENOBSCOT RIVER AT WEST ENFIELD, MAINE--Continued

SPECIFIC CONDUCTANCE (MICROMHOS/CM AT 25 DEG. C). WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975

DAY	OCTOBER			NOVEMBER			DECEMBER			JANUARY		
	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	70	64	67	77	65	71	76	68	71	96	93	95
2	82	63	70	66	62	63	72	69	70	94	89	93
3	75	67	69	66	61	64	79	73	77	89	88	88
4	72	61	68	67	64	66	74	69	71	89	88	88
5	63	59	61	66	62	64	71	64	67	89	88	88
6	89	62	79	65	63	64	74	66	70	89	88	88
7	65	60	62	69	62	65	76	69	73	91	89	90
8	67	64	65	70	65	67	92	75	81	95	92	93
9	67	59	63	69	66	67	92	83	88	96	92	94
10	62	59	60	74	68	70	85	60	69	96	95	96
11	64	57	61	72	68	69	60	56	58	102	96	98
12	66	59	62	72	68	70	61	56	58	102	97	100
13	67	57	60	76	70	73	63	57	61	102	97	99
14	61	57	59	76	61	68	63	59	61	110	103	106
15	67	59	62	73	66	69	65	59	61	103	69	78
16	60	59	59	66	63	65	63	59	61	94	79	87
17	60	58	59	70	61	65	68	61	66	108	95	103
18	60	56	58	73	70	72	67	63	65	124	108	115
19	65	59	62	75	69	71	66	61	64	129	124	128
20	64	60	62	74	70	72	66	61	63	127	123	124
21	65	58	60	84	71	76	69	61	65	123	84	106
22	65	59	62	76	67	71	77	70	73	---	---	---
23	67	61	64	72	66	68	78	72	76	---	---	---
24	67	60	64	80	66	72	86	79	83	---	---	---
25	62	59	61	81	76	79	87	83	85	---	---	---
26	66	61	63	75	65	70	87	82	85	---	---	---
27	64	58	60	71	65	67	91	87	89	---	---	---
28	61	58	59	68	66	67	94	91	93	---	---	---
29	71	62	64	74	68	71	98	92	95	---	---	---
30	73	68	70	77	70	75	99	96	98	---	---	---
31	78	68	72	---	---	---	98	95	96	---	---	---
MONTH	89	56	63	84	61	69	99	56	74	---	---	---
DAY	FEBRUARY			MARCH			APRIL			MAY		
	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	---	---	---	58	50	54	74	72	73	58	52	55
2	---	---	---	61	58	59	73	69	71	54	51	52
3	---	---	---	60	57	58	68	66	67	55	51	52
4	---	---	---	63	58	61	66	64	65	54	51	53
5	---	---	---	63	55	60	64	63	63	57	49	52
6	---	---	---	60	53	57	64	62	63	54	50	52
7	---	---	---	63	61	62	66	62	64	54	48	50
8	---	---	---	64	60	63	69	65	67	56	48	52
9	---	---	---	63	60	61	69	67	68	56	47	50
10	---	---	---	68	61	64	73	69	71	54	47	50
11	---	---	---	73	67	69	74	72	73	53	48	50
12	---	---	---	70	67	69	79	72	75	52	48	50
13	---	---	---	76	71	73	78	74	76	52	49	50
14	---	---	---	74	71	73	74	67	71	56	49	52
15	---	---	---	74	68	70	67	63	65	55	50	52
16	---	---	---	76	68	72	66	60	63	55	50	52
17	---	---	---	77	71	74	66	61	63	55	51	53
18	---	---	---	74	68	71	62	56	59	54	50	52
19	---	---	---	79	73	76	63	59	61	62	51	56
20	63	56	60	79	76	77	65	55	59	64	56	59
21	58	54	56	76	67	72	62	65	66	62	54	58
22	62	55	59	66	56	60	66	62	64	111	52	57
23	66	61	63	67	60	64	64	57	60	134	50	58
24	63	61	62	70	66	68	57	54	55	103	51	55
25	65	59	63	68	60	63	56	53	54	52	49	51
26	61	58	59	73	67	70	53	51	52	56	49	52
27	58	52	55	73	68	70	51	49	50	53	51	52
28	55	50	52	80	70	75	70	48	51	52	49	51
29	---	---	---	78	74	76	57	52	54	53	48	50
30	---	---	---	79	74	77	59	52	55	50	48	49
31	---	---	---	78	75	77	---	---	---	49	46	47
MONTH	---	---	---	80	50	68	79	48	63	134	46	52

01034500 PENOBSCOT RIVER AT WEST ENFIELD, MAINE--Continued

SPECIFIC CONDUCTANCE (MICROMHOS/CM AT 25 DEG. C), WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975

DAY	JUNE			JULY			AUGUST			SEPTEMBER		
	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	51	47	48	59	53	55	60	50	55	79	42	70
2	51	42	47	59	53	56	64	47	54	72	52	60
3	43	41	42	62	54	56	55	47	51	53	48	51
4	47	40	43	56	53	54	49	45	48	53	45	48
5	44	42	43	56	51	53	61	46	52	53	45	50
6	46	41	42	58	52	54	58	54	57	50	44	47
7	45	41	43	60	55	58	60	57	58	59	44	53
8	42	33	37	57	51	53	61	56	58	58	53	56
9	34	30	32	52	47	50	57	52	55	56	46	51
10	38	30	33	51	43	49	57	51	54	56	46	52
11	40	32	36	57	48	53	57	53	54	68	51	60
12	37	34	36	46	42	44	109	55	69	70	56	61
13	39	35	37	57	43	48	152	98	128	68	56	61
14	39	37	38	56	48	52	93	68	76	63	55	58
15	37	34	35	51	47	49	82	68	74	73	55	66
16	35	34	35	52	50	51	70	61	64	68	58	64
17	37	35	36	53	48	51	68	60	64	67	56	63
18	37	34	35	51	45	48	68	59	62	63	57	61
19	43	34	36	52	46	49	71	63	67	78	59	66
20	38	33	36	50	44	47	65	62	63	59	54	58
21	37	32	35	52	46	48	63	40	58	77	58	62
22	37	34	35	55	47	50	76	58	65	---	---	---
23	37	34	35	57	49	54	65	55	60	---	---	---
24	44	34	37	51	45	48	62	55	59	---	---	---
25	45	36	39	54	48	51	79	52	57	---	---	---
26	74	42	50	52	48	51	54	40	52	---	---	---
27	56	53	55	50	46	48	47	39	42	---	---	---
28	57	54	55	53	46	49	44	40	42	---	---	---
29	56	54	55	71	49	51	45	41	42	---	---	---
30	57	53	54	52	49	51	44	41	43	---	---	---
31	---	---	---	63	51	59	46	41	43	---	---	---
MONTH	74	30	41	71	42	51	152	39	59	---	---	---
YFAR	152	30	62									

TEMPERATURE (DEG. C) OF WATER, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975

DAY	OCTOBER			NOVEMBER			DECEMBER			JANUARY		
	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	14.0	13.0	13.5	8.0	7.5	8.0	0.5	0.0	0.5	0.5	0.0	0.5
2	13.0	12.0	12.0	7.5	7.0	7.5	0.5	0.0	0.5	0.5	0.0	0.0
3	12.0	11.0	11.5	7.0	6.0	6.5	0.5	0.5	0.5	0.0	0.0	0.0
4	11.0	10.5	11.0	6.5	6.0	6.0	0.5	0.0	0.5	0.5	0.0	0.0
5	11.0	9.5	10.5	7.0	6.5	6.5	0.5	0.0	0.0	0.5	0.0	0.0
6	12.5	10.5	11.5	7.0	6.5	7.0	0.5	0.0	0.0	0.0	0.0	0.0
7	12.5	12.0	12.5	6.5	6.0	6.5	0.5	0.0	0.5	0.5	0.0	0.0
8	12.0	11.5	11.5	6.0	5.5	5.5	1.0	0.5	0.5	0.5	0.0	0.5
9	11.5	10.5	11.0	5.5	4.5	5.0	1.0	0.5	0.5	0.5	0.0	0.5
10	11.0	10.0	10.5	5.5	5.0	5.0	0.5	0.0	0.5	0.5	0.0	0.5
11	10.0	9.5	10.0	5.5	4.5	5.0	0.5	0.0	0.5	0.5	0.5	0.5
12	11.0	9.5	10.0	6.0	5.0	5.5	0.5	0.0	0.5	0.5	0.5	0.5
13	10.5	10.0	10.0	6.5	6.0	6.0	0.5	0.5	0.5	0.5	0.5	0.5
14	10.0	9.0	9.5	6.5	6.0	6.0	0.5	0.0	0.0	0.5	0.0	0.5
15	10.0	9.5	10.0	6.0	6.0	6.0	0.5	0.0	0.0	0.0	0.0	0.0
16	10.0	9.0	9.5	6.0	4.5	5.0	0.0	0.0	0.0	0.0	0.0	0.0
17	9.0	8.5	8.5	4.5	4.5	4.5	0.5	0.0	0.5	0.0	0.0	0.0
18	9.0	8.0	8.5	4.5	4.5	4.5	0.5	0.0	0.5	0.5	0.0	0.0
19	8.0	7.5	7.5	4.5	4.0	4.5	0.5	0.0	0.0	0.5	0.5	0.5
20	7.5	6.0	6.5	4.5	3.5	4.0	0.5	0.0	0.0	0.5	0.0	0.0
21	6.0	5.0	5.5	4.0	2.0	3.0	0.5	0.0	0.0	0.0	0.0	0.0
22	6.0	5.0	5.5	2.0	1.0	1.5	0.5	0.0	0.5	---	---	---
23	7.0	6.0	6.5	1.0	0.5	1.0	0.5	0.0	0.5	---	---	---
24	7.0	6.5	6.5	1.5	1.0	1.0	0.5	0.5	0.5	---	---	---
25	6.5	5.5	6.0	2.0	1.5	2.0	0.5	0.0	0.5	---	---	---
26	7.0	6.0	6.5	1.5	0.0	0.5	0.5	0.0	0.0	---	---	---
27	7.0	5.5	6.0	0.5	0.0	0.0	0.0	0.0	0.0	---	---	---
28	5.5	4.5	5.0	0.5	0.0	0.0	0.5	0.0	0.5	---	---	---
29	6.5	4.5	5.0	0.5	0.0	0.5	0.5	0.0	0.5	---	---	---
30	7.5	6.5	7.0	0.5	0.0	0.5	0.5	0.0	0.5	---	---	---
31	7.5	7.0	7.5	---	---	---	0.5	0.0	0.5	---	---	---
MONTH	14.0	4.5	9.0	8.0	0.0	4.0	1.0	0.0	0.5	---	---	---

TEMPERATURE (DEG. C) OF WATER, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975

FEBRUARY				MARCH			APRIL			MAY		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	---	---	---	0.5	0.0	0.0	1.0	0.5	1.0	7.5	5.5	6.5
2	---	---	---	0.5	0.0	0.0	1.5	1.0	1.5	8.0	7.0	7.5
3	---	---	---	0.0	0.0	0.0	1.5	0.0	1.0	8.0	8.0	8.0
4	---	---	---	0.5	0.0	0.0	0.5	0.0	0.0	4.0	7.5	8.0
5	---	---	---	0.0	0.0	0.0	0.5	0.0	0.0	7.5	7.0	7.0
6	---	---	---	0.0	0.0	0.0	1.5	0.5	1.0	8.0	7.0	7.5
7	---	---	---	0.5	0.0	0.0	2.0	1.5	2.0	8.0	7.0	7.5
8	---	---	---	0.5	0.0	0.0	3.0	1.5	2.0	8.5	7.0	7.5
9	---	---	---	0.0	0.0	0.0	2.0	1.5	1.5	8.5	7.0	8.0
10	---	---	---	0.0	0.0	0.0	2.5	1.0	2.0	9.5	7.5	8.5
11	---	---	---	0.5	0.0	0.0	2.5	2.0	2.5	11.0	9.0	10.0
12	---	---	---	0.0	0.0	0.0	3.5	1.5	2.5	12.0	10.5	11.0
13	---	---	---	0.5	0.0	0.5	4.0	3.0	3.5	12.5	11.5	12.0
14	---	---	---	0.5	0.0	0.0	4.5	2.5	3.5	13.5	12.0	12.5
15	---	---	---	0.0	0.0	0.0	5.0	3.5	4.0	14.0	13.0	13.5
16	---	---	---	0.5	0.0	0.0	5.0	3.5	4.5	14.0	13.5	14.0
17	---	---	---	0.5	0.0	0.5	4.5	3.5	4.0	15.0	13.0	14.0
18	---	---	---	0.5	0.0	0.5	4.5	3.5	4.0	14.5	13.5	14.0
19	---	---	---	0.5	0.0	0.5	4.5	3.5	4.0	15.5	14.0	14.5
20	0.5	0.0	0.5	0.5	0.5	0.5	3.5	3.5	3.5	17.0	15.0	16.0
21	0.5	0.0	0.0	0.5	0.0	0.5	3.5	2.5	3.0	17.5	16.0	16.5
22	0.5	0.0	0.0	0.5	0.0	0.5	3.5	2.5	3.0	17.0	16.5	16.5
23	0.5	0.5	0.5	0.5	0.0	0.5	4.5	3.0	4.0	17.0	15.5	16.5
24	0.5	0.5	0.5	1.0	0.0	0.5	4.5	4.0	4.0	18.5	17.0	17.5
25	0.5	0.5	0.5	1.0	0.5	0.5	5.5	4.0	4.5	18.5	16.5	17.5
26	0.5	0.0	0.5	1.0	0.5	1.0	4.5	4.0	4.0	17.0	15.5	16.5
27	0.5	0.0	0.0	0.5	0.0	0.0	4.5	4.0	4.0	15.5	15.5	15.5
28	0.5	0.0	0.0	0.5	0.0	0.0	4.0	3.5	4.0	16.5	15.0	16.0
29	---	---	---	0.5	0.0	0.5	5.0	3.5	4.0	17.5	16.0	17.0
30	---	---	---	1.0	0.5	1.0	5.5	4.5	5.0	18.0	16.5	17.0
31	---	---	---	1.5	1.0	1.0	---	---	---	17.0	16.0	16.5
MONTH	---	---	---	1.5	0.0	0.5	5.5	0.0	3.0	18.5	5.5	12.5
JUNE				JULY			AUGUST			SEPTEMBER		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	16.5	16.0	16.5	25.0	23.5	24.0	26.0	24.5	25.0	20.0	18.5	19.5
2	18.0	16.0	17.0	25.0	24.0	24.5	27.5	25.5	26.5	20.0	18.0	19.5
3	17.5	17.0	17.5	25.0	24.0	24.5	27.5	25.5	26.5	18.5	17.5	18.0
4	17.0	16.0	16.5	25.0	24.0	24.5	25.5	23.5	24.5	19.0	17.0	18.0
5	17.5	15.5	16.5	25.0	24.0	24.5	24.5	22.5	23.5	19.5	18.5	19.0
6	17.0	15.0	16.5	25.5	24.5	25.0	24.5	23.5	24.0	19.5	18.0	18.5
7	15.0	14.5	15.0	25.0	24.5	25.0	24.5	23.0	23.5	18.5	17.5	18.0
8	14.5	13.0	14.0	24.5	23.5	24.0	24.5	23.0	23.5	19.0	17.5	18.5
9	13.0	12.5	12.5	24.0	23.0	23.5	25.0	24.0	24.5	19.0	18.5	19.0
10	13.5	12.0	12.5	23.0	22.5	23.0	25.5	24.5	25.0	19.0	17.5	18.5
11	15.0	13.0	14.0	23.0	22.5	23.0	25.5	24.5	25.0	18.5	17.0	17.5
12	16.0	15.0	15.5	22.5	22.5	22.5	25.5	24.5	25.0	18.0	17.0	17.5
13	16.0	16.0	16.0	22.5	22.0	22.5	25.5	24.5	25.0	17.5	16.5	17.0
14	16.0	16.0	16.0	23.5	22.5	23.0	25.5	25.0	25.5	17.5	16.5	17.0
15	16.0	15.5	15.5	23.5	23.0	23.0	25.5	24.5	25.0	16.5	16.0	16.0
16	16.0	15.5	15.5	23.5	22.5	23.0	25.0	24.0	25.0	16.0	15.5	16.0
17	17.5	16.0	16.5	25.0	23.0	24.0	25.0	24.0	24.5	16.5	16.0	16.0
18	19.0	17.5	18.0	26.5	25.0	25.5	24.0	23.0	23.5	17.0	16.0	16.5
19	20.5	19.0	19.5	26.5	25.0	26.0	23.0	22.0	22.5	17.0	16.0	16.5
20	20.5	20.0	20.0	26.5	25.5	26.0	22.5	21.0	22.0	16.5	16.0	16.0
21	21.0	19.5	20.0	26.5	25.0	25.5	21.5	20.5	20.5	17.0	16.0	16.5
22	21.5	20.0	20.5	25.0	24.5	25.0	21.0	20.0	20.0	17.0	17.0	17.0
23	22.5	20.5	21.5	25.5	24.5	25.0	20.0	19.0	19.5	17.0	16.5	17.0
24	24.0	21.5	23.0	26.0	25.0	25.5	20.0	19.5	20.0	16.5	16.0	16.5
25	24.5	22.5	23.5	26.0	25.0	25.5	20.5	19.5	19.5	16.5	16.0	16.0
26	24.5	22.5	22.5	25.0	23.0	24.0	19.5	19.0	19.5	16.0	16.0	16.0
27	24.5	22.5	23.5	23.0	22.5	23.0	20.5	19.0	20.0	16.5	16.5	16.5
28	25.0	22.5	23.5	24.0	22.5	23.0	21.0	20.0	20.5	17.0	16.5	17.0
29	25.0	23.5	24.5	24.0	22.5	23.0	21.0	20.0	20.5	17.0	16.5	17.0
30	24.5	23.0	24.0	24.5	22.5	23.5	20.0	19.0	19.5	17.0	17.0	17.0
31	---	---	---	25.0	23.5	24.5	19.5	18.0	19.0	---	---	---
MONTH	25.0	12.0	18.5	26.5	22.0	24.0	27.5	18.0	23.0	20.0	15.5	17.5
YEAR	27.5	0.0	10.0									

01035000 PASSADUMKEAG RIVER AT LOWELL, MAINE

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

DRAINAGE AREA.--299 mi² (774 km²).

WATER DISCHARGE RECORDS

PERIOD OF RECORD.--October 1915 to current year.

GAGE.--Water-stage recorder. Datum of gage is 151.3 ft (46.12 m) above mean sea level. Oct. 1, 1915 to Sept. 30, 1917, nonrecording gage at same site and datum. Oct. 1, 1917 to Nov. 30, 1921, nonrecording gage at site on left bank 400 ft (122 m) downstream from highway bridge at different datum.

REVISIONS.--WSP 821: Drainage area.

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

AVERAGE DISCHARGE.--60 years, 332 ft³/s (9.40 m³/s), 22.62 in/yr (575 mm/yr).

EXTREMES.--Period of record: Maximum discharge, 5,680 ft³/s (161 m³/s) May 2, 1923 (gage height, 9.40 ft or 2.865 m); minimum, about 5 ft³/s (0.14 m³/s) several times in July and August 1921 (gates in dam closed).

Current year: Maximum discharge, 1,350 ft³/s (38.2 m³/s) Apr. 22 (gage height, 3.89 ft or 1.186 m); maximum gage height, 4.17 ft (1.271 m) Jan. 21 (backwater from ice); minimum discharge, 74 ft³/s (2.10 m³/s) Aug. 29, 30 (gage height, 0.79 ft or 0.241 m).

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	284	90	430	210	180	155	640	995	384	273	166	81
2	309	89	380	205	175	150	600	967	387	245	158	82
3	300	87	350	200	170	150	569	961	385	224	152	91
4	272	86	326	195	170	150	539	970	377	215	144	93
5	239	87	515	195	170	145	502	980	376	207	139	93
6	210	93	647	190	165	145	488	977	396	199	135	92
7	186	99	608	190	160	140	471	966	583	189	131	90
8	163	104	300	185	160	140	467	960	748	181	126	87
9	144	107	480	185	160	140	472	935	850	175	120	88
10	128	104	704	185	160	140	469	898	880	171	115	86
11	117	101	817	185	160	140	464	851	855	168	111	84
12	107	98	833	195	155	140	463	800	784	167	109	83
13	100	104	808	215	155	135	479	753	731	192	108	104
14	94	110	751	240	155	135	513	714	841	231	105	119
15	92	122	667	260	150	130	572	675	922	269	100	130
16	99	133	567	260	150	130	653	637	964	304	97	134
17	115	139	489	255	150	130	743	601	967	305	93	131
18	133	140	427	245	150	130	836	565	933	285	90	128
19	150	137	336	230	150	140	979	526	866	259	85	122
20	155	133	315	225	150	160	1180	496	777	229	82	123
21	148	186	300	215	150	230	1300	470	673	218	81	122
22	139	259	285	205	150	300	1350	441	580	252	83	121
23	130	313	275	200	150	410	1340	402	505	268	80	124
24	122	322	259	190	150	520	1310	405	447	272	80	130
25	113	327	251	185	155	630	1260	401	399	259	78	132
26	108	357	245	180	160	693	1220	389	360	239	78	140
27	104	420	235	175	160	754	1170	400	325	218	78	172
28	100	547	230	175	155	730	1130	418	309	200	77	208
29	97	594	225	175	---	709	1080	428	303	190	76	241
30	94	499	220	180	---	697	1040	414	289	180	79	256
31	92	---	210	180	---	672	---	396	---	173	81	---
TOTAL	4644	5987	13485	6310	4425	9170	24299	20791	18196	6957	3237	3687
MEAN	150	200	435	204	158	296	810	671	607	224	104	123
MAX	309	594	833	260	180	754	1350	995	967	305	166	256
MIN	92	86	210	175	150	130	463	389	289	167	76	81
CFSM	.50	.67	1.45	.68	.53	.99	2.71	2.24	2.03	.75	.35	.41
IN.	.58	.74	1.68	.79	.55	1.14	3.02	2.59	2.26	.87	.40	.46

CAL YR 1974 TOTAL 190554 MEAN 522 MAX 1560 MIN 86 CFSM 1.75 IN 23.71
WTR YR 1975 TOTAL 121188 MEAN 332 MAX 1350 MIN 76 CFSM 1.11 IN 15.08

PENOBSCOT RIVER BASIN

01036500 KENDUSKEAG STREAM NEAR KENDUSKEAG, MAINE

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

DRAINAGE AREA.--178 mi² (461 km²).

WATER DISCHARGE RECORDS

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

GAGE.--Water-stage recorder. Datum of gage is 91.94 ft (28.023 m) above mean sea level.

REMARKS.--Records fair. An artificial cut has been made through a low divide between Souadabscook Stream and Black Stream which enters Kenduskeag Stream 1.8 mi (2.9 km) above station. During high stages of Souadabscook Stream, part of its flow passes through the cut into Kenduskeag Stream; at low stages of Souadabscook Stream, all flow continues down its own channel. Records of water analyses for the water year 1975 are published on page 165.

AVERAGE DISCHARGE.--34 years, 319 ft³/s (9.034 m³/s), 24.34 in/yr (618 mm/yr).

EXTREMES.--Period of record: Maximum discharge, 6,400 ft³/s (181 m³/s) Sept. 12, 1954 (gage height, 14.83 ft or 4.520 m); minimum daily, 1.0 ft³/s (0.028 m³/s) Sept. 30, 1948, Aug. 8, 1965.

Current year: Peak discharges above base of 1,600 ft³/s (45.3 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. 10	0500	*2,560 72.5	7.92 2.414	Apr. 20	-	2,000 56.6	- -
Mar. 24	1900	ice jam	*8.75 2.667	June 14	2300	1,780 50.4	6.35 1.935

Minimum daily discharge, 3.8 ft³/s (0.108 m³/s) Aug. 21.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	105	37	334	115	70	57	510	506	98	29	13	8.2
2	86	36	295	110	67	56	475	469	100	27	11	8.5
3	85	33	283	105	65	54	440	438	91	26	11	9.0
4	81	31	505	100	63	53	415	428	98	33	10	9.0
5	66	40	628	97	62	52	390	389	196	36	10	8.5
6	53	88	507	94	60	52	375	339	204	31	10	7.7
7	45	125	328	92	59	51	360	308	1160	27	10	6.8
8	39	111	249	89	58	50	340	358	1300	24	9.4	6.1
9	31	91	1800	87	57	50	330	339	884	22	8.5	6.5
10	29	74	2460	86	56	49	320	281	570	22	8.5	6.1
11	28	63	1820	90	54	49	315	224	386	25	6.8	5.8
12	36	58	1210	105	54	48	310	185	256	28	5.8	6.5
13	31	127	905	170	52	48	320	175	272	65	5.8	8.5
14	26	220	700	220	51	47	360	176	1400	461	6.1	9.4
15	25	194	550	180	50	47	450	162	1510	329	6.1	9.8
16	28	181	450	150	50	48	600	147	908	338	5.8	9.0
17	62	150	390	135	49	51	800	136	612	230	5.1	7.5
18	96	118	330	120	49	58	1050	120	431	143	5.1	6.8
19	92	93	290	110	49	75	1550	104	295	93	5.1	6.8
20	78	83	260	100	49	130	1750	92	218	65	4.6	9.8
21	62	563	230	94	48	225	1700	82	162	53	3.8	13
22	51	964	215	88	48	400	1420	73	126	67	4.4	14
23	45	754	200	83	47	650	1100	65	102	58	4.6	13
24	41	569	180	80	48	940	972	57	87	44	4.6	15
25	39	519	170	75	49	1000	895	51	72	36	5.1	16
26	39	599	160	72	52	920	856	46	58	32	5.8	18
27	39	666	150	70	55	850	796	89	48	26	6.1	33
28	38	720	140	68	58	760	751	241	41	22	6.1	67
29	37	578	130	70	---	680	662	230	36	19	6.1	62
30	36	396	125	73	---	620	569	159	32	16	6.8	47
31	36	---	120	72	---	560	---	117	---	14	8.2	---
TOTAL	1585	8281	16114	3200	1529	8730	21181	6586	11753	2441	219.3	454.3
MEAN	51.1	276	520	103	54.6	282	706	212	392	78.7	7.07	15.1
MAX	105	964	2460	220	70	1000	1750	506	1510	461	13	67
MIN	25	31	120	68	47	47	310	46	32	14	3.8	5.8
CFSM	.29	1.55	2.92	.58	.31	1.58	3.97	1.19	2.20	.44	.04	.08
IN.	.33	1.73	3.37	.67	.32	1.82	4.43	1.38	2.46	.51	.05	.09

CAL YR 1974	TOTAL	144755.0	MEAN 397	MAX 4100	MIN 11	CFSM 2.23	IN 30.25
WTR YR 1975	TOTAL	82073.6	MEAN 225	MAX 2460	MIN 3.8	CFSM 1.26	IN 17.15

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/s (142,700,000 m³) between gage height 2.0 and 11.0 ft (0.61 m and 3.35 m). Records furnished by Bangor Hydro-Electric Co.
- 01029000 SECOND AND GRAND LAKES in East Branch Penobscot River basin are controlled by dam rebuilt in 1942 at outlet of Grand Lake, in T. 6, R. 8, Penobscot County, Maine, used for power; usable capacity, 1,785,000,000 ft³ (50,550,000 m³) between elevations 643.0 and 655.0 ft (195.99 m and 199.64 m). Records furnished by Bangor Hydro-Electric Co.
- 01032500 SEBEC LAKE on Sebec River, Piscataquis County, at Sebec, Maine, used for power; usable capacity, 2,511,000,000 ft³ (71,110,000 m³) between elevations 316.1 and 325.1 ft (96.35 m and 99.09 m). Records furnished by Bangor Hydro-Electric Co.

MONTHEND CONTENTS, IN MILLIONS OF CUBIC FEET, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975

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, 1974		37,800	3,003	713
OCT. 31		31,345	1,240	256
NOV. 30		28,112	1,292	1,066
DEC. 31		30,924	2,835	1,665
JAN. 31, 1975		25,682	2,952	1,039
FEB. 28		19,546	1,472	441
MAR. 31		13,923	1,127	767
APR. 30		19,904	2,325	1,584
MAY 31		49,131	6,283	2,072
JUNE 30		53,491	6,185	2,042
JULY 31		47,357	5,734	1,866
AUG. 31		39,501	4,356	1,474
SEPT. 30		34,059	1,867	821

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

SHEEPSCOT RIVER BASIN

01038000 SHEEPSCOT RIVER AT NORTH WHITEFIELD, MAINE

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

DRAINAGE AREA.--148 mi² (383 km²).

WATER DISCHARGE RECORDS

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

GAGE.--Water-stage recorder. Datum of gage is 101.1 ft (30.82 m) above mean sea level.

REVISIONS (WATER YEARS).--WSP 1231: 1940.

REMARKS.--Records excellent except those for winter period, which are fair. Some regulation at low flow by saw-mill at North Whitefield.

AVERAGE DISCHARGE.--37 years, 243 ft³/s (6.882 m³/s), 22.30 in/yr (566 mm/yr).

EXTREMES.--Period of record: Maximum discharge, 6,420 ft³/s (182 m³/s) Dec. 18, 1973 (gage height, 12.52 ft or 3.816 m, from floodmarks); minimum, 5.0 ft³/s (0.14 m³/s) Oct. 24, 1941 (gage height, 1.70 ft or 0.518 m).

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)
Mar. 21	0230	*1,360 38.5	*5.51 1.679	June 14	0400	1,190 33.7	5.31 1.618
Mar. 28	0900	1,140 32.3	5.24 1.597				

Minimum discharge, 18 ft³/s (0.51 m³/s) Aug. 21, gage height, 1.89 ft (0.576 m).

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	112	66	218	173	170	218	617	443	107	103	40	40
2	96	66	220	169	165	252	548	406	107	93	38	34
3	103	66	339	160	160	247	518	382	98	87	36	34
4	95	68	388	158	150	233	608	354	114	82	34	33
5	85	77	344	155	145	215	604	331	140	84	33	31
6	80	103	318	150	144	205	552	306	180	76	32	29
7	77	100	296	144	140	200	557	284	347	72	31	27
8	74	92	331	142	135	195	626	272	269	69	34	29
9	69	90	790	140	135	190	643	255	252	71	38	34
10	66	82	647	140	130	185	600	238	244	72	31	41
11	63	76	596	148	130	180	617	220	233	72	28	36
12	60	82	578	284	125	179	608	208	218	69	27	33
13	59	136	561	281	125	184	583	191	492	92	25	45
14	56	136	510	250	120	179	565	182	1060	118	24	38
15	56	120	446	235	120	177	596	166	775	92	22	30
16	60	118	385	225	115	175	617	158	718	96	21	27
17	112	111	413	218	115	175	634	150	669	85	21	26
18	105	109	406	210	114	182	660	138	600	79	21	25
19	85	107	368	205	116	215	780	130	514	72	21	25
20	79	109	344	200	116	752	900	126	432	68	21	39
21	76	504	315	200	116	1060	875	124	361	69	19	52
22	72	435	303	195	111	1100	825	118	300	92	23	42
23	71	334	281	195	112	925	765	116	261	80	23	41
24	69	315	266	195	120	875	723	109	218	72	23	52
25	66	331	249	191	171	825	682	102	193	68	24	52
26	66	341	225	230	236	790	630	95	166	63	25	52
27	66	309	218	233	238	932	656	116	146	55	26	144
28	65	293	208	218	212	1010	596	128	132	48	26	179
29	62	264	193	208	---	815	535	112	122	46	25	120
30	62	238	186	190	---	746	485	105	111	42	36	96
31	65	---	177	180	---	705	---	105	---	41	50	---
TOTAL	2332	5278	11119	6022	3986	14321	19205	6170	9579	2328	878	1486
MEAN	75.2	176	359	194	142	462	640	199	319	75.1	28.3	49.5
MAX	112	504	790	284	238	1100	900	443	1060	118	50	179
MIN	56	66	177	140	111	175	485	95	98	41	19	25
CFSM	.51	1.19	2.43	1.31	.96	3.12	4.32	1.34	2.16	.51	.19	.33
IN.	.59	1.33	2.79	1.51	1.00	3.60	4.83	1.55	2.41	.59	.22	.37

CAL YR 1974 TOTAL 108951 MEAN 298 MAX 2060 MIN 37 CFSM 2.01 IN 27.39
WTR YR 1975 TOTAL 82704 MEAN 227 MAX 1100 MIN 19 CFSM 1.53 IN 20.79

SHEEPSCOT RIVER BASIN

93

01038000 SHEEPSCOT RIVER AT NORTH WHITEFIELD, MAINE--Continued

WATER QUALITY RECORDS

PERIOD OF RECORD.

SPECIFIC CONDUCTANCE: July 1974 to current year.

WATER TEMPERATURES: October 1957 to September 1971; July 1974 to current year.

INSTRUMENTATION.--Two parameter water quality monitor.

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

EXTREMES.--Period of record:

SPECIFIC CONDUCTANCE: Maximum, 95 micromhos Oct. 16, 1974, Sept. 21, 1975; minimum, 26 micromhos June 15, 1975.

WATER TEMPERATURES: Maximum, 31.5°C Aug. 2, 1975; minimum, freezing point on many days during winter months.

EXTREMES.--Current year:

SPECIFIC CONDUCTANCE: Maximum, 95 micromhos Oct. 16, Sept. 21; minimum, 26 micromhos June 15.

WATER TEMPERATURES: Maximum, 31.5°C Aug. 2; minimum, freezing point on many days during November through April.

SPECIFIC CONDUCTANCE (MICROMHOS/CM AT 25 DEG. C), WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975

DAY	OCTOBER			NOVEMBER			DECEMBER			JANUARY		
	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	64	61	63	66	61	63	41	38	40	42	39	40
2	60	52	56	64	58	61	44	40	41	42	39	40
3	53	52	52	59	57	58	51	44	47	40	34	37
4	51	49	50	60	59	60	48	40	43	43	39	41
5	53	48	50	60	54	56	40	38	39	42	38	40
6	56	51	54	63	59	61	40	37	39	42	33	38
7	56	53	55	63	60	62	41	38	40	42	40	41
8	57	52	54	60	58	59	50	41	44	44	41	42
9	57	54	56	58	55	57	50	41	47	46	42	43
10	55	45	48	57	54	55	41	38	39	45	43	44
11	50	45	47	56	54	54	38	37	38	48	45	46
12	53	49	51	59	52	55	38	38	36	56	45	53
13	54	47	50	65	52	59	34	33	34	55	45	49
14	58	48	53	78	61	63	34	33	34	46	43	45
15	91	56	71	61	57	60	33	31	32	43	38	42
16	95	52	82	57	53	55	34	31	32	42	40	41
17	68	51	61	53	51	52	38	33	35	42	35	39
18	67	61	63	52	50	51	37	35	36	44	33	37
19	61	59	60	51	50	50	36	35	35	49	45	47
20	59	55	57	50	49	50	36	34	35	48	38	44
21	55	53	54	62	51	55	36	33	34	44	31	39
22	54	51	53	53	42	46	36	35	36	43	41	42
23	54	51	52	42	39	40	36	32	34	42	31	38
24	52	49	51	39	34	39	38	35	36	43	40	42
25	53	49	52	40	39	40	37	35	36	46	42	43
26	53	50	52	39	37	39	35	33	34	52	46	48
27	58	52	55	40	35	37	37	35	36	47	45	46
28	72	53	56	39	36	37	40	37	38	45	35	43
29	71	56	60	39	37	38	40	38	39	43	35	42
30	63	59	60	40	39	40	41	39	40	45	42	43
31	64	61	62	---	---	---	40	37	39	42	34	36
MONTH	95	45	56	78	34	52	51	31	38	56	31	42

SHEEPSCOT RIVER BASIN

01038000 SHEEPSCOT RIVER AT NORTH WHITEFIELD, MAINE--Continued

SPECIFIC CONDUCTANCE (MICROMHOS/CM AT 25 DEG. C), WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975

FEBRUARY				MARCH			APRIL			MAY		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	37	35	36	54	50	52	30	30	30	30	29	29
2	39	31	35	54	51	52	30	30	30	30	29	29
3	40	31	35	50	48	49	30	30	30	31	29	30
4	45	31	34	50	47	48	30	30	30	32	30	31
5	40	37	39	48	46	48	30	30	30	32	30	31
6	42	40	41	48	46	47	30	30	30	33	31	32
7	43	41	42	50	48	49	34	30	31	32	32	32
8	45	42	43	50	49	50	36	30	32	34	32	33
9	43	36	42	50	41	47	31	30	30	36	33	34
10	45	32	37	50	38	46	34	30	32	36	33	35
11	43	37	40	50	48	49	34	32	33	37	34	35
12	45	33	39	49	47	48	34	32	33	38	35	36
13	48	40	43	50	49	50	33	31	33	38	36	37
14	51	34	42	50	48	49	34	31	33	41	37	39
15	51	35	43	49	47	48	33	31	32	43	40	41
16	48	47	47	51	43	47	32	30	31	43	40	41
17	49	47	48	51	50	50	33	30	31	43	41	42
18	52	47	49	52	50	51	31	29	30	44	42	43
19	54	51	52	54	51	53	31	30	30	45	42	43
20	57	54	55	53	35	45	30	29	30	46	43	44
21	55	54	55	35	31	33	29	29	29	45	43	44
22	57	53	55	32	31	31	29	29	29	46	43	44
23	57	54	56	34	31	33	29	29	29	47	43	45
24	60	56	57	33	31	32	29	29	29	49	46	47
25	69	59	64	32	31	31	29	29	29	52	44	47
26	63	55	59	32	31	31	29	29	29	49	43	45
27	55	53	54	31	31	31	29	29	29	50	43	46
28	54	52	53	31	31	31	29	29	29	51	49	50
29	---	---	---	30	30	30	29	29	29	51	48	49
30	---	---	---	30	30	30	29	29	29	48	45	46
31	---	---	---	30	30	30	---	---	---	46	43	44
MONTH	69	31	46	54	30	43	36	29	30	52	29	39
JUNE				JULY			AUGUST			SEPTEMBER		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	46	45	46	42	39	40	---	---	---	---	---	---
2	48	46	47	43	40	41	---	---	---	---	---	---
3	48	46	47	44	41	42	---	---	---	---	---	---
4	48	42	45	49	41	44	---	---	---	---	---	---
5	51	49	50	53	47	49	---	---	---	---	---	---
6	49	44	47	52	50	51	---	---	---	---	---	---
7	46	38	43	54	50	52	---	---	---	---	---	---
8	38	35	36	54	52	53	---	---	---	---	---	---
9	34	33	34	53	51	52	---	---	---	---	---	---
10	35	32	33	55	51	52	---	---	---	---	---	---
11	38	32	34	58	53	54	---	---	---	---	---	---
12	35	33	34	61	53	58	---	---	---	---	---	---
13	45	33	38	---	---	---	---	---	---	---	---	---
14	35	27	29	---	---	---	---	---	---	---	---	---
15	31	26	28	---	---	---	---	---	---	---	---	---
16	29	27	28	---	---	---	---	---	---	---	---	---
17	31	27	29	---	---	---	---	---	---	---	---	---
18	32	29	30	---	---	---	---	---	---	---	---	---
19	32	30	31	---	---	---	---	---	---	---	---	---
20	31	30	31	---	---	---	---	---	---	55	50	52
21	33	29	31	---	---	---	---	---	---	95	56	75
22	33	30	32	---	---	---	---	---	---	82	68	73
23	34	31	33	---	---	---	---	---	---	78	63	66
24	35	33	34	---	---	---	---	---	---	72	62	67
25	36	34	35	---	---	---	---	---	---	84	72	73
26	37	34	35	---	---	---	---	---	---	71	67	68
27	37	35	36	---	---	---	---	---	---	83	64	74
28	38	35	37	---	---	---	---	---	---	78	73	76
29	38	37	37	---	---	---	---	---	---	72	66	68
30	40	37	38	---	---	---	---	---	---	66	59	63
31	---	---	---	---	---	---	---	---	---	---	---	---
MONTH	51	26	36	---	---	---	---	---	---	---	---	---
YEAR	95	26	44									

01038000 SHEEPCOT RIVER AT NORTH WHITEFIELD, MAINE--Continued

TEMPERATURE (DEG. C) OF WATER, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975

DAY	OCTOBER			NOVEMBER			DECEMBER			JANUARY		
	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	14.5	12.5	13.5	10.5	9.0	9.5	1.5	0.0	0.5	4.5	3.0	4.0
2	12.5	11.5	12.0	9.5	7.5	9.0	2.0	0.5	1.5	4.5	3.0	3.5
3	11.5	10.5	11.0	7.5	6.5	7.0	1.5	1.0	1.5	4.0	3.0	3.0
4	10.5	9.5	10.5	7.5	6.5	7.0	1.0	0.5	1.0	4.5	3.0	4.0
5	10.5	8.5	9.5	8.0	7.5	7.5	1.5	0.5	1.0	4.5	3.5	4.0
6	12.5	10.0	11.0	7.5	7.5	7.5	2.0	1.0	1.5	3.5	2.5	3.0
7	13.0	11.5	12.0	7.5	6.5	7.0	2.5	1.5	2.0	2.5	2.0	2.5
8	12.0	10.5	11.0	7.0	6.0	6.5	3.5	2.5	3.0	2.5	2.0	2.5
9	11.0	9.5	10.5	6.0	5.0	5.5	3.0	2.0	2.0	3.0	2.5	2.5
10	10.0	9.5	9.5	5.5	4.5	5.0	2.0	1.5	2.0	3.0	2.5	3.0
11	10.5	8.5	9.0	5.0	4.0	4.5	2.5	1.5	2.0	3.5	2.5	3.0
12	10.0	8.5	9.0	6.5	5.0	5.5	2.5	2.0	2.5	3.0	2.0	2.5
13	11.0	9.0	10.0	7.5	6.5	7.0	4.5	3.0	3.5	2.5	2.0	2.0
14	9.5	8.5	9.0	7.0	5.5	6.5	4.5	3.0	4.0	2.5	2.0	2.5
15	12.0	9.5	11.0	7.0	6.5	6.5	3.0	2.0	2.5	2.0	2.0	2.0
16	11.0	9.0	10.0	6.5	5.0	5.5	3.5	3.0	3.0	2.5	1.5	2.0
17	9.0	8.5	8.5	5.5	5.0	5.0	3.5	3.0	3.0	2.0	1.5	2.0
18	8.5	7.0	8.0	5.5	4.5	5.0	4.0	3.0	3.5	2.0	1.5	2.0
19	7.0	5.5	6.0	5.0	4.0	4.5	3.5	3.0	3.5	2.5	2.0	2.5
20	6.0	5.0	5.5	4.5	3.5	4.0	4.0	3.0	3.5	2.5	1.5	2.0
21	5.0	4.0	4.5	5.0	4.5	5.0	3.5	3.0	3.0	2.5	1.5	2.0
22	5.0	3.0	4.0	4.5	2.5	3.5	3.5	3.0	3.5	2.5	1.5	2.0
23	7.0	5.0	6.0	2.0	1.0	1.5	3.5	2.5	3.5	1.5	---	---
24	6.5	5.0	6.0	2.5	1.5	2.0	4.0	3.0	3.5	2.5	1.5	2.0
25	6.0	4.5	5.0	3.5	2.5	3.0	3.5	3.0	3.5	2.5	2.0	2.0
26	7.0	6.0	6.5	2.5	0.5	1.5	3.5	2.5	3.0	2.5	2.0	2.5
27	6.5	5.0	6.0	0.5	0.0	0.5	3.5	2.5	3.0	2.0	1.5	2.0
28	5.0	3.5	4.5	0.5	0.0	0.5	4.0	2.5	3.5	2.5	---	---
29	5.5	3.5	4.5	1.0	0.0	0.5	4.5	3.0	3.5	2.0	1.5	1.5
30	7.5	5.5	6.5	1.5	0.5	1.0	4.5	3.0	3.5	2.0	1.5	1.5
31	8.5	7.5	8.0	---	---	---	4.0	2.5	3.0	1.0	---	---
MONTH	14.5	3.0	8.5	10.5	0.0	5.0	4.5	0.0	2.5	4.5	1.5	2.5
DAY	FEBRUARY			MARCH			APRIL			MAY		
	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	---	---	---	2.0	1.0	1.5	3.5	1.0	2.5	11.0	8.0	9.5
2	---	---	---	2.0	1.0	1.5	4.0	1.5	3.0	10.5	9.5	10.0
3	0.5	---	---	2.5	1.0	2.0	3.5	0.0	1.5	10.0	9.5	10.0
4	---	---	---	3.0	1.0	2.0	1.5	0.0	0.5	9.5	9.0	9.5
5	0.5	---	---	3.0	1.0	2.0	1.5	0.5	1.5	10.5	9.0	9.5
6	0.0	0.0	0.0	2.5	1.0	2.0	2.5	1.0	2.0	12.0	9.5	10.5
7	0.5	---	---	4.0	2.0	2.5	3.5	1.5	2.5	11.0	10.0	10.5
8	0.5	---	---	2.5	1.5	2.0	4.0	2.0	3.0	13.5	9.5	11.0
9	0.0	---	---	2.5	0.0	1.5	3.0	2.0	2.5	14.5	10.5	12.5
10	---	---	---	2.5	0.0	1.0	5.5	1.5	4.0	15.5	11.5	13.5
11	0.0	---	---	4.0	1.5	2.5	6.0	3.5	4.5	16.0	12.0	14.0
12	---	---	---	3.0	2.0	2.5	6.5	4.0	5.0	17.0	13.0	14.5
13	---	---	0.0	3.5	2.5	3.0	6.0	4.5	5.0	15.0	14.5	15.0
14	---	---	0.0	3.5	1.5	2.5	7.0	4.5	6.0	19.0	14.0	16.0
15	---	---	0.0	3.0	2.0	2.5	8.0	5.0	6.5	20.0	16.0	17.5
16	---	---	0.0	4.0	0.5	2.5	8.0	5.5	7.0	18.0	16.0	17.0
17	---	---	0.0	5.0	2.0	3.5	8.5	6.0	7.5	19.0	15.0	17.0
18	1.0	0.0	0.5	5.0	2.0	3.5	9.0	6.0	7.5	18.5	15.0	16.5
19	1.5	1.0	1.0	5.0	2.5	3.5	8.5	7.5	7.5	20.0	15.5	18.0
20	2.0	1.0	1.5	3.0	1.5	2.5	7.5	6.5	7.0	21.5	16.5	19.0
21	2.0	1.0	1.5	2.5	1.0	1.5	7.0	3.5	4.5	21.0	18.0	20.0
22	2.0	1.0	1.5	3.0	1.5	2.0	5.5	3.0	4.5	20.0	18.5	19.5
23	2.0	1.5	2.0	3.0	2.0	2.5	7.0	3.5	5.5	21.0	17.5	19.5
24	2.0	1.5	1.5	3.5	2.0	3.0	6.5	6.0	6.0	22.5	18.5	20.5
25	2.0	1.5	1.5	3.0	2.5	3.0	8.0	6.0	7.0	20.5	17.0	19.5
26	2.0	1.0	1.5	3.5	1.5	3.0	8.0	7.5	7.5	20.0	17.0	17.5
27	2.0	1.0	1.5	2.0	0.0	1.0	7.5	6.5	7.0	17.0	15.5	16.0
28	2.5	1.0	1.5	3.5	1.0	2.0	6.5	5.5	6.0	19.0	15.0	17.0
29	---	---	---	3.5	1.5	2.5	7.0	5.5	6.5	21.0	16.0	18.5
30	---	---	---	3.0	2.0	2.5	9.5	6.0	7.5	20.0	17.0	19.0
31	---	---	---	3.5	1.5	2.5	---	---	---	19.5	17.5	18.5
MONTH	---	---	---	5.0	0.0	2.5	9.5	0.0	5.0	22.5	8.0	15.5

KENNEBEC RIVER BASIN

97

01040500 MOOSEHEAD LAKE AT EAST OUTLET, MAINE

LOCATION.--Lat 45°35'07", long 69°42'48", Piscataquis County, on left bank at wharf at east outlet of lake at Moosehead.

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

WATER DISCHARGE RECORDS

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) above mean sea level.

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 and 17.5 ft (3.05 and 5.33 m). Water is used primarily for power, although some logs are driven each year. Some water was diverted through gates in dam at West Outlet; monthly mean diversion, in cubic feet per second, during water year 1975, is given below:

October	20	February	20	June	70
November	20	March	20	July	50
December	20	April	30	August	40
January	30	May	70	September	35

EXTREMES.--Period of record: Maximum gage height, 18.0 ft (5.49 m) May 30, 1902; minimum, 10.0 ft (3.05 m) or lower, present datum Mar. 20-29, 1911.

Current year: Maximum gage height observed, 17.65 ft (5.380 m) June 8, 9; minimum observed, 12.86 ft (3.920 m) Sept. 30.

GAGE HEIGHT, IN FEET, AT 0700, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	14.44	13.85	14.83	15.99	15.35	14.25	14.04	14.68	17.56	17.33	16.30	14.40
2	14.38	13.84	14.81	16.01	15.35	14.30	14.06	14.80	17.52	17.28	16.26	14.35
3	14.33	13.88	14.90	15.98	15.35	14.30	14.02	14.96	17.53	17.24	16.24	14.32
4	14.26	13.92	14.95	15.95	15.31	14.27	14.05	15.14	17.53	17.24	16.22	14.26
5	14.25	13.97	15.00	15.93	15.26	14.22	14.03	15.30	17.52	17.20	16.20	14.16
6	14.22	13.99	15.03	15.92	15.21	14.18	14.01	15.45	17.51	17.16	16.18	14.07
7	14.14	14.00	15.03	15.89	15.17	14.13	14.00	15.60	17.58	17.12	16.13	14.02
8	14.06	14.01	15.04	15.88	15.12	14.08	13.97	15.78	17.65	17.06	16.00	13.96
9	13.92	14.03	15.20	15.83	15.11	14.04	13.93	15.96	17.65	17.00	15.92	13.88
10	13.72	14.10	15.28	15.81	15.10	14.00	13.90	16.14	17.64	16.97	15.86	13.77
11	13.50	14.16	15.38	15.79	15.05	13.97	13.86	16.28	17.61	16.92	15.84	13.64
12	13.50	14.20	15.46	15.79	15.01	13.92	13.82	16.45	17.59	16.88	15.79	13.54
13	13.55	14.22	15.53	15.79	14.96	13.88	13.77	16.68	17.59	16.85	15.70	13.53
14	13.58	14.31	15.60	15.77	14.92	13.85	13.72	16.90	17.59	16.81	15.63	13.52
15	13.62	14.35	15.64	15.73	14.86	13.83	13.69	17.08	17.55	16.80	15.54	13.49
16	13.65	14.38	15.70	15.70	14.80	13.80	13.66	17.22	17.51	16.80	15.44	13.38
17	13.70	14.42	15.73	15.69	14.76	13.78	13.62	17.37	17.52	16.73	15.36	13.28
18	13.73	14.48	15.77	15.69	14.72	13.74	13.61	17.48	17.50	16.63	15.32	13.20
19	13.74	14.51	15.79	15.70	14.69	13.69	13.59	17.55	17.50	16.58	15.22	13.12
20	13.74	14.53	15.79	15.70	14.65	13.65	13.63	17.55	17.50	16.58	15.08	13.12
21	13.74	14.60	15.79	15.66	14.60	13.65	13.78	17.51	17.48	16.60	14.96	13.12
22	13.75	14.75	15.80	15.58	14.56	13.66	13.85	17.47	17.48	16.64	14.92	13.12
23	13.78	14.78	15.82	15.50	14.52	13.70	13.91	17.49	17.47	16.62	14.86	13.03
24	13.81	14.80	15.86	15.47	14.47	13.75	13.97	17.50	17.46	16.60	14.79	12.92
25	13.81	14.84	15.88	15.44	14.42	13.82	14.08	17.50	17.46	16.55	14.72	12.88
26	13.82	14.92	15.92	15.44	14.38	13.85	14.18	17.51	17.43	16.49	14.65	12.80
27	13.84	14.92	15.94	15.45	14.34	13.85	14.29	17.60	17.42	16.47	14.64	12.88
28	13.84	14.90	15.96	15.42	14.30	13.89	14.38	17.63	17.40	16.46	14.60	12.90
29	13.82	14.87	15.98	15.38	-----	13.92	14.48	17.63	17.39	16.42	14.52	12.91
30	13.80	14.85	15.99	15.38	-----	13.95	14.60	17.61	17.37	16.39	14.42	12.86
31	13.81	-----	15.99	15.38	-----	14.00	-----	17.55	-----	16.36	14.45	-----
MAX	14.44	14.92	15.99	16.01	15.35	14.30	14.60	17.63	17.65	17.33	16.30	14.40
MIN	13.50	13.84	14.81	15.38	14.30	13.65	13.59	14.68	17.37	16.36	14.47	12.86
*	11,937	15,236	18,876	16,925	13,488	12,537	14,441	23,897	23,315	20,064	13,964	8,938
**	-2,250	+3,299	+3,640	-1,951	-3,437	-951	+1,904	+9,456	-582	-3,251	-6,100	-5,026

CAL YR: ** -4,762

WTR YR: ** -5,249

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

** Change in contents, in millions of cubic feet.

KENNEBEC RIVER BASIN

01041000 KENNEBEC RIVER AT MOOSEHEAD, MAINE

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

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

WATER DISCHARGE RECORDS

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

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

REVISIONS (WATER YEARS).--WSP 1301: 1928-50 (adjusted monthly runoff). WSP 1901: Drainage area.

REMARKS.--Records excellent. Some water diverted down west channel through gates in dam at West Outlet. Flow regulated by Moosehead Lake (see sta. 01040500, p. 97) and by Brassua Lake and First Roach Pond (see p.115).

AVERAGE DISCHARGE.--56 years, 1,936 ft³/s (54.83 m³/s), 20.77 in/yr (528 mm/yr), unadjusted.

EXTREMES.--Period of record: Maximum discharge, 16,700 ft³/s (473 m³/s) May 3, 1974 (gage height, 9.74 ft or 2.969 m); minimum, about 62 ft³/s (1.76 m³/s) Apr. 7-15, 1923.

Current year: Maximum discharge, 5,870 ft³/s (166 m³/s) May 28, June 8, 9 (gage height, 6.36 ft or 1.939 m); minimum, 79 ft³/s (2.24 m³/s) July 14 (gage height, 2.03 ft or 0.619 m).

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP		
1	3160	486	1280	1010	2090	2340	332	420	5650	2480	2120	2360		
2	3120	314	416	2370	1540	1690	1910	427	4420	2460	847	2680		
3	3060	314	571	3250	2410	1890	2890	413	3810	2170	847	3020		
4	2220	314	573	2260	2850	2380	2960	382	4130	1490	1680	2940		
5	755	727	574	1700	2810	2330	2910	308	4020	1480	2150	2910		
6	1390	1000	856	2600	2800	2320	2890	308	3820	1480	2120	2860		
7	3530	990	869	2300	2790	2300	2870	317	3900	2200	2600	2800		
8	4580	683	685	2690	1980	2280	2840	320	4680	2530	2680	2860		
9	4870	634	399	2680	1460	2280	2810	323	5810	2670	1500	3400		
10	4570	634	224	2560	2180	2260	2780	326	5760	2600	1000	3550		
11	2240	642	225	1930	2720	2220	2750	329	5230	2060	2210	3600		
12	1050	916	225	776	2700	2200	2700	333	4890	1820	3260	3550		
13	1060	770	225	2530	2670	2180	2690	597	5540	1320	2990	2690		
14	1060	850	225	3120	2650	2160	2640	351	5720	2250	2720	1390		
15	1750	1380	227	3100	2630	2150	2620	353	5680	2020	3340	2690		
16	2090	728	1170	2120	2600	2140	2580	904	4560	3630	3000	3380		
17	1630	372	1670	1640	2570	2100	2570	352	4600	3970	2450	3340		
18	1740	363	1710	1620	2550	2360	2570	482	3680	2110	2810	3240		
19	1750	1150	1730	1630	2540	2570	2580	3180	3080	627	3600	3160		
20	1780	1490	1720	2430	2520	2570	1850	5350	2520	634	3520	856		
21	1140	989	1720	3050	2500	1190	736	5290	1770	476	2630	930		
22	626	341	881	3020	2480	320	536	4650	1980	786	2620	1670		
23	630	339	1050	3000	2450	320	610	3620	2580	1590	2270	3050		
24	630	339	1320	2980	2420	323	488	3960	2970	2160	1920	3000		
25	630	341	1010	2950	2410	326	364	3310	2420	1540	2210	2940		
26	630	1490	1010	2570	2380	332	364	1160	1780	941	2480	2780		
27	630	2810	1010	2080	2330	332	378	3280	1380	759	3240	784		
28	2080	2780	1010	2950	2290	326	418	4540	1680	1120	3180	350		
29	2880	2760	1010	2930	---	326	457	4880	2050	1600	3130	1370		
30	1760	2750	1840	2930	---	332	393	5690	2380	1790	1860	1990		
31	687	---	2130	2900	---	332	---	4970	---	2080	748	---		
TOTAL	59728	29696	29565	75676	68320	49179	55486	61125	112490	56843	73732	76140		
MEAN	1927	990	954	2441	2440	1586	1850	1972	3750	1834	2378	2538		
MAX	4870	2810	2130	3250	2850	2570	2960	5690	5810	3970	3600	3600		
MIN	626	314	224	776	1460	320	332	308	1380	476	748	350		
MEAN*	- 10	1208	2015	1155	762	1417	3778	8042	3497	493	-138	421		
CFSM*	-.01	.95	1.59	.91	.60	1.12	2.98	6.35	2.76	.39	-.11	.33		
IN.*	-.01	1.06	1.83	1.05	.63	1.29	3.32	7.32	3.08	.45	-.13	.37		
CAL YR 1974	TOTAL	1064996	MEAN	2918	MAX	16300	MIN	224	MEAN*	2587	CFSM*	2.04	IN.*	27.71
WTR YR 1975	TOTAL	747980	MEAN	2049	MAX	5810	MIN	224	MEAN*	1891	CFSM*	1.49	IN.*	20.26

* Adjusted for change in contents in Brassua and Moosehead Lakes, First Roach Pond, and diversion through West Outlet. Negative figures of adjusted discharge indicate evaporation and seepage from reservoirs exceeded inflow.

KENNEBEC RIVER BASIN

99

01042500 KENNEBEC RIVER AT THE FORKS, MAINE

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

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

WATER DISCHARGE RECORDS

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

GAGE.--Water-stage recorder. Datum of gage is 569.03 ft (173.440 m) above mean sea level. 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.

REVISIONS (WATER YEARS).--WSP 1231: 1902-4, 1906-8, 1912, 1914, 1919-20 (M), 1923 (M), 1926 (M), 1928-29 (M), 1936 (M), 1938 (M). WSP 1301: 1928-35 (adjusted monthly runoff). WSP 1901: Drainage area.

REMARKS.--Records excellent except for period of no gage-height record, which are fair. Flow regulated by Moosehead Lake (see sta. 01040500, p. 97), Brassua Lake, and Moxie, Indian, and First Roach Ponds (see p.113). Records of water analyses for the water year 1975 are published on page 165.

AVERAGE DISCHARGE.--74 years, 2,586 ft³/s (73.2 m³/s), 22.10 in/yr (561 mm/yr).

EXTREMES.--Period of record: Maximum discharge, about 24,900 ft³/s (705 m³/s) Dec. 22, 1973 (gage height, 12.68 ft or 3.865 m); minimum, 85 ft³/s (2.41 m³/s) Sept. 3, 1953 (gage height, 1.02 ft or 0.311 m).

Current year: Maximum discharge, 9,800 ft³/s (278 m³/s) Mar. 27 (gage height, 6.44 ft or 1.963 m); minimum daily, 217 ft³/s (6.15 m³/s) July 27.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	3,350	937	953	1,830	2,780	2,240	1,440	900	5,600	2,750	2,320	1,240
2	3,420	252	1,720	3,050	1,270	626	2,810	1,700	4,800	2,780	1,070	3,740
3	3,840	245	495	3,480	3,510	2,260	4,020	2,200	4,500	2,630	331	3,930
4	3,990	1,640	1,350	1,830	3,470	2,840	4,420	1,100	5,600	638	1,000	3,290
5	2,220	1,680	1,820	435	3,330	2,820	2,360	2,100	4,500	1,410	2,670	3,220
6	757	1,160	2,100	3,340	3,170	3,480	626	2,100	4,100	610	3,150	2,720
7	3,840	861	1,500	3,960	2,750	2,370	3,670	1,600	4,600	2,350	3,190	1,010
8	4,130	1,160	491	3,950	2,240	2,180	4,120	1,100	5,600	4,200	2,540	3,930
9	4,580	616	1,110	2,400	683	933	4,030	1,700	6,400	3,490	2,010	3,590
10	4,430	255	1,080	3,330	3,460	2,830	4,200	1,400	6,600	3,190	471	4,140
11	4,320	231	1,910	1,690	3,470	2,740	4,100	250	6,400	3,270	2,600	4,020
12	2,360	1,520	1,820	431	3,520	2,610	1,940	1,600	6,570	1,860	3,370	4,280
13	467	2,200	2,710	3,000	3,160	2,640	827	1,600	6,950	460	2,510	1,730
14	2,040	1,920	992	2,760	2,910	2,840	3,790	1,400	8,150	3,270	3,190	1,260
15	3,390	423	569	2,900	1,840	2,060	3,700	1,100	8,630	3,410	2,740	3,930
16	2,290	442	3,120	2,850	1,080	783	1,800	800	7,730	1,210	2,560	4,350
17	2,130	437	2,320	2,640	2,240	3,800	4,100	560	4,520	3,280	1,970	4,260
18	824	1,750	2,240	1,340	3,320	2,780	4,800	660	3,190	1,770	3,380	3,730
19	345	1,290	2,210	2,720	3,450	3,400	1,800	5,000	3,510	625	3,060	3,690
20	247	2,340	2,710	3,230	3,190	2,290	620	6,200	3,210	250	2,280	2,160
21	1,380	1,880	1,580	2,760	3,230	646	660	5,000	2,710	1,260	3,190	681
22	1,610	1,860	677	3,290	2,080	698	570	4,700	2,260	1,780	2,790	4,170
23	1,610	447	2,180	3,250	840	689	2,100	4,500	3,480	1,700	2,510	3,930
24	1,440	406	2,020	2,820	3,280	1,240	2,200	4,000	2,450	1,710	2,090	3,190
25	1,190	1,830	888	2,220	2,820	1,110	2,200	3,000	2,050	1,650	2,100	3,130
26	236	2,930	2,670	1,230	1,740	1,080	620	1,800	1,800	640	3,760	3,690
27	224	2,920	2,570	3,130	3,220	1,910	580	4,500	2,100	217	2,860	714
28	1,640	782	609	3,450	2,820	1,570	1,300	4,800	2,220	1,880	3,440	685
29	1,640	2,250	603	3,210	-----	697	1,700	5,600	1,120	2,080	3,190	3,210
30	1,090	866	2,460	2,720	-----	650	600	7,000	3,020	1,710	2,230	2,490
31	907	-----	2,980	2,220	-----	1,520	-----	6,200	-----	2,180	537	-----
TOTAL	65,937	37,530	52,457	81,466	74,873	60,332	71,703	86,170	134,370	60,260	75,109	90,110
MEAN	2,127	1,251	1,692	2,628	2,674	1,946	2,390	2,780	4,479	1,944	2,423	3,004
MAX	4,580	2,930	3,120	3,960	3,520	3,800	4,800	7,000	8,630	4,200	3,760	4,350
MIN	224	231	491	431	683	626	570	250	1,120	217	331	681
MEAN*	183	1,421	2,673	1,352	902	1,804	4,430	8,963	4,153	540	-184	.679
CFSM*	.12	.89	1.68	.85	.57	1.14	2.79	5.64	2.61	.34	-.12	.43
IN.*	.13	1.00	1.94	.98	.59	1.31	3.11	6.50	2.91	.39	-.13	.48

CAL YR 1974 TOTAL 1,374,682 MEAN 3,766 MAX 21,400 MIN 224 MEAN* 3,348 CFSM* 2.11 IN.* 28.61
WTR YR 1975 TOTAL 890,317 MEAN 2,439 MAX 8,630 MIN 217 MEAN* 2,249 CFSM* 1.42 IN.* 19.21

* Adjusted for change in contents in Brassua and Moosehead Lakes, and First Roach, Indian and Moxie Ponds. Negative figures of adjusted discharge indicate evaporation and seepage from reservoirs exceeded inflow.
NOTE.--No gage-height record Apr. 16 to June 11.

KENNEBEC RIVER BASIN

01043500 DEAD RIVER NEAR DEAD RIVER, MAINE

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

DRAINAGE AREA.--520 mi² (1,347 km²).

WATER DISCHARGE RECORDS

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) above mean sea level.

REMARKS.--Records good. Flow regulated by Flagstaff Lake (see sta. 01043000, p.115).

AVERAGE DISCHARGE.--36 years, 850 ft³/s (24.1 m³/s), 22.20 in/yr (564 mm/yr), unadjusted.

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

Current year: Maximum discharge, 3,360 ft³/s (95.2 m³/s) July 31 (gage height, 7.68 ft or 2.341 m); minimum daily, 5.4 ft³/s (0.153 m³/s) Mar. 31, Apr. 2.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	510	2500	1980	776	714	1080	6.9	34	1620	1120	2920	642
2	515	2240	1360	772	713	1070	5.4	54	1610	1110	2070	123
3	635	2030	975	772	707	1060	9.2	116	1110	1060	1940	125
4	825	2240	974	772	707	1050	597	111	495	940	1840	124
5	818	2650	997	772	706	1040	1630	131	369	1120	1750	124
6	815	2670	979	770	701	1030	1610	168	373	854	1640	123
7	383	2460	969	764	698	1010	1590	182	1450	848	1550	124
8	128	2300	983	764	698	996	1560	141	2260	842	1460	124
9	128	2180	247	764	695	976	1540	97	3070	839	1260	125
10	128	2120	15	758	757	1210	1520	67	2280	835	1170	124
11	330	2100	8.9	522	834	1290	1500	50	1170	833	1300	123
12	1000	2080	7.3	6.1	829	1240	1480	31	757	828	2170	124
13	994	2070	6.5	458	823	1170	1440	26	883	825	1060	124
14	1210	2060	6.0	753	817	1110	1400	18	2030	1060	482	124
15	1950	1420	6.0	753	813	1040	1360	15	2470	1190	971	124
16	2670	1040	302	751	807	971	1330	17	1880	1180	1230	124
17	2750	1040	798	748	802	896	1310	34	629	1350	1210	124
18	2620	1030	793	747	798	824	1330	45	58	2480	688	124
19	2440	1030	792	743	790	755	562	42	52	2800	363	125
20	2310	1030	797	745	785	454	34	43	60	2710	552	126
21	2460	336	792	742	686	16	18	38	74	1440	1080	126
22	2660	13	789	738	645	9.3	12	36	479	931	1070	126
23	2020	11	789	738	642	7.3	13	36	690	1290	982	126
24	2430	11	789	730	967	6.7	15	35	682	1420	967	126
25	2460	13	789	730	1140	6.7	18	38	673	2010	136	126
26	2420	548	789	729	1130	7.0	21	35	671	2330	135	126
27	2270	1480	785	724	1100	7.0	19	46	823	2270	136	131
28	2460	2040	781	722	1090	8.2	15	238	902	2220	182	134
29	2740	2020	781	721	---	6.2	14	1330	1120	2170	491	136
30	2640	1940	780	718	---	6.0	16	1660	1120	1730	1160	136
31	2600	---	779	717	---	5.4	---	1660	---	1840	1140	---
TOTAL	50319	46702	21638.7	21919.1	22594	20357.8	21975.5	6574	31860	44475	35105	4293
MEAN	1623	1557	698	707	807	657	733	212	1062	1435	1132	143
MAX	2750	2670	1980	776	1140	1290	1630	1660	3070	2800	2920	642
MIN	128	11	6.0	6.1	642	5.4	5.4	15	52	825	135	123
MEAN*	288	565	906	297	210	743	1723	3083	846	191	164	240
CFSM*	.55	1.09	1.74	.57	.40	1.43	3.31	5.93	1.63	.37	.32	.46
IN.*	.64	1.22	2.01	.66	.42	1.65	3.69	6.84	1.82	.42	.36	.52
CAL YR 1974 TOTAL	510117.7			MEAN 1398	MAX 11700	MIN 6.0	MEAN* 1146	CFSM* 888	2.20	IN.* 29.92		
WTR YR 1975 TOTAL	327813.1			MEAN 898	MAX 3070	MIN 5.4	MEAN* 888	CFSM* 1.71	1.71	IN.* 20.25		

* Adjusted for change in contents in Flagstaff Lake.

01045000 DEAD RIVER AT THE FORKS, MAINE

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

DRAINAGE AREA.--872 mi² (2,258 km²).

WATER DISCHARGE RECORDS

PERIOD OF RECORD.--September 1901 to August 1907, March 1910 to current year. Monthly discharge only for some periods, published in WSP 1301.

GAGE.- Water-stage recorder. Datum of gage is 600.5 ft (183.03 m) above mean sea level. Prior to September 29, 1923, nonrecording gage at site 100 ft (30 m) downstream at same datum.

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

REMARKS.--Records excellent except those for winter period, which are fair. Flow regulated by Flagstaff Lake (see sta. 01043000, p.115). Records of water analyses for the water year 1975 are published on page 165.

AVERAGE DISCHARGE.--70 years (1902-7, 1910-75), 1.443 ft³/s (40.87 m³/s), 22.47 in/yr (571 mm/yr), unadjusted.

EXTREMES.--Period of record: Maximum discharge, 28,700 ft³/s (813 m³/s) Mar. 20, 1936 (gage height, 10.54 ft or 3.213 m) from rating curve extended above 15,000 ft³/s (425 m³/s); minimum daily since September 1923, 61 ft³/s (1.73 m³/s) Dec. 23, 1968.

Current year: Maximum discharge, 4,550 ft³/s (129 m³/s) June 9 (gage height, 4.50 ft or 1.372 m); minimum daily, 219 ft³/s (6.20 m³/s) Sept. 11.

DISCHARGE, IN CUBIC FEET PER SECOND. WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	781	2780	2510	1100	980	1170	486	1940	2510	1230	3210	998
2	738	2530	2120	1110	960	1150	417	2970	2450	1220	2190	379
3	740	2240	1440	1310	950	1140	386	3230	2020	1220	2020	398
4	1010	2240	1430	1380	940	1120	391	3760	1300	1060	1880	454
5	1000	2720	1500	1370	930	1110	2080	3410	983	1210	1780	353
6	976	2900	1580	1370	920	1110	1870	3590	1040	1060	1670	296
7	845	2680	1570	1470	920	1070	1830	3880	2520	976	1570	268
8	334	2490	1380	1470	920	1060	1790	3440	3640	965	1470	252
9	273	2330	1940	1290	920	1040	1750	3320	4390	991	1320	245
10	266	2230	1970	1240	960	1160	1720	3250	3490	1110	1180	231
11	260	2190	1470	956	1000	1330	1690	3320	2230	1090	1140	219
12	840	2180	1040	364	1050	1280	1670	3310	1380	1110	2100	227
13	1060	2260	810	398	1050	1210	1650	3460	1880	1080	1570	271
14	1140	2390	680	1190	1050	1180	1620	3470	3040	1170	566	297
15	1660	2090	525	1150	1050	1110	1630	2870	3520	1390	745	302
16	2710	1490	472	1150	1030	1050	1730	2560	2920	1390	1220	274
17	3000	1380	1280	1130	1030	985	1890	2400	1730	1340	1190	248
18	2850	1310	1370	1120	1030	925	2180	1910	682	2370	982	231
19	2670	1270	1280	1120	1020	881	2310	1650	585	3050	442	233
20	2500	1240	1260	1100	1050	956	2350	1560	530	2940	422	293
21	2470	1020	1250	1130	1050	624	2310	1380	487	2230	993	341
22	2790	370	1230	1150	950	741	1740	1160	579	1170	1080	285
23	2330	354	1210	1150	900	869	1510	1000	1010	1380	1020	261
24	2500	357	1100	1130	1100	855	1790	873	972	1540	1120	249
25	2540	330	1120	1120	1400	790	1690	730	933	1870	506	255
26	2600	569	1160	1100	1350	784	1780	658	908	2490	264	257
27	2450	1780	1290	1100	1300	735	1770	1010	965	2410	292	434
28	2450	3000	1410	1100	1250	727	1560	1730	1050	2350	356	651
29	2830	2840	1490	1050	---	638	1350	2680	1210	2280	292	504
30	2870	2560	1330	1050	---	553	1310	2680	1250	1960	1170	418
31	2730	---	1160	1000	---	490	---	2600	---	1570	1380	---
TOTAL	54213	56120	41377	34868	29060	29843	48250	75801	52204	49222	37140	10124
MEAN	1749	1871	1335	1125	1038	963	1608	2445	1740	1588	1198	337
MAX	3000	3000	2510	1470	1400	1330	2350	3880	4390	3050	3210	998
MIN	260	330	472	364	900	490	386	658	487	965	264	219
MEAN*	414	879	1543	715	441	1049	2598	5316	1524	344	230	434
CFSM*	.48	1.01	1.77	.82	.51	1.20	2.98	6.10	1.75	.39	.26	.50
IN.*	.55	1.13	2.04	.94	.53	1.38	3.32	7.03	1.95	.45	.30	.56
CAL YR 1974 TOTAL	765444											
WTR YR 1975 TOTAL	518222											
MEAN 2097												
MAX 1420												
MIN 234												
MEAN* 1845												
MEAN* 1410												
CFSM* 2.12												
CFSM* 1.62												
IN.* 28.74												
IN.* 20.18												

* Adjusted for change in contents in Flagstaff Lake.

KENNEBEC RIVER BASIN

01046500 KENNEBEC RIVER AT BINGHAM, MAINE

(National Stream-Quality Accounting Network Station)

LOCATION.--Lat 45°03'06", long 69°53'12", Somerset County, on right bank at Bingham, 200 ft (60 m) downstream from highway bridge, 0.4 mi (0.6 km) downstream from Austin Stream, and 1.6 mi (2.6 km) downstream from Wyman Dam.

DRAINAGE AREA.--2,720 mi² (7,045 km²).

WATER DISCHARGE RECORDS

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

GAGE.--Water-stage recorder. Datum of gage is 330.2 ft (100.64 m) above mean sea level. June 1907 to June 1910, nonrecording gage on highway bridge at different datum.

REVISIONS (WATER YEARS)--WSP 1271: 1951 (M). WSP 1301: 1936 (M). WSP 1901: Drainage area.

REMARKS.--Records excellent. Flow regulated by Moosehead Lake (see sta. 01040500, p.97), Brassua and Flagstaff Lakes, First Roach, Indian, Moxie, and Wyman Ponds (see p.115). Considerable diurnal fluctuation caused by powerplant above station.

AVERAGE DISCHARGE.--47 years (1907-8, 1930-75), 4,406 ft³/s (124.8 m³/s), 22.00 in/yr (559 mm/yr), unadjusted.

EXTREMES.--Period of record: Maximum discharge, 58,800 ft³/s (1,670 m³/s) Mar. 20, 1936 (gage height, 14.44 ft or 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.

Current year: Maximum discharge, 14,300 ft³/s (405 m³/s) June 9 (gage height, 9.96 ft or 3.036 m); minimum daily, 2,400 ft³/s (68.0 m³/s) Sept. 28.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	4030	3480	3120	3340	3860	3740	3760	4680	8580	3480	4020	3410
2	4110	3720	3630	3450	3860	3650	3640	4840	8760	3930	3860	3400
3	3840	3740	3260	3520	3960	3630	3750	6310	8350	3900	3780	3580
4	3960	3590	3110	3430	3890	3800	4370	8400	8050	2930	3960	3020
5	4140	3630	2990	3400	3780	3980	4610	8670	5460	2880	4030	3530
6	3630	3700	3290	3550	3640	3800	4690	9370	5710	2700	4090	3620
7	3920	3640	2870	4020	3600	3620	5120	9400	8880	3780	4010	3320
8	4170	3700	3110	3980	3800	3570	5100	9290	9690	4290	3910	3410
9	4190	3670	5720	4010	3700	4300	5060	9130	13300	3970	3880	3440
10	4140	3670	5900	4060	3740	3640	5070	8990	11500	4000	3760	3430
11	4140	3480	5160	3150	3820	3820	5050	7880	9120	3980	4070	3350
12	4120	3550	4750	3170	3670	4160	4950	7290	8250	3920	4030	3200
13	3600	3640	4770	3190	3750	3670	5000	5690	10000	3810	4040	3500
14	3910	3250	4230	2950	3930	4110	5060	5490	13900	3920	4060	3200
15	4120	3200	2490	3100	3730	3880	5060	5280	13000	3900	3960	3200
16	3920	2960	3290	3620	3910	3980	5560	5690	11500	3620	3750	3200
17	4110	3010	3230	3600	3700	3820	5820	5480	8380	3710	3660	3200
18	3460	3040	3140	3670	3640	3970	7040	5150	5010	3520	3710	3150
19	3500	3140	3070	3670	3600	3750	8120	4980	3850	3650	3870	3200
20	3540	3280	2870	3800	3730	3760	7310	6700	4210	3800	3800	3200
21	3980	3110	2640	3650	3690	3690	7730	8120	4140	3920	3920	3200
22	3860	3130	2790	3660	3710	3880	7060	5950	3950	3720	3820	3150
23	4400	2520	3000	3640	3760	3680	6700	5890	3570	3700	3540	3000
24	3480	2490	3180	3720	3740	3620	6600	5830	3090	3710	3790	3300
25	3680	3000	3100	3580	3780	3600	6670	5600	3550	3570	3670	3300
26	3760	2730	3250	3650	3680	3570	6720	5030	3570	3640	3860	3200
27	3730	3010	3410	3800	3780	3900	5070	4440	3650	3480	3730	2850
28	3470	3000	3370	3660	3610	3890	5090	6330	3570	3940	3700	2400
29	3680	3100	3330	3560	---	4080	5030	8720	3510	3890	3170	3000
30	3660	3130	3450	3770	---	3610	4660	8630	3650	4470	3630	3320
31	3720	---	3510	4010	---	3660	---	8610	---	4260	3350	---
TOTAL	119970	98310	109030	111380	105060	117830	165470	211860	211750	115990	118430	97280
MEAN	3870	3277	3517	3593	3752	3801	5516	6834	7058	3742	3820	3243
MAX	4400	3740	5900	4060	3960	4300	8120	9400	13900	4470	4090	3620
MIN	3460	2490	2490	2950	3600	3570	3640	4440	3090	2700	3170	2400
MEAN*	640	2458	4650	1948	1382	3469	8411	16330	6454	1083	267	1000
CFSM*	.24	.90	1.71	.72	.51	1.28	3.09	6.00	2.37	.40	.10	.37
IN.*	.27	1.01	1.97	.83	.53	1.48	3.45	6.92	2.64	.46	.11	.41

CAL YR 1974	TOTAL	2330640	MEAN	6385	MAX	45400	MIN	2490	MEAN*	5709	CFSM*	2.10	IN.*	28.48
WTR YR 1975	TOTAL	1582360	MEAN	4335	MAX	13900	MIN	2400	MEAN*	4023	CFSM*	1.48	IN.*	20.08

* Adjusted for change in contents in Brassua, Moosehead, and Flagstaff Lakes, and First Roach, Indian, Moxie and Wyman Ponds.

01046500 KENNEBEC RIVER AT BINGHAM, MAINE--Continued

WATER QUALITY RECORDS

PERIOD OF RECORD.--WATER ANALYSES: January 1966 to current year.

WATER ANALYSES, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	SPECIFIC CONDUCTANCE (MICRO-MHOS)	PH (UNITS)	TEMPERATURE (DEG C)	DISSOLVED OXYGEN (MG/L)	DISSOLVED OXYGEN SATURATION (%)	IMMEDIATE COLIFORM (COL. PER 100 ML)	FECAL COLIFORM (COL. PER 100 ML)	STREPTOCOCCI (COLONIES PER 100 ML)	TOTAL PHOSPHORUS (P) (MG/L)	TOTAL NITROGEN (N) (MG/L)
OCT. 29...	1415	6560	39	6.7	8.0	10.6	89	820	84	82	.01	.26
NOV. 19...	1500	2470	39	6.7	5.5	11.1	87	15	81	80	.01	.37
DEC. 18...	1430	3090	38	6.6	1.0	11.8	83	85	82	82	.01	.45
JAN. 27...	1415	4080	41	6.6	.5	12.2	85	82	80	80	.01	.33
FEB. 19...	1530	1580	32	6.6	.5	12.0	83	81	80	80	.01	.32
MAR. 25...	1500	7060	41	6.6	.5	13.0	90	86	81	81	.01	.40
APR. 28...	1415	8080	41	6.4	2.5	11.2	82	83	80	81	.01	.63
MAY 21...	1515	8760	32	6.5	9.0	11.0	95	24	81	81	.01	.16
JUNE 26...	1400	6020	33	6.6	16.5	8.7	88	640	83	82	.03	.29
JULY 29...	1300	6960	35	6.7	21.5	7.1	80	160	83	813	.01	.33
AUG. 26...	1600	5280	35	6.5	19.0	6.6	70	78	83	87	.01	.25
SEP. 22...	1530	4500	32	6.6	16.0	8.8	88	32	82	83	.01	.21

DATE	TOTAL NITROGEN (NO3) (MG/L)	TOTAL KJEL-DAHL NITROGEN (N) (MG/L)	TOTAL NITRITE PLUS NITRATE (N) (MG/L)	SUSPENDED SEDIMENT (MG/L)	SUS. SED. SIEVE % FINER THAN .062 MM	SUSPENDED SEDIMENT DISCHARGE (T/DAY)	TOTAL ORGANIC CARBON (C) (MG/L)	CARBON DIOXIDE (CO2) (MG/L)	ALKALINITY AS CaCO3 (MG/L)	BICARBONATE (HCO3) (MG/L)	CARBONATE (CO3) (MG/L)	TURBIDITY (JTU)
OCT. 29...	1.2	.17	.09	3	110	53	--	--	--	--	--	--
NOV. 19...	1.6	.27	.10	2	100	13	6.5	3.5	9	11	0	2
DEC. 18...	2.0	.36	.09	4	100	33	--	--	--	--	--	--
JAN. 27...	1.5	.20	.13	3	100	33	--	--	--	--	--	--
FEB. 19...	1.4	.17	.15	2	100	8.5	7.2	4.4	9	11	0	1
MAR. 25...	1.8	.24	.16	1	100	19	--	--	--	--	--	--
APR. 28...	2.8	.42	.21	5	96	109	--	--	--	--	--	--
MAY 21...	.71	.06	.10	2	100	47	5.9	4.0	7	8	0	1
JUNE 26...	1.3	.19	.10	3	100	49	--	--	--	--	--	--
JULY 29...	1.5	.27	.06	1	100	19	--	--	--	--	--	--
AUG. 26...	1.1	.18	.07	1	100	14	7.2	4.6	7	9	0	1
SEP. 22...	.93	.13	.08	1	100	12	--	--	--	--	--	--

KENNEBEC RIVER BASIN

01046500 KENNEBEC RIVER AT BINGHAM, MAINE--Continued

WATER ANALYSES, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975

DATE	HARD- NESS (CA, MG) (MG/L)	NON- CAR- BONATE HARD- NESS (MG/L)	DIS- SOLVED CAL- CIUM (CA) (MG/L)	DIS- SOLVED MAG- NE- SIUM (MG) (MG/L)	DIS- SOLVED SODIUM (NA) (MG/L)	DIS- SOLVED PO- TAS- SIUM (K) (MG/L)	DIS- SOLVED CHLO- RIDE (CL) (MG/L)	DIS- SOLVED SULFATE (SO4) (MG/L)	DIS- SOLVED FLUO- RIDE (F) (MG/L)	DIS- SOLVED SILICA (SiO2) (MG/L)	DIS- SOLVED SOLIDS (RESI- DUED AT 180 C) (MG/L)	DIS- SOLVED SOLIDS (SUM OF CONSTITUENTS) (MG/L)
OCT. 29...	--	--	--	--	--	--	--	--	--	--	--	--
NOV. 19...	15	6	4.5	1.0	1.5	.3	1.3	5.2	.1	3.2	29	23
DEC. 18...	--	--	--	--	--	--	--	--	--	--	--	--
JAN. 22...	--	--	--	--	--	--	--	--	--	--	--	--
FEB. 19...	16	7	4.4	1.1	1.5	.7	2.0	3.8	.1	3.7	31	23
MAR. 25...	--	--	--	--	--	--	--	--	--	--	--	--
APR. 28...	--	--	--	--	--	--	--	--	--	--	--	--
MAY 21...	11	4	3.4	.6	.7	.3	.8	4.0	.1	4.0	20	18
JUNE 26...	--	--	--	--	--	--	--	--	--	--	--	--
JULY 29...	--	--	--	--	--	--	--	--	--	--	--	--
AUG. 26...	16	9	4.8	1.0	.9	.3	2.0	4.6	.3	3.2	34	22
SEP. 22...	--	--	--	--	--	--	--	--	--	--	--	--

DATE	DIS- SOLVED ARSENIC (AS) (UG/L)	SUS- PENDED ARSENIC (AS) (UG/L)	TOTAL ARSENIC (AS) (UG/L)	DIS- SOLVED CAD- MIUM (CD) (UG/L)	SUS- PENDED CAD- MIUM (CD) (UG/L)	TOTAL CAD- MIUM (CD) (UG/L)	DIS- SOLVED CHRO- MIUM (CR) (UG/L)	SUS- PENDED CHRO- MIUM (CR) (UG/L)	TOTAL CHRO- MIUM (CR) (UG/L)	DIS- SOLVED COBALT (CO) (UG/L)	SUS- PENDED COBALT (CO) (UG/L)
NOV. 19...	0	0	0	0	0	0	0	0	0	0	0
FEB. 19...	0	0	0	0	0	0	0	0	0	1	0
MAY 21...	0	0	0	0	0	0	0	<10	<10	0	0
AUG. 26...	0	0	0	0	0	0	<10	0	<10	0	0

DATE	TOTAL COBALT (CO) (UG/L)	DIS- SOLVED COPPER (CU) (UG/L)	SUS- PENDED COPPER (CU) (UG/L)	TOTAL COPPER (CU) (UG/L)	DIS- SOLVED IRON (FE) (UG/L)	TOTAL IRON (FE) (UG/L)	DIS- SOLVED LEAD (PB) (UG/L)	SUS- PENDED LEAD (PB) (UG/L)	TOTAL LEAD (PB) (UG/L)	DIS- SOLVED MAN- GANESE (MN) (UG/L)	SUS- PENDED MAN- GANESE (MN) (UG/L)
NOV. 19...	0	0	0	0	110	260	2	0	2	10	20
FEB. 19...	1	10	0	0	80	160	5	4	9	10	0
MAY 21...	0	10	10	20	30	110	6	17	23	10	20
AUG. 26...	0	10	0	10	50	150	7	93	100	20	20

DATE	TOTAL MAN- GANESE (MN) (UG/L)	DIS- SOLVED MERCURY (HG) (UG/L)	SUS- PENDED MERCURY (HG) (UG/L)	TOTAL MERCURY (HG) (UG/L)	DIS- SOLVED SELE- NIUM (SE) (UG/L)	SUS- PENDED SELE- NIUM (SE) (UG/L)	TOTAL SELE- NIUM (SE) (UG/L)	DIS- SOLVED ZINC (ZN) (UG/L)	SUS- PENDED ZINC (ZN) (UG/L)	TOTAL ZINC (ZN) (UG/L)	DIS- SOLVED SOLIDS (TONS PER DAY)
NOV. 19...	30	<.5	.0	<.5	0	0	0	0	0	0	193
FEB. 19...	10	<.5	.0	<.5	0	1	1	10	0	0	132
MAY 21...	30	<.5	.0	<.5	0	0	0	10	10	20	473
AUG. 26...	40	<.5	.0	<.5	1	0	1	10	0	10	485

01046500 KENNEBEC RIVER AT BINGHAM, MAINE--Continued

QUALITATIVE AND QUANTITATIVE ANALYSES OF BIOLOGICAL DATA, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975

PHYTOPLANKTON

DATE	TIME	ORGANISM	COUNT (CELLS/ML)	PERCENT OF TOTAL	SAMPLING METHOD
OCT. 29	1415	CHRYSOPHYTA			DEPTH INTEGRATED
		..BACILLARIOPHYCEAE			
		...CENTRALES			
		...COSCINODISCACEAE			
		CYCLOTELLA	91	12	
		...PENNALES			
		...FRAGILARIACEAE			
		ASTERIONELLA	130	17	
		HANNAEA	18	2	
		SYNEDRA	73	10	
		...NAVICULACEAE			
		NAVICULA	36	5	
		..CHRYSOPHYCEAE			
		..CHRYSOMONADALES			
		...OCHROMONADACEAE			
		DINOBYRON	91	12	
		CYANOPHYTA			
		..MYXOPHYCEAE			
		..OSCILLATORIALES			
		...NOSTOCACEAE			
		ANABAENA	290	40	
		TOTAL	730		
NOV. 19	1500	CHLOROPHYTA			DEPTH INTEGRATED
		..CHLOROPHYCEAE			
		...CHLOROCOCCALES			
		...OCCYSTACEAE			
		ANKISTRODESMUS	1	4	
		...SCENEDESMACEAE			
		SCENEDESMUS	1	6	
		CHRYSOPHYTA			
		..BACILLARIOPHYCEAE			
		...CENTRALES			
		...COSCINODISCACEAE			
		CYCLOTELLA	7	30	
		MELOSIRA		2	
		...RHIZOSOLENACEAE			
		RHIZOSOLENIA	3	11	
		...PENNALES			
		...ACHNANTHACEAE			
		ACHNANTHES	1	5	
		...FRAGILARIACEAE			
		ASTERIONELLA	4	15	
		...GOMPHONEMACEAE			
		GOMPHONEMA		1	
		...NITZSCHACEAE			
		NITZSCHIA	4	15	
		...TABELLARIACEAE			
		TABELLARIA	1	3	
		..CHRYSOPHYCEAE			
		..CHRYSOMONADALES			
		...OCHROMONADACEAE			
		DINOBYRON	2	8	
		PYRRHOPHYTA			
		..DINOPHYCEAE			
		...PERIDINIALES			
		...GLENODINIACEAE			
		GLENODINIUM		1	
		TOTAL	24		
DEC. 18	1430	CHRYSOPHYTA			DEPTH INTEGRATED
		..BACILLARIOPHYCEAE			
		...CENTRALES			
		...COSCINODISCACEAE			
		CYCLOTELLA	50	8	
		...RHIZOSOLENACEAE			
		RHIZOSOLENIA	10	2	
		...PENNALES			
		...ACHNANTHACEAE			
		ACHNANTHES	30	5	
		...FRAGILARIACEAE			
		ASTERIONELLA	60	9	
		SYNEDRA	10	2	
		...NAVICULACEAE			
		NAVICULA	10	2	
		...NITZSCHACEAE			
		NITZSCHIA	50	8	
		..CHRYSOPHYCEAE			
		..CHRYSOMONADALES			
		...OCHROMONADACEAE			
		DINOBYRON	50	8	
		CYANOPHYTA			
		..MYXOPHYCEAE			
		...CHROOCOCCALES			
		...CHROOCOCCACEAE			
		AGMENELLUM	80	12	
		ANACYSTIS	300	46	
		TOTAL	650		

QUALITATIVE AND QUANTITATIVE ANALYSES OF BIOLOGICAL DATA, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975

PHYTOPLANKTON

DATE	TIME	ORGANISM	COUNT (CELLS/ML)	PERCENT OF TOTAL	SAMPLING METHOD
JAN. 22	1415	CHRYSTOPHYTA ..BACILLARIOPHYCEAE ..CENTRALES ...COSCINODISCACEAECYCLOTELLAMELOSIRA ..PENNALES ...ACHNANTHACEAEACHNANTHES ...FRAGILARIACEAEASTERIONELLATABELLARIACEAETABELLARIA ..CHRYSTOPHYCEAE ..CHRYSONOMADALES ...OCHROMONADACEAEDINOBRYON CYANOPHYTA ..MYXOPHYCEAE ..CHROOCOCCALES ...CHROOCOCCACEAEANACYSTIS TOTAL	15 15 23 38 8 8 410 520	3 3 4 7 1 1 79	DEPTH INTEGRATED
FEB. 19	1530	CHRYSTOPHYTA ..BACILLARIOPHYCEAE ..CENTRALES ...COSCINODISCACEAECYCLOTELLASKELETONEMA ..PENNALES ...ACHNANTHACEAEACHNANTHES ...DIATOMACEAEDIATOMA ...EUNOTIACEAEEUNOTIA ...FRAGILARIACEAEASTERIONELLA ...NITZSCHACEAENITZSCHIA CYANOPHYTA ..MYXOPHYCEAE ..CHROOCOCCALES ...CHROOCOCCACEAEGOMPHOSPHERIA TOTAL	17 17 9 9 17 26 17 270 380	4 4 2 2 4 7 4 71	DEPTH INTEGRATED
MAR. 25	1500	CHRYSTOPHYTA ..BACILLARIOPHYCEAE ..PENNALES ...ACHNANTHACEAEACHNANTHES ...FRAGILARIACEAEASTERIONELLA ...GOMPHONEMACEAEGOMPHONEMATABELLARIACEAETABELLARIA TOTAL	22 22 7 7 58	37 37 12 12	DEPTH INTEGRATED
APR. 28	1415	CHRYSTOPHYTA ..BACILLARIOPHYCEAE ..CENTRALES ...COSCINODISCACEAECYCLOTELLA ..PENNALES ...ACHNANTHACEAEACHNANTHES ...DIATOMACEAEDIATOMA ...FRAGILARIACEAEASTERIONELLA ...NITZSCHACEAENITZSCHIATABELLARIACEAETABELLARIA ..CHRYSTOPHYCEAE ..CHRYSONOMADALES ...OCHROMONADACEAEDINOBRYON TOTAL	29 50 14 7 22 14 7 140	20 35 10 5 15 10 5	DEPTH INTEGRATED

01046500 KENNEBEC RIVER AT BINGHAM, MAINE--Continued

QUALITATIVE AND QUANTITATIVE ANALYSES OF BIOLOGICAL DATA, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975

PHYTOPLANKTON

DATE	TIME	ORGANISM	COUNT (CELLS/ML)	PERCENT OF TOTAL	SAMPLING METHOD
MAY 21	1515	CHRYSTOPHYTA			DEPTH INTEGRATED
		.BACILLARIOPHYCEAE			
		..PENNALES			
		...ACHNANTHACEAE			
		COCCONEIS	45	33	
		...DIATOMACEAE			
		DIATOMA	45	33	
		...FRAGILARIACEAE			
		SYNEDRA	11	8	
		...NAVICULACEAE			
		NAVICULA	11	8	
		...TABELLARIACEAE			
		TABELLARIA	22	17	
		TOTAL	130		
JUNE 26	1400	CHLOROPHYTA			DEPTH INTEGRATED
		.CHLOROPHYCEAE			
		..CHLOROCOCCALES			
		...SCENEDESMACEAE			
		CRUCIGENIA	120	18	
		SCENEDESMUS	15	2	
		CHRYSTOPHYTA			
		.BACILLARIOPHYCEAE			
		..PENNALES			
		...NAVICULACEAE			
		NAVICULA	8	1	
		...NITZSCHIA			
		NITZSCHIA	23	3	
		...TABELLARIACEAE			
		TABELLARIA	15	2	
		CHRYSTOPHYCEAE			
		..CHRYDOMONADACEAE			
		...OCHROMONADACEAE			
		DINOBRYON	91	13	
		CYANOPHYTA			
		.MYXOPHYCEAE			
		..CHROOCOCCALES			
		...CHROOCOCCACEAE			
		ANACYSTIS	400	60	
		TOTAL	670		
JULY 29	1300	CHLOROPHYTA			DEPTH INTEGRATED
		.CHLOROPHYCEAE			
		..CHLOROCOCCALES			
		...SCENEDESMACEAE			
		CRUCIGENIA	780	84	
		...ZYGNEATALES			
		...DESMIDIACEAE			
		ARTHRODESMUS	8	1	
		CHRYSTOPHYTA			
		.BACILLARIOPHYCEAE			
		..CENTRALES			
		...COSCINODISCACEAE			
		MELOSIRA	25	3	
		..PENNALES			
		...ACHNANTHACEAE			
		ACHNANTHES	8	1	
		...NITZSCHIA			
		NITZSCHIA	8	1	
		...TABELLARIACEAE			
		TABELLARIA	17	2	
		CYANOPHYTA			
		.MYXOPHYCEAE			
		..CHROOCOCCALES			
		...CHROOCOCCACEAE			
		ANACYSTIS	76	8	
		TOTAL	920		

QUALITATIVE AND QUANTITATIVE ANALYSES OF BIOLOGICAL DATA, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975

PHYTOPLANKTON

DATE	TIME	ORGANISM	COUNT (CELLS/ML)	PERCENT OF TOTAL	SAMPLING METHOD
AUG. 26	1600	CHLOROPHYTA			DEPTH INTEGRATED
		..CHLOROPHYCEAE			
		..CHLOROCOCCALES			
		...OCCYSTACEAE			
		ANKISTRODESMUS	6	4	
		...SCENEDESMACEAE			
		CRUCIGENIA			
		SCENEDESMUS			
		CHRYSOPHYTA			
		..BACILLARIOPHYCEAE			
		..CENTRALES			
		...COSCINODISCACEAE			
		MELOSIRA	24	17	
		..PENNALES			
		...ACHNANTHACEAE			
		ACHNANTHES	12	9	
		...CYMBELLACEAE			
		CYMBELLA			
		...FRAGILARIACEAE			
		ASTERIONELLA	43	30	
		FRAGILARIA			
		...GOMPHONEMACEAE			
		GOMPHONEMA			
		...NITZSCHIA			
		NITZSCHIA	30	22	
		...TABELLARIACEAE			
		TABELLARIA	12	9	
		..CHRYSOPHYCEAE			
		...CHRYSONOMADACEAE			
		OCHROMONADACEAE			
		DINOBRYON	12	9	
		TOTAL	140		
SEP. 22	1530	CHLOROPHYTA			DEPTH INTEGRATED
		..CHLOROPHYCEAE			
		..CHLOROCOCCALES			
		...OCCYSTACEAE			
		ANKISTRODESMUS			
		...SCENEDESMACEAE			
		SCENEDESMUS			
		..TETRASPORALES			
		...PALMELLACEAE			
		GLOEOCYSTIS			
		CHRYSOPHYTA			
		..BACILLARIOPHYCEAE			
		..PENNALES			
		...ACHNANTHACEAE			
		ACHNANTHES	51	20	
		...FRAGILARIACEAE			
		ASTERIONELLA	51	20	
		...NITZSCHIA			
		NITZSCHIA	38	15	
		...TABELLARIACEAE			
		TABELLARIA			
		..CHRYSOPHYCEAE			
		...CHRYSONOMADACEAE			
		OCHROMONADACEAE			
		DINOBRYON	13	5	
		CYANOPHYTA			
		..MYXOPHYCEAE			
		...CHROOCOCCALES			
		CHROOCOCCACEAE			
		ANACYSTIS	100	40	
		TOTAL	250		

PERIPHYTON

DATE	LENGTH OF EXPOSURE (DAYS)	BIOMASS(G/SQ M)		CHLOROPHYLL A (MG/SQ M)	CHLOROPHYLL B (MG/SQ M)	BIOMASS PIGMENT RATIO	SAMPLING METHOD
		DRY WEIGHT	ASH WEIGHT				
NOV. 19	21	2.3	0.8	0.6	0.6	2563	POLYETHYLENE STRIP
JUNE 26	36	5.8	5.7	0.4	0.2	190	POLYETHYLENE STRIP

01047000 CARRABASSETT RIVER NEAR NORTH ANSON, MAINE

LOCATION.--Lat 44°52'09", long 69°57'20", Somerset County, on left bank 3.4 mi (5.5 km) upstream from Mill Stream and North Anson.

DRAINAGE AREA.--354 mi² (917 km²).

WATER DISCHARGE RECORDS

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.

GAGE.--Water-stage recorder. Datum of gage is 303.3 ft (92.45 m) above mean sea level. November 1, 1901, to May 5, 1907, nonrecording gage 1 mi (2 km) upstream at different datum.

REVISIONS (WATER YEARS).--WSP 851: Drainage area. WSP 1231: 1904-7, 1928 (M), 1932 (M), 1936 (M), 1938 (M), 1944 (M), 1950 (M).

REMARKS.--Records excellent except those for winter period, which are fair. Some regulation at low flows by mills above station.

AVERAGE DISCHARGE.--54 years (1902-6, 1925-75), 708 ft³/s (20.05 m³/s), 27.16 in/yr (690 mm/yr).

EXTREMES.--Period of record: Maximum discharge, 30,800 ft³/s (872 m³/s) Mar. 19, 1936 (gage height, 21.17 ft or 6.453 m); minimum, 18 ft³/s (0.51 m³/s) Oct. 29, 1929 (gage height, 2.02 ft or 0.616 m).

REVISIONS.--The maximum discharge for the water year 1951 has been revised to 20,100 ft³/s (569 m³/s) Apr. 4, 1951 (gage height, 16.98 ft or 5.176 m), superseding figure published in WSP 1201 and 1721.

Current year: Peak discharges above base of 6,000 ft³/s (170 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. 9	0600	ice jam	*11.34 3.456	Dec. 9	-	*5,500 156	- -

No peaks above base.

Minimum discharge, 54 ft³/s (1.53 m³/s) Aug. 20, gage height, 2.54 ft (0.774 m).

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	279	168	400	315	235	460	800	2360	534	138	83	131
2	233	170	480	300	230	400	720	3220	763	130	79	94
3	338	160	1000	295	225	360	640	2980	595	134	76	100
4	311	156	800	290	220	335	680	2970	535	142	92	134
5	275	190	600	280	220	310	780	2690	703	135	94	98
6	253	304	530	275	230	300	700	2680	794	125	89	81
7	244	310	500	285	240	300	580	2610	3350	117	81	75
8	214	262	640	300	230	300	520	2220	1850	111	78	73
9	191	233	5100	300	220	290	500	2390	1400	109	75	79
10	179	213	3300	300	210	280	486	2030	1070	184	69	95
11	169	198	2200	330	205	270	495	1970	834	200	65	86
12	163	198	1500	420	200	265	497	1860	676	161	65	78
13	157	742	1000	510	190	260	562	1900	1880	196	98	111
14	151	1120	769	430	185	260	611	1650	4170	438	95	136
15	160	772	679	380	180	260	846	1460	2810	287	77	114
16	216	675	630	340	180	260	1220	1410	1830	219	66	96
17	263	554	590	300	175	270	1610	1220	1290	183	61	84
18	290	478	550	260	180	280	2230	1010	947	149	60	77
19	264	426	520	280	195	310	3310	1010	813	127	58	81
20	227	391	490	295	210	450	4280	1010	634	118	56	165
21	200	1020	470	280	210	4500	3260	969	472	125	55	227
22	186	1010	450	265	210	3100	2270	829	412	200	58	152
23	180	749	420	250	240	2500	2120	708	375	160	67	120
24	176	654	400	240	290	2100	2750	756	340	123	66	113
25	170	646	390	250	390	2500	2590	592	304	125	63	112
26	168	849	375	280	500	2200	3380	469	275	145	65	117
27	168	700	360	290	560	1800	2800	714	251	112	69	483
28	161	600	460	280	520	1500	2190	1150	212	98	71	625
29	153	510	400	270	---	1300	1810	822	162	100	63	351
30	155	460	355	260	---	1100	1670	587	150	107	77	252
31	157	---	330	245	---	950	---	530	---	94	185	---
TOTAL	6451	14918	26688	9395	7080	29770	46907	48776	30431	4792	2356	4540
MEAN	208	497	861	303	253	960	1564	1573	1014	155	76.0	151
MAX	338	1120	5100	510	560	4500	4280	3220	4170	438	185	625
MIN	151	156	330	240	175	260	486	469	150	94	55	73
CFSM	.59	1.40	2.43	.86	.71	2.71	4.42	4.44	2.86	.44	.21	.43
IN.	.68	1.57	2.80	.99	.74	3.13	4.93	5.13	3.20	.50	.25	.48

CAL YR 1974	TOTAL	329313	MEAN 902	MAX 8520	MIN 114	CFSM 2.55	IN 34.61
WTR YR 1975	TOTAL	232104	MEAN 636	MAX 5100	MIN 55	CFSM 1.80	IN 24.39

KENNEBEC RIVER BASIN

01048000 SANDY RIVER NEAR MERCER, MAINE

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

DRAINAGE AREA.--514 mi² (1,331 km²).

WATER DISCHARGE RECORDS

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

GAGE.--Water-stage recorder. Datum of gage is 197.1 ft (60.08 m) above mean sea level.

REVISIONS (WATER YEARS).--WSP 756: 1933. WSP 801: Drainage area. WSP 1231: 1936 (M).

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

AVERAGE DISCHARGE.--47 years, 954 ft³/s (27.02 m³/s), 25.20 in/yr (640 mm/yr).

EXTREMES.--Period of record: Maximum discharge, 38,600 ft³/s (1,090 m³/s) Mar. 19, 1936 (gage height, 16.75 ft or 5.105 m), from rating curve extended above 13,000 ft³/s (368 m³/s) on basis of records for stations on Kennebec River at Bingham and Waterville, Carrabassett River near North Anson, and Sebasticook River near Pittsfield; maximum gage height, 18.89 ft (5.758 m) Feb. 12, 1970, from floodmark (backwater from ice); minimum discharge, 32 ft³/s (0.91 m³/s) Sept. 22-26, 1939 (gage height, 2.15 ft or 0.655 m).

Current year: Peak discharges above base of 6,000 ft³/s (170 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. 9	1700	*12,400	351	*9.78	2.981	Apr. 26	1000	6,060	172	7.38	2.249
Mar. 21	1400	10,100	286	8.97	2.734	June 7	1000	6,420	182	7.53	2.295
Apr. 20	0800	7,290	206	7.89	2.405	June 14	0500	7,000	198	7.77	2.368

Minimum discharge, 71 ft³/s (2.01 m³/s) Aug. 22, 23, gage height, 2.51 ft (0.765 m).

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	563	200	620	500	360	600	1300	3260	735	227	151	215
2	404	209	584	480	350	560	1100	4350	932	208	142	164
3	415	204	1330	460	340	520	950	3870	875	199	152	147
4	441	199	1980	450	320	480	772	4040	743	204	156	171
5	390	235	1250	440	310	450	880	3340	1090	229	153	174
6	329	431	957	440	320	430	960	3170	1350	213	144	138
7	296	525	814	440	320	420	880	3320	5260	196	132	125
8	266	427	806	450	310	410	820	2810	2750	180	124	117
9	232	363	7650	470	290	400	780	2460	1790	174	119	130
10	211	323	6040	480	290	390	750	2210	1360	185	112	122
11	197	292	2840	530	280	380	750	2150	1050	269	105	134
12	188	285	2010	600	280	370	770	2030	850	368	105	125
13	182	658	1630	680	270	370	820	1930	2520	479	118	133
14	176	1530	1400	620	270	365	920	1860	5940	1330	117	184
15	176	977	1050	540	270	360	1100	1550	3080	1340	111	175
16	198	783	900	490	260	360	1500	1390	2160	986	99	145
17	381	645	860	450	260	380	2100	1280	1710	722	91	129
18	456	550	800	430	270	440	3500	1070	1370	567	86	117
19	455	495	750	440	280	540	5000	946	1130	453	82	116
20	374	462	710	460	300	1790	6940	884	928	370	78	211
21	316	1700	670	450	310	6560	5750	820	775	334	75	478
22	277	1830	650	430	300	4940	3870	742	653	356	74	321
23	252	1190	620	420	300	3580	3590	666	568	385	73	246
24	249	1010	600	410	320	3130	4640	630	503	289	74	220
25	238	960	580	400	370	2990	4320	584	459	316	83	215
26	228	1410	560	400	500	3910	5370	522	387	298	84	212
27	221	1060	580	410	740	2910	4640	807	343	248	83	722
28	214	901	600	420	680	2290	3550	1800	313	209	85	1280
29	202	818	570	410	---	2030	2830	1280	280	225	89	660
30	195	720	540	390	---	1750	2550	857	255	182	114	464
31	196	---	520	370	---	1500	---	725	---	163	154	---
TOTAL	8918	21392	41471	14360	9470	45605	73702	57353	42159	11904	3365	7790
MEAN	288	713	1338	463	338	1471	2457	1850	1405	384	109	260
MAX	563	1830	7650	680	740	6560	6940	4350	5940	1340	156	1280
MIN	176	199	520	370	260	360	750	522	255	163	73	116
CFSM	.56	1.39	2.60	.90	.66	2.86	4.78	3.60	2.73	.75	.21	.51
IN.	.65	1.55	3.00	1.04	.69	3.30	5.33	4.15	3.05	.86	.24	.56

CAL YR 1974	TOTAL	451950	MEAN	1238	MAX	11700	MIN	122	CFSM	2.41	IN	32.71
WTR YR 1975	TOTAL	337489	MEAN	925	MAX	7650	MIN	73	CFSM	1.80	IN	24.43

01049000 SEBASTICOOK RIVER NEAR PITTSFIELD, MAINE

LOCATION.--Lat 44°43'00", long 69°24'56", Somerset County, on right bank 1.7 mi (2.7 km) upstream from Twentyfive-mile Stream, and 5.0 mi (8.0 km) south of Pittsfield.

DRAINAGE AREA.--579 mi² (1,500 km²).

WATER DISCHARGE RECORDS

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

GAGE.--Water-stage recorder. Datum of gage is 133.9 ft (40.81 m) above mean sea level.

REVISIONS.--WSP 1271: Drainage area.

REMARKS.--Records excellent except those for winter period, which are fair. Flow regulated by dam 0.4 mi (0.6 km) upstream, and by Great Moose and Sebasticook Lakes and Plymouth Pond (combined capacity, about 2,345,000,000 ft³ or 66,410,000 m³).

AVERAGE DISCHARGE.--46 years (1929-75), 943 ft³/s (26.71 m³/s), 22.12 in/yr (562 mm/yr).

EXTREMES.--Period of record: Maximum discharge, 14,400 ft³/s (408 m³/s) Mar. 22, 1936 (gage height, 13.18 ft or 4.017 m); minimum daily, 4.5 ft³/s (0.13 m³/s) Nov. 10, 1956.

Current year: Maximum discharge, 4,280 ft³/s (121 m³/s) Apr. 22 (gage height, 6.73 ft or 2.051 m); minimum daily, 27 ft³/s (0.76 m³/s) July 7.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	384	132	655	438	355	520	2450	2480	281	280	217	114
2	352	123	600	433	350	600	2290	2210	282	241	206	119
3	330	113	706	430	340	630	2220	1990	274	214	198	115
4	303	119	854	425	335	620	2200	1810	310	193	180	109
5	277	141	836	415	330	600	2100	1730	359	178	151	109
6	257	188	783	456	325	560	1970	1660	435	155	134	114
7	241	199	691	391	320	540	1860	1550	1150	27	131	119
8	226	192	702	397	325	520	1870	1470	1530	38	125	122
9	213	181	1840	376	335	520	1900	1390	1590	51	123	129
10	204	171	2600	374	355	500	1870	1290	1520	65	122	125
11	198	162	2990	378	370	475	1850	1150	1340	76	122	122
12	253	168	3020	442	365	460	1870	1050	1090	87	131	134
13	295	247	2840	529	355	450	1890	979	950	178	157	144
14	292	277	2680	567	345	440	1910	922	1840	204	171	142
15	295	289	2500	500	330	430	2010	860	2340	232	166	136
16	305	291	2220	450	325	430	2140	824	2720	494	159	131
17	350	275	1950	420	320	460	2340	598	2900	499	153	127
18	350	259	1690	390	310	500	2590	440	2900	516	166	125
19	336	254	1500	375	300	580	2970	386	2640	477	140	123
20	322	253	1350	360	295	900	3550	362	2240	435	136	144
21	313	671	1240	350	290	1560	4070	350	1890	410	136	155
22	294	1040	1170	340	280	1770	4240	328	1590	387	134	148
23	280	984	1100	325	280	2130	4170	318	1260	373	122	146
24	263	851	1050	320	275	2470	4010	311	1040	359	117	153
25	258	871	1000	320	290	2710	3840	294	905	342	117	148
26	259	1040	934	330	310	2900	3640	292	765	325	115	144
27	246	1030	873	340	360	3000	3400	337	602	306	115	166
28	232	1010	650	360	430	2990	3180	369	396	291	112	198
29	222	866	493	370	---	2910	2960	380	338	278	120	201
30	216	758	460	365	---	2770	2730	374	317	247	131	185
31	170	---	440	360	---	2610	---	311	---	226	120	---
TOTAL	8536	13155	42417	12326	9200	38555	80110	28815	37794	8184	4427	4147
MEAN	275	439	1368	398	329	1244	2670	930	1260	264	143	138
MAX	384	1040	3020	567	430	3000	4240	2480	2900	516	217	201
MIN	170	113	440	320	275	430	1850	292	274	27	112	109

CAL YR 1974 TOTAL 423721 MEAN 1161 MAX 5770 MIN 113
WTR YR 1975 TOTAL 287666 MEAN 788 MAX 4240 MIN 27

KENNEBEC RIVER BASIN

01049300 NORTH BRANCH TANNING BROOK NEAR MANCHESTER, MAINE

LOCATION.--Lat 44°21'00", long 69°51'07", Kennebec County, 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).

WATER DISCHARGE RECORDS

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.

AVERAGE DISCHARGE.--11 years (1965-75), 2.03 ft³/s (0.0575 m³/s), 29.64 in/yr (753 mm/yr).

EXTREMES.--Period of record: Maximum discharge, 195 ft³/s (5.52 m³/s) Dec. 17, 1973; minimum, 0.05 ft³/s (0.001 m³/s) Aug. 21, 1970, Aug. 2, 16, 1975.

Current year: Peak discharges above base of 30 ft³/s (0.85 m³/s) and maximums (*):

Date	Time	Discharge (ft ³ /s) (m ³ /s)	Gage height (ft) (m)	Date	Time	Discharge (ft ³ /s) (m ³ /s)	Gage height (ft) (m)
Mar. 21	-	40 1.13	- -	June 13	2115	*50 1.42	*4.91 1.497
Apr. 20	-	35 0.99	- -				

Minimum discharge, 0.05 ft³/s (0.001 m³/s) Aug. 2, 16, gage height, 3.45 ft (1.052 m).

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.55	.43	.80	.80	.62	1.2	2.0	4.8	.36	1.2	.11	.45
2	.79	.40	1.2	.77	.59	1.0	1.8	5.2	.75	1.1	.09	.33
3	.89	.38	3.5	.74	.57	.92	1.6	4.0	1.2	1.1	.09	.33
4	.62	.44	2.6	.72	.56	.85	1.5	3.3	3.2	1.1	.10	.29
5	.48	1.1	1.8	.70	.57	.78	2.1	2.8	2.8	1.1	.11	.22
6	.43	1.9	1.3	.68	.60	.72	1.9	2.4	10	.98	.10	.22
7	.38	1.1	.98	.68	.66	.70	1.6	2.1	13	1.0	.11	.22
8	.37	.80	1.6	.71	.62	.68	1.5	1.8	5.1	1.1	.16	.22
9	.37	.70	16	.74	.58	.66	1.5	1.6	3.2	1.3	.15	.22
10	.35	.63	10	.80	.56	.64	1.4	1.4	2.2	1.6	.15	.21
11	.35	.60	6.0	1.0	.54	.63	1.6	1.3	1.4	1.5	.14	.20
12	.35	.81	3.5	1.7	.52	.62	1.8	1.1	.73	1.5	.15	.18
13	.34	3.8	2.5	1.5	.51	.62	2.0	1.0	20	4.4	.13	.33
14	.36	2.1	2.2	1.2	.50	.62	2.3	.92	16	5.0	.14	.35
15	.39	1.2	1.9	1.0	.49	.64	2.9	.82	6.0	3.4	.13	.30
16	.93	.85	1.7	.84	.48	.65	4.0	.76	3.8	2.9	.09	.28
17	1.7	.70	1.5	.76	.48	.66	5.4	.67	3.0	2.2	.07	.27
18	1.3	.60	1.4	.72	.50	.70	8.4	.62	2.4	1.8	.07	.25
19	1.0	.58	1.3	.76	.52	.80	13	.56	2.1	1.5	.07	.29
20	.80	.64	1.2	.82	.56	1.3	17	.52	1.4	1.4	.07	1.2
21	.64	4.0	1.2	.72	.52	18	11	.48	1.2	2.5	.07	.87
22	.54	3.5	1.1	.66	.52	11	7.5	.46	1.2	3.5	.07	.55
23	.50	2.3	1.0	.64	.58	7.0	6.0	.37	.86	2.2	.07	.50
24	.47	1.5	1.0	.62	.70	5.2	8.0	.32	.74	1.9	.07	.80
25	.44	1.6	.96	.64	.95	6.0	10	.39	.66	.83	.09	.66
26	.42	2.1	.92	.68	2.0	7.2	13	.34	.78	.26	.12	.60
27	.41	1.7	.90	.76	1.6	5.4	9.6	.33	.85	.22	.14	.90
28	.40	1.3	1.0	.72	1.3	3.7	7.2	.33	1.5	.21	.14	4.0
29	.40	1.1	.95	.68	---	2.9	5.4	.39	1.3	.17	.13	1.9
30	.41	.92	.90	.66	---	2.4	4.2	.36	1.2	.14	.83	1.3
31	.42	---	.85	.63	---	2.2	---	.36	---	.13	.93	---
TOTAL	17.80	39.78	73.76	25.05	19.20	86.39	157.2	41.80	108.93	49.24	4.89	18.44
MEAN	.57	1.33	2.38	.81	.69	2.79	5.24	1.35	3.63	1.59	.16	.61
MAX	1.7	4.0	16	1.7	2.0	18	17	5.2	20	5.0	.93	4.0
MIN	.34	.38	.80	.62	.48	.62	1.4	.32	.36	.13	.07	.18
CFSM	.61	1.43	2.56	.87	.74	3.00	5.63	1.45	3.90	1.71	.17	.66
IN.	.71	1.59	2.95	1.00	.77	3.45	6.28	1.67	4.35	1.97	.20	.74
CAL YR 1974	TOTAL 885.94	MEAN 2.43	MAX 74	MIN .14	CFSM 2.61	IN 35.40						
WTR YR 1975	TOTAL 642.48	MEAN 1.76	MAX 20	MIN .07	CFSM 1.89	IN 25.67						

Reservoirs in Kennebec River basin

- 01038500 BRASSUA LAKE on Moose River, 4 mi (6 km) southwest of Rockwood, Maine, completed in 1928, for power, has usable capacity of 8,560,000 ft³ (242,400,000 m³) between elevations 1,043.0 and 1,073.0 ft (317.91 and 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 and 8.0 ft (0.30 and 2.44 m). Gage-height record furnished by Kennebec Water Power Co.
- 01040500 MOOSEHEAD LAKE on Kennebec River (see p.97).
- 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 and 955.0 ft or 289.56 and 291.08 m (total capacity of pond, 3,150,000,000 ft³ or 89,210,000 m³ below elevation 955.0 ft or 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 and 14.0 ft (1.83 and 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 and 1,146.0 ft (338.33 and 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 and 485.0 ft or 141.73 and 147.83 m (total capacity of pond, 9,080,000,000 ft³ or 257,100,000 m³ below elevation 485.0 ft or 147.83 m). Elevation record furnished by Central Maine Power Co.

MONTHEND CONTENTS, IN MILLIONS OF CUBIC FEET, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975

DATE	BRASSUA LAKE	FIRST ROACH POND	INDIAN POND	MOXIE POND	FLAGSTAFF LAKE	WYMAN POND
SEPT. 30, 1974	8,358	530	3,222	0	9,780	8,860
OCT. 31	5,897	0	3,258	0	6,204	8,990
NOV. 30	3,110	0	3,186	0	3,632	9,000
DEC. 31	2,259	0	3,024	0	4,189	8,850
JAN. 31, 1975	686	0	3,132	0	3,090	8,960
FEB. 28	15	0	2,953	0	1,645	8,960
MAR. 31	461	0	3,078	0	1,875	8,220
APR. 30	3,081	396	3,114	332	4,442	7,870
MAY 31	9,152	938	3,204	730	12,131	9,060
JUNE 30	8,980	856	3,222	703	11,570	8,900
JULY 31	8,644	719	3,222	667	8,238	8,870
AUG. 31	7,953	664	3,114	640	5,645	8,930
SEPT. 30	7,669	396	3,096	210	5,896	8,890

NOTE.--Indian and Wyman Pond contents at 2400 on day shown. All others at 0700 on first day of following month. Gates removed and no usable storage now available in Spencer Lake, which previously was listed in this table.

ANDROSCOGGIN RIVER BASIN

01052500 DIAMOND RIVER NEAR WENTWORTH LOCATION, N.H.

LOCATION.--Lat 44°52'40", long 71°03'25", Coos County, on left bank 1.0 mi (1.6 km) upstream from mouth and 1.6 mi (2.6 km) north of Wentworth Location.

DRAINAGE AREA.--153 mi² (396 km²).

WATER DISCHARGE RECORDS

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

GAGE.--Water-stage recorder. Altitude of gage is 1,275 ft (389 m) from topographic map.

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

AVERAGE DISCHARGE.--34 years, 346 ft³/s (9.798 m³/s), 30.71 in/yr (780 mm/yr).

EXTREMES.--Period of record: Maximum discharge, 8,630 ft³/s (244 m³/s) June 16, 1943 (gage height, 10.66 ft or 3.249 m), from rating curve extended above 3,900 ft³/s (110 m³/s); minimum, 6.8 ft³/s (0.19 m³/s) Aug. 27, 28, 1949, Sept. 1, 1952 (gage height, 0.81 ft or 0.247 m).

Current year: Peak discharges above base of 3,600 ft³/s (102 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)
May 6	2200	*3,080 87.2	*6.94 2.115				

No peaks above base.

Minimum discharge, 9.3 ft³/s (0.26 m³/s) Aug. 21, gage height, 1.03 ft (0.314 m).

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	258	204	174	100	94	84	188	1500	325	37	32	85
2	146	284	208	99	92	79	175	2180	370	35	28	58
3	143	188	206	98	88	78	166	2540	282	130	24	127
4	128	153	186	96	85	75	138	2690	286	95	70	119
5	106	174	242	96	82	73	157	2610	374	70	45	90
6	102	214	337	94	83	72	150	2630	616	56	35	60
7	94	198	306	95	83	70	146	2560	1000	43	30	57
8	78	160	221	98	83	70	139	2060	680	39	31	50
9	69	139	1210	105	81	69	135	2090	475	62	26	53
10	65	123	952	115	80	68	131	2070	340	203	21	45
11	77	114	513	125	77	66	134	2080	263	95	19	36
12	80	110	381	218	75	66	138	1940	226	70	18	150
13	87	186	315	248	72	66	149	1910	403	73	17	442
14	98	334	271	173	71	66	140	1710	422	100	16	216
15	189	359	184	157	70	65	160	1310	279	134	14	188
16	418	312	158	140	68	65	276	1250	227	208	13	118
17	235	219	155	130	66	65	415	1150	217	95	12	87
18	231	191	155	120	65	68	759	792	176	58	12	79
19	186	193	150	115	64	74	1430	702	152	43	11	103
20	142	195	140	110	65	184	2160	648	167	35	10	492
21	115	392	130	105	64	1080	1450	542	140	99	9.5	270
22	103	305	125	100	59	1030	799	429	112	153	24	165
23	104	207	120	96	61	749	784	373	97	73	36	125
24	101	205	115	94	68	445	1120	301	84	48	26	142
25	93	437	115	92	87	317	995	236	71	56	28	173
26	103	366	110	94	106	415	955	213	61	50	29	187
27	109	199	110	100	108	331	870	819	55	36	161	884
28	86	193	105	104	93	285	674	1920	50	35	114	747
29	90	198	105	101	---	279	559	887	46	105	47	557
30	93	192	100	100	---	238	739	475	42	63	168	326
31	110	---	100	98	---	207	---	290	---	40	207	---
TOTAL	4039	6744	7699	3616	2190	6899	16231	42907	8038	2439	1333.5	6231
MEAN	130	225	248	117	78.2	223	541	1384	268	78.7	43.0	208
MAX	418	437	1210	248	108	1080	2160	2690	1000	208	207	884
MIN	65	110	100	92	59	65	131	213	42	35	9.5	36
CFSM	.85	1.47	1.62	.76	.51	1.46	3.54	9.05	1.75	.51	.28	1.36
IN.	.98	1.64	1.87	.88	.53	1.68	3.95	10.43	1.95	.59	.32	1.51

CAL YR 1974	TOTAL	154417.0	MEAN	423	MAX	5650	MIN	25	CFSM	2.76	IN	37.54
WTR YR 1975	TOTAL	108366.5	MEAN	297	MAX	2690	MIN	9.5	CFSM	1.94	IN	26.35

ANDROSCOGGIN RIVER BASIN

115

01053500 ANDROSCOGGIN RIVER AT ERROL, N.H.

LOCATION.--Lat 44°46'57", long 71°07'46", Coos County, on right bank 0.4 mi (0.6 km) downstream from Errol Dam, 0.4 mi (0.6 km) northeast of Errol, and 0.6 mi (1.0 km) upstream from Clear Stream.

DRAINAGE AREA.--1,045 mi² (2,707 km²).

WATER DISCHARGE RECORDS

PERIOD OF RECORD.--January 1905 to current year. October 1922 to November 1943, monthly discharge only, published in WSP 1301. Prior to 1922, published as "at Errol Dam."

GAGE.--Water-stage recorder. Datum of gage is 1,227.30 ft (374.081 m) above mean sea level. Prior to Dec. 8, 1943, nonrecording gage at Errol Dam at datum 5.0 ft (1.52 m) higher.

REVISIONS.--WSP 1001: Drainage area.

COOPERATION.--Records prior to Dec. 9, 1943, furnished by Union Water Power Co.

REMARKS.--Records excellent. Flow regulated by Rangeley, Mooselookmeguntic, Richardson, Aziscohos, and Umbagog Lakes (see p.138), with final regulation at Errol Dam.

AVERAGE DISCHARGE.--70 years, 1,894 ft³/s (53.64 m³/s), 24.61 in/yr (625 mm/yr), adjusted for storage.

EXTREMES.--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.
Instantaneous maximum discharge not available prior to Dec. 9, 1943.

Current year: Maximum discharge, 4,310 ft³/s (122 m³/s) May 7 (gage height, 4.30 ft or 1.311 m); minimum daily, 651 ft³/s (18.4 m³/s) Dec. 9.

DISCHARGE, IN CURIC FEET PER SECOND, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1,760	1,730	1,520	1,610	1,730	1,590	1,920	2,190	1,220	1,710	1,780	1,580
2	1,580	1,750	1,660	1,700	1,730	1,570	1,960	2,660	1,190	1,720	1,790	1,570
3	1,630	1,730	1,440	1,710	1,760	1,580	1,850	3,090	1,220	1,720	1,790	1,520
4	1,510	1,760	1,580	1,790	1,840	1,660	1,680	3,740	1,350	1,730	1,790	1,510
5	1,590	1,670	1,680	1,790	1,850	1,680	1,760	4,010	1,300	1,730	1,780	1,550
6	1,760	1,510	1,570	1,790	1,760	1,680	1,790	4,160	1,300	1,730	1,730	1,580
7	1,800	1,550	1,610	1,760	1,680	1,680	1,810	4,250	2,300	1,730	1,730	1,580
8	1,840	1,520	1,440	1,640	1,680	1,700	1,810	4,140	2,090	1,730	1,730	1,610
9	1,860	1,530	651	1,580	1,700	1,750	1,880	2,640	1,470	1,730	1,750	1,600
10	1,920	1,630	769	1,570	1,760	1,820	1,920	909	1,420	1,700	1,760	1,560
11	1,940	1,680	1,010	1,580	1,760	1,760	1,920	1,060	1,450	1,650	1,760	1,570
12	1,890	1,680	1,080	1,570	1,750	1,720	1,920	1,150	1,440	1,630	1,760	1,500
13	1,890	1,570	1,120	1,500	1,770	1,710	1,890	664	1,370	1,590	1,760	1,350
14	1,900	1,420	1,290	1,520	1,800	1,680	1,860	884	1,330	1,500	1,760	1,450
15	1,840	1,270	1,480	1,640	1,800	1,670	1,890	838	1,400	1,440	1,760	1,580
16	1,790	1,340	1,550	1,730	1,720	1,640	1,900	1,230	1,490	1,500	1,780	1,580
17	1,670	1,400	1,490	1,730	1,670	1,670	1,780	1,080	1,520	1,560	1,800	1,580
18	1,670	1,520	1,400	1,770	1,680	1,610	2,050	1,390	1,510	1,660	1,790	1,580
19	1,760	1,550	1,410	1,760	1,700	1,580	2,200	1,360	1,540	1,710	1,780	1,570
20	1,730	1,510	1,490	1,770	1,710	1,290	2,460	1,300	1,530	1,730	1,770	1,480
21	1,770	924	1,520	1,860	1,710	770	2,490	1,310	1,580	1,710	1,770	1,420
22	1,840	1,020	1,530	1,800	1,710	737	2,700	1,400	1,610	1,690	1,750	1,520
23	1,860	1,170	1,610	1,840	1,610	910	2,700	1,500	1,620	1,700	1,760	1,520
24	1,820	1,380	1,580	1,700	1,670	1,080	2,700	1,490	1,610	1,690	1,780	1,480
25	1,710	1,250	1,570	1,570	1,710	1,270	2,700	1,550	1,620	1,710	1,780	1,470
26	1,660	1,150	1,580	1,520	1,630	1,380	2,670	1,700	1,650	1,710	1,760	1,500
27	1,770	1,510	1,670	1,590	1,630	1,380	2,640	1,510	1,660	1,750	1,740	1,230
28	1,850	1,580	1,660	1,720	1,630	1,430	2,570	830	1,670	1,780	1,750	1,200
29	1,860	1,470	1,610	1,710	-----	1,370	2,460	948	1,700	1,780	1,760	1,430
30	1,850	1,400	1,610	1,670	-----	1,350	2,360	1,310	1,710	1,780	1,730	1,440
31	1,790	-----	1,590	1,720	-----	1,900	-----	1,220	-----	1,790	1,630	-----
TOTAL	55,110	44,174	44,770	52,210	48,150	46,617	64,240	57,513	45,870	52,290	54,560	45,110
MEAN	1,778	1,472	1,444	1,684	1,720	1,504	2,141	1,855	1,529	1,687	1,760	1,504
MAX	1,940	1,760	1,680	1,860	1,850	1,900	2,700	4,250	2,300	1,790	1,800	1,610
MIN	1,510	924	651	1,500	1,610	737	1,680	664	1,190	1,440	1,630	1,200
MEAN*	375	1,276	1,769	596	391	1,380	3,206	7,485	1,602	476	-47	1,095
CFSM*	.36	1.22	1.69	.57	.37	1.13	3.07	7.16	1.53	.46	-.04	1.05
IN.*	.41	1.36	1.95	.66	.39	1.30	3.42	8.26	1.71	.52	-.05	1.17

CAL YR 1974 TOTAL 959,074 MEAN 2,628 MAX 11,300 MIN 651 MEAN* 2,377 CFSM* 2.28 IN.* 30.99
WTR YR 1975 TOTAL 610,614 MEAN 1,673 MAX 4,250 MIN 651 MEAN* 1,625 CFSM* 1.56 IN.* 21.2

*Adjusted for change in contents in Rangeley, Mooselookmeguntic, Richardson, Umbagog, and Aziscohos Lakes.
Note.--Negative figures of adjusted discharge and runoff indicate evaporation and seepage exceeded inflow.

ANDROSCOGGIN RIVER BASIN

01054000 ANDROSCOGGIN RIVER NEAR GORHAM, N.H.

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

DRAINAGE AREA.--1,363 mi² (3,530 km²).

WATER DISCHARGE RECORDS

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) above mean sea level. Prior to Sept. 30, 1922, nonrecording gage showing head and tailwater elevations at site 3 mi (5 km) upstream at different datum.

REVISIONS.--WSP 1001: Drainage area.

REMARKS.--Records excellent. Flow regulated by Rangeley, Mooselookmeguntic, Richardson, Aziscohos, and Umbagog Lakes (combined usable capacity, 28,100,000,000 ft³ or 796,000,000 m³, see p.113), with final regulation at Errol Dam 35 mi (56 km) upstream. Diurnal fluctuation caused by powerplant 0.8 mi (1.3 km) upstream.

AVERAGE DISCHARGE.--62 years, 2,459 ft³/s (69.64 m³/s), 24.50 in/yr (622 mm/yr), adjusted for storage.

EXTREMES.--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.

Current year: Maximum discharge, 7,180 ft³/s (203 m³/s) May 5 (gage height, 6.50 ft or 1.981 m); minimum daily, 1,670 ft³/s (47.3 m³/s) Nov. 23, Sept. 14.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	2,230	1,960	1,750	1,880	1,880	1,920	2,210	4,420	1,800	1,820	1,940	1,770
2	2,360	1,940	1,900	1,880	1,870	1,860	2,330	5,250	1,860	1,800	1,950	1,740
3	2,130	1,930	2,110	1,840	1,850	1,820	2,400	5,860	1,750	1,820	1,960	1,810
4	2,100	1,920	1,900	1,990	1,900	1,830	2,190	6,600	1,760	1,850	1,970	1,750
5	1,800	2,030	1,890	2,010	2,000	1,870	2,100	6,840	1,890	1,830	1,990	1,690
6	1,870	2,070	2,020	1,900	2,040	1,890	2,140	6,900	2,250	1,810	1,960	1,690
7	2,020	2,010	1,910	2,000	1,940	1,880	2,150	6,950	3,250	1,850	1,840	1,720
8	1,980	1,870	2,090	1,990	1,860	1,880	2,160	6,520	3,850	1,820	1,850	1,730
9	2,000	1,770	3,670	1,860	1,850	1,870	2,140	6,120	2,690	1,860	1,820	1,850
10	2,030	1,800	2,840	1,830	1,840	1,920	2,220	3,780	2,140	1,950	1,840	1,800
11	2,070	1,890	2,180	1,830	1,920	1,990	2,260	2,590	1,970	1,920	1,850	1,710
12	2,060	1,920	1,970	1,940	1,860	1,910	2,280	2,980	1,890	1,890	1,840	1,740
13	2,030	2,040	1,850	1,980	1,880	1,890	2,270	2,740	2,030	2,020	1,850	1,880
14	2,030	2,070	1,770	1,880	1,920	1,870	2,250	2,310	2,060	2,230	1,850	1,670
15	2,100	1,970	1,800	1,870	1,930	1,870	2,330	2,160	1,870	1,930	1,820	1,700
16	2,220	1,870	1,940	1,950	1,940	1,840	2,540	2,050	1,910	1,850	1,820	1,750
17	2,210	1,830	1,990	1,920	1,880	1,840	2,770	2,400	1,890	1,810	1,850	1,730
18	2,120	1,840	1,920	1,840	1,860	1,870	3,230	2,020	1,870	1,800	1,870	1,720
19	2,090	1,930	1,840	2,080	1,860	1,890	4,450	2,250	1,840	1,830	1,840	1,780
20	2,040	1,960	1,830	1,900	1,900	2,470	6,530	2,080	1,840	1,870	1,840	2,020
21	2,010	2,240	1,910	1,960	1,890	2,670	5,490	2,000	1,750	1,910	1,830	1,870
22	2,030	1,960	1,910	2,010	1,890	1,960	4,660	1,940	1,800	1,940	1,890	1,720
23	2,080	1,670	1,930	1,910	1,840	1,850	4,590	1,970	1,830	1,900	1,800	1,770
24	2,120	1,770	1,960	2,020	1,850	1,840	4,950	1,980	1,810	1,820	1,830	1,730
25	2,130	2,190	1,930	1,910	1,980	2,030	4,930	1,910	1,770	1,800	1,870	1,690
26	1,950	2,140	1,870	1,780	2,010	2,470	4,870	1,950	1,800	1,810	1,880	1,680
27	1,870	1,800	1,850	1,740	1,970	2,320	4,690	2,430	1,800	1,820	1,890	2,190
28	1,990	2,010	2,000	1,810	1,950	2,160	4,340	3,340	1,800	1,830	1,870	1,970
29	2,020	2,040	1,900	1,910	-----	2,160	3,940	2,180	1,790	1,890	1,850	1,890
30	2,020	1,880	1,920	1,910	-----	2,020	3,870	1,870	1,870	1,880	1,900	1,810
31	2,030	-----	1,850	1,790	-----	1,910	-----	1,920	-----	1,850	1,890	-----
TOTAL	63,740	58,320	62,240	59,120	53,400	61,570	99,280	106,310	60,430	58,010	58,050	53,570
MEAN	2,056	1,944	2,008	1,907	1,907	1,986	3,309	3,429	2,014	1,871	1,873	1,786
MAX	2,360	2,240	3,670	2,080	2,040	2,670	6,530	6,950	3,850	2,230	1,990	2,190
MIN	1,800	1,670	1,750	1,740	1,840	1,820	2,100	1,870	1,750	1,800	1,800	1,670
MEAN*	653	1,748	2,333	819	578	1,662	4,374	9,059	2,087	660	66	1,377
CFSM*	.48	1.28	1.71	.60	.42	1.22	3.21	6.65	1.53	.48	.05	1.01
IN.*	.55	1.43	1.97	.69	.44	1.40	3.58	7.67	1.71	.56	.06	1.13

CAL YR 1974 TOTAL 1,209,330 MEAN 3,313 MAX 13,400 MIN 1,670 MEAN* 3.072 CFSM* 2.25 IN.* 30.52
WTR YR 1975 TOTAL 794,040 MEAN 2,175 MAX 6,950 MIN 1,670 MEAN* 2,127 CFSM* 1.56 IN.* 21.19

*Adjusted for change in contents in Rangeley, Mooselookmeguntic, Richardson, Umbagog, and Aziscohos Lakes.

ANDROSCOGGIN RIVER BASIN

117

01054200 WILD RIVER AT GILEAD, MAINE

(National Stream-Quality Accounting Network Station)

LOCATION.--Lat 44°23'25", long 70°58'53", Oxford County, on left bank 20 ft (6 m) upstream from highway bridge on U.S. Route 2, 1,800 ft (550 m) upstream from mouth, and 0.4 mi (0.6 km) west of Gilead.

DRAINAGE AREA.--69.5 mi² (180 km²).

WATER DISCHARGE RECORDS

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

GAGE.--Water-stage recorder. Datum of gage is 683.10 ft (208.209 m) above mean sea level.

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

AVERAGE DISCHARGE.--11 years, 174 ft³/s (4.928 m³/s), 34.00 in/yr (864 mm/yr).

EXTREMES.--Period of record: Maximum discharge, 12,500 ft³/s (354 m³/s) Nov. 3, 1966 (gage height, 12.49 ft or 3.807 m); minimum, 7.6 ft³/s (0.22 m³/s) July 16, 1971 (gage height, 1.89 ft or 0.576 m). Flood of Oct. 24, 1959 reached a stage of 15.6 ft (4.755 m), from floodmarks (discharge, 18,100 ft³/s or 513 m³/s).

Current year: Peak discharges above base of 1,500 ft³/s (42.5 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. 9	0015	*5,300 150	*8.20 2.499	Apr. 19	2030	1,840 52.1	5.54 1.689
Mar. 20	1245	4,660 132	7.77 2.368	July 13	1530	1,500 42.5	5.20 1.585

Minimum discharge, 12 ft³/s (0.34 m³/s) Aug. 20-22, gage height, 2.02 ft (0.616 m).

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	66	37	92	55	57	64	148	804	118	43	25	39
2	56	37	110	54	56	60	140	1070	115	34	22	29
3	76	37	310	53	55	54	138	1110	93	32	21	52
4	65	36	235	52	54	50	264	893	113	31	23	41
5	52	61	180	52	53	47	264	769	148	29	26	28
6	70	109	140	51	55	44	204	870	399	27	26	24
7	65	84	120	51	58	42	150	893	485	27	25	24
8	48	64	700	51	58	40	118	804	257	25	46	23
9	42	56	2230	54	57	39	104	716	185	35	43	58
10	40	49	570	64	56	40	106	678	148	143	27	46
11	38	47	302	86	56	40	111	697	118	160	21	28
12	36	46	213	120	55	39	109	710	109	148	20	43
13	35	430	177	96	54	39	109	736	565	530	18	111
14	33	246	154	84	52	38	109	586	453	377	18	56
15	35	157	125	78	52	38	120	521	239	253	16	41
16	40	128	100	74	51	38	168	512	195	198	15	34
17	59	102	100	70	50	42	232	422	168	130	15	31
18	92	90	96	67	50	54	359	345	143	88	15	30
19	70	83	90	65	52	74	893	336	120	68	14	39
20	54	82	84	62	53	2160	1030	318	113	58	13	180
21	43	757	80	61	53	980	575	305	95	75	12	113
22	39	308	76	60	53	390	390	272	80	84	16	80
23	39	185	72	58	62	280	444	222	72	56	24	59
24	44	209	70	57	72	219	660	198	64	55	18	64
25	45	345	67	56	88	239	870	163	56	95	19	64
26	43	251	65	55	130	354	878	143	50	67	21	78
27	44	180	62	54	85	213	597	143	46	47	21	453
28	37	140	60	53	70	195	426	183	41	41	18	180
29	37	115	58	54	---	201	332	130	42	37	14	109
30	37	105	57	58	---	168	431	106	61	31	70	78
31	37	---	56	58	---	153	---	123	---	28	88	---
TOTAL	1517	4576	6851	1963	1697	6434	10479	15778	4891	3052	770	2235
MEAN	48.9	153	221	63.3	60.6	208	349	509	163	98.5	24.8	74.5
MAX	92	757	2230	120	130	2160	1030	1110	565	530	88	453
MIN	33	36	56	51	50	38	104	106	41	25	12	23
CFSM	.70	2.20	3.18	.91	.87	2.99	5.02	7.32	2.35	1.42	.36	1.07
IN.	.81	2.45	3.67	1.05	.91	3.44	5.61	8.45	2.62	1.63	.41	1.20

CAL YR 1974 TOTAL 76812 MEAN 210 MAX 2230 MIN 16 CFSM 3.02 IN 41.11
WTR YR 1975 TOTAL 60243 MEAN 165 MAX 2230 MIN 12 CFSM 2.37 IN 32.25

ANDROSCOGGIN RIVER BASIN

01054200 WILD RIVER AT GILEAD, MAINE--Continued

WATER QUALITY RECORDS

PERIOD OF RECORD.--WATER ANALYSES: August 1967 to current year.

WATER TEMPERATURES: July 1964 to current year.

INSTRUMENTATION.--Temperature recorder.

EXTREMES.--Period of record:

WATER TEMPERATURES: Maximum, 30.0°C Aug. 2, 1975; minimum, freezing point on many days during winter months.

EXTREMES.--Current year:

WATER TEMPERATURES: Maximum, 30.0°C Aug. 2; minimum, freezing point on many days during December to March.

WATER ANALYSES, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	SPH-CIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)	TEMPERATURE (DEG C)	DISSOLVED OXYGEN (MG/L)	IMME-DIATE COLIFORM (COL. PER 100 ML)	FECAL COLIFORM (COL. PER 100 ML)	STREP-TOCOCCI (COLONIES PER 100 ML)	SUSPENDED SEDIMENT (MG/L)
OCT. 24...	1130	49	26	6.6	3.0	13.3	99	--	--	2
NOV. 25...	1100	367	24	6.2	1.5	13.6	97	8340	82	--
DEC. 27...	1400	60	38	6.6	.0	13.0	89	--	--	1
JAN. 27...	1200	710	34	6.3	.0	13.0	89	20	80	4
FEB. 24...	1200	750	25	6.3	.0	13.0	89	--	--	3
MAR. 26...	1100	332	23	6.2	2.0	12.0	87	23	81	2
APR. 29...	1115	318	21	6.3	3.0	13.0	96	--	--	3
MAY 28...	1200	194	18	6.4	14.0	10.4	100	240	86	3
JUNE 27...	1200	42	20	6.6	21.5	9.0	101	--	--	5
JULY 30...	1200	29	21	6.8	21.0	9.2	102	380	89	13
AUG. 28...	1315	16	23	6.8	20.0	9.5	104	--	--	3
SEP. 25...	1130	58	22	6.4	12.0	11.6	107	100	85	82

DATE	SUSPENDED SEDIMENT DISCHARGE (T/DAY)	CARBON DIOXIDE (CO2) (MG/L)	ALKALINITY AS CaCO3 (MG/L)	BICARBONATE (HCO3) (MG/L)	CARBONATE (CO3) (MG/L)	HARDNESS (Ca+Mg) (MG/L)	NON-CARBONATE HARDNESS (MG/L)	DISSOLVED CALCIUM (CA) (MG/L)	DISSOLVED MAGNESIUM (MG) (MG/L)	DISSOLVED SODIUM (NA) (MG/L)	SODIUM ADSORPTION RATIO
OCT. 24...	.26	--	--	--	--	--	--	--	--	--	--
NOV. 25...	--	7.1	6	7	0	16	10	5.1	.7	1.0	.1
DEC. 27...	.16	--	--	--	--	--	--	--	--	--	--
JAN. 27...	7.7	3.2	3	4	0	11	8	3.0	.9	1.4	.2
FEB. 24...	6.1	--	--	--	--	--	--	--	--	--	--
MAR. 26...	1.8	2.0	2	2	0	11	9	3.2	.7	.9	.1
APR. 29...	2.6	--	--	--	--	--	--	--	--	--	--
MAY 28...	1.6	--	--	--	0	4	4	1.1	.2	.4	.1
JUNE 27...	.57	--	--	--	--	--	--	--	--	--	--
JULY 30...	.08	1.3	4	5	0	8	4	2.5	.5	1.3	.2
AUG. 28...	.13	--	--	--	--	--	--	--	--	--	--
SEP. 25...	.16	3.8	5	6	0	10	5	3.5	.4	1.2	.2

ANDROSCOGGIN RIVER BASIN

119

01054200 WILD RIVER AT GILEAD, MAINE--Continued

WATER ANALYSES, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975

DATE	PERCENT SODIUM	DIS- SOLVED PO- TAS- SIUM (K) (MG/L)	DIS- SOLVED CHLO- RIDE (CL) (MG/L)	DIS- SOLVED SULFATE (SO4) (MG/L)	DIS- SOLVED FLUO- RIDE (F) (MG/L)	DIS- SOLVED SILICA (SiO2) (MG/L)	TOTAL PHOS- PHORUS (P) (MG/L)	TOTAL NITRITE PLUS NITRATE (N) (MG/L)	DIS- SOLVED SOLIDS (RESI- DUE AT 180 C) (MG/L)	DIS- SOLVED SOLIDS (SUM OF CONSTI- TUENTS) (MG/L)	DIS- SOLVED SOLIDS (TONS PER DAY)
OCT. 24...	--	--	--	--	--	--	--	--	--	--	--
NOV. 25...	12	.2	4.0	5.3	.1	5.0	.00	.05	18	25	17.8
DEC. 27...	--	--	--	--	--	--	--	--	--	--	--
JAN. 27...	21	.1	1.5	7.8	.3	6.6	.01	.06	22	24	42.2
FEB. 24...	--	--	--	--	--	--	--	--	--	--	--
MAR. 26...	15	.3	1.3	3.0	.1	4.8	.01	.10	23	15	20.6
APR. 29...	--	--	--	--	--	--	--	--	--	--	--
MAY 28...	18	.3	.7	3.0	.1	5.0	.01	.01	30	--	15.7
JUNE 27...	--	--	--	--	--	--	--	--	--	--	--
JULY 30...	25	.3	.5	3.0	.1	7.0	.01	.01	16	18	1.25
AUG. 28...	--	--	--	--	--	--	--	--	--	--	--
SEP. 25...	20	.3	.9	4.2	.2	7.3	.01	.02	23	21	3.60

DATE	TOTAL ARSENIC (AS) (UG/L)	TOTAL BARIUM (BA) (UG/L)	TOTAL CAD- MIUM (CD) (UG/L)	TOTAL CHRO- MIUM (CR) (UG/L)	TOTAL COPPER (CU) (UG/L)	TOTAL IRON (FE) (UG/L)	TOTAL LEAD (PB) (UG/L)	TOTAL MAN- GANESE (MN) (UG/L)	TOTAL MERCURY (HG) (UG/L)	TOTAL SELE- NIUM (SE) (UG/L)	TOTAL ZINC (ZN) (UG/L)
MAR. 26...	1	100	0	0	0	70	18	0	<.5	0	0
SEP. 25...	1	0	1	0	0	90	41	10	<.5	0	0

PESTICIDE ANALYSES, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975

DATE	TOTAL ALDRIN (UG/L)	TOTAL CHLOR- DANE (UG/L)	TOTAL DDD (UG/L)	TOTAL DDE (UG/L)	TOTAL DDT (UG/L)	TOTAL DI- AZINON (UG/L)	TOTAL DI- ELDRIN (UG/L)	TOTAL ENDRIN (UG/L)	TOTAL HEPTA- CHLOR (UG/L)	TOTAL HEPTA- CHLOR EPOXIDE (UG/L)	TOTAL LINDANE (UG/L)
SEP. 25...	.00	.0	.00	.00	.00	.00	.00	.00	.00	.00	.00

DATE	TOTAL MALA- THION (UG/L)	TOTAL METHYL PARA- THION (UG/L)	TOTAL PARA- THION (UG/L)	TOTAL PCB (UG/L)	TOTAL TOX- APHENE (UG/L)	TOTAL 2,4-D (UG/L)	TOTAL 2,4,5-T (UG/L)	TOTAL SILVEX (UG/L)	ALDRIN IN BOTTOM MA- TERIAL (UG/KG)	CHLOR- DANE IN BOTTOM MA- TERIAL (UG/KG)
SEP. 25...	.00	.00	.00	.0	0	.00	.00	.00	.0	0

DATE	DDU IN BOTTOM MA- TERIAL (UG/KG)	DDE IN BOTTOM MA- TERIAL (UG/KG)	DDT IN BOTTOM MA- TERIAL (UG/KG)	DI- ELDRIN IN BOTTOM MA- TERIAL (UG/KG)	ENDRIN IN BOTTOM MA- TERIAL (UG/KG)	HEPTA- CHLOR IN BOTTOM MA- TERIAL (UG/KG)	HEPTA- CHLOR EPOXIDE IN BOT- TOM MA- TERIAL (UG/KG)	LINDANE IN BOTTOM MA- TERIAL (UG/KG)	PCB IN BOTTOM MA- TERIAL (UG/KG)	TOX- APHENE IN BOTTOM MA- TERIAL (UG/KG)
SEP. 25...	.0	.0	.0	.0	.0	.0	.0	.0	0	0

RADIOCHEMICAL ANALYSES, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975

DATE	DIS- SOLVED URANIUM (U) (UG/L)	DIS- SOLVED RA-226 (RADON METHOD) (PC/L)	DIS- SOLVED GROSS ALPHA AS U-NAT. (UG/L)	DIS- SOLVED GROSS BETA AS SR90 /Y90 (PC/L)	DIS- SOLVED GROSS BETA AS CS-137 (PC/L)	TOTAL FILT- RABLE RESIDUE (MG/L)	SUS- PENDE GROSS ALPHA AS U-NAT. (UG/L)	SUS- PENDE GROSS BETA AS SR90 /Y90 (PC/L)	SUS- PENDE GROSS BETA AS CS-137 (PC/L)	TOTAL NON- FILT- RABLE RESIDUE (MG/L)
SEP. 25...	.04	.02	<.5	1.6	1.9	27	<.4	<.4	<.4	<1

OCTOBER			NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	10.0	7.0	9.0	7.0	0.5	0.5	0.0	0.0	0.0	0.0	0.0	0.0
2	8.5	6.0	8.5	4.5	0.5	0.5	0.0	0.0	0.0	0.0	0.0	0.0
3	6.0	5.0	4.5	2.0	0.5	0.5	0.0	0.0	0.0	0.0	0.0	0.0
4	6.5	4.5	4.5	3.5	0.5	0.5	0.0	0.0	0.5	0.0	0.0	0.0
5	8.0	4.0	5.0	4.5	0.5	0.5	0.0	0.0	0.5	0.5	0.0	0.0
6	10.0	6.0	5.0	5.0	0.5	0.5	0.0	0.0	0.5	0.0	0.0	0.0
7	9.5	8.5	5.0	3.5	0.5	0.5	0.0	0.0	0.0	0.0	0.0	0.0
8	8.5	6.0	4.0	2.0	0.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0
9	8.0	5.0	3.5	1.5	1.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0
10	6.0	5.0	2.0	0.5	1.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
11	6.5	4.0	3.0	1.0	0.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0
12	6.0	4.5	4.5	2.0	0.5	0.5	0.0	0.0	0.0	0.0	0.0	0.0
13	7.0	5.0	5.5	4.5	0.5	0.5	0.0	0.0	0.0	0.0	0.0	0.0
14	6.0	4.0	4.5	3.5	0.5	0.5	0.0	0.0	0.0	0.0	0.0	0.0
15	6.5	5.0	4.5	3.5	0.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0
16	6.5	5.0	4.0	3.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
17	5.0	4.5	3.5	3.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
18	4.5	3.0	4.0	3.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
19	3.5	1.0	4.0	3.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
20	3.0	0.5	3.5	2.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
21	1.5	0.0	3.5	2.0	0.0	0.0	0.5	0.0	0.0	0.0	1.0	0.0
22	3.5	0.0	2.0	1.5	0.0	0.0	0.0	0.0	0.0	0.0	0.5	0.5
23	5.5	3.0	1.5	1.5	0.0	0.0	0.0	0.0	0.0	0.0	3.0	0.5
24	4.5	2.0	1.5	1.5	0.0	0.0	0.0	0.0	0.0	0.0	2.0	0.5
25	3.0	1.5	1.5	1.5	0.0	0.0	0.0	0.0	0.0	0.0	4.5	1.5
26	4.5	2.0	1.5	0.5	0.0	0.0	0.0	0.0	0.0	0.0	3.5	0.5
27	3.5	0.5	0.5	0.5	0.0	0.0	0.0	0.0	0.0	0.0	1.0	0.5
28	1.5	0.0	0.5	0.5	0.0	0.0	0.0	0.0	0.0	0.0	0.5	0.5
29	3.0	0.0	0.5	0.5	0.0	0.0	0.0	0.0	---	---	0.5	0.5
30	4.5	2.0	0.5	0.5	0.0	0.0	0.0	0.0	---	---	0.5	0.5
31	7.0	4.5	---	---	0.0	0.0	0.0	0.0	---	---	2.0	0.5
MONTH	10.0	0.0	9.0	0.5	1.5	0.0	0.5	0.0	0.5	0.0	4.5	0.0
APRIL			MAY		JUNE		JULY		AUGUST		SEPTEMBER	
DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	0.5	0.5	7.0	3.0	16.0	14.5	24.5	16.5	28.0	21.0	17.0	12.0
2	3.0	0.5	5.5	3.5	16.5	13.5	25.0	17.0	30.0	22.0	16.0	14.5
3	2.0	0.5	5.5	3.5	14.0	11.5	24.5	20.5	28.0	23.5	15.0	14.0
4	0.5	0.5	5.0	3.0	1							

01054300 ELLIS RIVER AT SOUTH ANDOVER, MAINE

LOCATION.--Lat 44°35'37", long 70°44'01", Oxford County, on left bank 100 ft (30 m) upstream from covered bridge, at South Andover.

DRAINAGE AREA.--131 mi² (339 km²).

WATER DISCHARGE RECORDS

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

GAGE.--Water-stage recorder. Datum of gage is 620.00 ft (188.976 m) above mean sea level (levels by Corps of Engineers).

REMARKS.--Records excellent except those for winter period and period of no gage-height record, which are fair. Records of water analyses for the water year 1975 are published on page 165.

AVERAGE DISCHARGE.--12 years, 245 ft³/s (6.938 m³/s), 25.40 in/yr (645 mm/yr).

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

Current year: Peak discharges above base of 2,000 ft³/s (56.64 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. 9	1230	*2,850 80.7	*15.34 4.676	Mar. 20	0400	2,480 70.2	14.60 4.450

Minimum daily discharge, 12 ft³/s (0.34 m³/s) Aug. 20-22.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	176	83	182	115	82	98	225	817	238	63	40	39
2	159	80	185	110	80	94	207	1120	283	58	35	33
3	206	75	399	110	78	88	205	1170	224	65	32	67
4	309	77	340	105	76	84	200	1130	207	66	30	53
5	142	103	235	105	74	82	225	986	245	58	28	40
6	126	172	220	100	74	80	213	938	401	55	28	33
7	112	159	195	100	76	76	172	888	885	51	27	34
8	99	131	225	100	75	74	159	694	529	47	29	34
9	89	118	2110	100	73	73	147	662	372	46	35	47
10	84	108	1490	100	72	72	142	611	290	46	26	51
11	81	103	698	103	71	71	154	593	231	46	21	38
12	77	102	495	130	70	70	163	554	197	100	19	36
13	75	359	406	133	68	69	171	565	408	200	19	69
14	74	430	352	125	66	68	170	502	526	410	23	63
15	81	304	295	115	65	70	210	433	405	310	20	45
16	145	272	265	110	64	72	298	388	333	225	17	39
17	160	220	249	105	63	78	416	350	291	170	15	33
18	197	197	237	99	64	86	609	286	245	140	14	31
19	170	179	216	96	65	100	920	272	206	120	13	39
20	140	167	196	93	64	494	1430	249	176	110	12	238
21	119	362	181	90	64	2160	1120	223	153	200	12	125
22	108	358	176	89	66	1100	749	214	131	150	12	81
23	103	277	167	88	80	700	721	186	113	120	14	65
24	98	228	159	88	100	480	926	175	103	100	18	65
25	93	263	154	92	130	440	871	145	88	84	22	64
26	94	288	146	98	140	553	940	125	80	70	25	63
27	93	242	135	100	130	441	895	401	74	60	30	232
28	87	245	130	95	110	350	725	719	67	54	26	251
29	82	217	125	92	---	300	591	425	66	52	22	151
30	81	196	120	89	---	280	586	295	78	50	39	113
31	80	---	120	85	---	258	---	253	---	45	56	---
TOTAL	3740	6115	10603	3160	2240	9061	14560	16369	7645	3371	759	2272
MEAN	121	204	342	102	80.0	292	485	528	255	109	24.5	75.7
MAX	309	430	2110	133	140	2160	1430	1170	885	410	56	251
MIN	74	75	120	85	63	68	142	125	66	45	12	31
CFSM	.92	1.56	2.61	.78	.61	2.23	3.70	4.03	1.95	.83	.19	.58
IN.	1.06	1.74	3.01	.90	.64	2.57	4.13	4.65	2.17	.96	.22	.65

CAL YR 1974 TOTAL 102182 MEAN 280 MAX 2980 MIN 35 CFSM 2.14 IN 29.02
WTR YR 1975 TOTAL 79895 MEAN 219 MAX 2160 MIN 12 CFSM 1.67 IN 22.69

Note.--No gage-height record July 9 to August 28.

ANDROSCOGGIN RIVER BASIN

01054500 ANDROSCOGGIN RIVER AT RUMFORD, MAINE

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

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

WATER DISCHARGE RECORDS

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

GAGE.--Nonrecording gages in pond above dam in tailrace of upper plant. Prior to Aug. 1, 1937, nonrecording gages in pond and tailrace of middle plant.

REVISIONS.--WSP 1001: Drainage area.

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

REMARKS.--Discharge computed from flow over upper dam and through wheels. Flow regulated by Rangeley, Mooselookmeguntic, Richardson, Umbagog, and Aziscohos Lakes (see p.138) with final regulation at Errol Dam about 84 mi (135 km) upstream.

AVERAGE DISCHARGE.--83 years, 3,698 ft³/s (105 m³/s), 24.30 in/yr (617 mm/yr), adjusted for storage.

EXTREMES.--Period of record: Maximum discharge, 74,000 ft³/s (2,096 m³/s) Mar. 20, 1936; minimum daily, 625 ft³/s (17.7 m³/s) Mar. 27, 1911.

Current year: Maximum daily discharge, 15,300 ft³/s (433 m³/s) Dec. 9; minimum daily, 1,820 ft³/s (51.5 m³/s) Sept. 8.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	3,000	2,370	2,380	2,510	2,210	2,530	3,290	8,180	2,840	2,110	1,990	2,110
2	3,010	2,330	2,340	2,370	2,250	2,470	3,580	10,100	2,920	2,050	1,860	2,000
3	2,990	2,270	3,450	2,080	2,140	2,430	3,120	11,100	2,670	2,040	1,890	2,170
4	2,670	2,280	2,890	2,510	2,120	2,280	2,840	11,100	2,650	2,140	1,920	2,130
5	2,470	2,490	2,180	2,540	2,300	2,280	3,170	10,700	2,910	2,080	1,990	1,950
6	2,440	3,000	2,540	2,330	2,400	2,410	3,650	10,800	4,670	2,050	2,000	1,830
7	2,460	2,820	2,680	2,410	2,420	2,390	3,250	10,600	6,870	2,020	1,950	1,880
8	2,470	2,580	4,160	2,620	2,350	2,390	2,990	9,550	5,810	2,030	2,040	1,820
9	2,410	2,330	15,300	2,560	2,270	2,060	2,720	8,910	4,540	2,070	2,130	2,090
10	2,450	2,240	10,800	2,470	2,170	2,310	2,620	7,270	3,470	2,720	1,860	2,030
11	2,460	2,240	6,220	2,560	2,190	2,430	3,010	5,620	3,020	2,670	2,000	1,830
12	2,480	2,380	4,650	2,870	2,280	2,420	2,810	5,450	2,830	2,590	1,920	1,840
13	2,430	3,710	4,110	3,120	2,250	2,360	3,240	5,800	4,350	3,610	1,910	2,170
14	2,380	4,150	3,430	2,710	2,170	2,260	3,010	4,730	4,740	4,460	1,920	2,120
15	2,480	3,250	3,020	2,270	2,230	2,240	3,230	4,200	3,630	3,440	1,900	1,870
16	2,690	3,020	2,640	2,310	2,340	2,230	3,890	3,930	3,370	3,120	1,910	1,880
17	3,040	2,660	2,750	2,220	2,340	2,310	5,110	3,870	3,170	2,650	1,890	1,890
18	3,140	2,530	3,250	1,910	2,300	2,390	6,600	3,820	2,950	2,350	1,900	1,870
19	2,880	2,560	3,110	2,280	2,300	2,490	10,200	4,310	2,710	2,220	1,900	2,010
20	2,730	2,620	2,950	2,410	2,290	9,300	13,900	4,310	2,540	2,140	1,880	2,810
21	2,550	4,980	2,880	2,100	2,330	13,400	11,000	3,880	2,500	2,270	1,840	2,590
22	2,480	4,160	2,890	2,390	2,320	7,770	7,980	3,590	2,250	2,370	1,910	2,230
23	2,520	3,190	2,870	2,340	2,370	5,730	7,750	3,130	2,310	2,230	1,960	2,160
24	2,560	2,920	2,890	2,350	2,520	4,830	9,030	3,130	2,270	2,150	1,890	2,160
25	2,440	3,780	2,820	2,460	2,520	5,010	9,540	2,910	2,150	2,280	1,920	2,210
26	2,500	3,930	2,020	2,250	2,990	5,650	10,100	2,720	2,080	2,100	1,980	2,060
27	2,160	2,460	2,140	2,280	2,860	4,230	8,780	3,200	2,080	1,990	1,960	3,550
28	2,320	2,700	2,650	2,200	2,580	3,740	7,310	4,770	2,070	1,980	1,960	3,290
29	2,350	2,930	2,630	2,230	-----	4,160	6,120	3,760	2,110	2,050	1,900	2,580
30	2,390	2,810	2,650	2,300	-----	3,810	6,220	2,890	2,350	2,020	2,080	2,510
31	2,410	-----	2,490	2,260	-----	3,490	-----	2,960	-----	1,980	2,290	-----
TOTAL	79,760	87,690	113,780	74,220	65,810	115,800	170,060	181,290	94,830	73,980	60,450	65,640
MEAN	2,573	2,923	3,670	2,394	2,350	3,735	5,669	5,848	3,161	2,386	1,950	2,188
MAX	3,140	4,980	15,300	3,120	2,990	13,400	13,900	11,100	6,870	4,460	2,290	3,550
MIN	2,160	2,240	2,020	1,910	2,120	2,060	2,620	2,720	2,070	1,980	1,840	1,820
MEAN*	1,170	2,727	3,995	1,306	1,021	3,411	6,734	11,478	3,234	1,175	138	1,917
CFSM*	.57	1.32	1.93	.63	.49	1.65	3.26	5.55	1.56	.57	.07	.93
IN.*	.65	1.47	2.22	.72	.51	1.90	3.64	6.40	1.74	.65	.07	1.03

CAL YR 1974 TOTAL 1,784,970 MEAN 4,890 MAX 24,000 MIN 2,020 MEAN* 4,649 CFSM* 2.25 IN.* 30.52
WTR YR 1975 TOTAL 1,183,310 MEAN 3,242 MAX 15,300 MIN 1,820 MEAN* 3,188 CFSM* 1.54 IN.* 21.01

*Adjusted for change in contents in Rangeley, Mooselookmeguntic, Richardson, Umbagog, and Aziscohos Lakes.

01055000 SWIFT RIVER NEAR ROXBURY, MAINE

LOCATION.--Lat 44°38'32", long 70°35'17", Oxford County, on left bank 0.2 mi (0.3 km) downstream from Philbrick Brook, 2.1 mi (3.4 km) downstream from Roxbury, and 7.2 mi (11.6 km) upstream from mouth.

DRAINAGE AREA.--95.8 mi² (248 km²).

WATER DISCHARGE RECORDS

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

GAGE.--Water-stage recorder. Datum of gage is 615.67 ft (187.656 m) above mean sea level.

REVISIONS (WATER YEARS).--WSP 801: 1934 (M). WSP 1301: Drainage area. WSP 1301: 1937-38 (M), 1942 (M).

REMARKS.--Records excellent except those for winter period and period of no gage-height record, which are fair. Records of water analyses for the water year 1975 are published on page 165.

AVERAGE DISCHARGE.--46 years, 197 ft³/s (5.58 m³/s), 27.93 in/yr (709 mm/yr).

EXTREMES.--Period of record: Maximum discharge, 16,800 ft³/s (476 m³/s) Oct. 24, 1959 (gage height, 12.87 ft or 3.923 m), from rating curve extended above 7,000 ft³/s (198 m³/s); minimum, 3.8 ft³/s (0.11 m³/s) Sept. 16, 17, 1948 (gage height, 0.93 ft or 0.283 m).

Current year: Peak discharges above base of 2,400 ft³/s (68.0 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. 9	0400	*4,050 115	*6.90 2.103	Mar. 20	1500	3,680 104	6.73 2.051

Minimum discharge, 7.9 ft³/s (0.22 m³/s) Aug. 20-22.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	138	71	116	60	56	62	148	856	187	44	19	34
2	117	65	145	60	54	61	139	1090	260	42	18	27
3	123	58	375	59	53	58	116	1190	160	40	16	96
4	102	65	218	58	50	57	117	1050	190	38	16	54
5	85	114	159	58	49	54	138	997	238	37	18	29
6	92	170	157	58	51	53	130	1100	680	37	17	24
7	81	132	129	57	52	52	119	978	868	36	16	28
8	68	104	268	59	51	51	109	744	396	36	17	24
9	61	90	2380	64	50	50	103	782	268	38	15	58
10	57	80	747	72	49	52	103	783	200	75	13	44
11	56	76	385	82	47	49	114	813	159	170	11	26
12	54	76	279	154	46	47	122	779	160	200	12	47
13	52	375	233	120	46	49	127	837	1100	350	13	123
14	49	330	205	97	44	48	127	627	808	510	11	63
15	101	231	159	88	43	47	174	527	421	375	10	43
16	165	188	105	82	43	47	254	476	306	300	9.1	31
17	145	150	105	78	43	51	362	399	253	200	8.7	25
18	185	136	100	74	44	61	503	306	196	130	8.7	23
19	134	128	95	71	45	77	863	303	163	90	8.7	34
20	103	123	89	69	45	1410	951	279	142	76	8.2	288
21	83	283	82	66	44	1120	571	250	120	180	7.9	114
22	75	195	80	65	44	462	405	207	110	100	9.1	69
23	75	156	76	64	50	343	490	180	98	80	14	60
24	73	143	72	62	66	252	657	171	87	65	12	54
25	69	277	70	62	90	287	634	129	78	54	14	49
26	69	244	68	61	121	374	754	111	70	45	17	54
27	66	157	66	64	79	230	637	481	62	37	23	334
28	57	153	64	65	66	200	449	485	57	32	24	228
29	59	135	63	61	---	194	352	242	52	28	15	132
30	59	131	62	62	---	176	418	164	48	24	60	87
31	62	---	61	58	---	154	---	162	---	21	80	---
TOTAL	2715	4636	7213	2210	1521	6228	10186	17498	7937	3490	541.4	2302
MEAN	87.6	155	233	71.3	54.3	201	340	564	265	113	17.5	76.7
MAX	185	375	2380	154	121	1410	951	1190	1100	510	80	334
MIN	49	58	61	57	43	47	103	111	48	21	7.9	23
CFSM	.91	1.62	2.43	.74	.57	2.10	3.55	5.89	2.77	1.18	.18	.80
IN.	1.05	1.80	2.80	.86	.59	2.42	3.96	6.79	3.08	1.36	.21	.89

CAL YR 1974 TOTAL 88309.0 MEAN 242 MAX 2750 MIN 15 CFSM 2.53 IN 34.29
WTR YR 1975 TOTAL 66477.4 MEAN 182 MAX 2380 MIN 7.9 CFSM 1.90 IN 25.81

Note.--No gage-height record June 21 to July 31.

ANDROSCOGGIN RIVER BASIN

01055500 NEZINSCOT RIVER AT TURNER CENTER, MAINE

LOCATION.--Lat 44°16'10", long 70°13'49", Androscoggin County, on left bank 500 ft (150 m) upstream from upper highway bridge at Turner Center, and 3.6 mi (5.8 km) upstream from mouth.

DRAINAGE AREA.--171 mi² (443 km²).

WATER DISCHARGE RECORDS

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

GAGE.--Water-stage recorder. Datum of gage is 276.29 ft (84.213 m) above mean sea level, unadjusted.

REMARKS.--Records excellent except those for winter period, which are fair. Records of water analyses for the water year 1975 are published on page 165.

AVERAGE DISCHARGE.--34 years, 301 ft³/s (8.524 m³/s), 23.90 in/yr (607 mm/yr).

EXTREMES.--Period of record: Maximum discharge, 13,900 ft³/s (394 m³/s) Mar. 27, 1953 (gage height, 11.18 ft or 3.408 m); minimum, 5.6 ft³/s (0.16 m³/s) Aug. 29, 1956 (gage height, 0.72 ft or 0.219 m).

Current year: Peak discharges above base of 1,700 ft³/s (48.1 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. 10	0600	1,740	49.3	4.42	1.347	Apr. 20	1600	*2,130	60.3	*4.78	1.457
Mar. 21	1500	*2,130	60.3	*4.78	1.457						

Minimum discharge, 22 ft³/s (0.62 m³/s) Aug. 21, 22, 24.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	273	85	205	160	125	260	500	641	118	54	54	103
2	191	82	193	155	120	230	420	618	133	50	49	77
3	191	78	373	150	115	210	360	573	124	47	44	69
4	165	78	519	150	115	190	302	519	177	45	42	64
5	132	99	537	150	115	175	361	461	324	44	43	55
6	112	159	382	145	120	160	437	408	378	43	43	45
7	100	181	296	145	120	155	453	369	755	43	42	41
8	87	154	257	140	120	150	421	354	655	43	53	37
9	86	132	1150	145	120	145	390	318	450	46	54	37
10	81	117	1620	150	115	140	361	284	312	89	46	37
11	71	109	1040	156	110	140	384	257	223	114	39	35
12	67	110	698	237	110	135	441	237	177	127	36	37
13	64	320	554	302	110	130	491	221	537	346	38	54
14	70	474	470	280	105	130	532	212	1190	759	37	58
15	88	363	386	235	105	130	665	195	1020	988	33	48
16	108	272	298	200	105	130	858	187	695	851	29	42
17	197	218	287	170	100	140	1070	188	520	609	27	39
18	224	187	290	150	100	155	1340	169	403	416	26	37
19	190	165	281	145	100	200	1690	153	308	278	25	40
20	159	154	262	140	100	811	2080	143	224	185	24	67
21	137	622	245	130	100	1880	1920	137	169	180	23	95
22	126	880	225	130	100	1630	1450	127	139	267	23	84
23	122	601	220	125	110	1460	1160	124	120	236	23	82
24	117	452	210	125	130	1340	1170	159	107	180	23	96
25	109	380	200	130	200	1320	1250	142	94	132	27	98
26	102	394	195	140	280	1460	1230	120	82	110	32	95
27	97	319	190	140	305	1440	1140	119	74	91	35	217
28	89	275	180	140	285	1150	965	125	67	79	33	368
29	84	245	175	140	---	827	800	122	64	71	29	289
30	81	220	170	135	---	666	665	105	60	64	59	195
31	84	---	165	130	---	570	---	105	---	58	120	---
TOTAL	3804	7930	12273	4970	3740	17659	25326	7892	9699	6645	1211	2641
MEAN	123	264	396	160	134	570	844	255	323	214	39.1	88.0
MAX	273	880	1620	302	305	1880	2080	641	1190	988	120	368
MIN	64	78	165	125	100	130	302	105	60	43	23	35
CFSM	.72	1.54	2.32	.94	.78	3.33	4.94	1.49	1.89	1.25	.23	.51
IN.	.83	1.73	2.67	1.08	.81	3.84	5.51	1.72	2.11	1.45	.26	.57

CAL YR 1974	TOTAL	135097	MEAN 370	MAX 2900	MIN 33	CFSM 2.16	IN 29.39
WTR YR 1975	TOTAL	103790	MEAN 284	MAX 2080	MIN 23	CFSM 1.66	IN 22.58

ANDROSCOGGIN RIVER BASIN

125

01057000 LITTLE ANDROSCOGGIN RIVER NEAR SOUTH PARIS, MAINE

LOCATION.--Lat 44°17'08", long 70°32'16", Oxford County, on right bank 30 ft (9 m) upstream from Biscoe Falls, and 5 mi (8 km) upstream from South Paris.

DRAINAGE AREA.--76.2 mi² (197 km²).

WATER DISCHARGE RECORDS

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

GAGE.--Water-stage recorder and concrete control. Datum of gage is 394.48 ft (120.238 m) above mean sea level. Prior to Apr. 30, 1924, nonrecording gage at same site and datum.

REVISIONS (WATER YEARS).--WSP 726: Drainage area. WSP 1301: 1915-23 (M).

REMARKS.--Records excellent. Records of water analyses for the water year 1975 are published on page 165.

AVERAGE DISCHARGE.--54 years (1913-23, 1931-75), 138 ft³/s (3.908 m³/s), 24.59 in/yr (625 mm/yr).

EXTREMES.--Period of record: Maximum discharge, 8,000 ft³/s (227 m³/s) Mar. 27, 1953 (gage height, 12.41 ft or 3.783 m), from rating curve extended above 2,800 ft³/s (79.3 m³/s), verified by computation of flow over dam at South Paris; minimum, 1 ft³/s (0.028 m³/s) Aug. 16, 1914, Feb. 22 to Mar. 5, 1920.

Current year: Peak discharges above base of 1,000 ft³/s (28.32 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. 9	1400	*1,410 39.9	*6.42 1.957	Apr. 20	0400	1,120 31.7	5.97 1.820
Mar. 21	1130	1,300 36.8	6.25 1.905				

Minimum discharge, 3.6 ft³/s (0.10 m³/s) Aug. 23, gage height, 1.37 ft (0.418 m).

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	111	36	70	75	51	102	178	376	61	22	16	29
2	103	34	77	73	49	89	167	401	71	19	14	22
3	119	31	259	67	50	82	148	359	53	15	12	30
4	83	32	204	69	47	73	142	317	82	9.8	11	26
5	65	54	140	65	47	68	174	269	125	10	11	18
6	53	108	112	57	50	63	169	233	152	10	11	14
7	45	89	89	61	52	64	155	212	297	10	11	13
8	39	70	134	63	51	66	142	194	218	10	12	12
9	34	61	1140	63	49	60	134	178	153	11	17	13
10	32	51	772	64	49	60	129	169	113	87	13	14
11	31	48	426	71	47	58	146	155	82	139	11	13
12	29	46	289	122	46	54	169	140	67	148	10	12
13	28	167	241	123	45	57	184	131	326	234	10	28
14	25	190	216	108	45	58	200	142	533	449	12	24
15	29	126	178	85	43	58	259	126	320	323	9.6	18
16	45	98	146	77	43	59	349	119	233	282	8.4	15
17	100	82	142	68	43	61	486	108	184	174	8.0	13
18	94	72	144	54	44	67	672	91	137	106	7.3	13
19	72	62	131	61	47	79	885	87	106	72	6.7	14
20	60	63	123	67	49	364	1040	77	77	61	6.0	67
21	50	289	113	59	48	1150	875	83	62	150	5.6	61
22	44	264	111	59	47	750	607	73	52	115	5.4	43
23	43	174	102	55	54	541	552	67	45	67	4.5	39
24	41	129	100	53	70	464	685	62	40	55	6.2	58
25	38	132	98	57	93	475	719	53	36	48	9.4	50
26	39	165	87	61	132	514	736	50	30	38	10	49
27	38	129	77	64	132	383	615	59	24	30	11	288
28	35	118	88	60	116	320	494	72	22	26	9.6	237
29	34	97	84	58	---	243	390	57	21	26	8.0	146
30	35	82	83	59	---	224	352	45	21	22	21	104
31	35	---	74	55	---	200	---	55	---	19	49	---
TOTAL	1629	3099	6050	2133	1639	6906	11953	4560	3743	2787.8	356.7	1483
MEAN	52.5	103	195	68.8	58.5	223	398	147	125	89.9	11.5	49.4
MAX	119	289	1140	123	132	1150	1040	401	533	449	49	288
MIN	25	31	70	53	43	54	129	45	21	9.8	4.5	12
CFSM	.69	1.35	2.56	.90	.77	2.93	5.22	1.93	1.64	1.18	.15	.65
IN.	.80	1.51	2.95	1.04	.80	3.37	5.84	2.23	1.83	1.36	.17	.72
CAL YR 1974	TOTAL	62138.3	MEAN	170	MAX	1240	MIN	7.0	CFSM	2.23	IN	30.34
WTR YR 1975	TOTAL	46339.5	MEAN	127	MAX	1150	MIN	4.5	CFSM	1.67	IN	22.62

ANDROSCOGGIN RIVER BASIN

01058000 THOMPSON LAKE OUTLET AT OXFORD, MAINE

LOCATION.--Lat 44°08'07", long 70°29'28", Oxford County, on left bank about 50 ft (15.2 m) upstream from bridge on State Highway 121, at Oxford, Maine.

DRAINAGE.--47.6 mi² (123 km²).

WATER DISCHARGE RECORDS

PERIOD OF RECORD.--June 19 to Sept. 30, 1975.

GAGE.--Water-stage recorder. Altitude of gage is 320 ft (97.5 m) from topographic map.

REMARKS.--Records fair.

EXTREMES.--Maximum discharge during period, 162 ft³/s (4.59 m³/s) Sept. 30 (gage height, 9.88 ft or 3.011 m); minimum, 30 ft³/s (0.850 m³/s) Aug. 25 (gage height, 8.49 ft or 2.588 m).

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1										53	38	55
2										53	39	55
3										51	39	53
4										49	39	52
5										49	39	64
6										49	39	68
7										48	38	66
8										41	39	66
9										36	39	65
10										37	38	64
11										37	37	63
12										37	39	63
13										39	37	61
14										40	37	60
15										41	37	59
16										44	37	58
17										45	37	57
18										45	37	57
19									72	45	35	57
20									68	45	36	57
21									66	44	35	57
22									65	44	35	57
23									64	43	34	83
24									64	42	33	95
25									62	44	31	57
26									61	42	31	75
27									59	41	31	122
28									56	40	31	118
29									55	40	33	117
30					-----				54	39	45	98
31		-----			-----		-----		-----	39	56	-----
TOTAL										1342	1151	2079
MEAN										43.3	37.1	69.3
MAX										53	56	122
MIN										36	31	52
CFSM										.91	.78	1.46
IN.										1.05	.90	1.62

ANDROSCOGGIN RIVER BASIN

127

01058500 LITTLE ANDROSCOGGIN RIVER NEAR AUBURN, MAINE

LOCATION.--Lat 44°03'49", long 70°16'28", Androscoggin County, 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).

WATER DISCHARGE RECORDS

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 excellent except those for winter period, which are fair. Flow regulated by Thompson Lake (see p.138), and several powerplants above station.

AVERAGE DISCHARGE.--35 years, 567 ft³/s (16.06 m³/s), 23.48 in/yr (596 mm/yr), adjusted for storage.

EXTREMES.--Period of record: Maximum discharge, 16,500 ft³/s (467 m³/s) Mar. 28, 1953 (gage height, 14.76 ft or 4.499 m); minimum daily, 14 ft³/s (0.40 m³/s) Oct. 14, 1949.
Maximum discharge known, 16,800 ft³/s (476 m³/s) Mar. 20, 1936, at mouth of river.

Current year: Maximum discharge, 2,790 ft³/s (79.0 m³/s) Apr. 21 (gage height, 6.09 ft or 1.856 m); minimum daily, 66 ft³/s (1.87 m³/s) Aug. 23.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	464	166	324	357	327	530	1180	1240	201	125	127	134
2	484	162	318	353	316	503	1070	1180	221	153	118	166
3	521	157	505	327	309	481	1050	1130	222	186	112	148
4	512	159	685	339	304	446	973	1060	288	167	107	137
5	432	189	625	323	306	417	997	994	407	137	105	130
6	379	248	543	295	314	395	1020	883	584	137	102	127
7	342	297	439	307	304	414	1030	764	810	126	98	126
8	285	305	430	319	311	480	1040	691	847	118	110	122
9	240	274	1100	339	283	426	1020	634	739	118	113	119
10	214	224	1690	369	268	455	989	597	578	136	108	112
11	193	191	1780	366	256	412	1030	570	447	167	109	108
12	183	194	1390	402	259	389	1090	537	364	255	106	108
13	173	394	1110	464	257	389	1120	506	551	452	103	114
14	166	536	928	487	257	382	1140	467	1050	854	100	109
15	151	543	785	470	256	378	1240	429	1140	1130	98	116
16	195	458	688	427	257	369	1390	407	986	1150	93	118
17	348	386	599	380	252	425	1600	387	872	974	84	141
18	396	335	561	332	253	440	1850	363	771	702	85	146
19	375	324	545	323	250	447	2200	336	640	502	82	151
20	297	336	503	377	248	1020	2610	318	490	377	77	160
21	239	703	472	367	245	2070	2760	302	378	324	75	150
22	203	928	451	354	243	2450	2530	285	332	374	74	168
23	182	882	424	340	247	2610	2150	270	301	423	66	183
24	166	751	419	325	270	2350	2030	254	265	348	67	218
25	157	666	415	328	370	2360	2100	233	238	274	74	230
26	153	642	395	353	472	2420	2110	216	212	241	75	221
27	145	549	373	386	530	2120	2060	210	213	211	76	328
28	137	484	374	365	545	1820	1880	220	179	179	71	538
29	133	425	376	357	---	1590	1610	218	172	167	68	565
30	130	375	371	359	---	1430	1380	205	159	135	94	469
31	143	---	356	346	---	1350	---	199	---	145	106	---
TOTAL	8138	12283	19974	11236	8509	31768	46249	16105	14657	10787	2883	5662
MEAN	263	409	644	362	304	1025	1542	520	489	348	93.0	189
MAX	521	928	1780	487	545	2610	2760	1240	1140	1150	127	565
MIN	130	157	318	295	243	369	973	199	159	118	66	108
MEAN*	178	424	665	376	320	1039	1593	548	489	355	58	138
CFSM*	.54	1.29	2.03	1.15	.98	3.17	4.86	1.67	1.49	1.08	.18	.42
IN.*	.63	1.44	2.34	1.33	1.02	3.66	5.42	1.92	1.66	1.24	.20	.47
CAL YR 1974	TOTAL	261933	MEAN 718	MAX	2940	MIN 103	MEAN*	717	CFSM*	2.19	IN.*	29.65
WTR YR 1975	TOTAL	188251	MEAN 516	MAX	2760	MIN 66	MEAN*	515	CFSM*	1.57	IN.*	21.33

* Adjusted for change in contents in Thompson Lake.

ANDROSCOGGIN RIVER BASIN

01059000 ANDROSCOGGIN RIVER NEAR AUBURN, MAINE

(National Stream-Quality Accounting Network)

LOCATION.--Lat 44°04'20", long 70°12'31", Androscoggin County, on right bank 1.5 mi (2.4 km) downstream from Little Androscoggin River and 2.1 mi (3.4 km) downstream from north bridge between Auburn and Lewiston.

DRAINAGE AREA.--3,257 mi² (8,436 km²).

WATER DISCHARGE RECORDS

PERIOD OF RECORD.--October 1928 to current year. Monthly discharge only for October 1928, published in WSP 1301.

GAGE.--Water-stage recorder. Datum of gage is 109.18 ft (33.278 m) above mean sea level.

REVISIONS (WATER YEARS).--WSP 781: 1930, 1933-34. WSP 1301: 1932-36.

REMARKS.--Records excellent. Considerable diurnal fluctuation and some regulation by powerplants above station. Flow regulation by Rangeley, Mooselookmeguntic, Richardson, Umbagog, Azischohos, Auburn, and Thompson Lakes, and Gulf Island Pond (see p.138) with major regulation at Errol Dam 136 mi (219 km) upstream.

AVERAGE DISCHARGE.--47 years, 6,095 ft³/s (172.6 m³/s), 25.4 in/yr (645 mm/yr), adjusted for storage.

EXTREMES.--Period of record: Maximum discharge, 135,000 ft³/s (3,820 m³/s) Mar. 20, 1936 (gage height, 27.57 ft or 8.403 m), from rating curve extended above 76,000 ft³/s (2,150 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.

Current year: Maximum discharge, 28,800 ft³/s (816 m³/s) Mar. 21 (gage height, 10.03 ft or 3.057 m); minimum daily, 711 ft³/s (20.1 m³/s) Sept. 14.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	5,410	4,300	2,630	3,010	2,420	4,100	8,100	13,300	5,370	2,430	3,370	1,950
2	5,870	3,220	4,350	4,160	1,570	3,280	7,490	15,900	5,430	3,600	2,060	2,790
3	5,720	1,050	4,990	4,540	3,460	4,620	7,950	17,400	4,160	3,500	1,620	3,160
4	5,820	3,170	6,020	4,110	4,050	4,610	7,800	18,300	4,150	2,480	2,820	3,400
5	3,540	3,690	6,340	3,060	3,660	4,580	7,430	17,700	4,330	2,290	3,000	3,490
6	2,120	3,660	6,200	4,130	3,420	4,510	7,670	16,800	5,670	1,450	3,030	2,230
7	3,090	4,120	4,730	4,190	3,610	4,350	7,780	16,900	10,400	3,390	3,290	1,490
8	3,340	4,930	4,180	3,860	2,850	2,970	7,900	16,400	12,200	3,190	3,660	2,480
9	3,270	4,860	13,000	3,550	2,580	2,380	7,830	14,900	9,650	3,390	2,990	2,590
10	4,280	1,530	25,500	3,660	3,720	3,730	7,750	14,000	7,830	3,810	882	2,580
11	3,960	1,950	17,300	2,680	3,870	4,100	7,420	12,200	6,300	3,790	2,750	2,670
12	3,170	3,870	11,400	3,480	3,380	4,200	6,920	10,900	6,150	3,260	2,850	2,660
13	827	4,760	8,900	5,030	3,370	4,460	7,330	10,400	7,010	2,720	2,730	1,800
14	3,100	5,780	7,980	6,430	3,450	4,470	7,370	10,700	11,300	8,670	2,670	711
15	3,300	6,490	7,260	5,900	2,610	4,060	7,960	9,020	11,000	9,510	2,660	2,950
16	3,660	6,190	6,210	5,100	2,100	1,580	8,150	8,520	8,780	7,760	2,030	3,050
17	4,690	4,350	5,730	4,640	3,010	4,410	8,420	7,960	7,570	7,290	716	3,080
18	4,700	4,460	5,560	3,630	3,450	4,980	10,900	7,310	7,100	6,330	2,590	3,190
19	4,610	4,590	5,480	1,830	3,460	4,460	17,000	7,080	6,640	5,210	2,630	3,350
20	3,260	4,580	6,210	2,210	3,790	6,750	24,200	6,150	6,500	2,630	2,570	2,390
21	4,080	6,870	5,910	3,700	4,100	16,900	25,700	6,430	6,230	3,390	2,560	1,670
22	4,250	8,480	3,780	3,540	3,020	22,500	20,300	6,180	1,530	3,910	2,600	3,520
23	3,910	8,070	4,890	3,620	2,550	17,200	16,500	5,850	3,770	3,960	1,980	3,740
24	3,410	6,900	5,140	3,620	4,290	14,000	16,900	5,770	4,140	3,780	842	3,940
25	4,100	4,830	4,590	2,480	5,070	13,000	18,800	5,100	4,110	3,700	2,310	3,930
26	3,110	6,700	5,770	2,670	4,510	14,300	19,600	4,240	4,110	3,180	2,580	3,650
27	1,120	7,260	4,830	4,330	5,240	13,000	19,400	4,040	4,170	2,060	2,570	3,170
28	2,950	5,880	4,290	4,270	5,400	10,500	17,400	5,020	3,590	3,140	3,100	5,100
29	3,760	5,710	3,170	4,180	-----	10,100	14,900	7,360	1,240	3,460	3,190	5,780
30	3,330	3,920	4,160	4,220	-----	9,300	13,300	6,440	2,310	3,660	2,400	4,940
31	4,020	-----	4,320	4,230	-----	9,020	-----	5,890	-----	3,460	2,080	-----
TOTAL	115,777	146,170	210,820	120,060	98,010	232,420	366,170	314,160	182,740	124,400	77,130	91,451
MEAN	3,735	4,872	6,801	3,873	3,500	7,497	12,210	10,130	6,091	4,013	2,488	3,048
MAX	5,870	8,480	25,500	6,430	5,400	22,500	25,700	18,300	12,200	9,510	3,660	5,780
MIN	827	1,050	2,630	1,830	1,570	1,580	6,920	4,040	1,240	1,450	716	711
MEAN*	2,098	4,710	7,140	2,787	2,214	7,345	13,337	15,687	6,155	2,802	640	2,620
CFSM*	.64	1.45	2.19	.86	.68	2.26	4.09	4.82	1.39	.86	.20	.80
IN.*	.74	1.62	2.52	.99	.71	2.61	4.56	5.56	2.11	.99	.23	.90

CAL YR 1974 TOTAL 2,962,142 MEAN 8,115 MAX 34,300 MIN 567 MEAN* 7,856 CFSM* 2.41 IN.* 32.72
WTR YR 1975 TOTAL 2,079,308 MEAN 5,697 MAX 25,700 MIN 711 MEAN* 5,651 CFSM* 1.74 IN.* 23.54

* Adjusted for change in contents in Rangeley, Mooselookmeguntic, Richardson, Umbagog, Azischohos, Auburn, and Thompson Lakes and Gulf Island Pond.

ANDROSCOGGIN RIVER BASIN

129

01059000 ANDROSCOGGIN RIVER NEAR AUBURN, MAINE--Continued

WATER QUALITY RECORDS

PERIOD OF RECORD.--WATER ANALYSES: January 1966 to current year.

REMARKS.--Water sampling program discontinued; moved downstream to Brunswick, Maine.

WATER ANALYSES, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	SPECIFIC CONDUCTANCE (MICRO-MHOS)	PH (UNITS)	TEMPERATURE (DEG C)	DISSOLVED OXYGEN (MG/L)	DISSOLVED OXYGEN SATURATION (%)	IMMEDIATE COLIFORM (COL. PER 100 ML)	FECAL COLIFORM (COL. PER 100 ML)	STREPTOCOCCI (COLONIES PER 100 ML)	TOTAL PHOSPHORUS (P) (MG/L)	TOTAL NITROGEN (N) (MG/L)
OCT. 24...	1430	3340	125	6.8	6.5	11.4	92	23000	3100	730	--	--
NOV. 25...	1415	5550	100	6.7	2.5	13.4	98	890000	811000	4600	--	--
DEC. 17...	1400	6140	75	6.6	1.0	13.0	92	16000	3800	930	--	--
JAN. 21...	1315	4210	140	6.7	.0	13.4	92	3300	750	8130	.03	.74
FEB. 25...	1415	5580	200	6.8	.5	13.0	90	8800	81200	530	.05	1.1
MAR. 24...	1345	13900	60	6.5	1.5	13.4	96	1800	8100	8200	.04	.53
APR. 29...	1630	13600	50	6.7	6.0	13.0	104	1700	8180	883	.02	.44
MAY 27...	1500	4210	95	6.7	18.0	8.6	91	7200	500	8130	.03	.73
JUNE 24...	1430	4250	80	6.5	22.5	8.4	96	84300	8220	8120	.05	.49
AUG. 04...	1330	3300	105	6.6	24.0	7.6	89	10000	730	380	.05	.78
SEP. 25...	1330	2620	140	6.6	21.0	6.4	71	11000	730	330	.06	1.2
SEP. 16...	1500	2960	130	6.7	16.5	8.4	85	6000	350	480	.04	.91

DATE	TOTAL NITROGEN (NO3) (MG/L)	TOTAL KjELDAHL NITROGEN (N) (MG/L)	TOTAL NITRITE PLUS NITRATE (N) (MG/L)	SUSPENDED SEDIMENT (MG/L)	SUS. SED. SIEVE DIAM. % FINER THAN .062 MM	SUSPENDED SEDIMENT DISCHARGE (T/DAY)	TOTAL ORGANIC CARBON (C) (MG/L)	CARBON DIOXIDE (CO2) (MG/L)	ALKALINITY AS CaCO3 (MG/L)	BICARBONATE (HCO3) (MG/L)	CARBONATE (CO3) (MG/L)	TURBIDITY (JTU)
OCT. 24...	--	--	--	--	--	--	--	--	--	--	--	--
NOV. 25...	--	--	--	--	--	--	--	5.4	14	17	0	--
DEC. 17...	--	--	--	--	--	--	--	--	--	--	--	--
JAN. 21...	3.3	.58	.16	2	100	23	--	--	--	--	--	--
FEB. 25...	4.7	.94	.12	8	100	121	6.2	6.8	22	27	0	6
MAR. 24...	2.3	.25	.28	10	98	375	--	--	--	--	--	--
APR. 29...	1.9	.34	.10	5	98	184	--	--	--	--	--	--
MAY 27...	3.2	.53	.20	4	100	45	5.4	4.8	12	15	0	2
JUNE 24...	2.2	.35	.14	11	90	126	--	--	--	--	--	--
AUG. 04...	3.5	.64	.14	3	100	27	--	--	--	--	--	--
SEP. 25...	5.3	.93	.26	3	100	21	11	8.4	17	21	0	2
SEP. 16...	4.0	.63	.28	2	100	16	--	--	--	--	--	--

ANDROSCOGGIN RIVER BASIN

01059000 ANDROSCOGGIN RIVER AT AUBURN, MAINE--Continued

WATER ANALYSES, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975

DATE	HARD- NESS (CA.MG) (MG/L)	NON- CAR- BONATE HARD- NESS (MG/L)	DIS- SOLVED CAL- CIUM (CA) (MG/L)	DIS- SOLVED MAG- NE- SIUM (MG) (MG/L)	DIS- SOLVED SODIUM (NA) (MG/L)	DIS- SOLVED PO- TAS- SIUM (K) (MG/L)	DIS- SOLVED CHLO- RIDE (CL) (MG/L)	DIS- SOLVED SULFATE (SO4) (MG/L)	DIS- SOLVED FLUO- RIDE (F) (MG/L)	DIS- SOLVED SILICA (SI02) (MG/L)	DIS- SOLVED SOLIDS (RESI- DUE AT 180 C) (MG/L)	DIS- SOLVED SOLIDS (SUM OF CONSTITUENTS) (MG/L)
OCT.												
24...	--	--	--	--	--	--	--	--	--	--	--	--
NOV.												
25...	19	5	6.0	.9	8.3	1.1	8.4	9.9	.2	5.8	--	50
DEC.												
17...	--	--	--	--	--	--	--	--	--	--	--	--
JAN.												
21...	--	--	--	--	--	--	--	--	--	--	--	--
FEB.												
25...	25	4	8.7	1.1	22	1.4	28	16	.2	6.0	110	97
MAR.												
24...	--	--	--	--	--	--	--	--	--	--	--	--
APR.												
29...	--	--	--	--	--	--	--	--	--	--	--	--
MAY												
27...	17	5	5.8	.7	9.1	.8	11	9.6	.2	4.1	62	49
JUNE												
24...	--	--	--	--	--	--	--	--	--	--	--	--
JUL.												
04...	--	--	--	--	--	--	--	--	--	--	--	--
25...	25	7	7.9	1.2	16	1.1	15	14	.2	4.2	89	70
SEP.												
16...	--	--	--	--	--	--	--	--	--	--	--	--

DATE	DIS- SOLVED ARSENIC (AS) (UG/L)	SUS- PENDE D ARSENIC (AS) (UG/L)	TOTAL ARSENIC (AS) (UG/L)	DIS- SOLVED CAD- MIUM (CD) (UG/L)	SUS- PENDE D CAD- MIUM (CD) (UG/L)	TOTAL CAD- MIUM (CD) (UG/L)	DIS- SOLVED CHRO- MIUM (CR) (UG/L)	SUS- PENDE D CHRO- MIUM (CR) (UG/L)	TOTAL CHRO- MIUM (CR) (UG/L)	DIS- SOLVED COBALT (CO) (UG/L)	SUS- PENDE D COBALT (CO) (UG/L)
NOV.											
25...	--	--	--	--	--	--	--	--	--	--	--
FEB.											
25...	0	0	0	0	0	0	20	50	70	0	0
MAY											
27...	0	0	0	0	0	0	10	10	20	0	0
AUG.											
25...	0	0	0	0	0	0	<10	0	10	0	0

DATE	TOTAL COBALT (CO) (UG/L)	DIS- SOLVED COPPER (CU) (UG/L)	SUS- PENDE D COPPER (CU) (UG/L)	TOTAL COPPER (CU) (UG/L)	DIS- SOLVED IRON (FE) (UG/L)	TOTAL IRON (FE) (UG/L)	DIS- SOLVED LEAD (PB) (UG/L)	SUS- PENDE D LEAD (PB) (UG/L)	TOTAL LEAD (PB) (UG/L)	DIS- SOLVED MAN- GANESE (MN) (UG/L)	SUS- PENDE D MAN- GANESE (MN) (UG/L)
NOV.											
25...	--	--	--	--	--	--	--	--	--	--	--
FEB.											
25...	0	10	0	0	170	520	3	20	23	50	0
MAY											
27...	0	10	0	10	170	460	6	0	6	40	10
AUG.											
25...	0	0	10	10	380	600	2	0	2	70	0

DATE	TOTAL MAN- GANESE (MN) (UG/L)	DIS- SOLVED MERCURY (HG) (UG/L)	SUS- PENDE D MERCURY (HG) (UG/L)	TOTAL MERCURY (HG) (UG/L)	DIS- SOLVED SELE- NIUM (SE) (UG/L)	SUS- PENDE D SELE- NIUM (SE) (UG/L)	TOTAL SELE- NIUM (SE) (UG/L)	DIS- SOLVED ZINC (ZN) (UG/L)	SUS- PENDE D ZINC (ZN) (UG/L)	TOTAL ZINC (ZN) (UG/L)	DIS- SOLVED SOLIDS (TONS PER DAY)
NOV.											
25...	--	--	--	--	--	--	--	--	--	--	749
FEB.											
25...	50	<.5	.0	<.5	0	0	0	10	0	10	1660
MAY											
27...	50	<.5	.0	<.5	0	0	0	10	0	10	705
AUG.											
25...	70	<.5	.0	<.5	0	0	0	0	10	10	630

01059000 ANDROSCOGGIN RIVER NEAR AUBURN, MAINE--Continued

QUALITATIVE AND QUANTITATIVE ANALYSES OF BIOLOGICAL DATA, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975

PHYTOPLANKTON

DATE	TIME	ORGANISM	COUNT (CELLS/ML)	PERCENT OF TOTAL	SAMPLING METHOD
JAN. 21	1315	CHRYSOPHYTA .BACILLARIOPHYCEAE ..PENNALES ...NITZSCHIAEAEHANTZSCHIANITZSCHIA CYANOPHYTA .MYXOPHYCEAE ..CHROOCOCCALES ...CHROOCOCCACEAEANACYSTIS ..OSCILLATORIALES ...OSCILLATORIAEAELYNGBYA TOTAL	24 24 36 1,100 1,200	2 2 3 93	DEPTH INTEGRATED
FEB. 25	1415	CHRYSOPHYTA .BACILLARIOPHYCEAE ..PENNALES ...FRAGILARIAEAESYNEDRA ...GOMPHONEMATAEAEGOMPHONEMA ...MERIDIONACEAEMERIDION ...TABELLARIAEAETABELLARIA CYANOPHYTA .MYXOPHYCEAE ..OSCILLATORIALES ...OSCILLATORIAEAELYNGBYASPIRULINA TOTAL	43 9 9 17 43 9 130	33 7 7 13 33 7	DEPTH INTEGRATED
MAR. 24	1345	CHLOROPHYTA .CHLOROPHYCEAE ..ULOTRICHALES ...CHAETOPHORACEAESTIGEOCLONIUM CHRYSOPHYTA .BACILLARIOPHYCEAE ..PENNALES ...ACHNANTHACEAEACHNANTHES ...FRAGILARIAEAEASTERIONELLASYNEDRA ...NAVICULACEAENAVICULA ...NITZSCHIAEAENITZSCHIA TOTAL	120 35 13 25 13 48 250	48 14 5 10 5 19	DEPTH INTEGRATED
APR. 29	1630	CHRYSOPHYTA .BACILLARIOPHYCEAE ..PENNALES ...ACHNANTHACEAEACHNANTHES ...CYMBELLACEAECYMBELLA ...DIATOMACEAEDIATOMA ...GOMPHONEMATAEAEGOMPHONEMA ...NAVICULACEAENAVICULA ...NITZSCHIAEAENITZSCHIA CHRYSOPHYCEAE ...CHRYSONOMADALES ...MALLOMONADACEAEMALLOMONAS CYANOPHYTA .MYXOPHYCEAE ..OSCILLATORIALES ...OSCILLATORIAEAELYNGBYA TOTAL	20 10 10 40 20 150 40 720 1,000	2 1 1 4 2 15 4 72	DEPTH INTEGRATED

QUALITATIVE AND QUANTITATIVE ANALYSES OF BIOLOGICAL DATA, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975

PHYTOPLANKTON

DATE	TIME	ORGANISM	COUNT (CELLS/ML)	PERCENT OF TOTAL	SAMPLING METHOD
MAY 27	1500	CHLOROPHYTA			DEPTH INTEGRATED
		..CHLOROPHYCEAE			
		...CHLOROCOCCALES			
		...OCCYSTACEAE			
		ANKISTRODESMUS	46	2	
		CHRYSTOPHYTA			
		..BACILLARIOPHYCEAE			
		..CENTRALES			
		...COSCINODISCACEAE			
		...CYCLOTELLA	92	4	
		..PENNALES			
		...ACHNANTHACEAE			
		...ACHNANTHES	46	2	
		...FRAGILARIACEAE			
		SYNEDRA	140	6	
		...GOMPHONEMACEAE			
		GOMPHONEMA	46	2	
		...NAVICULACEAE			
		NAVICULA	92	4	
		...NITZSCHACEAE			
		NITZSCHIA	180	8	
		..CHRYSTOPHYCEAE			
		...CHRYSONOMADALES			
		...OCHROMONADACEAE			
		DINOBRYON	440	19	
		CYANOPHYTA			
		..MYXOPHYCEAE			
		...CHROOCOCCALES			
		...CHROOCOCCACEAE			
		ANACYSTIS			
		ANACYSTIS INCERTA	1,200	53	
		EUGLENOPHYTA			
		..EUGLENOPHYCEAE			
		..EUGLENALES			
		...EUGLENACEAE			
		TRACHELOMONAS	46	2	
		TOTAL	2,300		

01059000 ANDROSCOGGIN RIVER NEAR AUBURN, MAINE--Continued

QUALITATIVE AND QUANTITATIVE ANALYSES OF BIOLOGICAL DATA, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975

PHYTOPLANKTON

DATE	TIME	ORGANISM	COUNT (CELLS/ML)	PERCENT OF TOTAL	SAMPLING METHOD
JUNE 24	1430	CHLOROPHYTA			DEPTH INTEGRATED
		..CHLOROPHYCEAE			
		...CHLOROCOCCALES			
		...HYDRODICTYACEAE			
		PEDIASTRUM			
		...OCCYSTACEAE			
		ANKISTRODESMUS	51	4	
		...SCENEDESMACEAE			
		CRUCIGENIA	51	4	
		...SCENEDESMUS	230	20	
		..ZYGNEMATALES			
		...DESMIDIACEAE			
		ARTHRODESMUS	12	1	
		CHRYSOPHYTA			
		..BACILLARIOPHYCEAE			
		...CENTRALES			
		...COSCINODISCEACEAE			
		CYCLOTELLA	12	1	
		MELOSIRA	51	4	
		..PENNALES			
		ACHNANTHACEAE			
		ACHNANTHES	76	7	
		COCONEIS	25	2	
		...CYMBELLACEAE			
		CYMBELLA	12	1	
		...DIATOMACEAE			
		DIATOMA	12	1	
		...EUNOTIACEAE			
		EUNOTIA	38	3	
		...FRAGILARIACEAE			
		ASTERIONELLA	38	3	
		...NAVICULACEAE			
		NAVICULA	25	2	
		PINNULARIA	25	2	
		...NITZSCHACEAE			
		NITZSCHIA	89	8	
		...TABELLARIACEAE			
		TABELLARIA	12	1	
		..CHRYSOPHYCEAE			
		...CHRYSOMONADALES			
		...MALLOMONADACEAE			
		MALLOMONAS	12	1	
		...OCHROMONADACEAE			
		DINOBRYON	12	1	
		..XANTHOPHYCEAE			
		...HETEROCOCCALES			
		...CHLOROTHECIACEAE			
		OPHIOCYTIUM	12	1	
		CYANOPHYTA			
		..MYXOPHYCEAE			
		...CHROOCOCCALES			
		...CHROOCOCCACEAE			
		AGMENELLUM	300	26	
		...OSCILLATORIALES			
		...OSCILLATORIAACEAE			
		LYNGBYA	63	5	
		TOTAL	1,100		

QUALITATIVE AND QUANTITATIVE ANALYSES OF BIOLOGICAL DATA, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975

PHYTOPLANKTON

DATE	TIME	ORGANISM	COUNT (CELLS/ML)	PERCENT OF TOTAL	SAMPLING METHOD
AUG. 04	1330	CHLOROPHYTA			DEPTH INTEGRATED
		..CHLOROPHYCEAE			
		...CHLOROCOCCALES			
		...HYDRODICTYACEAE			
		PEDIASTRUM	100	4	
		MICRACTINIACEAE			
		MICRACTINIUM	330	12	
		...OCCYSTACEAE			
		ANKISTRODESMUS	100	4	
		DICTYOSPHAERIUM	580	21	
		KIRCHNERIELLA	21	1	
		QUADRIGULA			
		SELENASTRUM			
		...SCENEDESMACEAE			
		CRUCIGENIA	84	3	
		SCENEDESMUS	250	9	
		TETRASTRUM	84	3	
		..TETRASPORALES			
		...PALMELLACEAE			
		...GLOEOCYSTIS	42	2	
		..VOLVOCALES			
		...CHLAMYDOMONADACEAE			
		CHLAMYDOMONAS			
		...VOLVOCAEAE			
		EUDORINA			
		PANDORINA			
		..ZYGNEMATALES			
		...DESMIDIACEAE			
		COSMARIUM			
		STAURASTRUM			
		CHRYSTOPHYTA			
		..BACILLARIOPHYCEAE			
		...CENTRALES			
		...COSCINODISCACEAE			
		CYCLOTELLA	42	2	
		..PENNALES			
		...ACHNANTHACEAE			
		ACHNANTHES	21	1	
		COCCONEIS	21	1	
		...CYMBELLACEAE			
		CYMBELLA			
		...DIATOMACEAE			
		DIATOMA	100	4	
		...FRAGILARIACEAE			
		ASTERIONELLA	21	1	
		...FRAGILARIA			
		SYNEDRA	21	1	
		...GOMPHONEMACEAE			
		GOMPHONEMA			
		...NAVICULACEAE			
		NAVICULA	84	3	
		...PINNULARIA			
		...NITZSCHIA			
		NITZSCHIA	180	7	
		..CHRYSTOPHYCEAE			
		...CHRYSOMONADALES			
		...OCHROMONADACEAE			
		DINOBRYON			
		..XANTHOPHYCEAE			
		...HETEROCOCCALES			
		...CHLOROTHECIACEAE			
		OPHIOCYTIUM	21	1	
		CYANOPHYTA			
		..MYXOPHYCEAE			
		...CHROOCOCCALES			
		...CHROOCOCCACEAE			
		ANACYSTIS	630	23	
		...OSCILLATORIALES			
		...OSCILLATORIA			
		...OSCILLATORIA			
		EUGLENOPHYTA			
		..EUGLENOPHYCEAE			
		...EUGLENALES			
		...EUGLENACEAE			
		EUGLENA			
		LEPOCINCLIS			
		...TRACHELOMONAS			
		PYRRHOPHYTA			
		..DINOPHYCEAE			
		...PERIDINIALES			
		...PERIDINIAEAE			
		PERIDINIUM	21	1	
		TOTAL	2,800		

01059000 ANDROSCOGGIN RIVER NEAR AUBURN, MAINE--Continued

QUALITATIVE AND QUANTITATIVE ANALYSES OF BIOLOGICAL DATA, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975

PHYTOPLANKTON

DATE	TIME	ORGANISM	COUNT (CELLS/ML)	PERCENT OF TOTAL	SAMPLING METHOD
AUG. 25	1330	CHLOROPHYTA			DEPTH INTEGRATED
		..CHLOROPHYCEAE			
		...CHLOROCOCCALES			
		...HYDRODICTYACEAE			
		PEDIASTRUM	200	3	
		...MICRACTINIACEAE			
		MICRACTINIUM	1,000	17	
		...OCCYSTACEAE			
		ANKISTRODESMUS	120	2	
		DICTYOSPHAERIUM	100	2	
		KIRCHNERIELLA	25		
		...SCENEDESMACEAE			
		CRUCIGENIA	100	2	
		SCENEDESMUS	510	8	
		TETRASTRUM	200	3	
		CHRYCOPHYTA			
		..BACILLARIOPHYCEAE			
		..CENTRALES			
		...COSCINODISCACEAE			
		CYCLOTELLA			
		MELOSIRA	380	6	
		..PENNALES			
		...GOMPHONEMATACEAE			
		GOMPHONEMA	25		
		...NAVICULACEAE			
		NAVICULA			
		PINNULARIA			
		...NITZSCHACEAE			
		NITZSCHIA	25		
		CYANOPHYTA			
		..MYXOPHYCEAE			
		...OSCILLATORIALES			
		OSCILLATORIAACEAE			
		LYNGBYA	3,400	55	
		TOTAL	6,100		
SEP. 16	1500	CHLOROPHYTA			DEPTH INTEGRATED
		..CHLOROPHYCEAE			
		...CHLOROCOCCALES			
		...HYDRODICTYACEAE			
		PEDIASTRUM			
		...OCCYSTACEAE			
		ANKISTRODESMUS	26	2	
		DICTYOSPHAERIUM	100	7	
		...SCENEDESMACEAE			
		CRUCIGENIA	100	7	
		SCENEDESMUS	750	50	
		..VOLVOCALES			
		...VOLVOCAEE			
		EUDORINA			
		CHRYCOPHYTA			
		..BACILLARIOPHYCEAE			
		..CENTRALES			
		...COSCINODISCACEAE			
		CYCLOTELLA	53	4	
		MELOSIRA	290	20	
		..PENNALES			
		...ACHNANTHACEAE			
		ACHNANTHES	26	2	
		...EUNOTIACEAE			
		EUNOTIA			
		...FRAGILARIACEAE			
		ASTERIONELLA	53	4	
		SYNEDRA			
		...GOMPHONEMATACEAE			
		GOMPHONEMA			
		...NAVICULACEAE			
		NAVICULA	53	4	
		PINNULARIA			
		...NITZSCHACEAE			
		NITZSCHIA	26	2	
		...TABELLARIACEAE			
		TABELLARIA			
		CYANOPHYTA			
		..MYXOPHYCEAE			
		...CHROOCOCCALES			
		...CHROOCOCCACEAE			
		ANACYSTIS			
		EUGLENOPHYTA			
		..EUGLENOPHYCEAE			
		...EUGLENALES			
		...EUGLENACEAE			
		PHACUS			
		...TRACHELOMONAS			
		TOTAL	1,500		

ANDROSCOGGIN RIVER BASIN

01059000 ANDROSCOGGIN RIVER NEAR AUBURN, MAINE--Continued

QUALITATIVE AND QUANTITATIVE ANALYSES OF BIOLOGICAL DATA, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975

DATE	LENGTH OF EXPOSURE (DAYS)	PERIPHYTON					SAMPLING METHOD
		BIOMASS (G/SQ M)		CHLOROPHYLL	CHLOROPHYLL	BIOMASS	
		DRY WEIGHT	ASH WEIGHT	A (MG/SQ M)	B (MG/SQ M)	PIGMENT RATIO	
JUNE 24	28	4.5	3.7	0.4	0.1	2300	POLYETHYLENE STRIP
AUG. 04	41	13	10	4.5	1.1	690	POLYETHYLENE STRIP

ANDROSCOGGIN RIVER BASIN

137

01059160 SABATTUS RIVER NEAR LISBON CENTER, MAINE

LOCATION.--Lat 44°01'13", long 70°05'27", Androscoggin County, on left bank about 600 ft (183 m) downstream from Mill Street Bridge, near Lisbon Center, Maine.

DRAINAGE AREA.--72.3 mi² (187 km²).

WATER DISCHARGE RECORDS

PERIOD OF RECORD.--June 20 to Sept. 30, 1975.

GAGE.--Water-stage recorder. Altitude of gage is 140 ft (42.7 m) from topographic map.

REMARKS.--Records fair.

EXTREMES.--Maximum discharge during period, 914 ft³/s (25.9 m³/s) Sept. 27 (gage height, 5.87 ft or 1.789 m); Minimum, 22 ft³/s (0.623 m³/s) Aug. 24,28 (gage height, 3.64 ft or 1.110 m).

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1										31	36	32
2										28	37	29
3										29	36	27
4										30	34	27
5										36	39	30
6										28	38	52
7										27	39	51
8										27	49	38
9										27	43	33
10										30	32	35
11										28	29	60
12										27	30	65
13										34	32	70
14										95	32	64
15										51	30	71
16										57	32	97
17										40	31	98
18										32	30	98
19										30	29	100
20									88	29	28	116
21									76	33	28	109
22									70	36	28	100
23									64	30	25	106
24									60	29	23	106
25									53	34	24	107
26									49	36	23	140
27									43	33	24	312
28									39	34	22	218
29									36	33	23	145
30					-----				35	33	48	133
31		-----			-----		-----		-----	34	49	-----
TOTAL										1081	1003	2669
MEAN										34.9	32.4	89.0
MAX										95	49	312
MIN										27	22	27
CFSM										.48	.45	1.23
IN.										.56	.52	1.37

ANDROSCOGGIN RIVER BASIN

Reservoirs in Androscoggin River basin

- 01050500 RANGELEY LAKE on Rangeley Stream, at Oquossoc, Maine, used for power, has usable capacity of 1,339,200,000 ft³ (37,926,000 m³) in top 4.0 ft (1.22 m) of lake (top of flashboards). Gage-height record furnished by Union Water Power Co.
- 01051000 MOOSELOOKMEGUNTIC LAKE at Upper Dam, in Richardson Township, Maine, used for power, has usable capacity of 8,370,000,000 ft³ (237,000,000 m³) between gage heights 8.3 and 20.5 ft (2.53 and 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 and 20.5 ft (0.91 and 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 and 1,535.0 ft (454.15 and 467.87 m). Elevation record furnished by Union Water Power Co.
- 01053000 UMBAGOG LAKE on Androscoggin River, at Errol Dam, 0.6 mi (1.0 km) northeast of Errol, N.H., used for power, has usable capacity of 3,080,160,000 ft³ (87,230,100 m³) between gage heights 5.5 and 15.0 ft (1.68 and 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 and 260.7 ft (77.63 and 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 and 100.0 ft (28.96 and 30.48 m). Gage-height record furnished by Robinson Manufacturing Co.

MONTHEND CONTENTS IN MILLIONS OF CUBIC FEET, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975

MONTHEND CONTENTS IN MILLIONS OF CUBIC FEET, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975

DATE	RANGELEY LAKE	MOOSELOOKMEGUNTIC LAKE	UPPER AND LOWER RICHARDSON LAKES	AZISCOHOS LAKE
SEPT. 30, 1974	934	3,960	3,770	6,856
OCT. 31	445	3,246	1,305	6,898
NOV. 30	335	2,906	786	7,248
DEC. 31	502	4,164	170	7,290
JAN. 31, 1975	167	3,926	746	4,335
FEB. 28	57	2,199	1,381	2,401
MAR. 31	194	468	2,448	7,654
APR. 30	754	1,366	2,668	4,072
MAY 31	1,339	7,223	4,694	8,665
JUNE 30	1,256	7,867	4,881	9,283
JULY 31	1,115	6,118	4,214	8,488
AUG. 31	863	4,096	3,215	6,842
SEPT. 30	920	2,838	2,686	7,360

DATE	UMBAGOG LAKE	GULF ISLAND POND	LAKE AUBURN	THOMPSON LAKE
SEPT. 30, 1974	2,015	2,470	310	1,685
OCT. 31	1,884	2,264	310	1,457
NOV. 30	1,996	2,269	353	1,495
DEC. 31	2,015	2,206	397	1,552
JAN. 31, 1975	2,053	2,140	430	1,590
FEB. 28	1,977	2,227	408	1,628
MAR. 31	1,380	2,478	580	1,666
APR. 30	1,045	2,492	592	1,799
MAY 31	3,060	2,293	520	1,875
JUNE 30	1,884	2,246	544	1,875
JULY 31	1,996	2,285	485	1,894
AUG. 31	2,072	2,304	452	1,799
SEPT. 30	2,224	2,410	430	1,666

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

ROYAL RIVER BASIN

139

01059800 COLLYER BROOK NEAR GRAY, MAINE

LOCATION.--Lat 43°55'03", long 70°19'02", Cumberland County, 50 ft (15 m) downstream from U.S. Highway 202, 2.4 mi (3.9 km) northeast of Gray, and 3.4 mi (5.5 km) upstream from mouth.

DRAINAGE AREA.--13.9 mi² (36.0 km²).

WATER DISCHARGE RECORDS

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 good except those for winter period, which are fair.

AVERAGE DISCHARGE.--11 years, 26.9 ft³/s (0.762 m³/s), 26.28 in/yr (668 mm/yr).

EXTREMES.--Period of record: Maximum discharge, 1,220 ft³/s (34.6 m³/s) Dec. 27, 1969 (gage height, 3.48 ft or 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.

Current year: Peak discharges above base of 175 ft³/s (4.96 m³/s) and maximums (*):

Date	Time	Discharge (ft ³ /s) (m ³ /s)	Gage height (ft) (m)	Date	Time	Discharge (ft ³ /s) (m ³ /s)	Gage height (ft) (m)
Feb. 2	0700	ice jam	*3.54 1.079	Apr. 4	0745	187 5.30	2.21 0.674
Mar. 20	1645	*772 21.9	3.12 0.951				

Minimum discharge, 13 ft³/s (0.37 m³/s) Sept. 15, gage height, 0.90 ft or 0.274 m).

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	18	18	21	16	21	26	36	30	22	16	15	18
2	20	18	22	16	19	24	34	30	22	16	14	17
3	21	17	48	16	18	22	45	30	20	15	14	17
4	19	19	32	16	17	21	151	30	33	17	14	17
5	18	24	27	16	17	20	70	29	31	22	14	16
6	18	25	21	16	17	19	52	28	53	17	15	16
7	18	20	19	16	17	18	58	27	47	17	17	16
8	17	19	25	16	17	20	61	27	32	18	25	16
9	18	18	72	16	17	22	56	26	26	18	19	16
10	18	18	36	17	17	24	55	26	23	23	17	15
11	18	17	28	20	16	21	57	26	21	20	16	16
12	17	20	25	25	16	20	56	25	20	19	16	16
13	17	42	25	31	16	19	53	24	71	39	16	21
14	17	26	24	26	16	19	51	24	68	39	16	17
15	17	21	22	22	16	18	55	24	40	26	16	16
16	19	20	18	20	16	18	56	24	32	22	15	16
17	29	19	22	18	16	19	56	24	29	20	16	17
18	21	19	23	17	16	21	54	23	27	19	16	17
19	19	19	22	16	16	27	63	22	25	18	16	17
20	19	20	22	17	16	352	58	22	21	17	15	24
21	19	81	21	18	16	195	48	21	20	22	15	20
22	18	42	20	16	16	75	41	21	19	21	17	18
23	18	27	19	15	16	77	38	21	18	19	16	20
24	18	23	19	15	18	74	45	21	18	18	16	22
25	18	22	18	15	28	93	44	20	18	18	17	21
26	18	22	18	22	37	89	39	20	17	18	17	20
27	18	24	18	33	32	65	37	20	16	16	16	49
28	18	20	17	42	29	48	35	20	16	16	15	30
29	18	18	17	30	---	39	31	20	17	16	15	21
30	18	18	17	27	---	39	31	19	18	15	29	19
31	18	---	16	24	---	42	---	22	---	15	24	---
TOTAL	577	716	754	630	529	1586	1566	746	840	612	519	581
MEAN	18.6	23.9	24.3	20.3	18.9	51.2	52.2	24.1	28.0	19.7	16.7	19.4
MAX	29	81	72	42	37	352	151	30	71	39	29	49
MIN	17	17	16	15	16	18	31	19	16	15	14	15
CFSM	1.34	1.72	1.75	1.46	1.36	3.68	3.76	1.73	2.01	1.42	1.20	1.40
IN.	1.54	1.92	2.02	1.69	1.42	4.24	4.19	2.00	2.25	1.64	1.39	1.55

CAL YR 1974	TOTAL	12121	MEAN 33.2	MAX 552	MIN 15	CFSM 2.39	IN 32.44
WTR YR 1975	TOTAL	9656	MEAN 26.5	MAX 352	MIN 14	CFSM 1.91	IN 25.84

ROYAL RIVER BASIN

01060000 ROYAL RIVER AT YARMOUTH, MAINE

LOCATION.--Lat 43°47'57", long 70°10'45", Cumberland County, on right bank 150 ft (46 m) upstream from lower highway bridge, in Yarmouth.

DRAINAGE AREA.--142 mi² (368 km²).

WATER DISCHARGE RECORDS

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 excellent except those for winter period, which are fair. Some diurnal fluctuation at low flow caused by mill above station.

AVERAGE DISCHARGE.--26 years, 272 ft³/s (7.703 m³/s), 26.01 in/yr (661 mm/yr).

EXTREMES.--Period of record: Maximum discharge, 7,960 ft³/s (225 m³/s) Sept. 12, 1954 (gage height, 7.12 ft or 2.170 m); minimum, 4.4 ft³/s (0.12 m³/s) Oct. 17, 18, 1962 (gage height, 0.71 ft or 0.216 m).

Current year: Peak discharges above base of 1,500 ft³/s (42.48 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. 21	2400	1,510 43.8	3.34 1.018	Apr. 4	0400	2,420 68.5	4.10 1.250
Mar. 21	1700	*3,840 109	*5.06 1.542	June 14	1600	2,110 59.8	3.85 1.174

Minimum discharge, 27 ft³/s (0.76 m³/s) Aug. 5, gage height, 0.96 ft (0.293 m).

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	142	65	126	120	110	270	401	225	79	61	44	42
2	126	64	162	120	100	240	343	209	83	52	44	67
3	184	62	557	115	96	215	630	201	77	52	41	62
4	136	65	606	110	96	200	2270	193	119	51	40	59
5	101	104	392	110	98	175	1620	189	214	77	38	54
6	88	175	252	100	100	160	938	176	276	80	42	50
7	81	160	178	98	105	150	811	163	624	65	45	49
8	73	122	198	100	105	160	913	158	426	62	72	47
9	68	100	964	105	100	170	840	146	269	63	88	47
10	66	90	930	105	100	145	688	138	183	78	67	46
11	63	80	484	120	99	130	660	133	134	93	55	44
12	61	85	334	190	97	125	663	127	111	75	51	43
13	60	483	305	300	95	125	619	124	828	92	49	60
14	55	600	275	240	94	125	540	128	2010	217	47	63
15	58	331	228	200	93	125	534	122	1400	157	45	53
16	66	231	156	170	92	130	547	117	550	114	43	47
17	153	175	293	150	91	140	538	115	339	97	46	46
18	160	147	386	130	90	170	523	107	254	82	45	46
19	108	133	309	145	89	270	566	101	197	71	43	47
20	92	144	249	160	92	1470	680	97	156	62	38	61
21	88	1150	213	135	91	3570	541	89	124	66	37	79
22	82	1370	196	130	90	2710	409	87	107	81	41	71
23	78	622	185	120	95	1700	343	86	96	71	40	66
24	74	336	174	115	110	1350	364	84	88	60	37	82
25	71	286	165	120	175	1320	470	79	81	57	42	89
26	68	277	155	145	400	1350	403	75	74	56	45	90
27	63	219	142	160	375	947	339	76	68	52	47	351
28	63	204	139	170	310	617	300	80	65	49	46	428
29	62	171	133	150	---	481	271	74	61	48	44	212
30	64	149	131	130	---	425	245	65	67	46	98	140
31	64	---	125	120	---	464	---	71	---	45	147	---
TOTAL	2722	8200	9142	4383	3588	19629	19009	3837	9164	2328	1607	2691
MEAN	87.8	273	295	141	128	633	634	124	305	75.1	51.8	89.7
MAX	188	1370	964	300	400	3570	2270	225	2010	217	147	428
MIN	55	62	125	98	89	125	245	65	61	45	37	43
CFSM	.62	1.92	2.08	.99	.90	4.46	4.46	.87	2.15	.63	.36	.63
IN.	.71	2.15	2.39	1.15	.94	5.14	4.98	1.01	2.40	.61	.42	.70
CAL YR 1974	TOTAL	107861	MEAN 296	MAX 2920	MIN 40	CFSM 2.08	IN 28.26					
WTR YR 1975	TOTAL	86300	MEAN 236	MAX 3570	MIN 37	CFSM 1.66	IN 22.61					

PRESUMPCOT RIVER BASIN

141

01063100 CROOKED RIVER NEAR NAPLES, MAINE

LOCATION.--Lat 43°58'44", long 70°33'50", Cumberland County, downstream side of left bridge pier of bridge on State Highway 11, near Naples, Maine.

DRAINAGE AREA.--163 mi² (422 km²).

WATER DISCHARGE RECORDS

PERIOD OF RECORD.--May 24 to Sept. 30, 1975.

GAGE.--Water-stage recorder. Altitude of gage is 286 ft (87.2 m) from topographic map.

REMARKS.--Records fair.

EXTREMES.--Maximum discharge during period, 676 ft³/s (19.1 m³/s), July 15 (gage height, 5.21 ft or 1.588 m); minimum, 50 ft³/s (1.42 m³/s), Aug. 28, (gage height, 0.96 ft or 0.293 m).

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1									122	79	82	83
2									125	77	79	76
3									123	75	77	73
4									135	73	75	71
5									148	70	73	66
6									170	69	69	64
7									239	69	69	61
8									250	68	82	59
9									235	66	79	59
10									194	159	70	57
11									162	231	66	56
12									140	330	62	55
13									172	330	64	59
14									307	586	62	59
15									336	659	59	57
16									310	622	56	57
17									265	506	56	57
18									220	373	55	57
19									184	272	55	57
20									160	210	53	66
21									138	176	52	70
22									125	161	52	74
23									114	156	52	80
24								168	114	137	52	86
25								154	107	127	52	88
26								143	102	116	52	91
27								136	94	110	52	127
28								134	90	100	50	207
29								128	82	95	52	214
30					-----			124	81	90	73	187
31		-----			-----		-----	123	-----	85	83	-----
TOTAL									5044	6277	1965	2473
MEAN									168	202	63.4	82.4
MAX									336	659	83	214
MIN									81	66	50	55
CFSM									1.03	1.24	.39	.51
IN.									1.15	1.43	.45	.56

PRESUMPCOT RIVER BASIN

01064000 PRESUMPCOT RIVER AT OUTLET OF SEBAGO LAKE, MAINE

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

DRAINAGE AREA.--436 mi² (1,129 km²).

WATER DISCHARGE RECORDS

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

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

REVISIONS (WATER YEARS).--WSP 261: Drainage area. WSP 1301: 1920-50 (adjusted monthly runoff).

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

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 Pond 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).

AVERAGE DISCHARGE.--88 years, 660 ft³/s (18.7 m³/s), 20.56 in/yr (522 mm/yr), unadjusted.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	720	655	655	664	596	339	400	872	589	0	600	490
2	720	655	655	664	596	339	400	879	610	0	600	490
3	720	685	655	660	563	338	400	878	592	0	600	490
4	720	669	655	660	536	339	400	877	600	602	670	490
5	720	806	655	661	536	339	405	870	600	602	670	490
6	720	806	655	630	536	339	405	969	600	583	670	490
7	720	806	655	604	537	339	410	976	600	556	670	490
8	720	806	655	605	537	337	508	999	600	548	670	490
9	735	806	655	605	537	345	753	978	588	548	670	490
10	735	806	655	606	490	350	746	979	588	548	661	480
11	735	794	655	605	421	350	746	979	590	548	661	485
12	720	818	655	590	421	350	746	681	588	548	670	485
13	720	806	655	591	420	345	746	872	578	548	661	490
14	720	744	655	591	421	350	746	818	578	554	670	490
15	720	655	655	592	420	350	753	813	590	548	670	490
16	735	655	635	586	368	350	753	663	590	550	670	490
17	735	655	609	595	352	350	753	661	590	548	670	490
18	735	655	609	597	345	356	753	656	588	548	670	490
19	735	655	609	592	344	339	746	662	594	541	670	490
20	720	655	627	594	344	345	746	662	599	496	661	490
21	720	655	655	596	338	339	666	664	596	548	655	490
22	720	655	382	598	338	341	673	662	600	550	661	490
23	720	655	258	594	338	341	738	662	605	550	661	485
24	720	655	248	594	338	341	746	662	592	548	655	480
25	735	670	248	598	365	341	746	662	605	548	655	485
26	735	655	253	598	336	341	746	660	602	548	655	485
27	720	655	261	594	338	337	746	660	600	548	196	497
28	720	655	232	594	344	341	902	660	602	548	661	497
29	720	655	232	598	---	337	1030	619	0	600	655	497
30	720	655	496	598	---	337	1030	592	0	600	655	490
31	735	---	655	598	---	371	---	569	---	600	661	---
TOTAL	22470	21157	16834	18852	12055	10656	20338	23816	16654	15604	19924	14676
MEAN	725	705	543	608	431	344	678	768	555	503	643	489
MAX	735	818	655	664	596	371	1030	999	610	602	670	497
MIN	720	655	232	586	336	337	400	569	0	0	196	480
MEAN*	303	474	733	440	419	904	1747	824	308	436	19	80
CFSM*	.70	1.09	1.68	1.01	.96	2.07	4.01	1.89	.71	1.00	.04	.18
IN.	.80	1.22	1.94	1.16	1.00	2.39	4.47	2.18	.79	1.15	.05	.20

CAL YR 1974 TOTAL 318278.00 MEAN 872 MAX 1950 MIN 0 MEAN* --- CFSM* --- IN.* ---
WTR YR 1975 TOTAL 213036.00 MEAN 584 MAX 1030 MIN 0 MEAN* 558 CFSM* 1.28 IN.* 17.35

*Adjusted for change in contents in Sebago Lake, diversion by Portland Water District, and leakage through dam.
Note.--No 1974 calendar year adjustments made as contents of Long Lake not available after September 30, 1974.

STROUDWATER RIVER BASIN

143

01064158 STROUDWATER RIVER AT SOUTH PORTLAND, MAINE

LOCATION.--Lat 43°39'26", long 70°18'52", Cumberland County, on left bank, 100 ft (30.5 m) upstream from bridge on Westbrook Street, 15 ft (4.57 m) upstream from dam, at Portland.

DRAINAGE AREA.--27.6 mi² (71.5 km²).

WATER DISCHARGE RECORDS

PERIOD OF RECORD.--May 23 to Sept. 30, 1975.

GAGE.--Water-stage recorder. Altitude of gage is 20 ft (6.10 m) from topographic map.

REMARKS.--Records fair.

EXTREMES.--Maximum discharge during period, 591 ft³/s (16.7 m³/s) June 13 (gage height, 2.87 ft or 0.875 m); minimum, 0.90 ft³/s (0.026 m³/s) Aug. 24 (gage height, 0.94 ft or 0.287 m).

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1									14	7.9	2.5	15
2									15	6.0	2.1	8.8
3									14	5.2	1.9	7.9
4									22	5.2	1.8	9.2
5									29	4.9	1.9	7.4
6									63	4.6	2.1	5.4
7									100	4.6	2.6	4.4
8									42	5.4	14	4.4
9									29	6.3	17	4.3
10									22	6.8	8.8	3.8
11									18	7.1	4.6	3.5
12									16	7.4	3.8	3.6
13									180	11	4.4	11
14									235	16	4.1	16
15									74	10	3.3	9.7
16									44	9.2	2.6	6.6
17									34	13	1.9	5.7
18									28	10	1.8	4.6
19									23	5.4	1.6	4.6
20									20	4.0	1.5	5.4
21									17	6.6	1.3	10
22									14	16	1.1	24
23								11	13	9.7	1.0	22
24								10	11	5.4	.97	24
25								8.3	8.8	4.3	1.2	32
26								7.4	6.8	3.8	1.9	31
27								8.8	6.3	3.6	2.7	140
28								11	5.7	3.2	2.6	83
29								11	5.7	3.0	2.7	32
30					-----			8.3	6.6	2.9	16	22
31		-----			-----		-----	12	-----	2.7	27	-----
TOTAL									1116.9	211.2	142.77	561.3
MEAN									37.2	6.81	4.61	18.7
MAX									235	16	27	140
MIN									5.7	2.7	.97	3.5
CFSM									1.35	.25	.17	0.68
IN.									1.51	.28	.19	0.76

SACO RIVER BASIN

01064500 SACO RIVER NEAR CONWAY, N.H.

LOCATION.--Lat 43°59'27", long 71°05'29", Carroll County, on left bank at Odell Falls, 1.8 mi (2.9 km) downstream from Swift River and Conway.

DRAINAGE AREA.--386 mi² (1,000 km²).

WATER DISCHARGE RECORDS

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."

GAGE.--Water-stage recorder. Datum of gage is 418.19 ft (127.464 m) above mean sea level. Aug. 26, 1903, to June 30, 1912, nonrecording gage at site 0.8 mi (1.3 km) downstream at different datum.

REVISIONS (WATER YEARS).--WSP 756: Drainage area. WSP 1301: 1908-9.

REMARKS.--Records excellent except those for winter period and period of no gage-height record, which are fair.

AVERAGE DISCHARGE.--52 years (1903-9, 1929-75), 921 ft³/s (26.08 m³/s), 32.40 in/yr (823 mm/yr).

EXTREMES.--Period of record: Maximum discharge, 43,900 ft³/s (1,240 m³/s) Mar. 27, 1953 (gage height, 17.20 ft or 5.243 m), from rating curve extended above 23,000 ft³/s (651 m³/s) on basis of slope-area measurement of peak flow; minimum, 40 ft³/s (1.13 m³/s) Mar. 16, 1932 (gage height, 1.61 ft or 0.491 m).

Current year: Peak discharges above base of 8,700 ft³/s (246 m³/s) and maximums (*):

Date	Time	Discharge (ft ³ /s) (m ³ /s)	Gage height (ft) (m)	Date	Time	Discharge (ft ³ /s) (m ³ /s)	Gage height (ft) (m)
Mar. 18	1600	*11,300 320	*8.84 2,694				

Minimum daily discharge, 130 ft³/s (3.68 m³/s) Aug. 3.

DISCHARGE, IN CUBIC FEET PER SECOND. WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	714	280	450	420	270	436	870	2240	750	210	150	272
2	587	275	480	400	265	393	830	2510	781	185	140	225
3	662	270	1300	380	265	365	780	3400	667	190	130	239
4	552	265	1000	370	260	340	760	3880	720	180	135	257
5	483	375	780	365	260	315	730	4370	770	170	150	221
6	451	580	620	360	260	300	698	3470	1090	165	190	205
7	432	460	520	360	260	285	677	3540	1400	160	250	200
8	393	390	720	365	260	280	709	3860	1100	155	333	190
9	369	340	6000	390	255	270	730	3400	860	155	361	233
10	360	310	3600	425	255	265	740	3190	770	150	275	284
11	350	290	2200	470	255	265	750	3060	700	280	236	217
12	330	1000	1400	640	250	260	780	3110	640	500	220	216
13	320	1390	1150	580	250	260	830	3260	900	700	211	488
14	310	866	1000	510	250	260	900	3840	1500	1900	203	333
15	330	729	860	450	250	265	1030	3030	1350	1200	192	265
16	370	629	780	400	250	270	1100	2720	1150	860	183	239
17	473	574	700	380	250	285	1300	2640	950	640	178	225
18	524	536	650	370	250	4560	1700	2120	800	475	178	224
19	468	530	600	350	260	4220	2840	1930	670	370	170	236
20	400	2530	560	340	270	2410	4740	1940	590	300	160	644
21	365	1960	520	330	265	1970	3400	1850	520	340	154	637
22	343	1300	490	320	260	1670	2560	1700	460	370	159	527
23	337	1100	470	310	280	1980	2440	1450	400	320	175	397
24	336	1200	440	300	375	2060	2310	1280	350	300	166	424
25	325	1750	420	300	540	1510	2930	1100	300	385	175	440
26	320	1300	400	290	660	1410	3500	920	270	330	188	463
27	311	950	380	290	580	1250	3830	840	250	275	177	2260
28	298	730	450	280	500	1160	4060	1200	220	240	163	1470
29	290	600	540	280	---	1030	3090	900	200	210	155	908
30	290	500	490	275	---	939	2440	742	250	185	316	673
31	290	---	450	270	---	888	---	770	---	170	411	---
TOTAL	12383	24009	30420	11570	8605	32171	54054	74262	21378	12070	6284	13612
MEAN	399	800	981	373	307	1038	1802	2396	713	389	203	454
MAX	714	2530	6000	640	660	4560	4740	4370	1500	1900	411	2260
MIN	290	265	380	270	250	260	677	742	200	150	130	190
CFSM	1.03	2.07	2.54	.97	.80	2.69	4.67	6.21	1.85	1.01	.53	1.18
IN.	1.19	2.31	2.93	1.12	.83	3.10	5.21	7.16	2.06	1.16	.61	1.31

CAL YR 1974 TOTAL 368909 MEAN 1011 MAX 7360 MIN 170 CFSM 2.62 IN 35.55
WTR YR 1975 TOTAL 300818 MEAN 824 MAX 6000 MIN 130 CFSM 2.13 IN 28.99

Note.--No gage-height record June 7 to Aug. 7.

01065000 OSSIPEE RIVER AT EFFINGHAM FALLS, N.H.

LOCATION.--Lat 43°47'44", long 71°03'36", Carroll County, 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).

WATER DISCHARGE RECORDS

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

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

REMARKS.--Records excellent. Flow regulated by Ossipee and Silver Lakes and Pine River Pond (combined capacity, 1,430,000,000 ft³ or 40,500,000 m³).

AVERAGE DISCHARGE.--33 years, 687 ft³/s (19.46 m³/s), 28.27 in/yr (718 mm/yr).

EXTREMES.--Period of record: Maximum discharge, 11,700 ft³/s (331 m³/s) Mar. 28, 1953 (gage height, 11.64 ft or 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.

Current year: Maximum discharge, 2,560 ft³/s (72.5 m³/s) Apr. 27 (gage height, 6.95 ft or 2.118 m); minimum, 133 ft³/s (3.77 m³/s) Sept. 10; minimum daily, 165 ft³/s (4.67 m³/s) Aug. 27-29, Sept. 3, 4.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	552	321	373	481	384	725	1290	1980	180	181	170	167
2	547	316	451	477	383	687	1210	1750	180	184	172	167
3	540	311	585	445	381	659	1170	1660	185	185	174	165
4	533	308	521	425	379	619	1140	1650	209	186	175	165
5	524	312	469	423	378	585	1100	1550	233	185	175	227
6	516	318	466	420	378	556	1070	1500	667	183	174	264
7	507	330	463	417	377	537	1030	1450	1020	182	173	262
8	495	256	462	417	375	534	994	1400	1060	181	173	260
9	486	199	716	417	373	480	967	1100	1010	182	174	259
10	477	199	999	310	371	491	939	740	966	190	175	251
11	469	200	1200	233	370	480	921	730	658	194	175	253
12	460	200	1340	235	368	467	916	720	475	199	176	253
13	452	202	1260	239	367	467	921	715	624	452	177	252
14	443	203	1210	243	365	526	921	710	1360	1150	177	251
15	435	207	1160	245	364	548	921	700	1570	1270	177	251
16	428	210	937	247	362	530	944	690	1850	1250	175	251
17	424	212	812	250	360	516	1010	540	2030	1190	172	249
18	422	215	799	251	359	512	1140	530	1560	1140	171	248
19	420	216	784	251	358	505	1370	520	1160	1100	171	249
20	421	218	627	253	356	608	1830	520	877	1050	169	251
21	418	236	530	253	355	944	2220	515	484	535	169	251
22	414	414	530	255	353	1400	2310	510	483	205	169	252
23	409	537	527	256	352	1590	2250	500	297	166	167	253
24	402	559	524	257	352	1620	2230	495	173	167	167	254
25	363	568	523	258	356	1640	2350	490	174	168	167	255
26	345	582	517	262	651	1710	2470	480	175	169	166	394
27	343	580	507	332	790	1760	2540	470	175	169	165	592
28	338	576	501	385	753	1670	2460	460	175	171	165	807
29	333	457	496	386	---	1580	2290	450	177	169	165	810
30	328	373	492	386	---	1480	2110	350	179	170	167	799
31	324	---	485	386	---	1410	---	250	---	171	167	---
TOTAL	13568	9835	21266	10095	11370	27836	45034	26125	20366	13094	5309	9362
MEAN	438	328	686	326	406	898	1501	843	679	422	171	312
MAX	552	582	1340	481	790	1760	2540	1980	2030	1270	177	810
MIN	324	199	373	233	352	467	916	250	173	166	165	165

CAL YR 1974 TOTAL 253527 MEAN 695 MAX 2220 MIN 197
WTR YR 1975 TOTAL 213260 MEAN 584 MAX 2540 MIN 165

SACO RIVER BASIN

01065500 OSSIPEE RIVER AT CORNISH, MAINE

LOCATION.--Lat 43°48'26", long 70°47'55", Oxford County, on left bank 100 ft (30 m) downstream from highway bridge in Cornish, and 1.3 mi (2.1 km) upstream from mouth.

DRAINAGE AREA.--453 mi² (1,173 km²).

WATER DISCHARGE RECORDS

PERIOD OF RECORD.--July 1916 to current year.

GAGE.--Water-stage recorder. Datum of gage is 276.1 ft (84.16 m) above mean sea level. 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.

REVISIONS (WATER YEARS)--WSP 756: Drainage area. WSP 1301: 1927-29 (M).

REMARKS.--Records excellent 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 or 45,300,000 m³).

AVERAGE DISCHARGE.--59 years, 870 ft³/s (24.64 m³/s), 26.08 in/yr (662 mm/yr).

EXTREMES.--Period of record: Maximum discharge, 17,200 ft³/s (487 m³/s) Mar. 21, 1936 (gage height, 16.32 ft or 4.974 m, present datum), from rating curve extended above 7,500 ft³/s (212 m³/s); minimum daily, 65 ft³/s (1.84 m³/s) Sept. 8, 1929.

Current year: Maximum discharge, 3,210 ft³/s (90.9 m³/s) Apr. 27 (gage height, 5.99 ft or 1.826 m); minimum daily, 168 ft³/s (4.76 m³/s) Aug. 29.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	601	374	459	591	550	1000	1810	2500	245	241	191	198
2	602	365	494	584	545	960	1660	2310	260	205	189	200
3	593	357	812	580	540	920	1620	2090	251	222	189	189
4	586	364	773	575	540	870	1770	2080	290	214	190	186
5	577	405	615	570	540	820	1750	2020	338	211	191	182
6	567	436	586	570	540	770	1620	1930	567	208	195	271
7	556	416	569	565	540	730	1550	1850	1240	206	196	270
8	544	403	586	560	540	680	1500	1760	1260	205	254	273
9	537	282	1040	550	530	607	1470	1510	1170	189	260	272
10	524	236	1350	498	530	653	1410	986	1090	241	211	254
11	514	247	1370	335	530	562	1410	969	934	226	201	258
12	505	259	1650	335	530	540	1430	937	588	226	198	260
13	498	298	1580	340	530	552	1420	912	765	310	211	263
14	489	313	1480	350	530	586	1390	910	1480	1160	200	264
15	484	290	1410	355	520	680	1450	900	1800	1450	192	252
16	494	272	1260	355	520	684	1530	853	1870	1410	191	262
17	544	275	1000	360	520	636	1660	698	2330	1330	188	253
18	513	270	982	360	520	637	1840	686	2000	1240	185	254
19	491	270	953	360	515	654	2230	680	1340	1180	180	270
20	486	281	875	360	510	1290	2780	673	1190	1110	175	281
21	478	532	677	360	510	2190	3060	658	608	894	173	289
22	472	632	670	360	515	2270	3060	651	561	345	170	278
23	478	706	657	360	510	2410	2960	653	504	222	169	282
24	459	692	654	360	505	2460	2970	643	265	205	170	301
25	430	705	652	360	500	2550	3120	623	239	216	179	304
26	399	741	650	380	740	2760	3140	606	229	214	178	344
27	390	717	645	450	1110	2580	3190	596	223	202	176	687
28	383	686	640	540	1050	2390	3100	594	220	198	173	934
29	379	640	630	550	---	2210	2900	580	218	196	168	890
30	373	471	620	550	---	2090	2690	527	225	193	239	852
31	376	---	610	550	---	2020	---	263	---	192	255	---
TOTAL	15322	12935	26949	13973	16060	40761	63490	33648	24300	14861	6037	10073
MEAN	494	431	869	451	574	1315	2116	1085	810	479	195	336
MAX	602	741	1650	591	1110	2760	3190	2500	2330	1450	260	934
MIN	373	236	459	335	500	540	1390	263	218	189	168	182
CAL YR 1974	TOTAL	335633	MEAN 920	MAX 2890	MIN 214	CFSM 2.03	IN 27.56					
WTR YR 1975	TOTAL	278409	MEAN 763	MAX 3190	MIN 168	CFSM 1.68	IN 22.86					

01066000 SACO RIVER AT CORNISH, MAINE

(National Stream-Quality Accounting Network Station)

LOCATION.--Lat 43°48'35", long 70°46'53", Cumberland County, on left bank 300 ft (90 m) upstream from highway bridge at Cornish, and 0.4 mi (0.6 km) downstream from Ossipee River.

DRAINAGE AREA.--1,298 mi² (3,362 km²).

WATER DISCHARGE RECORDS

PERIOD OF RECORD.--June 1916 to current year.

GAGE.--Water-stage recorder. Datum of gage is 263.48 ft (80.309 m) above mean sea level. Prior to Oct. 30, 1919, nonrecording gage on bridge downstream at different datum.

REVISIONS (WATER YEARS).--WSP 1301: 1917-18 (M), 1936 (M).

REMARKS.--Records excellent 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 or 96,000,000 m³).

AVERAGE DISCHARGE.--59 years, 2,690 ft³/s (76.18 m³/s), 28.14 in/yr (715 mm/yr).

EXTREMES.--Period of record: Maximum discharge, 45,000 ft³/s (1,270 m³/s) Mar. 21, 22, 1936 (gage height, 21.90 ft or 6.675 m, from floodmarks); minimum daily, 245 ft³/s (6.94 m³/s) Oct. 18, 1957.

Current year: Maximum discharge, 9,180 ft³/s (260 m³/s) Apr. 28 (gage height, 7.93 ft or 2.417 m); minimum daily, 351 ft³/s (9.94 m³/s) Aug. 13.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1590	1000	2220	2000	1620	2400	5330	8230	1820	986	864	692
2	1670	993	2090	1900	1550	2380	4980	7710	1740	941	818	667
3	1650	940	2750	1850	1500	2300	4770	7290	1680	942	779	582
4	1650	919	2630	1800	1440	2200	4900	7240	1700	886	747	577
5	1630	1010	2250	1700	1400	2080	4620	7270	1730	847	726	577
6	1600	1100	2210	1430	1370	1900	4370	7250	2010	815	732	656
7	1520	1120	2140	1440	1350	1930	4160	7160	2850	783	744	662
8	1480	1200	2220	1430	1300	1930	4130	7020	3030	763	848	664
9	1420	1070	3200	1500	1280	1740	4020	6720	3020	759	870	645
10	1380	1010	4180	1520	1260	1620	3830	6050	2930	864	803	631
11	1290	993	4440	1460	1230	1500	3810	5830	2710	866	772	617
12	1270	991	4990	1700	1230	1410	3820	5600	2250	930	491	657
13	1240	1090	5130	1990	1230	1380	3790	5430	2470	1140	351	662
14	1210	1250	5020	1940	1260	1400	3730	5310	3360	2510	650	675
15	1190	1630	4780	1750	1220	1550	3830	5230	3950	3340	645	710
16	1200	1620	4320	1600	1140	1650	3990	5120	4180	3380	586	738
17	1310	1650	3910	1400	1090	1650	4300	4810	4590	3420	582	719
18	1320	1650	3670	1200	1130	1650	4770	4610	4260	3330	573	695
19	1320	1620	3420	1150	1130	1800	5460	4320	3530	3110	560	727
20	1340	1570	3250	1150	1110	3240	6520	4120	3310	2880	552	781
21	1350	2090	2920	1120	1090	4770	7100	3910	2590	2480	535	860
22	1280	2570	2790	1200	1090	5530	7560	3700	2410	1740	523	1060
23	1270	2890	2530	1300	1200	5910	7930	3640	1960	1500	511	1060
24	1230	3010	2450	1460	1500	6410	8270	3440	1720	1380	507	1110
25	1180	3010	2360	1500	1800	6870	8710	3160	1510	1370	499	1120
26	1110	3030	2300	1640	2000	7410	8820	2960	1380	1260	507	1160
27	1080	2960	1900	1900	2200	7190	9000	2770	1230	1180	504	1750
28	1050	2830	1900	1890	2300	6880	9150	2610	1180	1150	501	2360
29	1030	2540	1900	1820	---	6510	9060	2390	1120	1050	453	2580
30	1010	2360	2000	1760	---	6160	8720	2320	1110	1140	483	2490
31	1010	---	2050	1690	---	5770	---	1950	---	941	759	---
TOTAL	40880	51716	93920	49190	39020	107120	173450	155170	73330	48683	19475	28884
MEAN	1319	1724	3030	1587	1394	3455	5782	5005	2444	1570	628	963
MAX	1670	3030	5130	2000	2300	7410	9150	8230	4590	3420	870	2580
MIN	1010	919	1900	1120	1090	1380	3730	1950	1110	759	351	577
CAL YR 1974 TOTAL	1119419			3067		9470	582	2.36	32.08			
WTR YR 1975 TOTAL	880838			2413		9150	351	1.86	25.24			

SACO RIVER BASIN

01066000 SACO RIVER AT CORNISH, MAINE--Continued

WATER QUALITY RECORDS

PERIOD OF RECORD.--WATER ANALYSES: Current year.

SPECIFIC CONDUCTANCE: Current year.

WATER TEMPERATURES: Current year.

INSTRUMENTATION.--Two parameter water quality monitor since July 10, 1975.

EXTREMES.--Current year:

SPECIFIC CONDUCTANCE: Maximum, 52 micromhos Aug. 29; minimum, 24 micromhos Sept. 29, 30.

WATER TEMPERATURES: Maximum, 29.0°C Aug. 2; minimum, 14.0°C Sept. 18, 29.

WATER ANALYSES, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975

DATE	TIME	INSTANTANEOUS DIS- CHARGE (CFS)	SPE- CIFIC CON- DUCT- ANCE (MICRO- MHOS)	PH (UNITS)	TEMPER- ATURE (DEG C)	DIS- SOLVED OXYGEN (MG/L)	DISS- OLVED OXYGEN SATUR- ATION (%)	IMME- DIATE COLI- FORM (COL. PER 100 ML)	FECAL COLI- FORM (COL. PER 100 ML)	STREP- TOCOCCI (COL- ONIES PER 100 ML)	TOTAL PHOS- PHORUS (P) (MG/L)	TOTAL NITRO- GEN (N) (MG/L)
OCT.												
23...	1400	1260	40	6.7	5.5	12.5	99	400	81	83	.01	.23
NOV.												
20...	1130	1540	40	6.5	3.4	13.5	102	370	7	82	.01	.25
DEC.												
17...	1100	3920	37	6.5	.5	14.0	97	81800	83	10	.01	.67
JAN.												
21...	1045	1150	49	6.5	.0	13.6	93	55	827	81	.01	.24
FEB.												
25...	1130	1800	40	6.4	.0	10.6	73	510	8190	8	.01	.23
MAR.												
24...	1100	6400	40	6.4	1.5	13.2	94	78	83	83	.03	.19
APR.												
29...	1330	9060	34	6.4	5.5	12.0	95	150	10	81	.01	.22
MAY												
27...	1130	2770	34	6.6	17.0	9.5	98	330	32	11	.02	.22
JUNE												
24...	1300	1810	36	6.7	24.0	8.2	96	370	60	30	.03	.24
JULY												
30...	1400	1620	40	6.8	24.5	8.4	99	340	43	68	.01	.31
AUG.												
25...	1200	519	42	6.8	19.5	9.0	97	210	22	45	.01	.29
SEP.												
16...	1300	756	39	6.7	15.0	9.9	97	140	14	8700	.01	.27

DATE	TOTAL NITRO- GEN (NO3) (MG/L)	TOTAL KJEL- DAHL NITRO- GEN (N) (MG/L)	TOTAL NITRITE PLUS NITRATE (N) (MG/L)	SUS- PENDE SEDIM- ENT (MG/L)	SUS- SED. SIEVE DIAM. % FINER THAN .062 MM	SUS- PENDE SEDI- MENT DIS- CHARGE (T/DAY)	TOTAL ORGANIC CARBON (C) (MG/L)	CARBON DIOXIDE (CO2) (MG/L)	ALKA- LITY AS CACO3 (MG/L)	BICAR- BONATE (HCO3) (MG/L)	CAR- BONATE (CO3) (MG/L)	TUR- BID- ITY (JTU)
OCT.												
23...	1.0	.15	.08	2	100	6.8	--	--	--	--	--	--
NOV.												
20...	1.1	.15	.10	2	100	8.0	--	3.5	6	7	0	2
DEC.												
17...	3.0	.55	.12	5	82	53	--	--	--	--	--	--
JAN.												
21...	1.1	.12	.12	1	100	3.1	--	--	--	--	--	--
FEB.												
25...	1.0	.13	.10	2	100	9.7	3.4	5.7	7	9	0	1
MAR.												
24...	.84	.10	.09	15	77	259	--	--	--	--	--	--
APR.												
29...	.97	.12	.10	7	95	171	--	--	--	--	--	--
MAY												
27...	.97	.13	.09	4	98	30	3.9	2.8	6	7	0	1
JUNE												
24...	1.1	.15	.09	8	90	39	--	--	--	--	--	--
JULY												
30...	1.4	.20	.11	3	100	13	--	--	--	--	--	--
AUG.												
25...	1.3	.19	.10	1	100	1.4	4.3	2.0	7	8	0	1
SEP.												
16...	1.2	.18	.09	1	100	2.0	--	--	--	--	--	--

SACO RIVER BASIN

149

01066000 SACO RIVER AT CORNISH, MAINE--Continued

WATER ANALYSES, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975

DATE	HARD- NESS (CA+MG) (MG/L)	NON- CAR- BONATE HARD- NESS (MG/L)	DIS- SOLVED CAL- CIUM (CA) (MG/L)	DIS- SOLVED MAG- NE- SIUM (MG) (MG/L)	DIS- SOLVED SODIUM (NA) (MG/L)	DIS- SOLVED PO- TAS- SIUM (K) (MG/L)	DIS- SOLVED CHLO- RIDE (CL) (MG/L)	DIS- SOLVED SULFATE (SO4) (MG/L)	DIS- SOLVED FLUO- RIDE (F) (MG/L)	DIS- SOLVED SILICA (SI02) (MG/L)	DIS- SOLVED SOLIDS (RESI- DUE AT 180 C) (MG/L)	DIS- SOLVED SOLIDS (SUM OF CONSTITUENTS) (MG/L)
OCT.												
23...	--	--	--	--	--	--	--	--	--	--	--	--
NOV.												
20...	8	3	2.7	.4	2.6	.3	3.2	4.5	.3	6.3	31	24
DEC.												
17...	--	--	--	--	--	--	--	--	--	--	--	--
JAN.												
21...	--	--	--	--	--	--	--	--	--	--	--	--
FEB.												
25...	9	2	3.3	.3	3.6	.9	5.4	4.3	.3	7.6	32	30
MAR.												
24...	--	--	--	--	--	--	--	--	--	--	--	--
APR.												
29...	--	--	--	--	--	--	--	--	--	--	--	--
MAY												
27...	7	1	2.4	.2	2.3	.4	3.8	2.6	.3	5.3	25	21
JUNE												
24...	--	--	--	--	--	--	--	--	--	--	--	--
JULY												
30...	--	--	--	--	--	--	--	--	--	--	--	--
AUG.												
25...	13	7	4.0	.8	3.2	.6	3.4	3.3	.6	6.3	39	26
SEP.												
16...	--	--	--	--	--	--	--	--	--	--	--	--

DATE	DIS- SOLVED ARSENIC (AS) (UG/L)	SUS- PENDE D ARSENIC (AS) (UG/L)	TOTAL ARSENIC (AS) (UG/L)	DIS- SOLVED CAD- MIUM (CD) (UG/L)	SUS- PENDE D CAD- MIUM (CD) (UG/L)	TOTAL CAD- MIUM (CD) (UG/L)	DIS- SOLVED CHRO- MIUM (CR) (UG/L)	SUS- PENDE D CHRO- MIUM (CR) (UG/L)	TOTAL CHRO- MIUM (CR) (UG/L)	DIS- SOLVED COBALT (CO) (UG/L)	SUS- PENDE D COBALT (CO) (UG/L)
NOV.											
20...	0	0	0	0	0	0	0	0	0	0	0
FEB.											
25...	0	0	0	0	0	0	<10	0	0	0	0
MAY											
27...	0	0	0	0	0	0	<10	0	10	0	0
AUG.											
25...	0	0	0	0	0	0	10	0	<10	0	0

DATE	TOTAL COBALT (CO) (UG/L)	DIS- SOLVED COPPER (CU) (UG/L)	SUS- PENDE D COPPER (CU) (UG/L)	TOTAL COPPER (CU) (UG/L)	DIS- SOLVED IRON (FE) (UG/L)	TOTAL IRON (FE) (UG/L)	DIS- SOLVED LEAD (PB) (UG/L)	SUS- PENDE D LEAD (PB) (UG/L)	TOTAL LEAD (PB) (UG/L)	DIS- SOLVED MAN- GANESE (MN) (UG/L)	SUS- PENDE D MAN- GANESE (MN) (UG/L)
NOV.											
20...	0	0	0	0	90	270	2	33	35	10	10
FEB.											
25...	0	0	0	0	100	180	3	11	14	20	0
MAY											
27...	0	0	10	10	110	270	9	28	37	20	10
AUG.											
25...	0	0	0	0	110	250	7	12	19	20	0

DATE	TOTAL MAN- GANESE (MN) (UG/L)	DIS- SOLVED MERCURY (HG) (UG/L)	SUS- PENDE D MERCURY (HG) (UG/L)	TOTAL MERCURY (HG) (UG/L)	DIS- SOLVED SELE- NIUM (SE) (UG/L)	SUS- PENDE D SELE- NIUM (SE) (UG/L)	TOTAL SELE- NIUM (SE) (UG/L)	DIS- SOLVED ZINC (ZN) (UG/L)	SUS- PENDE D ZINC (ZN) (UG/L)	TOTAL ZINC (ZN) (UG/L)	DIS- SOLVED SOLIDS (TONS PER DAY)
NOV.											
20...	20	<.5	.0	<.5	0	0	0	0	10	10	129
FEB.											
25...	10	<.5	.0	<.5	0	0	0	0	0	0	156
MAY											
27...	30	<.5	.0	<.5	0	0	0	10	0	10	187
AUG.											
25...	10	<.5	.0	<.5	0	1	1	10	30	40	54.7

QUALITATIVE AND QUANTITATIVE ANALYSES OF BIOLOGICAL DATA, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975

PHYTOPLANKTON

DATE	TIME	ORGANISM	COUNT (CELLS/ML)	PERCENT OF TOTAL	SAMPLING METHOD
OCT. 23	1400	CHLOROPHYTA			DEPTH INTEGRATED
		..CHLOROPHYCEAE			
		..VULVOCALES			
		...CHLAMYDOMONADACEAE			
		CHLAMYDOMONAS	11	9	
		CHRYSOPHYTA			
		..BACILLARIOPHYCEAE			
		..CENTRALES			
		...COSCINODISCACEAE			
		CYCLOTELLA	43	36	
		..PENNALES			
		...FRAGILARIACEAE			
		ASTERIONELLA	11	9	
		...GOMPHONEMATACEAE			
		GOMPHONEMA	22	18	
		...NAVICULACEAE			
		NAVICULA	32	27	
		TOTAL	120		
NOV. 20	1130	CHLOROPHYTA			DEPTH INTEGRATED
		..CHLOROPHYCEAE			
		..CHLOROCOCCALES			
		...OCCYSTACEAE			
		TETRAEDRON	3	1	
		CHRYSOPHYTA			
		..BACILLARIOPHYCEAE			
		..CENTRALES			
		...COSCINODISCACEAE			
		CYCLOTELLA	34	12	
		..PENNALES			
		...ACHNANTHACEAE			
		ACHNANTHES	48	17	
		...CYMBELLACEAE			
		CYMBELLA	8	3	
		EPITHEMIA	3	1	
		...FRAGILARIACEAE			
		ASTERIONELLA	11	4	
		HANNAEA			
		HANNAEA ARCUS	3	1	
		...GOMPHONEMATACEAE			
		GOMPHONEMA	3	1	
		...MERIDIONACEAE			
		MERIDION	6	2	
		...NAVICULACEAE			
		NAVICULA	28	10	
		...NITZSCHIACEAE			
		NITZSCHIA	39	14	
		...TABELLARIACEAE			
		TABELLARIA	6	2	
		..CHRYSOPHYCEAE			
		...CHRYSONOMADALES			
		...OCHROMONADACEAE			
		DINOBYRON	48	17	
		CYANOPHYTA			
		..MYXOPHYCEAE			
		...OSCILLATORIALES			
		...OSCILLATORIA			
		LYNGBYA	28	10	
		OSCILLATORIA	20	7	
		TOTAL	280		
DEC. 17	1100	CHRYSOPHYTA			DEPTH INTEGRATED
		..BACILLARIOPHYCEAE			
		..CENTRALES			
		...COSCINODISCACEAE			
		CYCLOTELLA	19	10	
		MELOSIRA	40	21	
		..PENNALES			
		...ACHNANTHACEAE			
		ACHNANTHES	40	21	
		...GOMPHONEMATACEAE			
		GOMPHONEMA	6	3	
		...NAVICULACEAE			
		NAVICULA	27	14	
		...NITZSCHIACEAE			
		NITZSCHIA	19	10	
		..CHRYSOPHYCEAE			
		...CHRYSONOMADALES			
		...OCHROMONADACEAE			
		DINOBYRON	32	17	
		TOTAL	190		

01066000 SACO RIVER AT CORNISH, MAINE--Continued

QUALITATIVE AND QUANTITATIVE ANALYSES OF BIOLOGICAL DATA, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975

PHYTOPLANKTON

DATE	TIME	ORGANISM	COUNT (CELLS/ML)	PERCENT OF TOTAL	SAMPLING METHOD
JAN. 21	1045	CHRYSOPHYTA			DEPTH INTEGRATED
		..BACILLARIOPHYCEAE			
		...PENNALES			
		...ACHNANTHACEAE			
		ACHNANTHES	9	5	
		...EUNOTIACEAE			
		EUNOTIA	9	5	
		...FRAGILARIACEAE			
		SYNEDRA	26	15	
		...NAVICULACEAE			
		NAVICULA	60	35	
		NEIDIUM	9	5	
		...NITZSCHIACEAE			
		NITZSCHIA	9	5	
		...TABELLARIACEAE			
		TABELLARIA	17	10	
		CYANOPHYTA			
		..MYXOPHYCEAE			
		..CHROOCOCCALES			
		...CHROOCOCCACEAE			
		ANACYSTIS	34	20	
		TOTAL	170		
FEB. 25	1130	CHRYSOPHYTA			DEPTH INTEGRATED
		..BACILLARIOPHYCEAE			
		...CENTRALES			
		...COSCIINODISCACEAE			
		CYCLOTELLA	34	21	
		...PENNALES			
		...CYMBELLACEAE			
		CYMBELLA	8	5	
		...EUNOTIACEAE			
		EUNOTIA	34	21	
		...FRAGILARIACEAE			
		SYNEDRA	18	11	
		...NAVICULACEAE			
		STAURONEIS	8	5	
		...NITZSCHIACEAE			
		NITZSCHIA	34	21	
		...TABELLARIACEAE			
		TABELLARIA	18	11	
		..CHRYSOPHYCEAE			
		...CHRYSONOMADALES			
		...OCHROMONADACEAE			
		DINOBRYON	8	5	
		TOTAL	160		
MAR. 24	1100	CHRYSOPHYTA			DEPTH INTEGRATED
		..BACILLARIOPHYCEAE			
		...CENTRALES			
		...COSCIINODISCACEAE			
		CYCLOTELLA	88	8	
		MELOSIRA	460	42	
		...PENNALES			
		...ACHNANTHACEAE			
		ACHNANTHES	55	5	
		...EUNOTIACEAE			
		EUNOTIA	55	5	
		...FRAGILARIACEAE			
		ASTERIONELLA	33	3	
		SYNEDRA	33	3	
		...GOMPHONEMACEAE			
		GOMPHONEMA	88	8	
		...NAVICULACEAE			
		NAVICULA	120	11	
		...NITZSCHIACEAE			
		NITZSCHIA	120	11	
		...TABELLARIACEAE			
		TABELLARIA	55	5	
		TOTAL	1,100		

SACO RIVER BASIN

01066000 SACO RIVER AT CORNISH, MAINE--Continued

QUALITATIVE AND QUANTITATIVE ANALYSES OF BIOLOGICAL DATA, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975

PHYTOPLANKTON

DATE	TIME	ORGANISM	COUNT (CELLS/ML)	PERCENT OF TOTAL	SAMPLING METHOD
APR. 29	1330	CHRYSOPHYTA			DEPTH INTEGRATED
		..BACILLARIOPHYCEAE			
		...CENTRALES			
		...COSCINODISCACEAE			
		CYCLOTELLA	8	5	
		...PENNALES			
		...ACHNANTHACEAE			
		ACHNANTHES	29	19	
		...CYMBELLACEAE			
		CYMBELLA	8	5	
		...DIATOMACEAE			
		DIATOMA	29	19	
		...EUNOTIACEAE			
		EUNOTIA	8	5	
		...FRAGILARIACEAE			
		SYNEDRA	8	5	
		...NAVICULACEAE			
		FRUSTULIA	8	5	
		...NAVICULA	21	14	
		...NITZSCHIACEAE			
		NITZSCHIA	15	10	
		...TABELLARIACEAE			
		TABELLARIA	8	5	
		..CHRYSOPHYCEAE			
		...CHRYSOMONADALES			
		...OCHROMONADACEAE			
		DINOBRYON	8	5	
		PYRRHOPHYTA			
		..DINOPHYCEAE			
		...PERIDINIALES			
		...PERIDINIACEAE			
		PERIDINIUM	8	5	
		TOTAL	150		
MAY 27	1130	CHRYSOPHYTA			DEPTH INTEGRATED
		..BACILLARIOPHYCEAE			
		...PENNALES			
		...FRAGILARIACEAE			
		ASTERIONELLA	19	2	
		...MERIDIONACEAE			
		MERIDION	19	2	
		...NAVICULACEAE			
		FRUSTULIA	19	2	
		...NAVICULA	85	9	
		STAURONEIS	19	2	
		...NITZSCHIACEAE			
		NITZSCHIA	66	7	
		...TABELLARIACEAE			
		TABELLARIA	38	4	
		..CHRYSOPHYCEAE			
		...CHRYSOMONADALES			
		...OCHROMONADACEAE			
		DINOBRYON	19	2	
		CYANOPHYTA			
		..MYXOPHYCEAE			
		...OSCILLATORIALES			
		...OSCILLATORIACEAE			
		OSCILLATORIA	660	70	
		TOTAL	940		

01066000 SACO RIVER AT CORNISH, MAINE--Continued

QUALITATIVE AND QUANTITATIVE ANALYSES OF BIOLOGICAL DATA, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975

PHYTOPLANKTON

DATE	TIME	ORGANISM	COUNT (CELLS/ML)	PERCENT OF TOTAL	SAMPLING METHOD
JUNE 24	1300	CHLOROPHYTA			DEPTH INTEGRATED
		..CHLOROPHYCEAE			
		...CHLOROCOCCALES			
		...CHARACIACEAE			
		SCHROEDERIA	17	2	
		CHRYSOPHYTA			
		..BACILLARIOPHYCEAE			
		..CENTRALES			
		...COSCINODISCACEAE			
		CYCLOTELLA	230	28	
		MELOSIRA	17	2	
		..PENNALES			
		...ACHNANTHACEAE			
		ACHNANTHES	71	9	
		COCCONEIS	17	2	
		...CYMBELLACEAE			
		CYMBELLA	17	2	
		...EUNOTIACEAE			
		EUNOTIA			
		...FRAGILARIACEAE			
		ASTERIONELLA	71	9	
		...GOMPHONEMACEAE			
		GOMPHONEMA	53	7	
		...NAVICULACEAE			
		NAVICULA	35	4	
		...NITZSCHIACEAE			
		NITZSCHIA	71	9	
		..TABELLARIACEAE			
		TABELLARIA	53	7	
		..CHRYSOPHYCEAE			
		..CHRYSOMONADALES			
		...MALLOMONADACEAE			
		MALLOMONAS	17	2	
		...OCHROMONADACEAE			
		DINOBRYON			
		CYANOPHYTA			
		..MYXOPHYCEAE			
		...CHROOCOCCALES			
		...CHROOCOCCACEAE			
		ANACYSTIS	140	17	
		...OSCILLATORIALES			
		...NOSTOCACEAE			
		ANABAENA			
		TOTAL	820		
JULY 30	1400	CHRYSOPHYTA			DEPTH INTEGRATED
		..BACILLARIOPHYCEAE			
		..CENTRALES			
		...COSCINODISCACEAE			
		CYCLOTELLA			
		MELOSIRA	47	12	
		..PENNALES			
		...ACHNANTHACEAE			
		COCCONEIS	23	6	
		...CYMBELLACEAE			
		CYMBELLA	23	6	
		...FRAGILARIACEAE			
		ASTERIONELLA	94	24	
		...GOMPHONEMACEAE			
		GOMPHONEMA			
		...NAVICULACEAE			
		NAVICULA	140	35	
		...NITZSCHIACEAE			
		NITZSCHIA	23	6	
		..TABELLARIACEAE			
		TABELLARIA	23	6	
		..CHRYSOPHYCEAE			
		..CHRYSOMONADALES			
		...OCHROMONADACEAE			
		DINOBRYON	23	6	
		TOTAL	400		

QUALITATIVE AND QUANTITATIVE ANALYSES OF BIOLOGICAL DATA, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975

PHYTOPLANKTON

DATE	TIME	ORGANISM	COUNT (CELLS/ML)	PERCENT OF TOTAL	SAMPLING METHOD
AUG. 25	1200	CHLOROPHYTA			DEPTH INTEGRATED
		..CHLOROPHYCEAE			
		...CHLOROCOCCALES			
		...HYDRODICTYACEAE			
		PEDIASTRUM	62	20	
		...OCCYSTACEAE			
		ANKISTRODESMUS	7	2	
		DICTYOSPHAERIUM	31	10	
		...SCENEDESMACEAE			
		SCENEDESMUS	62	20	
		..TETRASPOALES			
		...PALMELLACEAE			
		GLOEOCYSTIS	31	10	
		..ZYGNEMATALES			
		...DESMIDIACEAE			
		COSMARIUM	7	2	
		CHRYSTOPHYTA			
		..BACILLARIOPHYCEAE			
		...CENTRALES			
		COSCINODISCACEAE			
		CYCLOTELLA	23	7	
		...PENNALES			
		ACHNANTHACEAE			
		ACHNANTHES	7	2	
		...GOMPHONEMACEAE			
		GOMPHONEMA	7	2	
		...NAVICULACEAE			
		FRUSTULIA	7	2	
		NAVICULA	31	10	
		...NITZSCHACEAE			
		NITZSCHIA	7	2	
		...TABELLARIACEAE			
		TABELLARIA	31	10	
		TOTAL	320		
SEP. 16	1300	CHLOROPHYTA			DEPTH INTEGRATED
		..CHLOROPHYCEAE			
		...CHLOROCOCCALES			
		...SCENEDESMACEAE			
		SCENEDESMUS	29	24	
		CHRYSTOPHYTA			
		..BACILLARIOPHYCEAE			
		...CENTRALES			
		COSCINODISCACEAE			
		CYCLOTELLA	22	18	
		...PENNALES			
		EUNOTIACEAE			
		EUNOTIA			
		...FRAGILARIACEAE			
		SYNEDRA			
		...NAVICULACEAE			
		NAVICULA	59	47	
		...TABELLARIACEAE			
		TABELLARIA	14	12	
		TOTAL	120		

PERIPHYTON

DATE	LENGTH OF EXPOSURE (DAYS)	BIOMASS (G/SQ M)		CHLOROPHYLL A (MG/SQ M)	CHLOROPHYLL B (MG/SQ M)	BIOMASS PIGMENT RATIO	SAMPLING METHOD
		DRY WEIGHT	ASH WEIGHT				
DEC. 17	27	1.5	0.8	0.1	0.2	7000	POLYETHYLENE STRIP
JUNE 24	28	4.8	3.7	1.4	0.3	770	POLYETHYLENE STRIP
AUG. 25	26	2.0	0.8	1.3	0.4	960	POLYETHYLENE STRIP

SACO RIVER BASIN

155

01066500 LITTLE OSSIPEE RIVER NEAR SOUTH LIMINGTON, MAINE

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

DRAINAGE AREA.--161 mi² (417 km²).

WATER DISCHARGE RECORDS

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

GAGE.--Water-stage recorder. Altitude of gage is 260 ft (79.2 m), from topographic map.

REMARKS.--Records excellent except those for winter period, which are fair. Flow regulated by Little Ossipee Lake, Ledgemere and Balch Ponds (combined capacity, 581,000,000 ft³ or 16,450,000 m³). Records of water analyses for the water year 1975 are published on page 165.

AVERAGE DISCHARGE.--35 years, 290 ft³/s (8.213 m³/s), 24.46 in/yr (621 mm/yr).

EXTREMES.--Period of record: Maximum discharge, 5,300 ft³/s (150 m³/s) May 10, 1954 (gage height, 6.78 ft or 2.067 m); minimum daily, 1.7 ft³/s (0.048 m³/s) Oct. 7, 1965.

Maximum discharge known, 8,530 ft³/s (242 m³/s) Mar. 19, 1936, at "Ledgemere" dam 3.6 mi (5.8 km) upstream.

Current year: Maximum discharge, 1,940 ft³/s (54.9 m³/s) Apr. 4 (gage height, 4.64 ft or 1.414 m); minimum daily, 11 ft³/s (0.312 m³/s) Sept. 23, 24.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	220	84	198	183	200	425	719	41	102	66	48	108
2	222	67	198	180	190	431	641	36	104	64	45	96
3	223	69	215	180	185	402	668	34	94	64	41	90
4	223	72	375	180	180	442	1520	34	112	66	39	83
5	223	79	441	180	170	413	1840	35	138	64	41	78
6	220	99	225	175	180	385	1450	55	269	57	44	72
7	219	165	190	155	180	324	1170	143	389	57	53	68
8	216	170	250	140	175	303	1030	191	369	62	99	61
9	215	172	443	165	170	368	966	284	319	63	122	59
10	212	163	458	174	170	361	924	341	269	91	112	49
11	172	155	395	182	170	218	873	293	220	96	96	44
12	130	143	321	217	165	22	849	222	202	99	94	169
13	132	134	301	260	170	20	824	143	213	156	126	280
14	131	132	281	250	170	46	775	172	269	165	130	275
15	132	130	256	230	170	198	727	185	285	160	82	269
16	178	123	236	200	164	241	696	192	269	144	70	263
17	259	116	256	180	157	219	676	192	239	144	63	257
18	255	111	211	160	164	236	670	181	213	132	59	185
19	250	106	212	150	168	273	676	173	199	140	52	20
20	246	105	69	160	174	574	777	167	129	138	49	18
21	240	148	20	150	170	1600	726	159	20	148	47	17
22	232	190	18	145	168	1710	635	148	32	126	44	15
23	222	202	17	160	166	1370	530	126	64	105	40	11
24	211	204	18	167	188	1150	473	61	76	100	38	11
25	171	213	113	192	313	1100	673	83	76	103	42	12
26	133	225	177	230	392	1180	794	102	74	92	44	12
27	129	224	171	270	488	1120	724	104	70	79	47	28
28	123	227	174	260	489	969	495	105	66	70	43	31
29	117	220	175	240	---	818	45	99	70	60	40	97
30	110	210	186	220	---	738	43	92	70	54	85	133
31	102	---	179	210	---	762	---	99	---	49	120	---
TOTAL	5868	4458	6779	5945	5846	18418	23609	4292	5021	3014	2055	2911
MEAN	189	149	219	192	209	594	787	138	167	97.2	66.3	97.0
MAX	259	227	458	270	489	1710	1840	341	389	165	130	280
MIN	102	67	17	140	157	20	43	34	20	49	38	11

CAL YR 1974 TOTAL 111835.9 MEAN 306 MAX 1440 MIN 7.8 CFSM 1.90 IN 25.84
WTR YR 1975 TOTAL 88216.0 MEAN 242 MAX 1840 MIN 11 CFSM 1.50 IN 20.38

MOUSAM RIVER BASIN

01069500 MOUSAM RIVER NEAR WEST KENNEBUNK, MAINE

LOCATION.--Lat 43°25'04", long 70°39'32", York County, on right bank 100 ft (30 m) upstream from highway bridge, 1.4 mi (2.3 km) downstream from Middle Branch, and 4.0 mi (6.4 km) west of West Kennebunk.

DRAINAGE AREA.--105 mi² (272 km²).

WATER DISCHARGE RECORDS

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 excellent. Flow regulated by Square Pond and Mousam and Estes Lakes (combined capacity, about 700,000,000 ft³ or 20,000,000 m³) and powerplants above station.

AVERAGE DISCHARGE.--36 years, 179 ft³/s (5.069 m³/s), 23.15 in/yr (588 mm/yr), unadjusted.

EXTREMES.--Period of record: Maximum discharge, 2,830 ft³/s (80.1 m³/s) Sept. 12, 1954 (gage height, 5.69 ft or 1.734 m); minimum daily, 0.4 ft³/s (0.011 m³/s) Nov. 10, 15, 16, 1964.

Current year: Maximum discharge, 2,120 ft³/s (60.0 m³/s) Apr. 4 (gage height, 4.37 ft or 1.332 m); minimum daily, 7.0 ft³/s (0.20 m³/s) May 23.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	76	61	78	81	200	240	378	257	54	180	20	46
2	54	55	143	152	188	213	352	244	55	122	20	40
3	34	53	237	176	183	196	576	247	45	16	20	135
4	22	64	194	174	179	182	1830	239	74	16	20	176
5	14	83	149	173	179	179	1150	232	85	16	20	71
6	15	86	124	172	179	179	827	209	153	17	20	13
7	33	75	110	71	179	179	686	177	240	18	20	12
8	44	68	123	113	179	179	643	173	234	18	20	12
9	27	58	246	173	179	179	634	173	241	18	20	11
10	22	55	239	110	179	179	575	186	168	18	19	11
11	13	54	186	11	179	179	506	173	163	18	18	11
12	14	57	167	118	171	177	524	171	183	18	18	14
13	34	86	158	85	167	179	476	172	185	19	114	17
14	127	79	146	119	167	179	415	172	231	19	124	18
15	145	73	132	181	166	179	344	171	215	19	12	16
16	174	65	122	208	161	179	332	162	189	20	12	15
17	193	58	191	216	158	70	320	149	180	20	14	14
18	170	59	191	202	142	118	304	138	179	21	14	14
19	131	54	166	235	164	184	333	70	179	21	14	14
20	96	69	143	230	67	560	351	12	169	22	13	17
21	92	210	132	221	10	1160	307	13	46	35	12	21
22	82	225	131	217	11	800	279	9.9	14	136	13	20
23	73	161	116	200	12	651	272	7.0	15	186	13	18
24	59	134	109	196	113	593	288	7.5	17	79	14	23
25	56	127	108	203	257	592	321	6.0	24	22	14	26
26	60	149	98	316	336	623	299	8.2	77	21	15	27
27	56	110	88	315	306	533	239	11	92	20	16	70
28	49	101	87	269	265	452	214	19	159	20	15	230
29	53	93	85	247	---	409	220	20	123	21	15	180
30	51	86	85	230	---	412	263	28	129	116	69	130
31	57	---	88	208	---	428	---	52	---	68	71	---
TOTAL	2126	2708	4372	5622	4676	10562	14258	3710.6	3918	1360	819	1422
MEAN	68.6	90.3	141	181	167	341	475	120	131	43.9	26.4	47.4
MAX	193	225	246	316	336	1160	1830	257	241	186	124	230
MIN	13	53	78	11	10	70	214	7.0	14	16	12	11
MEAN*	36.6	121	159	167	135	392	495	108	130	34.9	12.4	23.4
CFSM*	.35	1.15	1.51	1.59	1.29	3.73	4.71	1.03	1.24	.33	.12	.22
IN.*	.40	1.28	1.74	1.83	1.34	4.30	5.26	1.19	1.38	.38	.14	.25
CAL YR 1974 TOTAL	66613.0				697	MIN 13	MEAN* 179	CFSM* 1.70	IN.* 23.06			
WTR YR 1975 TOTAL	55553.6				1830	MIN 7	MEAN* 151	CFSM* 1.44	IN.* 19.49			

* Adjusted for change in contents in Square Pond and Mousam Lake. Records furnished by Town of Sanford.

WEBHANNET RIVER BASIN

157

01069800 Blacksmith Brook at Wells, Maine

LOCATION.--Lat 43°19'58", Long 70°34'16", York County, on left wing well on the downstream end of culvert under U.S. Route 1, 900 ft (274 m) upstream from mouth, and 0.9 mi (1.448 km) north of Wells, Maine.

DRAINAGE AREA.--2.48 mi² (6.42 km²).

WATER DISCHARGE RECORDS

PERIOD OF RECORD.--March 19 to Sept. 30, 1975.

GAGE.--Water stage recorder datum of gage 40.004 ft (12.193 m) above mean sea level.

REMARKS.--Records fair.

EXTREMES.--Maximum discharge during period 86 ft³ (2.44 m³) March 21, (gage height 2.37 ft or 0.722 m); minimum, 0.06 ft³ (0.002 m³), Aug. 2 (gage height 0.68 ft or 0.207 m).

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1							7.6	3.0	.94	.42	.08	1.0
2							5.9	2.9	1.2	.37	.08	.87
3							9.0	2.9	.80	.42	.08	1.2
4							40	2.9	2.8	.37	.14	1.1
5							19	2.6	3.6	.37	.14	.73
6							15	2.5	21	.37	.10	.56
7							12	2.2	12	.37	.23	.56
8							9.7	2.0	7.3	.37	.94	.42
9							7.8	1.9	5.0	.46	.87	.42
10							6.1	1.9	3.8	.46	.46	.33
11							6.4	1.8	2.5	.42	.37	.28
12							5.9	1.7	2.1	.62	.28	.33
13							5.2	2.2	15	.73	.18	1.2
14							4.9	3.0	15	.56	.18	.73
15							4.5	2.5	10	.42	.18	.51
16							4.3	2.2	7.6	.37	.14	.46
17							4.0	2.1	6.1	.33	.14	.37
18							3.8	1.9	4.9	.23	.14	.33
19						5.9	4.7	1.7	3.3	.18	.10	.33
20						37	5.4	1.5	2.5	.14	.10	.37
21						48	4.7	1.4	1.9	.80	.08	.42
22						18	3.8	1.2	1.5	.51	.10	.37
23						15	3.5	1.2	1.1	.33	.10	.37
24						13	4.9	1.2	.94	.18	.10	1.1
25						15	6.4	.94	.80	.23	.33	3.5
26						16	5.0	.94	.62	.23	.28	3.6
27						10	4.9	1.0	.51	.18	.28	9.7
28						8.1	4.7	.94	.46	.18	.28	5.6
29						6.4	4.0	.67	.46	.18	.28	3.2
30					-----	8.8	3.5	.56	.46	.14	6.1	2.3
31		-----			-----	10	-----	.80	-----	.10	2.0	-----
TOTAL							226.6	56.26	136.19	11.04	14.86	42.26
MEAN							7.6	1.8	4.5	0.36	0.48	1.41
MAX							40	3.0	21	.80	6.1	9.7
MIN							3.5	.56	.46	.10	.08	.28
CFSM							3.06	0.73	1.81	0.15	0.19	0.57
IN.							3.40	0.84	2.04	0.17	0.22	0.63

PISCATAQUA RIVER BASIN

01072100 SALMON FALLS RIVER AT MILTON, N.H.

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

DRAINAGE AREA.--108 mi² (280 km²).

WATER DISCHARGE RECORDS

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

GAGE.--Water-stage recorder and concrete control. Altitude of gage is 405 ft (123 m) from topographic map.

REMARKS.--Records good except those for doubtful or no gage-height record, which are poor. Flow regulated by Great East and Lovell Lakes and Horn, Wilson, and Milton (also controls Northeast and Town House) Ponds, combined usable capacity, 1,280,000,000 ft³ (36,250,000 m³). See table below for figures of monthend contents.

AVERAGE DISCHARGE.--7 years, 208 ft³/s (5.891 m³/s).

EXTREMES.--Period of record: Maximum discharge, 1,730 ft³/s (49.0 m³/s) Feb. 12, 1970 (gage height, 5.49 ft or 1.673 m); minimum daily, 19 ft³/s (0.54 m³/s) Aug. 30, Sept. 13, 1970.

Current year: Maximum discharge, about 1,060 ft³/s (30.0 m³/s) probably occurred Mar. 22 (gage height, about 4.9 ft or 1.49 m); minimum daily, 26 ft³/s (0.74 m³/s) June 6-12.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	154	151	122	146	195	272	350	390	35	42	37	37
2	150	168	120	141	180	254	350	370	32	42	37	37
3	149	160	131	133	160	235	380	360	27	42	37	37
4	149	150	150	130	145	212	790	330	27	42	37	37
5	151	146	154	121	135	192	1010	310	27	42	37	37
6	152	149	150	116	125	173	960	260	26	42	37	37
7	152	154	144	110	115	163	810	260	26	36	37	37
8	152	151	137	110	105	154	720	170	26	36	37	37
9	152	147	177	109	85	152	640	50	26	36	37	37
10	149	140	242	108	70	149	590	50	26	36	37	37
11	147	133	276	113	65	146	530	50	26	36	37	37
12	146	121	280	127	50	145	530	42	26	36	37	37
13	146	97	280	149	40	141	530	35	55	36	37	37
14	143	96	277	168	50	141	480	35	152	36	37	37
15	143	95	262	169	65	148	440	35	188	36	36	37
16	146	87	240	167	95	148	460	37	179	36	36	37
17	146	84	228	158	90	149	470	37	152	36	36	37
18	146	79	224	131	100	149	500	37	128	36	36	37
19	146	76	221	146	105	152	550	33	101	36	36	37
20	144	75	207	146	105	301	630	27	77	36	36	37
21	143	97	199	135	106	780	690	27	68	36	37	37
22	146	136	187	132	106	1050	710	27	60	36	37	39
23	151	153	176	126	106	990	650	27	54	36	37	93
24	146	160	169	122	110	860	500	27	48	36	37	138
25	146	160	166	120	201	770	390	27	43	37	37	138
26	146	160	157	138	255	730	440	27	42	37	37	218
27	145	151	152	155	270	720	450	27	42	37	37	354
28	142	149	152	175	276	660	450	28	42	37	37	372
29	138	140	152	200	---	590	440	35	42	37	37	341
30	138	130	152	210	---	530	420	35	42	37	37	288
31	138	---	149	210	---	420	---	35	---	37	37	---
TOTAL	4542	3895	5833	4421	3510	11676	16860	3240	1845	1159	1141	2758
MEAN	147	130	188	143	125	377	562	105	61.5	37.4	36.8	91.9
MAX	154	168	280	210	276	1050	1010	390	188	42	37	372
MIN	138	75	120	108	40	141	350	27	26	36	36	37
*	739.7	682.7	712.3	731.7	744.1	925.4	1048.2	1102.4	1187.6	1176.2	1085.6	1062.8
CAL YR 1974	TOTAL	68700	MEAN 188	MAX	706	MIN 34						
WTR YR 1975	TOTAL	60880	MEAN 167	MAX	1050	MIN 26						

*Monthend contents, in millions of cubic feet, in Great East and Lovell Lakes and Horn, Wilson, Milton, Northeast and Town House Ponds; records furnished by New Hampshire Water Resources Board.

Note.--Doubtful or no gage-height record Jan. 28 to Feb. 20, Mar. 21 to May 8, June 23-30, July 7-10.

Discharge measurements at miscellaneous sites

Measurements of streamflow at points other than gaging stations or partial-record stations are given in the following table.

Discharge measurements made at miscellaneous sites during water year 1975

Stream	Tributary to	Location	Drainage area (sq mi)	Measured previously (water years)	Measurements	
					Date	Discharge (cfs)
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, Me.	----	(many)	01-17-75 05-06-75	38.2 37.1
Stratton Brook	Flagstaff Lake	Lat 45°08'08", long 70°25'50", Franklin County, 1.5 miles (2.4 km) above Flagstaff Lake, near Coplin Plt., Me.	----	----	06-14-75	89.1
Austin Stream	Kennebec River	Lat 45°03'55", long 69°52'55", Somerset County, 8 mi (1.3 km) upstream from mouth, at Bingham, Me.	90.3	(many)	10-24-74 08-29-75	37.3 9.31
East Branch Sebasticook River	Sebasticook River	Lat 45°01'14", long 69°17'34", Penobscot County, on right bank 25 ft (7.6 m) upstream from old dam on Liberty Street at Dexter, Me.	12.1	----	05-13-75 06-12-75 07-02-75 07-24-75 08-28-75	30.9 17.9 29.5 36.5 14.3
East Branch Sebasticook River	Sebasticook River	Lat 44°57'16", long 69°16'52", Penobscot County, on right bank 25 ft (7.6 m) above bridge, at Lincoln Mills, Me.	29.35	----	05-13-75 06-12-75 07-02-75 07-24-75 08-28-75	44.9 26.3 26.6 41.7 14.5
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, Me.	35.4	----	05-13-75 06-12-75 07-02-75 07-24-75 08-28-75	70.8 20.0 24.5 46.4 16.6
Alder Stream	East Branch Sebasticook River	Lat 44°54'44", long 69°15'00", Penobscot County, on left downstream abutment of bridge on State Highway 222, near Corinna, Me.	15.7	----	05-12-75 05-13-75 06-12-75 07-02-75 07-24-75 08-28-75	14.0 13.5 14.7 2.01 3.94 .104
Mulligan Stream	Sebasticook Lake	Lat 44°54'12", long 69°19'06", Somerset County, downstream side of bridge 0.7 mi (1.1 km) upstream from mouth of Nokomis Brook, near St. Albans, Me.	7.75	----	06-12-75 07-02-75 07-24-75 08-12-75 08-28-75	9.20 2.61 4.52 .885 .659
Nokomis Stream	Mulligan Stream	Lat 44°54'03", long 69°18'36", Somerset County, 2.0 ft (0.6 m) upstream from culvert on town road, near St. Albans, Me.	3.29	----	08-12-75 08-28-75	.197 .071
Harrison White Brook	Mulligan Stream	Lat 44°55'38", long 69°18'38", Penobscot County, on downstream side of culvert on State Highway 43, near Corinna, Me.	2.71	----	06-12-75 07-02-75 07-24-75 08-12-75	1.33 .034 .320 .000
Ring Brook	Mulligan Stream	Lat 44°55'40", long 69°17'50", Penobscot County, on downstream side of culvert on State Highway 43, near Corinna, Me.	1.75	----	06-12-75 07-02-75 07-24-75 08-28-75	.730 .125 .240 .000
Mulligan Stream	Sebasticook Lake	Lat 44°54'16", long 69°17'34", Penobscot County, 10 ft (3.0 m) upstream from culvert on town road, near Corinna, Me.	18.8	----	06-12-75 07-24-75 08-28-75	12.8 5.17 .730
Stetson Stream	Sebasticook Lake	Lat 44°53'18", long 69°08'48", Penobscot County, on left bank 0.2 mi (0.3 km) downstream from bridge under State Highway 143, at Stetson, Me.	4.40	----	05-13-75 06-12-75 07-02-75 08-28-75	29.5 21.2 13.0 7.06
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 the dam on U.S. Highway 2, at Newport, Me.	127	----	05-13-75 06-12-75 07-02-75 08-15-75	169.0 45.5 43.1 76.7

Discharge measurements made at miscellaneous sites during water year 1975--Continued

Stream	Tributary to	Location	Drainage area (sq mi)	Measured previously (water years)	Measurements	
					Date	Discharge (cfs)
KENNEBEC RIVER BASIN--CONTINUED						
Sebasticoock River	Kennebec River	Lat 44°35'08", long 69°33'00", Kennebec County, downstream side of bridge on State Highway 139, at Benton, Me.	----	----	04-23-75	6,500
Dead Stream	Maranacook Lake	Lat 44°23'20", long 69°58'24", Kennebec County, left bank, 7 ft (2.1 m) up- stream from culvert on State Highway 41, at Readfield, Me.			07-29-75 08-27-75	10.0 1.86
Mill Stream	Lake Anna- bessacook	Lat 44°18'24", long 69°58'18", Kennebec County, 500 ft (152 m) below bridge on Main Street, at Winthrop, Me.	----	----	07-29-75 08-27-75 09-25-75	25.1 4.16 9.12
Hoyt Brook	Lake Anna- bessacook	Lat 44°16'54", long 69°59'14", Kennebec County, upstream side of culvert on the Annabessacook Road, near Winthrop, Me.	----	----	07-29-75 07-30-75 08-26-75 09-25-75	.030 .172 .598 1.08
Carlton Stream	Upper Nar- rows Lake	Lat 44°19'26", long 69°55'40", Kennebec County, 4.5 ft (1.4 m) upstream from culvert on State Highway 135, near East Winthrop, Me.	----	----	07-29-75 08-27-75	.000 .000
Wilson Stream	Lake Anna- bessacook	Lat 44°16'04", long 70°01'16", Kennebec County, on left upstream wingwall of the culvert on U.S. Highway 202 near North Monmouth, Me.	----	----	07-30-75 08-27-75 09-25-75	6.46 6.99 6.58
Wilson Stream	Jug Stream	Lat 44°14'34", long 70°01'18", Kennebec County, 30 ft (9.1 m) upstream from culvert on State Highway 135 at Monmouth, Me.	----	----	07-29-75 08-27-75 09-26-75	2.30 1.58 1.22
Jock Stream	Cobbossee- contee Lake	Lat 44°11'04", long 69°59'48", Kennebec County, upstream side of bridge on town road, at South Monmouth, Me.	----	----	07-29-75 08-27-75	4.02 2.37
Western Brook	Cobbossee- contee Lake	Lat 44°19'30", long 69°51'30", Kennebec County, on right bank 2.5 ft (0.8 m) upstream from the culvert at the in- tersection of U.S. Highway 202 and Winthrop Street, at Manchester, Me.	----	----	07-29-75 08-12-75 08-26-75 09-25-75	.090 .025 .026 .220
Woodbury Pond Outlet Stream	Cobbossee- contee Lake	Lat 44°12'54", long 69°55'56", Kennebec County, downstream side of bridge on the Hallowell Road, at Litchfield, Me.	----	----	07-29-75 09-26-75	3.21 1.42
Magotty Meadow Brook	Pleasant Pond	Lat 43°06'54", long 69°54'36", Kennebec County, 25 ft (7.6 m) upstream from culvert on State Highway 197 near Richmond, Me.	----	----	07-29-75 09-26-75	.247 .858
Cobbosseecon- tee Stream	Kennebec River	Lat 43°13'46", long 69°46'40", Kennebec County, downstream side of bridge on Winter Street, at Gardiner, Me.	----	----	07-29-75 09-03-75 09-30-75	36.2 182 395

DISCHARGE AT PARTIAL-RECORD STATIONS AND MISCELLANEOUS SITES

161

Discharge measurements made at miscellaneous sites during water year 1975--Continued

Stream	Tributary to	Location	Drainage area (sq mi)	Measured previously (water years)	Measurements	
					Date	Discharge (cfs)
ANDROSCOGGIN RIVER BASIN						
Nezinscot River	Androscoggin River	Lat 44°17'26", long 70°21'58", Oxford County, downstream side of bridge on State Highway 140, at Buckfield, Me.	----	----	04-22-75	458
Stony Brook	Little Andros-coggin River	Lat 44°13'23", long 70°30'24", Oxford County, upstream side of bridge on State Highway 117, at South Paris, Me.	----	----	06-24-75 08-01-75 09-25-75	3.61 1.15 8.93
Little Andros-coggin River	Androscoggin River	Lat 44°06'37", long 70°25'03", Andros-coggin County, downstream side of bridge on Lane Road, near Mechanic Falls, Me.	----	----	06-24-75 08-01-75 09-25-75	165 92.7 187
Sabattus River	Androscoggin River	Lat 44°07'12", long 70°06'32", Andros-coggin County, 75 ft (22.9 m) below bridge, at Sabbatus, Me.	----	----	06-25-75 07-29-75 09-22-75	44.5 33.3 85.4
Sabattus River	Androscoggin River	Lat 44°04'29", long 70°06'17", Andros-coggin County, upstream side of bridge on Crowley Road, near Robinson Corner, Me.	----	----	06-25-75 07-31-75 09-22-75	53.5 34.6 91.5
No Name Brook	Sabattus River	Lat 44°04'20", long 70°08'29", Andros-coggin County, 100 ft (30.5 m) up-stream of culvert on Webster Road, near South Lewiston, Me.	----	----	06-25-75 07-31-75 09-22-75	5.06 .923 3.15
ROYAL RIVER BASIN						
Royal River	Atlantic Ocean	Lat 43°52'04", long 70°15'40", Cumber-land County, upstream side of bridge on North Road, near Gray Station, Me.	----	----	05-20-75 06-24-75 07-31-75	58.8 54.1 29.8
Royal River	Atlantic Ocean	Lat 43°51'54", long 70°14'26", Cumber-land County, upstream side of bridge on State Highway 231, near North Yarmouth, Me.	----	----	05-20-75 05-20-75 06-25-75	64.1 66.9 64.5
Chandler Brook	Royal River	Lat 43°53'02", long 70°13'38", Cumber-land County, downstream side of bridge on town road 1.3 mi (2.1 km) above mouth of Kenny Brook, near West Pownal, Me.	----	----	05-20-75 05-20-75 06-25-75 07-30-75	6.92 7.38 7.39 2.64
Kenny Brook	Chandler Brook	Lat 43°52'22", long 70°12'52", Cumber-land County, 50 ft (15 m) upstream from bridge on Mount Fort Road, near Crockett Corner, Me.	----	----	05-20-75 05-20-75 06-25-75 07-30-75	14.1 14.6 10.8 6.76
Chandler Brook	Royal River	Lat 43°51'40", long 70°13'15", Cumber-land County, upstream side of bridge on North Road, near North Yarmouth, Me.	----	----	05-20-75 05-20-75 06-25-75 07-30-75	23.1 20.8 21.4 7.08
PRESUMPSCOT RIVER BASIN						
Windham Dump Brook	Sebago Lake	Lat 43°52'30", long 70°27'54", Cumber-land County, 6.5 ft (2.0 m) upstream from culvert on U.S. Highway 302, near Windham, Me.	----	----	05-21-75 05-21-75 06-25-75 08-12-75 08-28-75	1.60 1.59 .730 .200 .131
Thomas Lake Outlet Brook	Sebago Lake	Lat 43°54'30", long 70°30'52", Cumber-land County, 150 ft (45.7 m) down-stream from bridge on Hawthorne Road, at South Casco, Me.	----	----	05-21-75 05-21-75 06-25-75 08-12-75	4.83 4.44 4.50 1.28

Stream	Tributary to	Location	Drainage area (sq mi)	Measured previously (water years)	Measurements	
					Date	Discharge (cfs)
PRESUMPSCOT RIVER BASIN--CONTINUED						
Stevens Brook	Long Lake	Lat 44°03'16", long 70°42'34", Cumberland County, 50 ft (15 m) upstream from bridge on U.S. Highway 302, at Bridgton, Me.	----	----	05-21-75 05-21-75 06-25-75 07-16-75 08-08-75	12.1 11.8 7.96 40.9 15.0
Willett Brook	Stevens Brook	Lat 44°02'42", long 70°42'18", Cumberland County, 50 ft (15 m) upstream from bridge on town road, 0.6 mi (1.0 km) upstream from mouth, near Bridgton, Me.	----	----	05-22-75 05-22-75 06-25-75 08-08-75	11.5 12.0 10.7 6.39
Crooked River	Songo River	Lat 44°09'12", long 70°36'16", Cumberland County, downstream side of bridge on State Highway 117, near Otisfield, Me.	----	----	05-22-75 05-22-75 06-25-75 07-16-75 08-08-75	118 115 74.6 513 43.9
Crooked River	Songo River	Lat 44°05'08", long 70°36'18", Cumberland County, on right bank 1 ft (0.3 m) upstream from dam, at Scribners Mills, Me.	----	----	05-22-75 06-25-75 07-02-75 08-08-75	110 88.5 27.2 48.4
Crooked River	Songo River	Lat 44°00'06", long 70°34'24", Cumberland County, on right bank 0.3 mi (0.5 km) upstream from bridge on town road near Edes Falls, Me.	----	----	05-22-75 06-25-75 08-12-75	142 94.4 43.5
Muddy River	Sebago Lake	Lat 43°57'00", long 70°37'44", Cumberland County, on left bank 75 ft (23 m) upstream from bridge on town road 2.1 mi (3.4 km) southwest of Naples, near Naples, Me.	----	----	05-22-75 05-22-75 06-27-75 08-08-75	6.53 5.70 3.06 3.63
Bachelor Brook	Sebago Lake	Lat 43°53'30", long 70°37'50", Cumberland County, on right bank 20 ft (6.1 m) upstream from culvert on State Highway 114, near North Sebago, Me.	----	----	05-23-75 06-27-75	1.73 .661
Northwest River	Sebago Lake	Lat 43°51'44", long 70°38'34", Cumberland County, on right bank 400 ft (122 m) upstream from bridge on State Highway 114, near East Sebago, Me.	----	----	05-23-75 06-27-75 08-01-75	13.4 13.7 5.65
Rich Mill Pond Outlet	Sebago Lake	Lat 43°47'00", long 70°33'56", Cumberland County, upstream side of bridge 100 ft (30.5 m) upstream from bridge on State Highway 114, near Richville, Me.	----	----	05-23-75 06-27-75 08-01-75	7.31 4.01 2.32
Standish Brook	Sebago Lake	Lat 43°45'40", long 70°31'38", Cumberland County, on right bank 15 ft (4.6 m) upstream from culvert on State Highway 114, at Sebago Lake, Me.	----	----	05-23-75 07-17-75 07-24-75	.150 .550 .040
Pleasant River	Presumpscot River	Lat 43°47'12", long 70°25'18", Cumberland County, upstream side of bridge on Pope Road, at Popeville, Me.	----	----	05-21-75 05-21-75	20.9 21.1

DISCHARGE AT PARTIAL-RECORD STATIONS AND MISCELLANEOUS SITES

163

Discharge measurements made at miscellaneous sites during water year 1975--Continued

Stream	Tributary to	Location	Drainage area (sq mi)	Measured previously (water years)	Measurements	
					Date	Discharge (cfs)
PRESUMPCOT RIVER BASIN--CONTINUED						
Little River	Presumpscot River	Lat 43°43'16", long 70°25'28", Cumberland County, upstream side of bridge on U.S. Highway 202, at South Windham, Me.	----	----	05-23-75 05-23-75 07-02-75 07-24-75	22.8 27.9 27.2 22.2
Presumpscot River	Atlantic Ocean	Lat 43°43'25", long 70°18'12", Cumberland County, 0.6 mi (1.0 km) downstream from Meader Brook, 0.9 mi (1.4 km) upstream from Piscataqua River, 0.1 mi (0.2 km) downstream from Maine Turnpike at highway bridge 1.5 mi (2.4 km), south of West Falmouth, Me.	----	----	07-01-75 07-02-75 07-23-75 08-28-75 09-11-75	503 174 772 285 620
Piscataqua River	Presumpscot River	Lat 43°44'16", long 70°17'40", Cumberland County, downstream side of left culvert on Leighton Road, near Falmouth, Me.	----	----	05-28-75 06-20-75 07-23-75	9.88 8.43 7.49
East Branch Piscataqua River	Presumpscot River	Lat 43°44'18", long 70°17'16", Cumberland County, upstream side of bridge on Falmouth Road, near Falmouth, Me.	----	----	05-28-75 07-01-75 07-23-75	5.68 5.56 4.08
FORE RIVER BASIN						
Stroudwater River	Fore River	Lat 43°39'22", long 70°24'02", Cumberland County, upstream side of right culvert on Brackett Road, near South Gorham, Me.	----	----	07-02-75 07-31-75 08-27-75	5.11 2.86 4.07
Stroudwater River	Fore River	Lat 43°40'04", long 70°22'28", Cumberland County, left upstream wing wall of bridge on Saco Street, at Westbrook, Me.	----	----	05-28-75 07-01-75 07-31-75	8.88 5.35 3.36
SACO RIVER BASIN						
Saco River	Atlantic Ocean	Lat 44°03'50", long 70°56'50", Oxford County, upstream side of bridge on State Highway 5, near Fryeburg Center, Me.	----	----	07-16-75	1,730
Saco River	Atlantic Ocean	Lat 44°01'45", long 70°55'15", Oxford County, upstream side of bridge on U.S. Highway 302, near Fryeburg, Me.	----	----	07-16-75	2,450
Saco River	Atlantic Ocean	Lat 43°52'42", long 70°48'15", Oxford County, at bridge on State Highway 5, at Hiram, Me.	----	1972-74	04-29-75	6.100
Saco River	Atlantic Ocean	Lat 43°47'23", long 70°39'30", York County, upstream side of bridge on State Highway 11, at Steep Falls, Me.	----	----	09-08-75	720
Saco River	Atlantic Ocean	Lat 43°32'23", long 70°30'55", York County, upstream side of bridge on State Highway 5, near Biddeford, Me.	----	----	07-17-75 09-08-75	3,670 1,460

Stream	Tributary to	Location	Drainage area (sq mi)	Measured previously (water years)	Measurements	
					Date	Discharge (cfs)
MOUSAM RIVER BASIN						
Mousam River	Atlantic Ocean	Lat 43°28'04", long 70°47'52", York County, downstream side of bridge on Bridge Street, at Springvale, Me.	----	----	06-09-75 06-26-75 07-18-75 08-07-75	102 97.0 47.6 23.5
Mousam River	Atlantic Ocean	Lat 43°25'54", long 70°45'42", York County, downstream side of bridge on School Street, near Sanford, Me.	----	----	06-09-75 06-26-75 07-18-75 08-07-75	114 89.8 22.0 24.5
Mousam River	Atlantic Ocean	Lat 43°23'05", long 70°32'34", York County, downstream side of bridge on U.S. Highway 1, at Kennebunk, Me.	----	----	06-09-75 06-26-75 07-18-75 08-05-75	301 62.8 35.7 24.1

WATER ANALYSES OF FIELD-MEASURED SAMPLES, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975

STATION NUMBER	STATION NAME AND LOCATION	DRAINAGE AREA (SQ MI)	DATE SAMPLED	TIME	DISCH- ARGE (CFS)	SPE- CIFIC CON- DUCT- ANCE (MICRO- MHOS AT 25° C)	PH (UNITS)	TEM- PERA- TURE (°C)	DISS- OLVED OXYGEN (MG/L)	DISS- OLVED OXYGEN SATUR- ATION (%)
ST. JOHN RIVER BASIN										
01010500	ST. JOHN RIVER AT DICKEY, ME.	2,700	08-12-75	1700	488	75	7.6	23.0	7.5	86
01011000	ALLAGASH RIVER NEAR ALLAGASH, ME.	1,250	08-14-75	1530	779	57	7.3	23.5	8.4	98
01013500	FISH RIVER NEAR FORT KENT, ME.	871	08-15-75	0930	305	68	7.2	20.5	8.3	91
01014000	ST. JOHN RIVER AT FORT KENT, ME.	5,690	08-15-75	0900	1,970	82	7.0	19.0	8.4	89
01015800	AROOSTOOK RIVER NEAR MASARDIS, ME.	888	08-15-75	1100	247	69	7.5	21.0	9.0	100
01016500	MACHIAS RIVER NEAR ASHLAND, ME.	330	08-15-75	1030	63	77	7.5	19.5	8.3	89
01017900	MARLEY BROOK NEAR LUDLOW, ME.	1.47	08-11-75	1700	.04	180	7.3	16.0	6.7	67
ST. CROIX RIVER BASIN										
01019000	GRAND LAKE STREAM AT GRAND LAKE STREAM, ME.	224	09-09-75	1645	319	26	6.7	18.0	9.7	102
01020000	ST. CROIX RIVER NEAR BAILEYVILLE, ME.	1,320	09-09-75	1600	829	32	6.7	18.0	9.1	96
DENNY'S RIVER BASIN										
01021200	DENNY'S RIVER AT DENNY'SVILLE, ME.	92.4	09-09-75	1200	41	40	6.8	16.0	9.0	90
NARRAGUAGUS RIVER BASIN										
01022500	NARRAGUAGUS RIVER AT CHERRYFIELD, ME.	232	09-09-75	1030	56	37	6.6	17.5	8.8	92
UNION RIVER BASIN										
01023000	W. BR. UNION RIVER AT AMHERST, ME.	148	09-09-75	0900	13	42	6.9	16.0	9.4	94
PENOBSCOT RIVER BASIN										
01029500	E. BR. PENOBSCOT RIVER AT GRIND- STONE, ME.	1,090	08-15-75	1245	440	40	7.1	23.0	7.8	90
01031500	PISCATAQUIS RIVER NEAR DOVER- FOXCROFT, ME.	297	08-26-75	1445	23	76	7.3	18.0	8.9	94
01031600	MORRISON BROOK NEAR SEBEC CORNERS, ME.	4.37	08-26-75	1400	.05	175	7.5	15.5	9.7	96
01033500	PLEASANT RIVER NEAR MILO, ME.	324	08-26-75	1330	70	41	6.9	17.0	9.5	98
01036500	KENDUSKEAG STREAM NEAR KENDUSKEAG, ME.	178	09-28-75	2000	79	130	8.1	16.0	9.3	93
KENNEBEC RIVER BASIN										
01042500	KENNEBEC RIVER AT THE FORKS, ME.	1,589	08-29-75	1230	6,300	32	6.7	18.5	9.2	98
01045000	DEAD RIVER AT THE FORKS, ME.	872	08-29-75	1300	283	37	7.1	19.0	9.6	102
ANDROSCOGGIN RIVER BASIN										
01054300	ELLIS RIVER AT SOUTH ANDOVER, ME.	131	08-28-75	1200	26	47	6.7	17.0	7.1	73
01055000	SWIFT RIVER NEAR ROXBURY, ME.	95.8	08-28-75	1115	24	33	6.7	17.5	9.4	98
01055500	NEZINSCOT RIVER AT TURNER CENTER, ME.	171	08-28-75	1600	31	75	7.2	23.0	9.5	109
01057000	LITTLE ANDROSCOGGIN RIVER NEAR SOUTH PARIS, ME.	76.2	08-28-75	1500	8.6	70	6.9	19.5	8.7	94
SACO RIVER BASIN										
01066500	LITTLE OSSIPEE RIVER NEAR SOUTH LIMINGTON, ME.	161	09-16-75	1145	261	38	6.7	16.0	9.1	91

NOTE.--All samples taken at stream gaging stations. See station heading for complete description of location including latitude and longitude.

SECTION 2. WELL DESCRIPTIONS
and
WATER LEVEL MEASUREMENTS

ANDROSCOGGIN COUNTY

440227070124101 (An 1) Ernest L. Libby.
Auburn. Dug unused water-table well in marine deposits, diam 48 in. (122 cm), depth 15 ft (5 m), cased with rock to 15 ft (5 m). Lsd about 220 ft (67 m) above msl. MP top of granite curb at lsd. Highest water level, 3.30 ft (1.01 m) June 16, 1960; lowest, 10.23 ft (3.12 m) Nov. 16, 1965. Records available: 1959-75.

1974		Jan. 28	4.30	June 28	4.08
Oct. 15	4.15	Feb. 16	4.28	July 15	4.00
28	4.18	28	4.30	31	e4.24
Nov. 15	4.08	Apr. 14	4.00	Aug. 16	4.48
25	4.14	30	e4.06	28	4.79
Dec. 16	3.99	May 14	4.11	Sept. 14	5.09
29	4.10	28	4.15	29	4.24
1975		June 15	4.05		
Jan. 17	4.00				

e Water level estimated.

AROOSTOOK COUNTY

464619068280401 (Ar 1) H. L. Stevens.
Portage Lake. Driven unused water-table well in till, diam 1.5 in. (3.8 cm), depth 8 ft (2 m), formerly 11 ft (3 m), cased with iron pipe 0-8 ft (0-2m), screened 8-11 ft (2-3 m). Lsd about 930 ft (283 m) above msl. MP top of pipe, 2.0 ft (0.6 m) above lsd. Highest water level, overflowed Dec. 21, 1957 and April 28, 1975; lowest, estimated 14.0 ft (4.3 m) Nov. 30, 1955. Has been dry frequently. Records available: 1942-75.

	1974		Feb. 11	5.88	May 29	2.57
Oct. 12	5.25		26	6.65	June 13	3.00
26	e8.00	Mar. 13		e8.00	26	5.28
Nov. 13	e9.70	28		2.00	July 10	6.06
30	e11.15	Apr. 13		3.50	29	6.40
Dec. 13	1.20	17		2.07	Aug. 12	7.30
27	2.55	28		.00	31	e8.30
	1975		30	1.47	Sept. 15	e8.45
Jan. 13	3.90	May 14		1.39	30	e8.65
28	5.30					

e Water level estimated, well dry.

460657067512201 (Ar 3) J. Edward Goodin.
Houlton. Drilled unused artesian well in bedrock, diam 6 in. (15 cm), depth 90 ft (27 m), cased with steel. Lsd about 370 ft (113 m) above msl. MP hole in top of pump base at lsd. Highest water level 10.72 ft (3.27 m) Mar. 31, 1973; lowest, 25.91 ft (7.90 m) Oct. 15, 1960. Records available: 1958-75.

1974	1975	Mar. 15	18.82
Oct. 26	16.93	Jan. 15	13.99
Nov. 15	16.87	25	15.60
Dec. 1	17.13	Feb. 15	18.00
15	13.04	25	18.76
26	14.05	30	12.84

CUMBERLAND COUNTY

435453070013601 (C 26) Brunswick and Topsham Water District. Brunswick. Drilled unused artesian well in stratified glacial drift, diam 12 in. (30 cm), depth 101 ft (31 m), cased with steel 0-81 ft (0-25m), screened 81-101 ft (25-31 m). Lsd 139 ft (42 m) above msl. MP base of water-level recorder at lsd. Highest water level, 27.79 ft (8.47 m) July 5, 1974; lowest, 36.41 ft (11.10 m) Feb. 10, 1966. Records available: 1958-75.

Mean water level for the day, from recorder graph.

1974		Jan. 10	28.84	Mar. 20	29.17
Oct. 31	29.11	15	28.86	25	28.97
Nov. 15	29.13	20	28.78	31	28.88
20	29.16	31	28.80	Apr. 5	28.87
25	28.91	Feb. 10	28.79	10	28.79
30	28.97	15	28.84	15	28.34
Dec. 5	28.83	20	28.86	20	28.32
10	28.84	25	28.97	25	28.39
25	28.62	28	28.94	30	28.30
31	28.65	Mar. 5	28.98	May 5	28.31
1975		10	29.00	10	28.39
Jan. 5	28.76	15	29.16	15	28.38

CUMBERLAND COUNTY--Continued

	1975	July	5	28.20	Aug.	20	28.80
May	20	28.49	10	h28.25	25	28.90	
	25	28.56	15	28.39	31	29.08	
	31	28.60	20	28.48	Sept.	5	29.13
June	5	28.68	25	28.52	10	29.18	
	10	h28.75	31	28.60	15	29.21	
	15	28.64	Aug.	5	28.62	20	29.35
	20	28.29	10	28.68	25	29.36	
	25	28.20	15	28.70	30	29.43	
	30	28.18					

h Instantaneous measurement, made manually

HANCOCK COUNTY

444950068220601 (H 1) Norman Salisbury.
Amherst. Dug unused water-table well in glacial drift, diam 18 in. (46 cm), depth 14 ft (4 m), cased with rock to 14 ft (4 m). Lsd about 330 ft (101 m) above msl. MP nail in top of vertical timber at lsd. Highest water level, 2.10 ft (0.64 m) May 29, 1961; lowest, estimated 17.8 ft (5.4 m) Sept. 30, 1965. Has been dry frequently. Records available: 1943-75.

1974		Jan. 28	6.60	June 14	5.30
Oct. 12	8.40	Feb. 12	6.40	30	e7.55
27	8.60	25	9.40	July 11	9.80
Nov. 11	7.50	Mar. 12	7.60	28	9.60
Dec. 2	6.00	27	3.60	Aug. 12	11.40
12	4.60	Apr. 14	4.50	27	11.60
27	4.20	27	4.90	Sept. 12	e14.10
1975		May 12	6.00	28	12.80
Jan. 12	5.40	27	6.80		

e Water level estimated.

KENNEBEC COUNTY

441849069442001 (K 52) Walter Panek.
Augusta. Dug unused water-table well in glacial till, diam 36 in. (91 cm), depth 22 ft (7 m). Lsd about 220 ft (67 m) above msl. MP top of floor of shelter house at lsd. Highest water level, 3.42 ft (1.04 m) Mar. 28, 1975, lowest, 14.29 ft (4.36 m) Oct. 31, 1963. Records available: 1960-75.

Mean water level for the day, from recorder graph.

1974		May	15	6.35	July	25	6.98	
Oct.	29	h5.66	20	6.62		31	6.95	
Nov.	26	h4.51	25	7.02	Aug.	5	7.29	
Dec.	25	5.69	31	7.20		10	7.59	
	28	5.92	June	5		15	7.87	
			10	6.27		20	8.21	
1975								
Jan.	28	h5.57	15	4.07		25	8.57	
Feb.	27	h5.41	30	h6.35		31	9.07	
Mar.	28	h3.42	July	5	6.90	Sept.	5	9.24
Apr.	29	h5.09	10	7.33		10	9.47	
May	5	h5.58	15	7.56		15	9.73	
	10	6.01	20	7.28		30	8.05	

h Instantaneous measurement, made manually.

442023069553801 (K 88) A. Allen Stackpole.
Winthrop. Drilled unused artesian well in bedrock, diam 6 in. (15 cm), depth 298 ft (91 m), cased with steel. Lsd about 350 ft (107 m) above msl. MP top of pipe at lsd. Highest water level, 35.26 ft (10.75 m) Apr. 17, 1972; lowest, 59.86 ft (18.25 m) Oct. 31, 1962. Records available: 1962-75.

1974	1975	June 2	51.40
Oct. 29	56.59	Jan. 28	53.70
Nov. 27	52.81	Feb. 27	50.60
Dec. 23	53.50	Mar. 28	46.85
		Apr. 29	50.16
		30	58.47

OXFORD COUNTY

444637070552301 (O 400) Union Water Power Co. Middle Dam, Lower Richardson Lake. Dug unused water-table well in glacial till, diam 24 in. (61 cm), depth 15 ft (5 m), cased with concrete pipe to 15 ft (5 m). Lsd about 1,450 ft (442 m) above msl. MP top of casing 2.0 ft (0.6 m) above lsd. Highest water level, 0.2 ft (0.1 m) May 20, 1945, Apr. 30, 1961, Apr. 16, 1967; lowest, 12.2 ft (3.7 m) Oct. 9, 16, 23, 1966. Records available: 1944-75.

1974		Feb. 2		June 8	
Oct. 6	8.5	9	6.0	15	2.8
13	8.2	16	6.9	22	4.7
20	7.9	23	7.1	29	6.2
27	7.8	Mar. 2	7.2	July 6	7.2
Nov. 3	7.9	9	7.6	13	7.7
10	7.9	23	4.0	20	7.2
17	7.4	30	3.0	27	7.2
24	6.0	Apr. 6	3.9	Aug. 3	7.8
Dec. 1	5.3	13	4.2	10	8.2
8	4.6	20	.9	17	8.9
22	3.7	27	1.0	24	9.6
29	4.2	May 4	.8	31	10.0
1975		11 1.4		Sept. 7 10.4	
Jan. 5	4.8	18	2.8	14	10.7
12	5.0	25	4.2	21	10.2
19	4.8	June 1	1.8	28	10.6
26	4.8				

SOMERSET COUNTY

444219069545801 (Sm 1) J. Harrison Farrand. Mercer. Dug unused water-table well in sand, diam 60 in. (152 cm), depth 14 ft (4 m), cased with rock to 14 ft (4 m). Lsd about 270 ft (82 m) above msl. MP nail in top of horizontal timber at NE corner of well cover, 0.4 ft (0.1 m) above lsd. Highest water level, 3.30 ft (1.01 m) Apr. 12, 1975, lowest, estimated 14.1 ft (4.3 m) Nov. 30, 1952. Records available: 1942-75.

1974		Jan. 26		June 3	
Oct. 5	6.42	Feb. 11	5.98	11	5.94
26	7.15	24	6.79	24	6.63
Nov. 11	7.53	Mar. 10	5.58	July 11	5.66
26	4.72	27	4.11	26	5.61
Dec. 5	4.87	Apr. 12	3.30	Aug. 11	6.44
10	4.28	27	4.46	25	7.49
27	5.17	May 11	4.99	Sept. 10	7.99
1975		26 5.22		27 7.15	
Jan. 11	5.54				

WASHINGTON COUNTY

444240067283501 (W 1) Julian A. Johnson. Machias. Drilled artesian stock well in bedrock, diam 6 in. (15 cm), depth 54 ft (16 m), cased with steel. Lsd about 140 ft (43 m) above msl. MP top of casing at lsd. Highest water level, 5.29 ft (1.61 m) Apr. 16, 1961; lowest, 13.95 ft (4.25 m) Feb. 2, 1959. Records available: 1959-73, 75.

1974		1975		Apr. 29 9.57	
Oct. 16	10.28	Jan. 14	10.05	May 16	10.50
28	10.63	27	10.30	28	10.90
Nov. 15	10.57	Feb. 28	e11.40	June 17	7.85
25	9.01	Mar. 3	10.10	29	11.40
Dec. 17	9.29	17	11.35	July 29	11.55
25	10.05	26	7.05	Aug. 25	12.20
		Apr. 14	8.15	Sept. 15	11.80

e Water level estimated.

WASHINGTON COUNTY--continued

444955067000501 (W 2) Lubec Water District. Lubec. Driven unused artesian well in glacial sand and gravel, diam 2.5 in. (6.4 cm), depth 52 ft (16 m), cased with iron pipe 0-42 ft (0-13 m), screened 42-52 ft (13-16 m). Lsd about 50 ft (15 m) above msl. MP top of casing at lsd. Highest water level, 9.31 ft (2.84 m) June 14, 1960; lowest, 19.89 ft (6.06 m) Nov. 12, 1965. Records available: 1958-75.

1974		1975		May 27 17.72	
Oct. 16	18.24	Jan. 27	18.00	June 27	17.91
26	18.36	Feb. 26	17.20	July 29	19.08
Nov. 26	18.29	Mar. 27	18.60	Aug. 29	19.21
Dec. 26	18.21	Apr. 27	19.12	Sept. 28	18.09

YORK COUNTY

434822070482501 (Y 1) James P. Small. Cornish. Dug unused water-table well in glacial outwash, diam 36 in. (91 cm), depth 24 ft (7 m), cased with brick to 24 ft (7 m). Lsd about 370 ft (113 m) above msl. MP mark chiseled on top of concrete well curb at lsd. Highest water level, 7.90 ft (2.41 m) Apr. 16, 1952; lowest, 18.40 ft (5.61 m) Nov. 14, 1948. Records available: 1943-75.

Mean water level for the day, from recorder graph.

1974		Jan. 20 13.09		May 15 11.39	
Oct. 5	14.43	25	13.20	20	11.86
10	14.51	31	13.27	25	12.20
15	14.83	Feb. 5	13.10	31	12.83
20	15.11	10	13.58	June 5	13.45
25	h15.23	15	13.92	30	12.72
31	15.58	20	14.34	July 5	12.97
Nov. 5	15.88	25	h14.66	10	13.40
10	16.06	28	13.55	24	h12.50
15	16.04	Mar. 5	11.70	31	e13.25
20	15.71	10	11.70	Aug. 5	e13.60
25	h11.99	15	11.72	10	e14.06
30	e11.50	20	9.90	15	14.80
Dec. 5	11.28	25	8.60	20	15.15
10	10.90	31	8.87	25	h15.50
15	10.48	Apr. 5	9.00	31	15.91
20	10.88	10	8.70	Sept. 5	15.80
25	h11.40	15	8.80	10	15.86
31	12.05	20	9.07	15	16.10
1975		25 9.43		20 16.34	
Jan. 5	12.56	30	9.85	25	16.46
10	13.01	May 5	10.37	30	15.22
15	13.08	10	10.89		

e Water level estimated

h Instantaneous measurement, made manually.

MISCELLANEOUS ANALYSES OF GROUND WATER IN MAINE

CHEMICAL ANALYSES IN MILLIGRAMS PER LITRE, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975

WELL NUMBER	DATE	LOCAL NUMBER	TOWN	DEPTH OF WELL (FT)	WATER-BEARING UNIT A/	SPECIFIC CONDUCTANCE (MICRO-MHOS)	PH (UNITS)	TEMPERATURE (DEG C)	DIS-SOLVED SILICA (SI02)	DIS-SOLVED CALCIUM (CA)
465821067500401	01-06-75	AR 52	CASWELL	110	L	466	7.5	-	7.2	72
434528070184301	08-29-75	C 882	FALMOUTH	1078	B	234	9.1	-	13	6.5
441849069442001	06-03-75	K 52	AUGUSTA	22	T	330	6.2	8.0	11	21
450530069054001	01-22-75	PE 442	CHARLESTON	236	B	180	7.3	-	8.5	23
450530069054002	01-22-75	PE 443	CHARLESTON	236	B	210	7.3	-	8.8	25
444219069545801	06-03-75	SM 1	MERCER	14	E	113	6.5	7.0	5.9	18
444240067283501	06-04-75	W 1	MACHIAS	54	B	200	6.5	8.0	13	27
443740067234801	02-04-75	W 201	MACHIASPORT	175	B	322	7.1	-	8.0	40
443751067234001	02-04-75	W 202	MACHIASPORT	350	B	457	7.6	-	12	28
443744067233504	02-04-75	W 207A	MACHIASPORT	270	B	293	7.1	-	19	40
434822070482501	06-03-75	Y 1	CORNISH	24	O	175	6.5	8.5	5.3	15

WELL NUMBER	DATE	DIS-SOLVED MAGNE-SIUM (MG)	DIS-SOLVED SODIUM (NA)	DIS-SOLVED POTAS-SIUM (K)	BICAR-BONATE (HC03)	CAR-BONATE (C03)	DIS-SOLVED SULFATE (S04)	DIS-SOLVED CHLO-RIDE (CL)	DIS-SOLVED FLUO-RIDE (F)	TOTAL PHOS-PHORUS (P)	TOTAL IRON (FE) (UG/L)
465821067500401	01-06-75	6.3	16	0.5	135	0	61	30	0.2	-	10
434528070184301	08-29-75	.2	47	.4	71	11	6.5	10	3.8	0.01	80
441849069442001	06-03-75	7.5	19	2.0	27	0	9.9	67	.1	.01	340
450530069054001	01-22-75	6.7	4.2	.3	103	0	7.5	3.9	.2	-	10
450530069054002	01-22-75	7.7	3.8	.4	102	0	9.2	9.8	.1	-	400
444219069545801	06-03-75	3.1	1.7	2.6	67	0	7.1	1.8	.1	.17	4000
444240067283501	06-04-75	1.7	5.6	2.5	95	0	9.6	3.8	.0	.01	4000
443740067234801	02-04-75	4.5	20	1.0	141	0	8.3	24	.0	-	920
443751067234001	02-04-75	6.8	55	2.8	97	0	17	76	.1	-	10
443744067233504	02-04-75	5.8	11	.6	153	0	1.4	14	.0	-	80
434822070482501	06-03-75	1.3	6.0	4.6	34	0	10	6.8	.1	.02	30

WELL NUMBER	DATE	TOTAL MANGA-NESE (MN) (UG/L)	DIS-SOLVED SOLIDS (SUM)	HARD-NESS (CA,MG)	NON CAR-BONATE HARD-NESS	DIS-SOLVED NITRATE (NO3)	DIS-SOLVED NITRATE (N)	DIS-SOLVED NITRATE (N)	CARBON DI-OXIDE (C02)	TOTAL ORGANIC CARBON (C)
465821067500401	01-06-75	0	288	210	95	-	B/6.3	-	6.8	-
434528070184301	08-29-75	0	133	17	0	.13	.03	.00	-	-
441849069442001	06-03-75	20	152	83	61	1.4	.31	.01	27	2.5
450530069054001	01-22-75	0	106	85	1	-	B/ .13	-	8.3	-
450530069054002	01-22-75	0	117	94	10	-	B/ .33	-	8.2	-
444219069545801	06-03-75	720	74	58	3	.13	.03	.01	34	3.8
444240067283501	06-04-75	80	111	74	0	.71	.16	.00	48	3.9
443740067234801	02-04-75	40	177	120	3	-	B/ .38	-	18	-
443751067234001	02-04-75	20	247	98	18	-	B/ .29	-	3.9	-
443744067233504	02-04-75	400	168	120	0	-	B/ .00	-	19	-
434822070482501	06-03-75	10	83	43	15	17	3.9	.01	17	7.9

A/ WATER-BEARING UNIT: B, BEDROCK UNDIFFERENTIATED; E, EOLIAN DEPOSITS;
L, LIMESTONE; O, OUTWASH; T, TILL

B/ Also includes dissolved nitrite (N).

	Page		Page
Accuracy of field data and computed results	13,18	Kennebec River basin:	
Allagash River near Allagash	31,165	gaging stations in	97-112
Ambajejus Lake, contents of	91	reservoirs in	113
Androscoggin River, at Errol, N.H.	115	water quality records in	103,165
at Rumford	122		
near Auburn	128	Lake Auburn, contents of	138
near Gorham, N.H.	116	Land surface datum, definition of	4
Androscoggin River basin:		Little Androscoggin River, near Auburn	127
gaging-station records in	114-137	near South Paris	125,165
reservoirs in	138	Little Ossipee River near South Limington	155,165
water quality records in	118,129,165		
Aroostook River, at Caribou	41	Machias River (tributary to Aroostook River)	
at Washburn	40	near Ashland	39,165
near Masardis	38,165	Machias River (tributary to Atlantic Ocean)	
Azischohos Lake, contents of	138	at Whitneyville	66
		Marley Brook near Ludlow	48,165
Blacksmith Brook at Wells	157	Mattawamkeag River near Mattawamkeag	72
Brassua Lake, contents of	113	Measuring point, definition of	4
		Meduxnekeag River near Moulton	49
Caribou Lake, contents of	91	Micrograms per litre, definition of	4
Carrabassett River near North Anson	109	Milligrams per litre, definition of	4
Cfs-day, definition of	3	Miscellaneous measurements of streamflow	159-164
Chamberlain Lake, contents of	91	Miscellaneous analyses of water quality	
Chesuncook Lake, contents of	91	of streams	165
Coliform organisms, definition of	3	Moose Pond, contents of	91
Collection of data	10,15,18	Moosehead Lake at East Outlet	97
Collyer Brook near Gray	139	Mooselookmeguntic Lake, contents of	138
Computation, accuracy of results of	13	Morrison Brook near Sebec Corners	74,165
Contents, definition of	3	Mousam River near West Kennebunk	156
Control, definition of	3	Moxie Pond, contents of	113
Conversion factors, tables of	7,17,24		
Cooperation, record of	2	Narraguagus River at Cherryfield	67,165
Crooked River near Naples	141	National stream-quality accounting network,	
Cubic feet per second per square mile,		definition of	8
definition of	3	Nezinscot River at Turner Center	124,165
Cubic feet per second, definition of	3	North Twin Lake, contents of	91
Data, accuracy of	13	Order of listing gaging stations	9
explanation of	10,15,18	Ossipee River at Cornish	146
Dead River, at The Forks	101,165	at Effingham Falls, N.H.	145
near Dead River	100		
Dennys River at Dennysville	65,165	Partial-record station, definition of	4
Diamond River near Wentworth Location, N.H.	114	Passadumkeag River at Lowell	89
Discharge, definition of	3	Pemadumcook Lake, contents of	91
Dissolved, definition of	4	Penobscot River at West Enfield	78
Drainage area, definition of	4	East Branch at Grindstone	70,165
		near Mattawamkeag	71
Elbow Lake, contents of	91	Penobscot River basin:	
Ellis River at South Andover	121,165	gaging-station records in	70-90
		reservoirs in	91
First Roach Pond, contents of	113	water quality records in	79,165
Fish River near Fort Kent	36,165	Periphyton, definition of	4
Flagstaff Lake, contents of	113	Pesticide program, definition of	8
		Phytoplankton, definition of	5
Gage height, definition of	4	Piscataqua River basin:	
Gaging station, definition of	4	gaging-station records in	158
Garland Brook near Mariaville	69	Piscataquis River at Medford	77
Grand Lake, contents of	91	near Dover-Foxcroft	73,165
Grand Lake Stream at Grand Lake Stream	51,165	Pleasant River near Milo	76,165
Ground water, analyses of	170	Presumpscot River at outlet of Sebago Lake	142
Ground-water levels	168	Presumpscot River basin:	
Gulf Island Pond, contents of	138	gaging station records in	141
		Publications of streamflow records by	
Hardness, definition of	4	Geological Survey	1,14
Hydrologic bench-mark station, definition of	8	of water-quality records	1,17
Hydrologic conditions	19	of ground-water records	1,18
graph of	22		
Indian Pond, contents of	113	Radiochemical program, definition of	8
		Rangeley Lake, contents of	138
Kenduskeag Stream near Kenduskeag	90,165	References, selected	20,21
Kennebec River at Bingham	102	Richardson Lakes, contents of	138
at Moosehead	98	Ripogenus Lake, contents of	91
at The Forks	99,165	Round Pond, contents of	91
		Royal River at Yarmouth	140

	Page		Page
Royal River basin:		Solute, definition of	5
gaging-station records in	139,140	South Twin Lake, contents of	91
Runoff in inches, definition of	5	Specific conductance, definition of	6
Sabattus River near Lisbon Center	137	Stage-discharge relation, definition of	6
Saco River at Cornish	147	Stations, location of	23
near Conway, N.H.	144	Station numbers	9
Saco River basin:		Stroudwater River at South Portland	143
gaging-station records in	144-155	Swift River near Roxbury	123,165
water quality records in	148,165	Tanning Brook, North Branch, near Manchester	112
St. Croix River at Baring	53	Telos Lake, contents of	91
at Milltown	55	Terms, definition of	3
at Vanceboro	50	Thermograph, definition of	6
near Baileyville	52,165	Thompson Lake, contents of	138
St. Croix River basin:		Thompson Lake Outlet at Oxford	126
gaging-station records in	50-64	Tons per day, definition of	6
water quality records in	54,165	Total, definition of	6
St. Francis River at outlet of Glasier Lake, near Connors, New Brunswick	35	Umbagog Lake, contents of	138
St. John River at Dickey	27,165	Union River basin:	
at Ninemile Bridge	26	gaging-station records in	68,69
below Fish River, at Fort Kent	37,165	water quality records in	165
St. John River basin:		Union River, West Branch, at Amherst	68,165
gaging-station records in	26-40	Weighted average, definition of	6
water quality records in	28,32,41,165	Wells, description of	168,169
Salmon Falls River at Milton, N.H.	158	numbers of	18
Sandy River near Mercer	110	water level measurements in	168,169
Sebasticook River near Pittsfield	111	water quality in	170
Sebec Lake, contents of	91	Wild River at Gilead	117
Sebec River at Sebec	75	Work, scope of	1
Second Lake, contents of	91	WRD, definition of	6
Sediment, definition of	5	WSP, definition of	6
Sheepscot River at North Whitefield	92	Wyman Pond, contents of	113
Sodium-adsorption-ratio, definition of	5		

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