

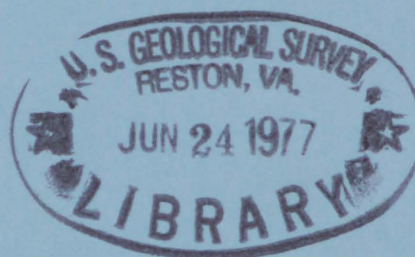
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# Water Resources Data for Maine

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NA

## Water Year 1976



U.S. GEOLOGICAL SURVEY WATER-DATA REPORT ME-76-1

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



# CALENDAR FOR WATER YEAR 1976

1 9 7 5

## OCTOBER

| S  | M  | T  | W  | T  | F  | S  |
|----|----|----|----|----|----|----|
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| 26 | 27 | 28 | 29 | 30 | 31 |    |

## NOVEMBER

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| 30 |    |    |    |    |    |    |

## DECEMBER

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| 28 | 29 | 30 | 31 |    |    |    |

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## JANUARY

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## FEBRUARY

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| 15 | 16 | 17 | 18 | 19 | 20 | 21 |
| 22 | 23 | 24 | 25 | 26 | 27 | 28 |
| 29 |    |    |    |    |    |    |

## MARCH

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## APRIL

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## MAY

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| 23 | 24 | 25 | 26 | 27 | 28 | 29 |
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## JUNE

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| 13 | 14 | 15 | 16 | 17 | 18 | 19 |
| 20 | 21 | 22 | 23 | 24 | 25 | 26 |
| 27 | 28 | 29 | 30 |    |    |    |

## JULY

| S  | M  | T  | W  | T  | F  | S  |
|----|----|----|----|----|----|----|
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| 11 | 12 | 13 | 14 | 15 | 16 | 17 |
| 18 | 19 | 20 | 21 | 22 | 23 | 24 |
| 25 | 26 | 27 | 28 | 29 | 30 | 31 |

## AUGUST

| S  | M  | T  | W  | T  | F  | S  |
|----|----|----|----|----|----|----|
| 1  | 2  | 3  | 4  | 5  | 6  | 7  |
| 8  | 9  | 10 | 11 | 12 | 13 | 14 |
| 15 | 16 | 17 | 18 | 19 | 20 | 21 |
| 22 | 23 | 24 | 25 | 26 | 27 | 28 |
| 29 | 30 | 31 |    |    |    |    |

## SEPTEMBER

| S  | M  | T  | W  | T  | F  | S  |
|----|----|----|----|----|----|----|
|    |    |    | 1  | 2  | 3  | 4  |
| 5  | 6  | 7  | 8  | 9  | 10 | 11 |
| 12 | 13 | 14 | 15 | 16 | 17 | 18 |
| 19 | 20 | 21 | 22 | 23 | 24 | 25 |
| 26 | 27 | 28 | 29 | 30 |    |    |



# **Water Resources Data for Maine**

## **Water Year 1976**



**U.S. GEOLOGICAL SURVEY WATER-DATA REPORT ME-76-1**

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



UNITED STATES DEPARTMENT OF THE INTERIOR

CECIL D. ANDRUS, Secretary

GEOLOGICAL SURVEY

V. E. McKelvey, Director

For additional information write to  
Subdistrict Chief, Water Resources Division  
U. S. Geological Survey  
26 Ganneston Drive  
Augusta, Maine 04330

1977

## Preface

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

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



|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                                                                              |                                                                                 |                              |
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| 16. Abstracts Water resources data for the 1976 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 66 gaging stations; stage only records for 2 gaging stations; contents for 17 lakes and reservoirs; water quality for 13 gaging stations and 22 wells; and water levels for 17 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. |                                                                              |                                                                                 |                              |
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## CONTENTS

|                                                                                    | Page |
|------------------------------------------------------------------------------------|------|
| Preface.....                                                                       | III  |
| List of gaging stations, in downstream order, for which records are published..... | VI   |
| Introduction.....                                                                  | 1    |
| Cooperation.....                                                                   | 1    |
| Acknowledgements.....                                                              | 2    |
| Hydrologic conditions.....                                                         | 2    |
| Definition of terms.....                                                           | 2    |
| Downstream order and station numbers.....                                          | 6    |
| Numbering system for wells and miscellaneous sites.....                            | 6    |
| Special networks and programs.....                                                 | 7    |
| Explanation of stage and water-discharge records.....                              | 7    |
| Collection and computation of data.....                                            | 7    |
| Accuracy of field data and computed results.....                                   | 9    |
| Other data available.....                                                          | 10   |
| Explanation of water-quality records.....                                          | 10   |
| Collection and examination of data.....                                            | 10   |
| Water analysis.....                                                                | 10   |
| Water temperatures.....                                                            | 11   |
| Sediment.....                                                                      | 11   |
| Explanation of ground-water level records.....                                     | 11   |
| Collection of the data.....                                                        | 11   |
| Publications on techniques of water-resources investigations.....                  | 12   |
| Gaging station records.....                                                        | 15   |
| Discharge at partial-record stations and miscellaneous sites.....                  | 190  |
| Measurements made at miscellaneous sites.....                                      | 190  |
| Miscellaneous measurements of water temperature and specific conductance.....      | 200  |
| Ground-water records.....                                                          | 204  |
| Ground-water level records.....                                                    | 204  |
| Quality of ground-water records.....                                               | 210  |
| Index.....                                                                         | 215  |

## ILLUSTRATIONS

|                                                                                                                                             |    |
|---------------------------------------------------------------------------------------------------------------------------------------------|----|
| Figure 1. System for numbering wells and miscellaneous sites.....                                                                           | 7  |
| 2. Comparison of discharge at three long-term index gaging stations during<br>1976 water year with median discharge for period 1941-70..... | 13 |
| 3. Map showing location of data collection stations.....                                                                                    | 14 |

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

*Letter after station name designates type of data: (d) discharge, (c) chemical  
(b) biological, (m) microbiological, (t) water temperature, (s) sediment*

| NORTH ATLANTIC SLOPE BASINS                                                       | Page |
|-----------------------------------------------------------------------------------|------|
| <b>ST. JOHN RIVER BASIN</b>                                                       |      |
| St. John River at Ninemile Bridge (dbcmt).....                                    | 15   |
| St. John River at Dickey (dcst).....                                              | 20   |
| Allagash River near Allagash (dcst).....                                          | 27   |
| St. Francis River at outlet of Glasier Lake, near Connors, New Brunswick (d)..... | 34   |
| Fish River near Fort Kent (d).....                                                | 35   |
| St. John River below Fish River, at Fort Kent (d).....                            | 36   |
| Aroostook River near Masardis (d).....                                            | 37   |
| Machias River near Ashland (d).....                                               | 38   |
| Aroostook River at Washburn (d).....                                              | 39   |
| Aroostook River at Caribou (bcmst).....                                           | 40   |
| <b>Meduxnekeag River:</b>                                                         |      |
| Timoney Lake Outlet Stream:                                                       |      |
| Marley Brook near Ludlow (d).....                                                 | 52   |
| Meduxnekeag River near Houlton (d).....                                           | 53   |
| <b>ST. CROIX RIVER BASIN</b>                                                      |      |
| St. Croix River at Vanceboro (d).....                                             | 54   |
| Grand Lake Stream at Grand Lake Stream (d).....                                   | 55   |
| St. Croix River near Baileyville (d).....                                         | 56   |
| St. Croix River at Baring (dt).....                                               | 57   |
| St. Croix River at Milltown (bcmst).....                                          | 60   |
| <b>DENNYS RIVER BASIN</b>                                                         |      |
| Dennys River at Dennysville (d).....                                              | 75   |
| <b>MACHIAS RIVER BASIN</b>                                                        |      |
| Machias River at Whitneyville (d).....                                            | 76   |
| <b>NARRAGUAGUS RIVER BASIN</b>                                                    |      |
| Narraguagus River at Cherryfield (d).....                                         | 77   |
| <b>UNION RIVER BASIN</b>                                                          |      |
| West Branch Union River at Amherst (d).....                                       | 78   |
| Garland Brook near Mariaville (d).....                                            | 79   |
| <b>PENOBSCOT RIVER BASIN</b>                                                      |      |
| <b>Penobscot River:</b>                                                           |      |
| East Branch Penobscot River at Grindstone (d).....                                | 80   |
| Penobscot River near Mattawamkeag (d).....                                        | 81   |
| Mattawamkeag River near Mattawamkeag (d).....                                     | 82   |
| Piscataquis River near Dover-Foxcroft (d).....                                    | 83   |
| Morrison Brook near Sebec Corners (d).....                                        | 84   |
| Sebec River at Sebec (d).....                                                     | 85   |
| Pleasant River near Milo (d).....                                                 | 86   |
| Piscataquis River at Medford (d).....                                             | 87   |
| Penobscot River at West Enfield (dbcmt).....                                      | 88   |
| Passadumkeag River at Lowell (d).....                                             | 102  |
| Kenduskeag Stream near Kenduskeag (d).....                                        | 103  |
| Reservoirs in Penobscot River basin.....                                          | 104  |
| <b>SHEEPSCOT RIVER BASIN</b>                                                      |      |
| Sheepscot River at North Whitefield (dct).....                                    | 105  |
| <b>KENNEBEC RIVER BASIN</b>                                                       |      |
| <b>Moose River (head of Kennebec River):</b>                                      |      |
| Moosehead Lake at East Outlet.....                                                | 110  |
| Kennebec River at Moosehead (d).....                                              | 111  |
| Kennebec River at The Forks (d).....                                              | 112  |

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

VII

|                                                                      |      |
|----------------------------------------------------------------------|------|
| NORTH ATLANTIC SLOPE BASINS--Continued                               | Page |
| Kennebec River Basin--Continued                                      |      |
| Kennebec River--Continued                                            |      |
| Dead River near Dead River (d).....                                  | 113  |
| Dead River at The Forks (d).....                                     | 114  |
| Kennebec River at Bingham (dbcmst).....                              | 115  |
| Carrabassett River near North Anson (d).....                         | 127  |
| Sandy River near Mercer (d).....                                     | 128  |
| Sebasticook River near Pittsfield (d).....                           | 129  |
| Bond Brook:                                                          |      |
| Tanning Brook:                                                       |      |
| North Branch Tanning Brook near Manchester (d).....                  | 130  |
| Cobbosseecontee Lake at East Winthrop.....                           | 131  |
| Reservoirs in Kennebec River basin.....                              | 132  |
| ANDROSCOGGIN RIVER BASIN                                             |      |
| Androscoggin River:                                                  |      |
| Umbagog Lake:                                                        |      |
| Magalloway River:                                                    |      |
| Diamond River near Wentworth Location, NH (d).....                   | 133  |
| Androscoggin River at Errol, NH (d).....                             | 134  |
| Androscoggin River near Gorham, NH (d).....                          | 135  |
| Wild River at Gilead (dbcmst).....                                   | 136  |
| Ellis River at South Andover (d).....                                | 141  |
| Androscoggin River at Rumford (d).....                               | 142  |
| Swift River near Roxbury (d).....                                    | 143  |
| Nezinscot River at Turner Center (d).....                            | 144  |
| Little Androscoggin River near South Paris (d).....                  | 145  |
| Thompson Lake Outlet at Oxford (d).....                              | 146  |
| Little Androscoggin River near Auburn (d).....                       | 147  |
| Androscoggin River near Auburn (d).....                              | 148  |
| Sabattus River near Lisbon Center (d).....                           | 149  |
| Androscoggin River at Brunswick (bcmst).....                         | 150  |
| Reservoirs in Androscoggin River basin.....                          | 161  |
| ROYAL RIVER BASIN                                                    |      |
| Royal River:                                                         |      |
| Collyer Brook near Gray (d).....                                     | 162  |
| Royal River at Yarmouth (d).....                                     | 163  |
| PRESUMPCOT RIVER BASIN                                               |      |
| Crooked River near Naples (d).....                                   | 164  |
| Presumpscot River at outlet of Sebago Lake (d).....                  | 165  |
| Presumpscot River near West Falmouth (dct).....                      | 166  |
| FORE RIVER BASIN                                                     |      |
| Stroudwater River at Portland (d).....                               | 170  |
| SACO RIVER BASIN                                                     |      |
| Saco River near Conway, NH (d).....                                  | 171  |
| Ossipee River at Effingham Falls, NH (d).....                        | 172  |
| Ossipee River at Cornish (d).....                                    | 173  |
| Saco River at Cornish (dbcmst).....                                  | 174  |
| Little Ossipee River near South Limington (d).....                   | 186  |
| MOUSAM RIVER BASIN                                                   |      |
| Mousam River near West Kennebunk (d).....                            | 187  |
| WEBHANNET RIVER BASIN                                                |      |
| Webhannet River:                                                     |      |
| Blacksmith Brook at Wells (d).....                                   | 188  |
| PISCATAQUA RIVER BASIN                                               |      |
| Salmon Falls River (head of Piscataqua River) at Milton, NH (d)..... | 189  |





## INTRODUCTION

Water resources data for the 1976 water year for Maine consist of records of stage, discharge, and water quality of streams; stage and contents of lakes and reservoirs; and water levels and water quality of ground water. This report contains discharge records for 66 gaging stations; stage only records for 2 gaging stations; contents for 17 lakes and reservoirs; water quality for 13 gaging stations and 22 wells; and water levels for 17 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 collected by the U.S. Geological Survey and cooperating State and Federal agencies in Maine.

Records of discharge or stage of streams, and contents or stage of lakes and reservoirs were first published in a series of U.S. Geological Survey water-supply papers entitled "Surface Water Supply of the United States." Through September 30, 1960, these water-supply papers were in an annual series 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." Water-supply papers may be consulted in the libraries of the principal cities in the United States or may be purchased from Branch of Distribution, U.S. Geological Survey, 1200 South Eads Street, Arlington, VA 22202.

For water years 1961 through 1974, streamflow data were released by the Geological Survey in annual reports on a State-boundary basis. Water-quality records beginning with the 1968 water year, and ground-water data since the 1971 water year have been similarly released either in separate reports or in conjunction with streamflow records. Beginning with the 1975 water year, water data for streamflow, water quality, and ground water are published as an official Survey report on a State-boundary basis. These official Survey reports carry an identification number consisting of the two-letter State abbreviation, the last two digits of the water year, and the volume number. For example, this report is identified as "U.S. Geological Survey Water-Data Report ME-76-1." Water-Data reports are for sale by the National Technical Information Service, U.S. Department of Commerce, Springfield, VA 22161.

## COOPERATION

The U.S. Geological Survey and organizations of the State of Maine have had cooperative agreements for the systematic collection of streamflow records since 1909, and for water-quality and ground-water records since 1957. Organizations that 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, L. H. Stanley, Chairman.  
 Maine Department of Environmental Protection, W. R. Adams, Jr., Commissioner.  
 Androscoggin Valley Regional Planning Commission, C. H. Varney, Executive Director, succeeded by J. J. Jaworski.  
 Greater Portland Council of Governments, O. C. Bonsey, Executive Director.  
 Southern Kennebec Valley Regional Planning Commission, C. R. Bragdon, Planner Administrator, succeeded by J. B. Forster.  
 Southern Maine Regional Planning Commission, D. B. Ofner, Chairman.

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 contributed funds and services through the requirements of the Federal Power Commission:

Kennebec Water Power Company  
 Union Water Power Company

The following organizations aided in collecting records:

Bangor Hydro-Electric Company  
 Georgia-Pacific Corporation  
 Great Northern Paper Company  
 Maine Public Service Company

Organizations that supplied data are acknowledged in station descriptions.

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."

## ACKNOWLEDGMENT

Maine subdistrict personnel who contributed significantly to the collection and preparation of the data in this report were: C. R. Haskell, Basic Records Group, assisted by W. B. Higgins, R. G. Lippert, G. W. Parker, and G. R. Keezer.

## HYDROLOGIC CONDITIONS

Runoff for the water year 1976 ranged from 40 to 50 percent above normal in all but the southern portion of the State where it was about 20 percent above normal. Mean monthly runoff at all the index gaging stations was in the excessive range for the months of February, March, July, August, and September. At no time during the water year did the mean monthly runoff fall into the deficient range at the index gaging stations. Record high August daily and monthly mean discharges were recorded at the St. John River at Fort Kent index gaging station as a result of tropical storm Belle.

Average water content of the snowpack on March 1 ranged from 3 to 9 inches (76 to 229 millimeters) in the various river basins of the State, and ranged from 61 percent to 134 percent of normal for the date.

Ground-water levels were generally average in the north and above average elsewhere until February when recharge resulting from heavy precipitation and warm temperatures produced above-normal water levels statewide. Levels continued to rise during March but declined in the western section during April. Levels were above average in May but average or below in June. Heavy showers resulted in above-average ground-water levels in the central and eastern sections in July. Above-average precipitation during August resulted in above-average water levels during August and September in all but the southwestern coastal section where they were in the average range.

Water in usable storage, which was about average at the start of the water year, increased in November then decreased until the end of January, when it was again about normal for the date. From the end of January to the end of March, storage actually increased and was 154 percent of average on March 31. After the spring runoff, the quantity in storage on May 31 was 112 percent of normal, and it remained much higher than normal for the remainder of the water year. On September 30, water in usable storage was 148 percent of normal.

Figure 2, for which records at three long-term representative gaging stations were used, shows a comparison of the monthly and yearly mean discharges for the 1976 water year with median discharges for the 1941-70 period.

## DEFINITION OF TERMS

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

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

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

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

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

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

Fecal streptococcal bacteria are bacteria found also in intestines of warm-blooded animals. Their presence in water is considered to verify fecal pollution. They are characterized as gram-positive, cocci bacteria which are capable of growth in brain-heart infusion broth. In the laboratory they are defined as all the organisms which produce red or pink colonies within 48 hours at 35°C ± 1.0°C on M-enterococcus medium (nutrient medium for bacterial growth). Their concentrations are expressed as number of colonies per 100 mL of sample.

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

Biomass is the amount of living matter present at any given time, expressed as the mass per unit area or volume of habitat.

Ash mass is the mass or amount of residue present after the residue from the dry mass determination has been ashed in a muffle furnace at a temperature of 500°C for 1 hour. The ash mass values of zooplankton and phytoplankton are expressed in grams per cubic meter ( $\text{g/m}^3$ ), and periphyton and benthic organisms in grams per square meter ( $\text{g/m}^2$ ).

Dry mass refers to the mass of residue present after drying in an oven at 60°C for zooplankton and 105°C for periphyton, until the mass remains unchanged. This mass represents the total organic matter, ash and sediment, in the sample. Dry mass values are expressed in the same units as ash mass.

Organic mass or volatile mass of the living substance is the difference between the dry mass and ash mass, and represents the actual mass of the living matter. The organic mass is expressed in the same units as for ash mass and dry mass.

Wet mass is the mass of living matter plus contained water.

Bottom material: See Bed material.

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

Cfs-day is the volume of water represented by flow of 1 cubic foot per second for 24 hours. It is equivalent to 86,400 cubic feet, approximately 1.9835 acre-feet, about 646,000 gallons or 2,447 cubic meters.

Chemical oxygen demand (COD) is a measure of the chemically oxidizable material in the water, and furnishes an approximation of the amount of organic and reducing material present. The determined value may correlate with natural water color or with carbonaceous organic pollution from sewage or industrial wastes.

Chlorophyll refers to the green pigments of plants. Chlorophyll a and b are the two most common pigments in plants.

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

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

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

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

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

Cubic foot per second ( $\text{FT}^3/\text{S}$ ,  $\text{ft}^3/\text{s}$ ) is the rate of discharge representing a volume of 1 cubic foot passing a given point during 1 second and is equivalent to approximately 7.48 gallons per second or 448.8 gallons per minute or 0.02832 cubic meters per second.

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

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

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

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

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

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

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

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

Hardness of water is a physical-chemical characteristic that is commonly recognized by the increased quantity of soap required to produce lather. It is attributable to the presence of alkaline earths (principally calcium and magnesium) and is expressed as equivalent calcium carbonate ( $\text{CaCO}_3$ ).

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

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

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

Micrograms per gram (ug/g) is a unit expressing the concentration of a chemical element as the mass (micrograms) of the element sorbed per unit mass (gram) of sediment.

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

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

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

Organism count/volume refers to the number of organisms collected and enumerated in a sample and adjusted to the number per sample volume, usually milliliters (mL) or liters (L). Numbers of planktonic organisms can be expressed in these terms.

Total organism count is the total number of organisms collected and enumerated in any particular sample.

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

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

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

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

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

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

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



Phytoplankton is the plant part of the plankton. They are usually microscopic and their movement is subject to the water currents. Phytoplankton growth is dependent on solar radiation and nutrient substances. Because they are able to incorporate as well as release materials to the surrounding water, the phytoplankton have a profound effect upon the quality of the water. They are the primary food producers in the aquatic environment, and are commonly known as algae.

Blue-green algae are a group of phytoplankton organisms having a blue pigment, in addition to the green pigment called chlorophyll. Blue-green algae often cause nuisance conditions in water.

Diatoms are the unicellular or colonial algae having a siliceous shell. Their concentrations are expressed as number of cells/mL of sample.

Green algae have chlorophyll pigments similar in color to those of higher green plants. Some forms produce algal mats or floating "moss" in lakes. Their concentrations are expressed as number of cells/mL of sample.

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, soil characteristics, land usage, and quantity and intensity of precipitation.

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

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

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

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

Total sediment discharge (tons/day) is the sum of the suspended-sediment discharge and the bed-load discharge. It is the total quantity of sediment, as measured by dry weight or volume, that passes a section in a given time.

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

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

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

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

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

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

Substrate is the physical surface on which an organism lived.

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

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

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

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

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

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

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

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

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

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.

WRD is used as an abbreviation for "Water-Resources Data" in the REVISED RECORDS paragraph to refer to State annual basic-data reports published before 1975.

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

#### DOWNSTREAM ORDER AND STATION NUMBER

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

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

#### NUMBERING SYSTEM FOR WELLS AND MISCELLANEOUS SITES

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

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

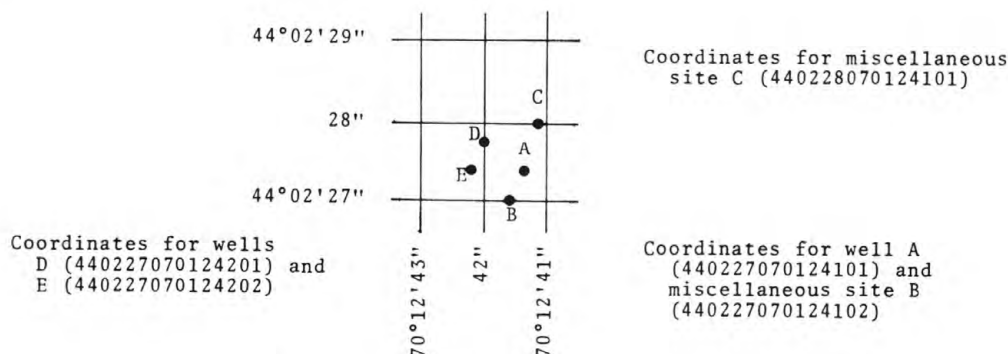


Figure 1. System for numbering wells and miscellaneous sites (latitude and longitude)

#### SPECIAL NETWORKS AND PROGRAMS

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

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

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

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

#### EXPLANATION OF STAGE AND WATER-DISCHARGE RECORDS

##### Collection and computation of data

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

For stream-gaging stations, rating tables giving the discharge for any stage are prepared from stage-discharge relation curves. If extensions to the rating curves are necessary to express discharge greater than measured, they are made on the basis of indirect measurements of peak discharge (such as slope-area or contracted-opening measurements, computation of flow over dams or weirs), step-backwater techniques, velocity-area



studies, and logarithmic plotting. The daily mean discharge is computed from gage heights and rating tables, then the monthly and yearly mean discharge are computed from the daily figures. If the stage-discharge relation is subject to change because of frequent or continual change in the physical features that form the control, the daily mean discharge is computed by the shifting-control method, in which correction factors based on individual discharge measurements and notes by engineers and observers are used in applying the gage heights to the rating tables. If the stage-discharge relation for a station is temporarily changed by the presence of aquatic growth or debris on the control, the daily mean discharge is computed by what is basically the shifting-control method.

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

At some northern 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 gage-height record and occasional winter discharge measurements. Consideration is given to the available information on temperature and precipitation, notes by gage observers and hydrologists, and comparable records of discharge for other stations in the same or nearby basins.

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

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

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

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

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

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

The type of gage currently in use, the datum of the present gage 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.

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

The average discharge for the number of years indicated is given under "AVERAGE DISCHARGE"; it is not given for stations having fewer than 5 complete years of record nor for stations where changes in water development during the period of record cause the figure to have little significance. In addition, the median of yearly mean discharges is given for stream-gaging stations having 10 or more complete years of record if the median differs from the average by more than 10 percent. Under "EXTREMES" are given first, the extremes for the period of record, second, information available outside the period of record, and last, those for the current year. Unless otherwise qualified, the maximum discharge (or contents) is the instantaneous maximum corresponding to the crest stage obtained by use of a water-stage recorder (graphic or digital), a crest-stage gage, or a nonrecording gage read at the time of the crest. If the maximum gage height did not occur on the same day as the maximum discharge (or contents), it is given separately. Similarly, the minimum is the instantaneous minimum unless otherwise qualified. For some stations peak discharges are listed with EXTREMES FOR THE CURRENT YEAR; if they are, all independent peaks, including the maximum for the year, above the selected base with the time of occurrence and corresponding gage heights are published in tabular format. The base discharge, which is given in the table heading, is selected so that an average of about three peaks a year will be presented. Peak discharges are not published for any canals, ditches, drains, or for any stream for which the peaks are subject to substantial control by man. Time of day is expressed in 24-hour local standard time; for example, 12:30 a.m. is 0030, 1:30 p.m. is 1330. The minimums for these stations are published in a separate paragraph following the table of peaks.

The daily table for stream-gaging stations gives the mean discharge for each day and is followed by monthly and yearly summaries. In the monthly summary below the daily table, the line headed "TOTAL" gives the sum of the daily figures. The line headed "MEAN" gives the average flow in cubic feet per second during the month. The lines headed "MAX" and "MIN" give the maximum and minimum daily discharges, respectively, for the month. Discharge for the month also may be expressed in cubic feet per second per square mile (line headed "CFSM"), or in inches (line headed "IN"), or in acre-feet (line headed "AC-FT"). Figures for cubic feet per second per square mile and runoff in inches are omitted if there is extensive regulation or diversion, if the drainage area includes large noncontributing areas, or if the average annual rainfall over the drainage basin is usually less than 20 inches. In the yearly summary below the monthly summary, the figures shown are the appropriate daily discharges for the calendar and water years.

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

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

Data collected at partial-record stations follow the information for continuous record sites. Data for partial-record discharge stations are presented in two tables. The first is a table of discharge measurements at low-flow partial-record stations, and the second is a table of annual maximum stage and discharge at crest-stage stations. The tables of partial-record stations are followed by a listing of discharge measurements made at sites other than continuous-record or partial-record stations. Occasionally, a series of discharge measurements are made within a short time period to investigate the seepage gains or losses along a reach of a stream or to determine the low-flow characteristics of an area. Such measurements are also given to special tables following the tables of partial-record stations.

#### Accuracy of field data and computed results

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



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

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

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

#### Other data available

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

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

### EXPLANATION OF WATER-QUALITY RECORDS

#### Collection and examination of data

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

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

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

#### Water analysis

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

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

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 a reported pH value and the relative abundance of carbon dioxide species (carbonate and bicarbonate), the inconsistency is the result of a slight uptake of carbon dioxide from the air by the sample between measurement of pH in the field and determination of carbonate and bicarbonate in the laboratory.

For chemical-quality stations equipped with digital monitors, the records consist of daily maximum, minimum, and mean values for each constituent measured and are based 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 district office.

### Water temperature

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

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

### Sediment

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

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

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

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

## EXPLANATION OF GROUND-WATER LEVEL RECORDS

### Collection of the data

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

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

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

Water-level measurements in this report are given in feet with reference to land-surface datum (lsd). Land-surface datum is a datum plane that is approximately at land surface at each well. If known, the altitude of the land-surface datum above mean 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 the end of each month (eom).

Water levels are reported to as many significant figures as can be justified by the local conditions. For example, in a measurement of a depth to water of several hundred feet, the error in determining the absolute value of the total depth to water may be a few tenths of a foot, whereas the error in determining the net change of water level between successive measurements may be only a hundredth or a few hundredths of a foot. For lesser depths to water the accuracy is greater. Accordingly, most measurements are reported to a hundredth of a foot, but some are given only to a tenth of a foot or a larger unit.

## PUBLICATIONS ON TECHNIQUES OF WATER-RESOURCES INVESTIGATIONS

Thirty-two manuals by the U.S. Geological Survey have been published to date in the series on techniques describing procedures for planning and executing specialized work in water-resources investigations. The material is grouped under major subject headings called books and is further divided into sections and chapters. For example, Section A of Book 3 (Applications of Hydraulics) is on surface water. The chapter, the unit of publication, is limited to a narrow field of subject matter. This format permits flexibility in revision and publication as the need arises. The reports listed below are for sale by the U.S. Geological Survey, Branch of Distribution, 1200 South Eads Street, Arlington, VA 22202 (authorized agent of the Superintendent of Documents, Government Printing Office).

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

- 1-D1. *Water temperature-influential factors, field measurement, and data presentation*, by H. H. Stevens Jr., J. F. Ficke, and G. F. Smoot: USGS--TWRI Book 1, Chapter D1. 1975. 65 p. \$1.60.
- 2-D1. *Application of surface geophysics to ground-water investigations*, by A. A. R. Zohdy, G. P. Eaton, and D. R. Mabey: USGS--TWRI Book 2, Chapter D1. 1974. 116 pages. \$1.90.
- 2-E1. *Application of borehole geophysics to water-resources investigations*, by W. S. Keys and L. M. MacCary: USGS--TWRI Book 2, Chapter E1. 1971. 126 pages. \$1.75.
- 3-A1. *General field and office procedures for indirect discharge measurements*, by M. A. Benson and Tate Dalrymple: USGS--TWRI Book 3, Chapter A1. 1967. 30 pages. \$0.25.
- 3-A2. *Measurement of peak discharge by the slope-area method*, by Tate Dalrymple and M. A. Benson: USGS--TWRI Book 3, Chapter A2. 1967. 12 pages. \$0.20.
- 3-A3. *Measurement of peak discharge at culverts by indirect methods*, by G. L. Bodhaine: USGS--TWRI Book 3, Chapter A3. 1968. 60 pages. \$0.40.
- 3-A4. *Measurement of peak discharge at width contractions by indirect methods*, by H. F. Matthai: USGS--TWRI Book 3, Chapter A4. 1967. 44 pages. \$1.00.
- 3-A5. *Measurement of peak discharge at dams by indirect methods*, by Harry Hulsing: USGS--TWRI Book 3, Chapter A5. 1967. 29 pages. \$0.30.
- 3-A6. *General procedure for gaging streams*, by R. W. Carter and Jacob Davidian: USGS--TWRI Book 3, Chapter A6, 1968, 13 pages. \$0.20.
- 3-A7. *Stage measurements at gaging stations*, by T. J. Buchanan and W. P. Somers: USGS--TWRI Book 3, Chapter A7. 1968. 28 pages. \$0.45.
- 3-A8. *Discharge measurements at gaging stations*, by T. J. Buchanan and W. P. Somers: USGS--TWRI Book 3, Chapter A8. 1969. 65 pages. \$1.25.
- 3-A11. *Measurement of discharge by moving-boat method*, by G. F. Smoot and C. E. Novak: USGS--TWRI Book 3, Chapter A11. 1969. 22 pages. \$0.40.
- 3-A12. *Fluorometric procedures for dye tracing*, by J. F. Wilson Jr.: USGS--TWRI Book 3, Chapter A12. 1968. 31 pages. \$0.35. Not currently available.
- 3-B1. *Aquifer-test design, observation, and data analysis*, by R. W. Stallman: USGS--TWRI Book 3, Chapter B1. 1971. 26 pages \$0.70.
- 3-B2. *Introduction to ground-water hydraulics-a programed text for self-instruction*, by G. D. Bennett: USGS--TWRI Book 3, Chapter B2 1976. 172 pages.
- 3-C1. *Fluvial sediment concepts*, by H. P. Guy: USGS--TWRI Book 3, Chapter C1. 1970. 55 pages. \$0.65.
- 3-C2. *Field methods for measurement of fluvial sediment*, by H. P. Guy and V. W. Norman: USGS--TWRI Book 3, Chapter C2, 1970. 59 pages \$0.70.
- 3-C3. *Computation of fluvial-sediment discharge*, by George Porterfield: USGS--TWRI Book 3, Chapter C3. 1972. 66 pages. \$1.15.
- 4-A1. *Some statistical tools in hydrology*, by H. C. Riggs: USGS--TWRI Book 4 Chapter A1. 1968. 39 pages. \$0.30.
- 4-A2. *Frequency curves*, by H. C. Riggs: USGS--TWRI Book 4, Chapter A2. 1968. 15 pages. \$0.20.
- 4-B1. *Low-flow investigations*, by H. C. Riggs: USGS--TWRI Book 4, Chapter B1. 1972, 18 pages. \$0.65.
- 4-B2. *Storage analyses for water supply*, by H. C. Riggs and C. H. Hardison: USGS--TWRI Book 4, Chapter B2. 1973. 20 pages. \$0.75.
- 4-B3. *Regional analyses of streamflow characteristics*, by H. C. Riggs: USGS--TWRI Book 4, Chapter B3. 1973. 15 pages. \$0.75.
- 4-D1. *Computation of rate and volume of stream depletion by wells*, by C. T. Jenkins: USGS--TWRI Book 4, Chapter D1. 1970. 17 pages. \$0.65.
- 5-A1. *Methods for collection and analysis of water samples for dissolved minerals and gases*, by Eugene Brown, M. W. Skougstad, and M. J. Fishman: USGS--TWRI Book 5, Chapter A1. 1970. 160 pages \$2.40.
- 5-A2. *Determination of minor elements in water by emission spectroscopy*, by P. R. Barnett and E. C. Mallory, Jr.: USGS--TWRI Book 5, Chapter A2. 1971. 31 pages. \$0.80.
- 5-A3. *Methods for analysis of organic substances in water*, by D. F. Goerlitz and Eugene Brown: USGS--TWRI Book 5, Chapter A3. 1972. 40 pages. \$0.90.
- 5-A4. *Methods for collection and analysis of aquatic biological and microbiological samples*, by K. V. Slack, R. C. Averett, P. E. Greenson, and R. G. Lipscomb: USGS--TWRI Book 5, Chapter A4. 1973. 165 pages. \$1.95.
- 5-C1. *Laboratory theory and methods for sediment analysis*, by H. P. Guy: USGS--TWRI Book 5, Chapter C1. 1969. 58 pages. \$0.65.
- 7-C1. *Finite-difference model for aquifer simulation in two dimensions with results of numerical experiments*, by P. C. Trescott, G. F. Pinder, and S. P. Larson: USGS--TWRI Book 7, Chapter C1. 1976. 116 pages.
- 8-A1. *Methods of measuring water levels in deep wells*, by M. S. Garber and F. C. Koopman: USGS--TWRI Book 8, Chapter A1. 1968. 23 pages. \$0.70.
- 8-B2. *Calibration and maintenance of vertical-axis type current meters*, by G. F. Smoot and C. E. Novak: USGS--TWRI Book 8, Chapter B2. 1968. 15 pages. \$0.40.

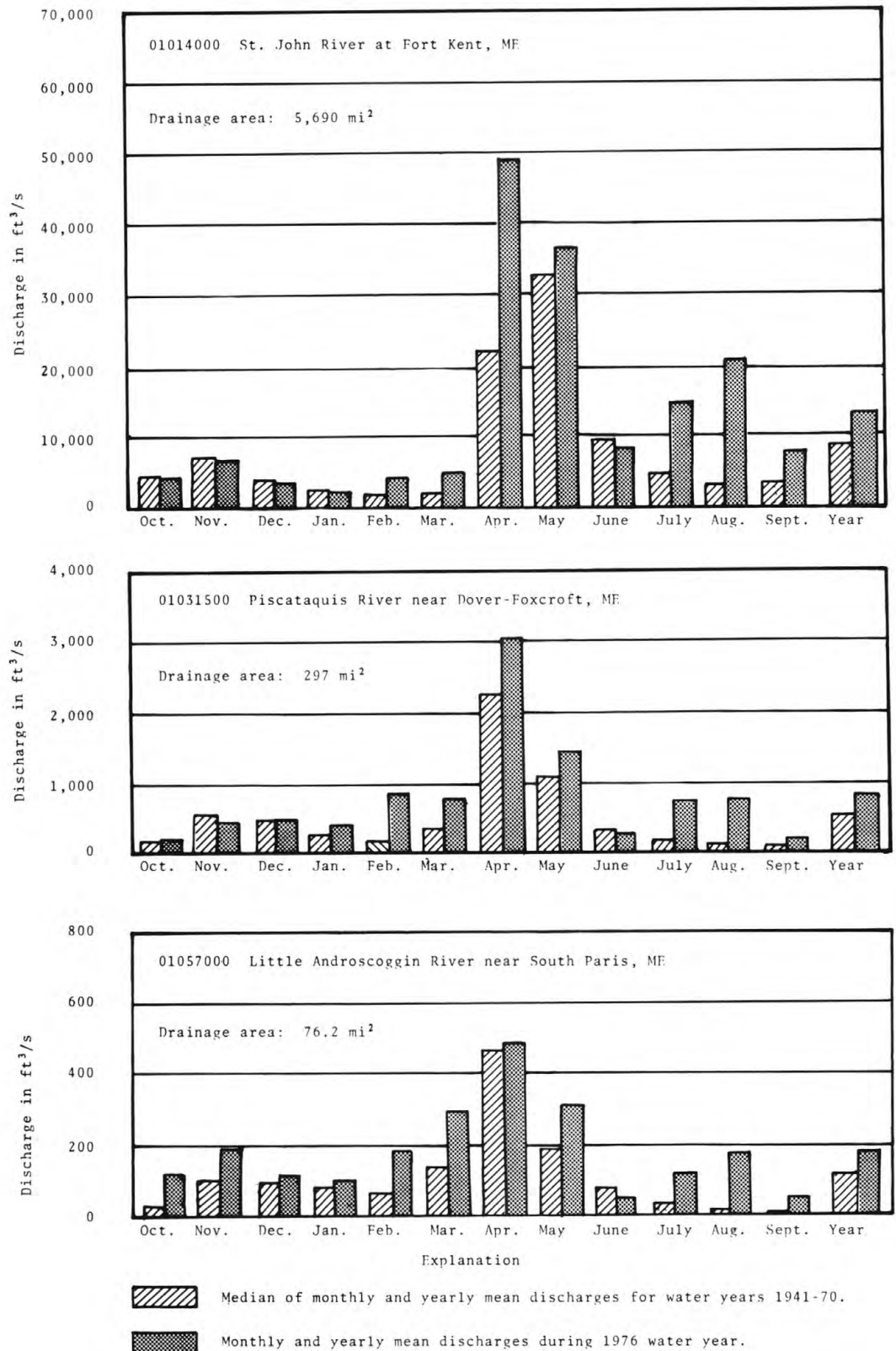
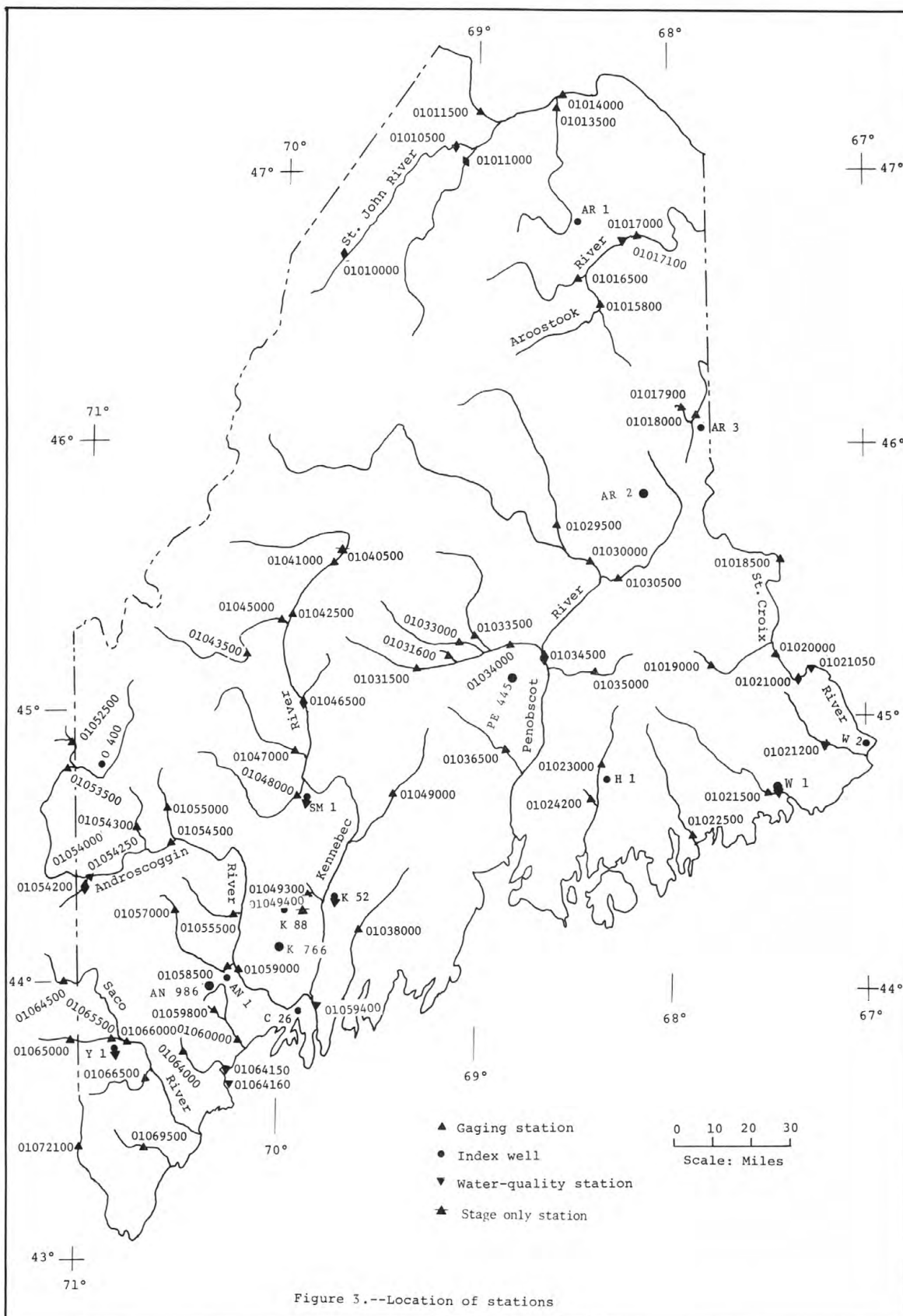


Figure 2.--Comparison of runoff at three long-term index gaging stations during 1976 water year with median runoff for period 1941-70.





## HYDROLOGIC-DATA STATION RECORDS

15

## NORTH ATLANTIC SLOPE BASINS

## ST. JOHN RIVER BASIN

01010000 ST. JOHN RIVER AT NINEMILE BRIDGE, ME

LOCATION.--Lat 46°42'00", long 69°42'50", Aroostook County, Hydrologic Unit 01010001, on right bank in T. 12, R. 15, 0.1 mi (0.2 km) downstream from Ninemile Brook, 0.4 mi (0.6 km) downstream from site of Ninemile Bridge, and 11 mi (18 km) northwest of Clayton Lake Post Office.

DRAINAGE AREA.--1,290 mi<sup>2</sup> (3,340 km<sup>2</sup>), 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 good except those for winter period and period of no gage-height record, which are fair.

AVERAGE DISCHARGE.--26 years, 2,274 ft<sup>3</sup>/s (64.40 m<sup>3</sup>/s), 23.94 in/yr (608 mm/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 44,400 ft<sup>3</sup>/s (1,260 m<sup>3</sup>/s) May 1, 1974, gage height, 12.63 ft (3.850 m), from rating curve extended above 16,000 ft<sup>3</sup>/s (453 m<sup>3</sup>/s); minimum, 59 ft<sup>3</sup>/s (1.67 m<sup>3</sup>/s) Sept. 5, 1953; minimum gage height, 0.25 ft (0.076 m) Sept. 5, 1953, Sept. 11-12, 1960.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 32,000 ft<sup>3</sup>/s (906 m<sup>3</sup>/s) Apr. 21 (determined by hydrographic correlation with station 01010500); maximum gage height, 20.01 ft (6.009 m) April 2 (backwater from ice); minimum daily discharge, 290 ft<sup>3</sup>/s (8.21 m<sup>3</sup>/s) Jan. 27.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976  
MEAN VALUES

| DAY   | OCT   | NOV   | DEC   | JAN  | FEB   | MAR   | APR    | MAY    | JUN   | JUL    | AUG    | SEP   |
|-------|-------|-------|-------|------|-------|-------|--------|--------|-------|--------|--------|-------|
| 1     | 1000  | 1200  | 920   | 365  | 380   | 475   | 7800   | 10000  | 1810  | 2740   | 1830   | 1870  |
| 2     | 825   | 1250  | 1050  | 360  | 490   | 475   | 10500  | 10900  | 1940  | 4440   | 2330   | 2230  |
| 3     | 709   | 1710  | 1150  | 350  | 660   | 465   | 18000  | 15000  | 1820  | 6060   | 2430   | 2760  |
| 4     | 638   | 1600  | 1000  | 345  | 860   | 450   | 25000  | 15500  | 1540  | 8190   | 1950   | 2380  |
| 5     | 581   | 1390  | 900   | 340  | 1100  | 445   | 21000  | 12000  | 1290  | 6150   | 1480   | 2000  |
| 6     | 520   | 1210  | 830   | 335  | 1240  | 440   | 18000  | 10000  | 1080  | 4160   | 1350   | 1870  |
| 7     | 480   | 1050  | 790   | 330  | 1180  | 435   | 15000  | 8800   | 894   | 2840   | 1770   | 1680  |
| 8     | 498   | 966   | 760   | 325  | 1100  | 430   | 12300  | 7900   | 765   | 2420   | 1660   | 1410  |
| 9     | 477   | 1120  | 800   | 320  | 1030  | 425   | 10300  | 7400   | 694   | 3390   | 1400   | 1170  |
| 10    | 465   | 1430  | 860   | 320  | 940   | 420   | 8600   | 7700   | 789   | 3380   | 7870   | 965   |
| 11    | 431   | 2820  | 840   | 315  | 880   | 420   | 7400   | 8000   | 701   | 2520   | 22500  | 846   |
| 12    | 467   | 4730  | 800   | 315  | 820   | 415   | 6000   | 9000   | 671   | 2610   | 18500  | 996   |
| 13    | 1040  | 4120  | 760   | 310  | 780   | 415   | 5250   | 11000  | 784   | 7600   | 13600  | 1260  |
| 14    | 1910  | 5150  | 720   | 305  | 740   | 410   | 4700   | 13000  | 756   | 12200  | 9800   | 1190  |
| 15    | 1730  | 7500  | 680   | 305  | 700   | 410   | 4300   | 11000  | 671   | 10800  | 9910   | 999   |
| 16    | 1380  | 6580  | 650   | 305  | 670   | 405   | 4100   | 8400   | 700   | 7530   | 9210   | 830   |
| 17    | 1180  | 4840  | 615   | 305  | 640   | 405   | 4700   | 7000   | 628   | 5100   | 6390   | 714   |
| 18    | 1210  | 3680  | 590   | 300  | 620   | 420   | 7200   | 6200   | 628   | 4750   | 4420   | 656   |
| 19    | 1550  | 3010  | 560   | 300  | 600   | 500   | 14000  | 7000   | 713   | 3750   | 3020   | 1210  |
| 20    | 2140  | 2400  | 540   | 300  | 580   | 700   | 21500  | 9360   | 1140  | 4410   | 2260   | 2580  |
| 21    | 4530  | 2150  | 520   | 300  | 560   | 1000  | 30000  | 9590   | 1170  | 6490   | 1800   | 2910  |
| 22    | 5850  | 1800  | 500   | 298  | 550   | 1300  | 27500  | 8070   | 1310  | 5220   | 1490   | 3070  |
| 23    | 5220  | 1600  | 485   | 298  | 525   | 1600  | 23500  | 7360   | 1220  | 3380   | 1250   | 2540  |
| 24    | 3950  | 1400  | 465   | 295  | 520   | 1900  | 21000  | 7130   | 1090  | 2530   | 1070   | 2120  |
| 25    | 2940  | 1250  | 450   | 295  | 515   | 2100  | 18000  | 5940   | 1420  | 4120   | 1000   | 1900  |
| 26    | 2530  | 1150  | 435   | 295  | 500   | 2350  | 14500  | 4680   | 2010  | 4180   | 930    | 1610  |
| 27    | 2570  | 1050  | 440   | 290  | 490   | 2700  | 11600  | 3750   | 2580  | 3750   | 865    | 1790  |
| 28    | 2170  | 980   | 410   | 295  | 480   | 3250  | 10500  | 3130   | 2560  | 3790   | 868    | 4180  |
| 29    | 1840  | 1100  | 400   | 295  | 475   | 3900  | 10200  | 2640   | 2140  | 3160   | 965    | 4040  |
| 30    | 1590  | 1000  | 385   | 310  | ---   | 4500  | 10000  | 2240   | 2610  | 2610   | 1760   | 3170  |
| 31    | 1380  | ---   | 345   | 330  | ---   | 5800  | ---    | 1940   | ---   | 2090   | 2150   | ---   |
| TOTAL | 53801 | 71236 | 20650 | 9751 | 20625 | 39360 | 402450 | 251630 | 38124 | 146360 | 137828 | 56946 |
| MEAN  | 1736  | 2375  | 666   | 315  | 711   | 1270  | 13420  | 8117   | 1271  | 4721   | 4446   | 1898  |
| MAX   | 5850  | 7500  | 1150  | 365  | 1240  | 5800  | 30000  | 15500  | 2610  | 12200  | 22500  | 4180  |
| MIN   | 431   | 966   | 345   | 290  | 380   | 405   | 4100   | 1940   | 628   | 2090   | 865    | 656   |
| CFSM  | 1.35  | 1.84  | .52   | .24  | .55   | .98   | 10.4   | 6.29   | .99   | 3.66   | 3.45   | 1.47  |
| IN.   | 1.55  | 2.05  | .60   | .28  | .59   | 1.14  | 11.61  | 7.26   | 1.10  | 4.22   | 3.97   | 1.64  |

CAL YR 1975 TOTAL 717733 MEAN 1966 MAX 18300 MIN 102 CFSM 1.52 IN 20.70  
WTR YR 1976 TOTAL 1248761 MEAN 3412 MAX 30000 MIN 290 CFSM 2.64 IN 36.01

NOTE.--No gage-height record Apr. 3 to May 19.

## ST. JOHN RIVER BASIN

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

## WATER-QUALITY RECORDS

PERIOD OF RECORD.--Current year.

PERIOD OF DAILY RECORD.--

SPECIFIC CONDUCTANCE: Current year.

WATER TEMPERATURES: Current year.

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

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

EXTREMES FOR CURRENT YEAR.--

SPECIFIC CONDUCTANCE: Maximum, 94 micromhos May 21; minimum, 30 micromhos July 12.

WATER TEMPERATURES: Maximum, 24.5°C June 17; minimum, 0.0°C on many days during winter periods.

## CHEMICAL ANALYSES, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

| DATE      | TIME | INSTANTANEOUS DIS-CHARGE (CFS) | SPECIFIC CONDUCTANCE (MICRO-MHOS) | PH (UNITS) | TEMPERATURE (DEG C) | DIS-SOLVED OXYGEN (MG/L) | PERCENT SATURATION | HARDNESS (CA, MG) | NON-CARBONATE HARDNESS (MG/L) | DIS-SOLVED CALCIUM (CA) (MG/L) |
|-----------|------|--------------------------------|-----------------------------------|------------|---------------------|--------------------------|--------------------|-------------------|-------------------------------|--------------------------------|
| OCT 01... | 1900 | 1000                           | 56                                | 6.8        | 13.5                | 10.2                     | 97                 | 33                | 12                            | 11                             |
| MAY 07... | 1030 | 8800                           | 32                                | 6.6        | 4.0                 | 11.0                     | 83                 | 21                | 13                            | 7.1                            |

| DATE      | DIS-SOLVED MAGNESIUM (MG) | DIS-SOLVED SODIUM (NA) (MG/L) | PERCENT SODIUM | SODIUM ADSORPTION RATIO | DIS-SOLVED POTASSIUM (K) (MG/L) | BICARBONATE (HCO3) (MG/L) | CARBONATE (CO3) (MG/L) | ALKALINITY AS CaCO3 (MG/L) | CARBON DIOXIDE (CO2) (MG/L) | DIS-SOLVED SULFATE (SO4) (MG/L) |
|-----------|---------------------------|-------------------------------|----------------|-------------------------|---------------------------------|---------------------------|------------------------|----------------------------|-----------------------------|---------------------------------|
| OCT 01... | 1.4                       | 1.1                           | 7              | .1                      | .2                              | 26                        | 0                      | 21                         | 6.6                         | 9.0                             |
| MAY 07... | .9                        | .4                            | 4              | .0                      | .1                              | 10                        | 0                      | 8                          | 4.0                         | 6.7                             |

| DATE      | DIS-SOLVED CHLORIDE (CL) (MG/L) | DIS-SOLVED FLUORIDE (F) (MG/L) | DIS-SOLVED SILICA (SiO2) (MG/L) | DIS-SOLVED SOLIDS (SUM OF CONSTITUENTS) (MG/L) | DIS-SOLVED SOLIDS (TONS PER DAY) | DIS-SOLVED NITRATE (N) (MG/L) | DIS-SOLVED NITRATE (NO3) (MG/L) | DIS-SOLVED NITRITE (N) (MG/L) | DIS-SOLVED NITRITE (NO2) (MG/L) | DIS-SOLVED NITRATE PLUS NITRITE (N) (MG/L) |
|-----------|---------------------------------|--------------------------------|---------------------------------|------------------------------------------------|----------------------------------|-------------------------------|---------------------------------|-------------------------------|---------------------------------|--------------------------------------------|
| OCT 01... | 1.8                             | .3                             | 4.5                             | 45                                             | 121                              | .62                           | 2.7                             | .01                           | .03                             | .63                                        |
| MAY 07... | .8                              | .9                             | 2.6                             | 25                                             | 594                              | .09                           | .40                             | .05                           | .16                             | .14                                        |

| DATE      | TOTAL AMMONIA NITROGEN (N) (MG/L) | TOTAL ORGANIC NITROGEN (N) (MG/L) | TOTAL KJELDAHL NITROGEN (N) (MG/L) | TOTAL PHOSPHORUS (P) (MG/L) | TOTAL ORTHO PHOSPHORUS (P) (MG/L) | TOTAL IRON (FE) (UG/L) | TOTAL MANGANESE (MN) (UG/L) | TOTAL MERCURY (HG) (UG/L) | DIS-SOLVED MERCURY (HG) (UG/L) | TOTAL MERCURY IN BOTTOM MATERIAL (UG/G) |
|-----------|-----------------------------------|-----------------------------------|------------------------------------|-----------------------------|-----------------------------------|------------------------|-----------------------------|---------------------------|--------------------------------|-----------------------------------------|
| OCT 01... | .00                               | .44                               | .44                                | .01                         | .00                               | 260                    | 20                          | .9                        | <.5                            | .0                                      |
| MAY 07... | .02                               | .31                               | .33                                | .02                         | .01                               | 210                    | 20                          | <.5                       | <.5                            | .7                                      |

SPECIFIC CONDUCTANCE (MICROMHOS/CM AT 25 DEG. C), WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

[illegible]



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

## SPECIFIC CONDUCTANCE (MICROMHOS/CM AT 25 DEG. C), WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

| DAY    | JUNE |     |      | JULY |     |      | AUGUST |     |      | SEPTEMBER |     |      |
|--------|------|-----|------|------|-----|------|--------|-----|------|-----------|-----|------|
|        | MAX  | MIN | MEAN | MAX  | MIN | MEAN | MAX    | MIN | MEAN | MAX       | MIN | MEAN |
| 1      | 66   | 59  | 63   | 37   | 35  | 36   | ---    | --- | ---  | 47        | 46  | 46   |
| 2      | 68   | 59  | 64   | 37   | 34  | 35   | ---    | --- | ---  | 46        | 45  | 45   |
| 3      | 72   | 67  | 69   | 34   | 31  | 32   | ---    | --- | ---  | 46        | 45  | 45   |
| 4      | 75   | 68  | 71   | 35   | 32  | 33   | 42     | 41  | 41   | 45        | 44  | 45   |
| 5      | 74   | 68  | 71   | 37   | 34  | 35   | 43     | 41  | 42   | 46        | 45  | 45   |
| 6      | 75   | 62  | 70   | ---  | --- | ---  | 43     | 41  | 42   | 46        | 45  | 46   |
| 7      | 72   | 65  | 69   | ---  | --- | ---  | 45     | 43  | 44   | 47        | 46  | 46   |
| 8      | 73   | 67  | 70   | ---  | --- | ---  | 46     | 32  | 38   | 47        | 45  | 47   |
| 9      | 75   | 67  | 71   | ---  | --- | ---  | ---    | --- | ---  | 49        | 48  | 48   |
| 10     | 79   | 71  | 75   | ---  | --- | ---  | ---    | --- | ---  | 50        | 49  | 49   |
| 11     | 79   | 72  | 76   | 36   | 33  | 35   | ---    | --- | ---  | 50        | 49  | 50   |
| 12     | 78   | 71  | 74   | 37   | 30  | 33   | ---    | --- | ---  | 49        | 48  | 49   |
| 13     | 74   | 66  | 70   | 38   | 31  | 34   | 38     | 36  | 37   | 49        | 47  | 48   |
| 14     | 68   | 61  | 64   | 37   | 35  | 36   | 38     | 38  | 38   | 50        | 49  | 49   |
| 15     | 67   | 60  | 64   | 36   | 33  | 35   | 39     | 38  | 38   | 50        | 50  | 50   |
| 16     | 72   | 64  | 66   | 38   | 35  | 35   | 39     | 38  | 39   | 52        | 50  | 51   |
| 17     | 70   | 61  | 64   | 38   | 35  | 36   | 40     | 39  | 39   | 53        | 50  | 52   |
| 18     | 67   | 55  | 61   | 39   | 34  | 36   | 41     | 36  | 40   | 51        | 44  | 49   |
| 19     | 67   | 55  | 58   | 35   | 34  | 35   | 42     | 38  | 40   | 51        | 49  | 50   |
| 20     | 74   | 63  | 68   | 36   | 34  | 35   | 42     | 39  | 41   | 51        | 49  | 49   |
| 21     | ---  | --- | ---  | 38   | 35  | 37   | 43     | 40  | 42   | 49        | 48  | 49   |
| 22     | ---  | --- | ---  | 39   | 35  | 38   | 44     | 42  | 43   | 48        | 47  | 47   |
| 23     | ---  | --- | ---  | 38   | 35  | 36   | 44     | 43  | 43   | ---       | --- | ---  |
| 24     | 46   | 42  | 44   | 38   | 37  | 38   | 46     | 45  | 45   | ---       | --- | ---  |
| 25     | 44   | 39  | 42   | 38   | 35  | 36   | 48     | 46  | 47   | ---       | --- | ---  |
| 26     | 41   | 39  | 40   | 37   | 35  | 36   | 49     | 48  | 49   | ---       | --- | ---  |
| 27     | 43   | 38  | 41   | 36   | 35  | 36   | 50     | 49  | 49   | ---       | --- | ---  |
| 28     | 42   | 40  | 41   | 37   | 36  | 37   | 51     | 47  | 49   | ---       | --- | ---  |
| 29     | 40   | 38  | 39   | 39   | 37  | 38   | 50     | 48  | 49   | ---       | --- | ---  |
| 30     | 39   | 36  | 38   | 40   | 39  | 39   | 49     | 47  | 48   | ---       | --- | ---  |
| 31     | ---  | --- | ---  | 40   | 39  | 40   | 49     | 47  | 48   | ---       | --- | ---  |
| MONTH  | 79   | 36  | 61   | 40   | 30  | 36   | ---    | --- | ---  | ---       | --- | ---  |
| PERIOD | 94   | 30  | 55   |      |     |      |        |     |      |           |     |      |

## TEMPERATURE (DEG. C) OF WATER, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

| DAY   | OCTOBER |      |      | NOVEMBER |     |      | DECEMBER |     |      | JANUARY |     |      |
|-------|---------|------|------|----------|-----|------|----------|-----|------|---------|-----|------|
|       | MAX     | MIN  | MEAN | MAX      | MIN | MEAN | MAX      | MIN | MEAN | MAX     | MIN | MEAN |
| 1     | 13.5    | 13.0 | 13.0 | 3.5      | 2.0 | 2.5  | 0.0      | 0.0 | 0.0  | 0.0     | 0.0 | 0.0  |
| 2     | 12.5    | 9.0  | 11.5 | 4.5      | 2.5 | 3.5  | 0.0      | 0.0 | 0.0  | 0.0     | 0.0 | 0.0  |
| 3     | 9.5     | 7.0  | 8.0  | 5.5      | 4.0 | 5.0  | 0.0      | 0.0 | 0.0  | 0.0     | 0.0 | 0.0  |
| 4     | 9.5     | 6.0  | 7.5  | 5.0      | 2.5 | 4.0  | 0.0      | 0.0 | 0.0  | 0.0     | 0.0 | 0.0  |
| 5     | 10.0    | 4.5  | 7.0  | 3.0      | 1.5 | 2.5  | 0.0      | 0.0 | 0.0  | 0.0     | 0.0 | 0.0  |
| 6     | 9.5     | 5.5  | 7.5  | 4.5      | 1.0 | 3.0  | 0.0      | 0.0 | 0.0  | 0.0     | 0.0 | 0.0  |
| 7     | 9.0     | 5.0  | 7.0  | 6.5      | 4.0 | 5.5  | 0.0      | 0.0 | 0.0  | 0.0     | 0.0 | 0.0  |
| 8     | 9.0     | 5.5  | 7.0  | 7.5      | 5.5 | 6.5  | 0.0      | 0.0 | 0.0  | 0.0     | 0.0 | 0.0  |
| 9     | 8.5     | 2.5  | 5.5  | ---      | --- | ---  | 0.0      | 0.0 | 0.0  | 0.0     | 0.0 | 0.0  |
| 10    | 8.5     | 2.5  | 5.5  | ---      | --- | ---  | 0.0      | 0.0 | 0.0  | 0.0     | 0.0 | 0.0  |
| 11    | 8.5     | 5.0  | 6.5  | ---      | --- | ---  | 0.0      | 0.0 | 0.0  | 0.0     | 0.0 | 0.0  |
| 12    | 8.0     | 7.0  | 7.5  | ---      | --- | ---  | 0.0      | 0.0 | 0.0  | 0.0     | 0.0 | 0.0  |
| 13    | 10.0    | 7.0  | 8.5  | ---      | --- | ---  | 0.0      | 0.0 | 0.0  | 0.0     | 0.0 | 0.0  |
| 14    | 10.5    | 8.0  | 9.0  | ---      | --- | ---  | 0.0      | 0.0 | 0.0  | 0.0     | 0.0 | 0.0  |
| 15    | 9.0     | 6.5  | 8.0  | ---      | --- | ---  | 0.0      | 0.0 | 0.0  | 0.0     | 0.0 | 0.0  |
| 16    | 7.5     | 7.0  | 7.5  | ---      | --- | ---  | 0.0      | 0.0 | 0.0  | 0.0     | 0.0 | 0.0  |
| 17    | 8.5     | 5.5  | 7.0  | ---      | --- | ---  | 0.0      | 0.0 | 0.0  | 0.0     | 0.0 | 0.0  |
| 18    | 7.0     | 5.5  | 6.0  | ---      | --- | ---  | 0.0      | 0.0 | 0.0  | 0.0     | 0.0 | 0.0  |
| 19    | 7.0     | 4.5  | 6.0  | ---      | --- | ---  | 0.0      | 0.0 | 0.0  | 0.0     | 0.0 | 0.0  |
| 20    | 6.0     | 5.0  | 5.5  | ---      | --- | ---  | 0.0      | 0.0 | 0.0  | 0.0     | 0.0 | 0.0  |
| 21    | 6.0     | 5.0  | 5.5  | ---      | --- | ---  | 0.0      | 0.0 | 0.0  | 0.0     | 0.0 | 0.0  |
| 22    | 6.5     | 5.0  | 5.5  | ---      | --- | ---  | 0.0      | 0.0 | 0.0  | 0.0     | 0.0 | 0.0  |
| 23    | 6.0     | 5.0  | 5.5  | ---      | --- | ---  | 0.0      | 0.0 | 0.0  | 0.0     | 0.0 | 0.0  |
| 24    | 7.0     | 5.5  | 6.5  | ---      | --- | ---  | 0.0      | 0.0 | 0.0  | 0.0     | 0.0 | 0.0  |
| 25    | 8.5     | 6.0  | 7.5  | ---      | --- | ---  | 0.0      | 0.0 | 0.0  | 0.0     | 0.0 | 0.0  |
| 26    | 9.0     | 7.0  | 8.5  | ---      | --- | ---  | 0.0      | 0.0 | 0.0  | 0.0     | 0.0 | 0.0  |
| 27    | 7.5     | 6.0  | 6.5  | ---      | --- | ---  | 0.0      | 0.0 | 0.0  | 0.0     | 0.0 | 0.0  |
| 28    | 6.0     | 5.0  | 5.5  | ---      | --- | ---  | 0.0      | 0.0 | 0.0  | 0.0     | 0.0 | 0.0  |
| 29    | 5.0     | 2.0  | 4.0  | ---      | --- | ---  | 0.0      | 0.0 | 0.0  | 0.0     | 0.0 | 0.0  |
| 30    | 3.0     | 0.5  | 1.5  | ---      | --- | ---  | 0.0      | 0.0 | 0.0  | 0.0     | 0.0 | 0.0  |
| 31    | 2.0     | 0.5  | 1.5  | ---      | --- | ---  | 0.0      | 0.0 | 0.0  | 0.0     | 0.0 | 0.0  |
| MONTH | 13.5    | 0.5  | 6.5  | ---      | --- | ---  | 0.0      | 0.0 | 0.0  | 0.0     | 0.0 | 0.0  |

TEMPERATURE (DEG. C) OF WATER, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

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

## ST. JOHN RIVER BASIN

01010500 ST. JOHN RIVER AT DICKEY, ME

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

DRAINAGE AREA.--2,700 mi<sup>2</sup> (6,993 km<sup>2</sup>), 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 good except those for winter period and periods of no gage-height record, which are fair.

AVERAGE DISCHARGE.--30 years (water years 1947-76), 4,683 ft<sup>3</sup>/s (132.6 m<sup>3</sup>/s), 23.55 in/yr (598 mm/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 87,200 ft<sup>3</sup>/s (2,470 m<sup>3</sup>/s) May 1, 1974, gage height, 18.67 ft (5.691 m); maximum gage height, 29.16 ft (8.888 m) Apr. 30, 1974 (backwater from ice); minimum discharge, 129 ft<sup>3</sup>/s (3.65 m<sup>3</sup>/s) Sept. 17, 1948.

EXTREMES FOR CURRENT YEAR.--Peak discharges above base of 27,000 ft<sup>3</sup>/s (765 m<sup>3</sup>/s) and maximums (\*):

| Date    | Time | Discharge (ft <sup>3</sup> /s) (m <sup>3</sup> /s) | Gage height (ft) (m) | Date    | Time | Discharge (ft <sup>3</sup> /s) (m <sup>3</sup> /s) | Gage height (ft) (m) |
|---------|------|----------------------------------------------------|----------------------|---------|------|----------------------------------------------------|----------------------|
| Apr. 2  | 0530 | ice jam                                            | *21.88 6.669         | May 14  | 0015 | 28,300 801                                         | 11.28 3.438          |
| Apr. 4  | -    | 51,000 1,444                                       | -                    | July 14 | 1830 | 28,800 816                                         | 11.37 3.466          |
| Apr. 21 | 2200 | *63,300 1,793                                      | 16.01 4.880          | Aug. 11 | 1800 | 60,900 1,725                                       | 15.74 4.798          |
| May 3   | 1400 | 33,000 935                                         | 12.02 3.664          |         |      |                                                    |                      |

Minimum daily discharge, 800 ft<sup>3</sup>/s (22.7 m<sup>3</sup>/s) Jan. 26.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976  
MEAN VALUES

| DAY         | OCT    | NOV     | DEC   | JAN   | FEB   | MAR   | APR    | MAY    | JUN   | JUL    | AUG    | SEP    |
|-------------|--------|---------|-------|-------|-------|-------|--------|--------|-------|--------|--------|--------|
| 1           | 2610   | 3100    | 2100  | 990   | 980   | 1450  | 12500  | 21000  | 4810  | 5940   | 3700   | 3570   |
| 2           | 2060   | 3000    | 2200  | 970   | 1150  | 1450  | 20000  | 22200  | 4330  | 7450   | 3520   | 3420   |
| 3           | 1750   | 3300    | 2300  | 940   | 1400  | 1460  | 36000  | 31400  | 4250  | 9760   | 4250   | 3940   |
| 4           | 1600   | 3500    | 2200  | 930   | 1700  | 1470  | 48000  | 31500  | 3780  | 11500  | 4080   | 4250   |
| 5           | 1480   | 3150    | 2050  | 920   | 2000  | 1470  | 45000  | 26500  | 3300  | 11100  | 3370   | 3720   |
| 6           | 1310   | 2800    | 1950  | 900   | 2350  | 1450  | 38000  | 21400  | 2880  | 8320   | 3050   | 3670   |
| 7           | 1180   | 2500    | 1850  | 890   | 2650  | 1420  | 32000  | 19000  | 2500  | 6050   | 3000   | 3940   |
| 8           | 1110   | 2300    | 1750  | 880   | 2550  | 1400  | 26400  | 16600  | 2240  | 4480   | 3300   | 3470   |
| 9           | 1060   | 2200    | 1700  | 870   | 2400  | 1380  | 21500  | 15800  | 2060  | 4020   | 3240   | 2830   |
| 10          | 1030   | 2500    | 1650  | 860   | 2300  | 1350  | 17100  | 16600  | 1850  | 5230   | 6730   | 2370   |
| 11          | 1000   | 3700    | 1700  | 850   | 2200  | 1320  | 15200  | 16600  | 1750  | 4930   | 47400  | 2020   |
| 12          | 974    | 7800    | 1700  | 840   | 2100  | 1300  | 11900  | 16200  | 2060  | 3880   | 50800  | 1920   |
| 13          | 961    | 9200    | 1600  | 840   | 2050  | 1280  | 10800  | 22600  | 2220  | 11500  | 33500  | 2060   |
| 14          | 1490   | 8600    | 1550  | 840   | 1950  | 1260  | 9680   | 26700  | 2200  | 26200  | 21600  | 2370   |
| 15          | 3800   | 9600    | 1500  | 830   | 1900  | 1250  | 8840   | 21600  | 2040  | 26000  | 21100  | 2220   |
| 16          | 3250   | 12000   | 1450  | 830   | 1850  | 1240  | 8880   | 17400  | 1790  | 18900  | 22700  | 1940   |
| 17          | 2800   | 10000   | 1400  | 820   | 1800  | 1220  | 10600  | 14100  | 1740  | 12900  | 21000  | 1640   |
| 18          | 2600   | 8400    | 1350  | 820   | 1750  | 1200  | 18100  | 12200  | 1980  | 10400  | 15400  | 1460   |
| 19          | 2800   | 7200    | 1300  | 820   | 1750  | 1180  | 27500  | 13800  | 1920  | 9120   | 11400  | 1440   |
| 20          | 3200   | 5800    | 1250  | 810   | 1700  | 1180  | 44700  | 21600  | 1660  | 7200   | 8520   | 2520   |
| 21          | 4500   | 4900    | 1250  | 810   | 1650  | 1180  | 61000  | 22800  | 2180  | 8160   | 6580   | 5230   |
| 22          | 7000   | 4000    | 1200  | 805   | 1600  | 1230  | 58500  | 21000  | 2320  | 9360   | 5170   | 6160   |
| 23          | 9500   | 3500    | 1150  | 805   | 1600  | 1350  | 49300  | 20300  | 2000  | 7200   | 4220   | 5880   |
| 24          | 8200   | 3200    | 1100  | 805   | 1600  | 1600  | 45100  | 20000  | 1680  | 5230   | 3650   | 4870   |
| 25          | 7000   | 2800    | 1100  | 805   | 1550  | 2000  | 38200  | 17300  | 1480  | 5800   | 3140   | 4160   |
| 26          | 6000   | 2600    | 1050  | 800   | 1500  | 2500  | 29600  | 13400  | 2300  | 8760   | 2810   | 3570   |
| 27          | 5400   | 2350    | 1100  | 810   | 1500  | 3400  | 23600  | 10900  | 4360  | 7560   | 2580   | 6470   |
| 28          | 5500   | 2150    | 1100  | 810   | 1500  | 4800  | 22200  | 9000   | 4780  | 6920   | 2390   | 5560   |
| 29          | 4700   | 2000    | 1050  | 820   | 1480  | 6400  | 21800  | 7460   | 4510  | 6610   | 2320   | 7880   |
| 30          | 4100   | 2050    | 1050  | 840   | ---   | 7900  | 21600  | 6360   | 4390  | 5420   | 2500   | 6580   |
| 31          | 3600   | ---     | 1000  | 900   | ---   | 9000  | ---    | 5420   | ---   | 4360   | 3170   | ---    |
| TOTAL       | 103565 | 140200  | 46700 | 26460 | 52510 | 68090 | 833600 | 558740 | 81360 | 280260 | 330190 | 111130 |
| MEAN        | 3341   | 4673    | 1506  | 854   | 1811  | 2196  | 27790  | 18020  | 2712  | 9041   | 10650  | 3704   |
| MAX         | 9500   | 12000   | 2300  | 990   | 2650  | 9000  | 61000  | 31500  | 4810  | 26200  | 50800  | 7880   |
| MIN         | 961    | 2000    | 1000  | 800   | 980   | 1180  | 8840   | 5420   | 1480  | 3880   | 2320   | 1440   |
| CFSM        | 1.24   | 1.73    | .56   | .32   | .67   | .81   | 10.3   | 6.67   | 1.00  | 3.35   | 3.94   | 1.37   |
| IN.         | 1.43   | 1.93    | .64   | .36   | .72   | .94   | 11.49  | 7.70   | 1.12  | 3.86   | 4.55   | 1.53   |
| CAL YR 1975 | TOTAL  | 1635447 | MEAN  | 4481  | MAX   | 40200 | MIN    | 321    | CFSM  | 1.66   | IN     | 22.53  |
| WTR YR 1976 | TOTAL  | 2632805 | MEAN  | 7193  | MAX   | 61000 | MIN    | 800    | CFSM  | 2.66   | IN     | 36.27  |

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

## WATER-QUALITY RECORDS

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

## PERIOD OF DAILY RECORD.--

SPECIFIC CONDUCTANCE: April 1975 to current year.

WATER TEMPERATURES: April 1975 to current year.

SUSPENDED SEDIMENT DISCHARGE: Current year.

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

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

## EXTREMES FOR PERIOD OF DAILY RECORD.--

SPECIFIC CONDUCTANCE: Maximum, 109 micromhos Sept. 1, 1975; minimum, 30 micromhos Apr. 20, 1976.

WATER TEMPERATURES: Maximum, 28.5°C Aug. 16, 1975; minimum, 0.0°C on many days during winter periods.

SEDIMENT CONCENTRATIONS: Current year.

SEDIMENT LOADS: Current year.

## EXTREMES FOR CURRENT YEAR.--

SPECIFIC CONDUCTANCE: Maximum, 91 micromhos Jan. 29; minimum, 30 micromhos Apr. 20.

WATER TEMPERATURES: Maximum, 26.0°C June 24; minimum, 0.0°C on many days during winter periods.

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

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

## SPECIFIC CONDUCTANCE (MICROMHOS/CM AT 25 DEG. C), WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

| DAY   | OCTOBER |     |      | NOVEMBER |     |      | DECEMBER |     |      | JANUARY |     |      |
|-------|---------|-----|------|----------|-----|------|----------|-----|------|---------|-----|------|
|       | MAX     | MIN | MEAN | MAX      | MIN | MEAN | MAX      | MIN | MEAN | MAX     | MIN | MEAN |
| 1     | 63      | 61  | 62   | 59       | 54  | 56   | 59       | 56  | 58   | 71      | 70  | 71   |
| 2     | 73      | 62  | 66   | 60       | 55  | 56   | 89       | 56  | 58   | 74      | 71  | 71   |
| 3     | 84      | 66  | 71   | 61       | 56  | 58   | 80       | 54  | 62   | 72      | 71  | 71   |
| 4     | 80      | 68  | 72   | 58       | 55  | 57   | 68       | 53  | 58   | 73      | 71  | 72   |
| 5     | 79      | 65  | 71   | 62       | 56  | 57   | 66       | 61  | 64   | 74      | 72  | 72   |
| 6     | 85      | 68  | 70   | 59       | 56  | 57   | 66       | 62  | 64   | 74      | 72  | 72   |
| 7     | 82      | 67  | 70   | 59       | 56  | 57   | 79       | 62  | 64   | 74      | 73  | 73   |
| 8     | 76      | 68  | 71   | 60       | 59  | 60   | 67       | 64  | 66   | 75      | 73  | 74   |
| 9     | 80      | 68  | 70   | 62       | 59  | 60   | 68       | 66  | 67   | ---     | --- | ---  |
| 10    | 86      | 68  | 72   | 61       | 59  | 60   | 68       | 66  | 67   | ---     | --- | ---  |
| 11    | 80      | 68  | 71   | 65       | 59  | 60   | 76       | 62  | 65   | ---     | --- | ---  |
| 12    | 73      | 70  | 71   | 67       | 57  | 60   | 77       | 63  | 65   | ---     | --- | ---  |
| 13    | 77      | 68  | 71   | 58       | 52  | 54   | 70       | 65  | 67   | ---     | --- | ---  |
| 14    | 84      | 71  | 76   | 53       | 50  | 51   | 69       | 67  | 68   | 78      | 76  | 77   |
| 15    | 73      | 66  | 68   | 55       | 52  | 53   | 69       | 67  | 68   | 78      | 76  | 77   |
| 16    | 68      | 64  | 65   | 53       | 50  | 51   | 68       | 66  | 67   | 79      | 77  | 77   |
| 17    | 76      | 62  | 66   | 52       | 46  | 48   | 69       | 66  | 68   | 78      | 76  | 77   |
| 18    | 68      | 62  | 65   | 49       | 46  | 47   | 75       | 68  | 71   | 78      | 77  | 77   |
| 19    | 69      | 63  | 65   | 51       | 46  | 48   | 68       | 67  | 67   | 80      | 77  | 78   |
| 20    | 72      | 62  | 66   | 51       | 47  | 48   | 72       | 68  | 70   | 78      | 77  | 78   |
| 21    | 61      | 60  | 61   | 49       | 48  | 48   | 75       | 70  | 71   | 78      | 77  | 77   |
| 22    | 62      | 56  | 58   | 50       | 49  | 50   | 72       | 70  | 70   | 78      | 77  | 78   |
| 23    | 65      | 53  | 56   | 52       | 44  | 49   | 71       | 68  | 69   | 82      | 78  | 79   |
| 24    | 59      | 52  | 54   | 51       | 44  | 47   | 69       | 68  | 69   | 80      | 78  | 79   |
| 25    | 54      | 52  | 53   | 51       | 44  | 48   | 69       | 68  | 68   | 82      | 78  | 79   |
| 26    | 52      | 51  | 52   | 55       | 45  | 49   | 71       | 69  | 70   | 81      | 78  | 79   |
| 27    | 55      | 52  | 53   | 52       | 48  | 50   | 70       | 70  | 70   | 82      | 78  | 79   |
| 28    | 55      | 52  | 53   | 57       | 52  | 55   | 77       | 70  | 71   | 79      | 68  | 76   |
| 29    | 54      | 53  | 53   | 62       | 54  | 57   | 71       | 69  | 70   | 91      | 79  | 81   |
| 30    | 57      | 53  | 54   | 66       | 58  | 59   | 83       | 69  | 70   | 82      | 80  | 81   |
| 31    | 59      | 54  | 55   | ---      | --- | ---  | 71       | 70  | 70   | 80      | 79  | 80   |
| MONTH | 86      | 51  | 64   | 67       | 44  | 54   | 89       | 53  | 67   | 91      | 68  | 76   |



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

## SPECIFIC CONDUCTANCE (MICROMHOS/CM AT 25 DEG. C), WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

| FEBRUARY |     |     |      | MARCH |     |      | APRIL  |     |      | MAY       |     |      |
|----------|-----|-----|------|-------|-----|------|--------|-----|------|-----------|-----|------|
| DAY      | MAX | MIN | MEAN | MAX   | MIN | MEAN | MAX    | MIN | MEAN | MAX       | MIN | MEAN |
| 1        | 81  | 77  | 78   | ---   | --- | ---  | ---    | --- | ---  | ---       | --- | ---  |
| 2        | 82  | 76  | 77   | ---   | --- | ---  | ---    | --- | ---  | ---       | --- | ---  |
| 3        | 85  | 75  | 77   | ---   | --- | ---  | ---    | --- | ---  | ---       | --- | ---  |
| 4        | 75  | 75  | 75   | ---   | --- | ---  | ---    | --- | ---  | ---       | --- | ---  |
| 5        | 75  | 73  | 74   | ---   | --- | ---  | ---    | --- | ---  | ---       | --- | ---  |
| 6        | 78  | 73  | 74   | ---   | --- | ---  | 36     | 34  | 35   | 34        | 32  | 33   |
| 7        | --- | --- | ---  | ---   | --- | ---  | 36     | 35  | 35   | 34        | 32  | 33   |
| 8        | --- | --- | ---  | ---   | --- | ---  | 36     | 34  | 35   | 35        | 33  | 34   |
| 9        | --- | --- | ---  | ---   | --- | ---  | 36     | 34  | 35   | 37        | 33  | 35   |
| 10       | --- | --- | ---  | ---   | --- | ---  | 38     | 35  | 36   | 38        | 34  | 36   |
| 11       | --- | --- | ---  | ---   | --- | ---  | 36     | 34  | 35   | 38        | 34  | 36   |
| 12       | --- | --- | ---  | ---   | --- | ---  | 36     | 31  | 35   | 37        | 34  | 36   |
| 13       | --- | --- | ---  | ---   | --- | ---  | 39     | 33  | 36   | 38        | 35  | 37   |
| 14       | --- | --- | ---  | ---   | --- | ---  | 37     | 34  | 35   | 39        | 35  | 37   |
| 15       | --- | --- | ---  | ---   | --- | ---  | 37     | 34  | 36   | 39        | 35  | 36   |
| 16       | --- | --- | ---  | ---   | --- | ---  | 38     | 35  | 36   | 39        | 35  | 36   |
| 17       | --- | --- | ---  | 63    | 62  | 63   | 37     | 35  | 36   | 40        | 35  | 37   |
| 18       | --- | --- | ---  | 64    | 62  | 63   | 36     | 34  | 35   | 41        | 37  | 39   |
| 19       | --- | --- | ---  | 65    | 62  | 63   | 35     | 31  | 33   | 42        | 40  | 41   |
| 20       | --- | --- | ---  | 64    | 62  | 63   | 33     | 30  | 31   | 43        | 42  | 42   |
| 21       | --- | --- | ---  | 66    | 62  | 64   | ---    | --- | ---  | 43        | 42  | 43   |
| 22       | --- | --- | ---  | ---   | --- | ---  | ---    | --- | ---  | 43        | 41  | 42   |
| 23       | --- | --- | ---  | ---   | --- | ---  | ---    | --- | ---  | 43        | 42  | 43   |
| 24       | --- | --- | ---  | ---   | --- | ---  | ---    | --- | ---  | 45        | 43  | 44   |
| 25       | --- | --- | ---  | ---   | --- | ---  | ---    | --- | ---  | 45        | 44  | 45   |
| 26       | --- | --- | ---  | ---   | --- | ---  | ---    | --- | ---  | 48        | 45  | 46   |
| 27       | --- | --- | ---  | ---   | --- | ---  | ---    | --- | ---  | 48        | 41  | 45   |
| 28       | --- | --- | ---  | ---   | --- | ---  | ---    | --- | ---  | 46        | 41  | 43   |
| 29       | --- | --- | ---  | ---   | --- | ---  | ---    | --- | ---  | 47        | 42  | 44   |
| 30       | --- | --- | ---  | ---   | --- | ---  | ---    | --- | ---  | 48        | 43  | 45   |
| 31       | --- | --- | ---  | ---   | --- | ---  | ---    | --- | ---  | 50        | 45  | 47   |
| MONTH    | --- | --- | ---  | ---   | --- | ---  | ---    | --- | ---  | 50        | 32  | 40   |
| JUNE     |     |     |      | JULY  |     |      | AUGUST |     |      | SEPTEMBER |     |      |
| DAY      | MAX | MIN | MEAN | MAX   | MIN | MEAN | MAX    | MIN | MEAN | MAX       | MIN | MEAN |
| 1        | 50  | 46  | 49   | 52    | 50  | 51   | ---    | --- | ---  | 58        | 57  | 58   |
| 2        | 51  | 48  | 50   | 55    | 51  | 52   | ---    | --- | ---  | 59        | 57  | 58   |
| 3        | 52  | 48  | 49   | 53    | 51  | 52   | ---    | --- | ---  | 60        | 56  | 58   |
| 4        | 53  | 48  | 50   | 51    | 47  | 49   | 53     | 52  | 52   | 56        | 55  | 56   |
| 5        | 53  | 49  | 51   | 47    | 46  | 47   | 54     | 50  | 52   | 55        | 55  | 55   |
| 6        | 55  | 51  | 52   | 46    | 43  | 44   | 57     | 55  | 56   | 57        | 55  | 56   |
| 7        | 56  | 52  | 54   | 45    | 44  | 45   | 56     | 54  | 55   | 59        | 57  | 58   |
| 8        | 57  | 53  | 56   | 46    | 45  | 45   | 55     | 43  | 50   | 60        | 59  | 59   |
| 9        | 59  | 55  | 57   | 48    | 46  | 47   | 44     | 42  | 43   | 59        | 58  | 59   |
| 10       | 60  | 57  | 58   | 47    | 46  | 46   | 44     | 42  | 43   | 60        | 58  | 59   |
| 11       | 60  | 57  | 59   | 47    | 46  | 46   | 46     | 43  | 44   | 59        | 59  | 59   |
| 12       | 62  | 60  | 61   | 47    | 46  | 46   | ---    | --- | ---  | 60        | 59  | 60   |
| 13       | 63  | 59  | 62   | 52    | 46  | 49   | ---    | --- | ---  | 63        | 60  | 62   |
| 14       | 65  | 60  | 62   | 49    | 46  | 47   | ---    | --- | ---  | 62        | 59  | 61   |
| 15       | 65  | 60  | 61   | 47    | 45  | 46   | ---    | --- | ---  | 61        | 59  | 60   |
| 16       | 64  | 60  | 62   | 47    | 46  | 46   | ---    | --- | ---  | 60        | 59  | 60   |
| 17       | 76  | 62  | 65   | 46    | 46  | 46   | ---    | --- | ---  | 63        | 60  | 61   |
| 18       | 77  | 63  | 67   | 50    | 47  | 49   | ---    | --- | ---  | 63        | 61  | 62   |
| 19       | 68  | 64  | 65   | 52    | 47  | 49   | ---    | --- | ---  | 64        | 62  | 63   |
| 20       | 71  | 66  | 68   | 48    | 46  | 47   | ---    | --- | ---  | 64        | 61  | 63   |
| 21       | 69  | 64  | 67   | 52    | 46  | 49   | ---    | --- | ---  | 61        | 58  | 59   |
| 22       | 67  | 62  | 65   | 48    | 42  | 45   | ---    | --- | ---  | 60        | 58  | 59   |
| 23       | 69  | 65  | 67   | 45    | 42  | 44   | ---    | --- | ---  | 57        | 56  | 57   |
| 24       | 70  | 47  | 65   | ---   | --- | ---  | ---    | --- | ---  | 56        | 55  | 56   |
| 25       | 66  | 65  | 66   | ---   | --- | ---  | ---    | --- | ---  | 56        | 55  | 55   |
| 26       | 67  | 66  | 66   | ---   | --- | ---  | ---    | --- | ---  | 56        | 55  | 56   |
| 27       | 67  | 59  | 62   | ---   | --- | ---  | ---    | --- | ---  | 56        | 54  | 55   |
| 28       | 59  | 53  | 56   | 45    | 43  | 44   | ---    | --- | ---  | 57        | 55  | 56   |
| 29       | 55  | 53  | 53   | 46    | 45  | 45   | ---    | --- | ---  | 55        | 52  | 54   |
| 30       | 54  | 52  | 53   | ---   | --- | ---  | ---    | --- | ---  | 53        | 49  | 51   |
| 31       | --- | --- | ---  | ---   | --- | ---  | ---    | --- | ---  | ---       | --- | ---  |
| MONTH    | 77  | 46  | 59   | 55    | 42  | 47   | ---    | --- | ---  | 64        | 49  | 58   |
| PERIOD   | 91  | 30  | 57   |       |     |      |        |     |      |           |     |      |

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

TEMPERATURE (DEG. C) OF WATER, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

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

## ST. JOHN RIVER BASIN

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

TEMPERATURE (DEG. C) OF WATER, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

| DAY    | JUNE |      |      | JULY |      |      | AUGUST |      |      | SEPTEMBER |      |      |
|--------|------|------|------|------|------|------|--------|------|------|-----------|------|------|
|        | MAX  | MIN  | MEAN | MAX  | MIN  | MEAN | MAX    | MIN  | MEAN | MAX       | MIN  | MEAN |
| 1      | 15.5 | 14.5 | 15.0 | 17.0 | 15.0 | 16.0 | ---    | ---  | ---  | ---       | ---  | ---  |
| 2      | 15.5 | 13.5 | 14.5 | 15.5 | 14.5 | 15.0 | ---    | ---  | ---  | 16.5      | 13.5 | 15.0 |
| 3      | 16.5 | 13.5 | 15.0 | 15.5 | 15.0 | 15.0 | ---    | ---  | ---  | 16.5      | 14.0 | 15.0 |
| 4      | 18.0 | 14.0 | 16.0 | 17.0 | 14.5 | 16.0 | ---    | ---  | ---  | 15.5      | 14.5 | 15.0 |
| 5      | 20.0 | 15.5 | 17.5 | 19.0 | 16.0 | 17.5 | 20.5   | 18.0 | 19.0 | 16.0      | 15.0 | 15.5 |
| 6      | 22.0 | 17.5 | 19.5 | 20.5 | 17.0 | 19.0 | 20.0   | 16.5 | 18.5 | 15.5      | 14.5 | 15.0 |
| 7      | 22.5 | 19.0 | 21.0 | 22.5 | 19.5 | 21.0 | 18.5   | 17.0 | 17.5 | 14.0      | 13.5 | 14.0 |
| 8      | 21.5 | 19.5 | 20.5 | 22.0 | 20.5 | 21.0 | 17.0   | 16.0 | 16.5 | 14.5      | 13.5 | 13.5 |
| 9      | 22.5 | 19.0 | 20.5 | 22.5 | 20.0 | 21.0 | 17.0   | 16.0 | 16.5 | 16.5      | 13.0 | 14.5 |
| 10     | 22.0 | 18.5 | 20.0 | 22.5 | 19.5 | 21.0 | 18.5   | 17.0 | 17.5 | 17.5      | 14.0 | 15.5 |
| 11     | 20.5 | 17.0 | 19.0 | 21.0 | 20.0 | 20.5 | 18.5   | 17.0 | 17.5 | 17.0      | 15.5 | 16.0 |
| 12     | 16.5 | 14.5 | 15.5 | 20.0 | 18.5 | 19.0 | 17.0   | 16.0 | 16.5 | 16.5      | 15.0 | 15.5 |
| 13     | 15.0 | 13.5 | 14.5 | 18.0 | 16.0 | 17.0 | ---    | ---  | ---  | 18.0      | 14.0 | 16.0 |
| 14     | 20.0 | 14.0 | 16.5 | 16.0 | 15.0 | 15.0 | ---    | ---  | ---  | 19.5      | 16.0 | 17.5 |
| 15     | 23.0 | 18.5 | 20.5 | 16.5 | 14.5 | 15.5 | ---    | ---  | ---  | 19.0      | 17.0 | 17.5 |
| 16     | 23.5 | 21.0 | 22.0 | 18.0 | 15.5 | 17.0 | ---    | ---  | ---  | 17.0      | 15.0 | 15.5 |
| 17     | 22.5 | 21.5 | 22.0 | 18.5 | 17.5 | 18.0 | ---    | ---  | ---  | 17.5      | 14.0 | 16.0 |
| 18     | 23.5 | 19.5 | 21.5 | 18.5 | 17.0 | 18.0 | 20.5   | 18.5 | 18.5 | 17.0      | 16.0 | 16.5 |
| 19     | 24.5 | 20.5 | 22.5 | 19.5 | 17.0 | 18.5 | ---    | ---  | ---  | 17.0      | 16.5 | 17.0 |
| 20     | 25.0 | 22.0 | 23.0 | 21.5 | 19.0 | 20.0 | ---    | ---  | ---  | 16.5      | 15.0 | 16.0 |
| 21     | 24.5 | 22.0 | 23.0 | 21.0 | 19.5 | 20.5 | ---    | ---  | ---  | 15.0      | 14.0 | 14.5 |
| 22     | 25.5 | 21.5 | 23.5 | 20.5 | 18.5 | 19.5 | ---    | ---  | ---  | 14.5      | 13.0 | 14.0 |
| 23     | 25.5 | 23.0 | 24.5 | 20.5 | 18.0 | 19.5 | ---    | ---  | ---  | 14.0      | 13.0 | 13.5 |
| 24     | 26.0 | 20.5 | 23.5 | 19.5 | 18.0 | 19.0 | ---    | ---  | ---  | 12.5      | 11.5 | 12.0 |
| 25     | 24.0 | 20.5 | 22.0 | 17.5 | 16.5 | 16.5 | ---    | ---  | ---  | 11.5      | 0.0  | 11.0 |
| 26     | 20.0 | 17.0 | 18.0 | ---  | ---  | ---  | ---    | ---  | ---  | 11.0      | 0.0  | 10.5 |
| 27     | 18.0 | 16.5 | 17.0 | ---  | ---  | ---  | ---    | ---  | ---  | 10.5      | 10.0 | 10.5 |
| 28     | 17.0 | 16.0 | 16.5 | 19.0 | 18.5 | 18.5 | ---    | ---  | ---  | 10.0      | 9.5  | 10.0 |
| 29     | 18.5 | 16.5 | 17.5 | 19.0 | 17.5 | 17.5 | ---    | ---  | ---  | 9.5       | 9.0  | 9.5  |
| 30     | 18.5 | 17.0 | 17.5 | ---  | ---  | ---  | ---    | ---  | ---  | 10.0      | 9.0  | 9.5  |
| 31     | ---  | ---  | ---  | ---  | ---  | ---  | ---    | ---  | ---  | ---       | ---  | ---  |
| MONTH  | 26.0 | 13.5 | 19.5 | 22.5 | 14.5 | 18.0 | ---    | ---  | ---  | 19.5      | 0.0  | 14.0 |
| PERIOD | 26.0 | 0.0  | 8.0  |      |      |      |        |      |      |           |      |      |

SUSPENDED-SEDIMENT DISCHARGE, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

| DAY   | OCTOBER              |                           |                               | NOVEMBER             |                           |                               | DECEMBER             |                           |                               |
|-------|----------------------|---------------------------|-------------------------------|----------------------|---------------------------|-------------------------------|----------------------|---------------------------|-------------------------------|
|       | MEAN DISCHARGE (CFS) | MEAN CONCENTRATION (MG/L) | SEDIMENT DISCHARGE (TONS/DAY) | MEAN DISCHARGE (CFS) | MEAN CONCENTRATION (MG/L) | SEDIMENT DISCHARGE (TONS/DAY) | MEAN DISCHARGE (CFS) | MEAN CONCENTRATION (MG/L) | SEDIMENT DISCHARGE (TONS/DAY) |
| 1     | 2610                 | 2                         | 14                            | 3100                 | 2                         | 17                            | 2100                 | 1                         | 5.7                           |
| 2     | 2060                 | 2                         | 11                            | 3000                 | 3                         | 24                            | 2200                 | 1                         | 5.9                           |
| 3     | 1750                 | 2                         | 9.4                           | 3300                 | 1                         | 8.9                           | 2300                 | 1                         | 6.2                           |
| 4     | 1600                 | 1                         | 4.3                           | 3500                 | 1                         | 9.4                           | 2200                 | 1                         | 5.9                           |
| 5     | 1480                 | 1                         | 4.0                           | 3150                 | 1                         | 8.5                           | 2050                 | 1                         | 5.5                           |
| 6     | 1310                 | 1                         | 3.5                           | 2800                 | 1                         | 7.6                           | 1950                 | 1                         | 5.3                           |
| 7     | 1180                 | 1                         | 3.2                           | 2500                 | 1                         | 6.8                           | 1850                 | 1                         | 5.0                           |
| 8     | 1110                 | 1                         | 3.0                           | 2300                 | 1                         | 6.2                           | 1750                 | 1                         | 4.7                           |
| 9     | 1060                 | 1                         | 2.9                           | 2200                 | 2                         | 12                            | 1700                 | 1                         | 4.6                           |
| 10    | 1030                 | 1                         | 2.8                           | 2500                 | 5                         | 34                            | 1650                 | 1                         | 4.4                           |
| 11    | 1000                 | 1                         | 2.7                           | 3700                 | 8                         | 80                            | 1700                 | 1                         | 4.6                           |
| 12    | 974                  | 1                         | 2.6                           | 7800                 | 10                        | 211                           | 1700                 | 1                         | 4.6                           |
| 13    | 961                  | 3                         | 7.8                           | 9200                 | 9                         | 224                           | 1600                 | 1                         | 4.3                           |
| 14    | 1490                 | 4                         | 16                            | 8600                 | 8                         | 186                           | 1550                 | 1                         | 4.2                           |
| 15    | 3800                 | 5                         | 51                            | 9600                 | 7                         | 181                           | 1500                 | 1                         | 4.0                           |
| 16    | 3250                 | 3                         | 26                            | 12000                | 6                         | 194                           | 1450                 | 1                         | 3.9                           |
| 17    | 2800                 | 1                         | 7.6                           | 10000                | 5                         | 135                           | 1400                 | 1                         | 3.8                           |
| 18    | 2600                 | 1                         | 7.0                           | 8400                 | 2                         | 45                            | 1350                 | 1                         | 3.6                           |
| 19    | 2800                 | 2                         | 15                            | 7200                 | 1                         | 19                            | 1300                 | 1                         | 3.5                           |
| 20    | 3200                 | 5                         | 43                            | 5800                 | 1                         | 16                            | 1250                 | 1                         | 3.4                           |
| 21    | 4500                 | 6                         | 73                            | 4900                 | 1                         | 13                            | 1250                 | 1                         | 3.4                           |
| 22    | 7000                 | 8                         | 151                           | 4000                 | 1                         | 11                            | 1200                 | 1                         | 3.2                           |
| 23    | 9500                 | 4                         | 103                           | 3500                 | 1                         | 9.4                           | 1150                 | 1                         | 3.1                           |
| 24    | 8200                 | 1                         | 22                            | 3200                 | 1                         | 8.6                           | 1100                 | 1                         | 3.0                           |
| 25    | 7000                 | 1                         | 19                            | 2800                 | 1                         | 7.6                           | 1100                 | 1                         | 3.0                           |
| 26    | 6000                 | 1                         | 16                            | 2600                 | 1                         | 7.0                           | 1050                 | 1                         | 2.8                           |
| 27    | 5400                 | 1                         | 14                            | 2350                 | 1                         | 6.3                           | 1100                 | 1                         | 3.0                           |
| 28    | 5500                 | 1                         | 15                            | 2150                 | 1                         | 5.8                           | 1100                 | 1                         | 3.0                           |
| 29    | 4700                 | 1                         | 13                            | 2000                 | 1                         | 5.4                           | 1050                 | 1                         | 2.8                           |
| 30    | 4100                 | 1                         | 11                            | 2050                 | 1                         | 5.5                           | 1050                 | 1                         | 2.8                           |
| 31    | 3600                 | 1                         | 9.7                           |                      |                           |                               | 1000                 | 1                         | 2.7                           |
| TOTAL | 103565               | -                         | 683.5                         | 140200               | -                         | 1505.0                        | 46700                | -                         | 125.9                         |

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

## SUSPENDED-SEDIMENT DISCHARGE, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

| DAY   | JANUARY                    |                                      |                                     | FEBRUARY                   |                                      |                                     | MARCH                      |                                      |                                     |
|-------|----------------------------|--------------------------------------|-------------------------------------|----------------------------|--------------------------------------|-------------------------------------|----------------------------|--------------------------------------|-------------------------------------|
|       | MEAN<br>DISCHARGE<br>(CFS) | MEAN<br>CONCEN-<br>TRATION<br>(MG/L) | SEDIMENT<br>DISCHARGE<br>(TONS/DAY) | MEAN<br>DISCHARGE<br>(CFS) | MEAN<br>CONCEN-<br>TRATION<br>(MG/L) | SEDIMENT<br>DISCHARGE<br>(TONS/DAY) | MEAN<br>DISCHARGE<br>(CFS) | MEAN<br>CONCEN-<br>TRATION<br>(MG/L) | SEDIMENT<br>DISCHARGE<br>(TONS/DAY) |
| 1     | 990                        | 1                                    | 2.7                                 | 980                        | 1                                    | 2.6                                 | 1450                       | 1                                    | 3.9                                 |
| 2     | 970                        | 1                                    | 2.6                                 | 1150                       | 1                                    | 3.1                                 | 1450                       | 1                                    | 3.9                                 |
| 3     | 940                        | 1                                    | 2.5                                 | 1400                       | 1                                    | 3.8                                 | 1460                       | 1                                    | 3.9                                 |
| 4     | 930                        | 1                                    | 2.5                                 | 1700                       | 1                                    | 4.6                                 | 1470                       | 1                                    | 4.0                                 |
| 5     | 920                        | 1                                    | 2.5                                 | 2000                       | 1                                    | 5.4                                 | 1470                       | 1                                    | 4.0                                 |
| 6     | 900                        | 1                                    | 2.4                                 | 2350                       | 1                                    | 6.3                                 | 1450                       | 1                                    | 3.9                                 |
| 7     | 890                        | 1                                    | 2.4                                 | 2650                       | 1                                    | 7.2                                 | 1420                       | 1                                    | 3.8                                 |
| 8     | 880                        | 1                                    | 2.4                                 | 2550                       | 1                                    | 6.9                                 | 1400                       | 1                                    | 3.8                                 |
| 9     | 870                        | 1                                    | 2.3                                 | 2400                       | 1                                    | 6.5                                 | 1380                       | 1                                    | 3.7                                 |
| 10    | 860                        | 1                                    | 2.3                                 | 2300                       | 1                                    | 6.2                                 | 1350                       | 1                                    | 3.6                                 |
| 11    | 850                        | 1                                    | 2.3                                 | 2200                       | 1                                    | 5.9                                 | 1320                       | 1                                    | 3.6                                 |
| 12    | 840                        | 1                                    | 2.3                                 | 2100                       | 1                                    | 5.7                                 | 1300                       | 1                                    | 3.5                                 |
| 13    | 840                        | 1                                    | 2.3                                 | 2050                       | 1                                    | 5.5                                 | 1280                       | 1                                    | 3.4                                 |
| 14    | 840                        | 1                                    | 2.3                                 | 1950                       | 1                                    | 5.3                                 | 1260                       | 1                                    | 3.4                                 |
| 15    | 830                        | 1                                    | 2.2                                 | 1900                       | 1                                    | 5.1                                 | 1250                       | 1                                    | 3.4                                 |
| 16    | 830                        | 1                                    | 2.2                                 | 1850                       | 1                                    | 5.0                                 | 1240                       | 1                                    | 3.3                                 |
| 17    | 820                        | 1                                    | 2.2                                 | 1800                       | 1                                    | 4.9                                 | 1220                       | 1                                    | 3.3                                 |
| 18    | 820                        | 1                                    | 2.2                                 | 1750                       | 1                                    | 4.7                                 | 1200                       | 1                                    | 3.2                                 |
| 19    | 820                        | 1                                    | 2.2                                 | 1750                       | 1                                    | 4.7                                 | 1180                       | 1                                    | 3.2                                 |
| 20    | 810                        | 1                                    | 2.2                                 | 1700                       | 1                                    | 4.6                                 | 1180                       | 1                                    | 3.2                                 |
| 21    | 810                        | 1                                    | 2.2                                 | 1650                       | 1                                    | 4.4                                 | 1180                       | 1                                    | 3.2                                 |
| 22    | 805                        | 1                                    | 2.2                                 | 1600                       | 1                                    | 4.3                                 | 1230                       | 1                                    | 3.3                                 |
| 23    | 805                        | 1                                    | 2.2                                 | 1600                       | 1                                    | 4.3                                 | 1350                       | 1                                    | 3.6                                 |
| 24    | 805                        | 1                                    | 2.2                                 | 1600                       | 1                                    | 4.3                                 | 1600                       | 1                                    | 4.3                                 |
| 25    | 805                        | 1                                    | 2.2                                 | 1550                       | 1                                    | 4.2                                 | 2000                       | 1                                    | 5.4                                 |
| 26    | 800                        | 1                                    | 2.2                                 | 1500                       | 1                                    | 4.0                                 | 2500                       | 2                                    | 14                                  |
| 27    | 810                        | 1                                    | 2.2                                 | 1500                       | 1                                    | 4.0                                 | 3400                       | 4                                    | 37                                  |
| 28    | 810                        | 1                                    | 2.2                                 | 1500                       | 1                                    | 4.0                                 | 4800                       | 5                                    | 65                                  |
| 29    | 820                        | 1                                    | 2.2                                 | 1480                       | 1                                    | 4.0                                 | 6400                       | 6                                    | 104                                 |
| 30    | 840                        | 1                                    | 2.3                                 |                            |                                      |                                     | 7900                       | 8                                    | 171                                 |
| 31    | 900                        | 1                                    | 2.4                                 |                            |                                      |                                     | 9000                       | 12                                   | 292                                 |
| TOTAL | 26460                      | -                                    | 71.5                                | 52510                      | -                                    | 141.5                               | 68090                      | -                                    | 774.8                               |
| DAY   | APRIL                      |                                      |                                     | MAY                        |                                      |                                     | JUNE                       |                                      |                                     |
|       | MEAN<br>DISCHARGE<br>(CFS) | MEAN<br>CONCEN-<br>TRATION<br>(MG/L) | SEDIMENT<br>DISCHARGE<br>(TONS/DAY) | MEAN<br>DISCHARGE<br>(CFS) | MEAN<br>CONCEN-<br>TRATION<br>(MG/L) | SEDIMENT<br>DISCHARGE<br>(TONS/DAY) | MEAN<br>DISCHARGE<br>(CFS) | MEAN<br>CONCEN-<br>TRATION<br>(MG/L) | SEDIMENT<br>DISCHARGE<br>(TONS/DAY) |
| 1     | 12500                      | 14                                   | 472                                 | 21000                      | 2                                    | 113                                 | 4810                       | 1                                    | 13                                  |
| 2     | 20000                      | 18                                   | 972                                 | 22200                      | 2                                    | 120                                 | 4330                       | 1                                    | 12                                  |
| 3     | 36000                      | 26                                   | 2530                                | 31400                      | 1                                    | 85                                  | 4250                       | 1                                    | 11                                  |
| 4     | 48000                      | 32                                   | 4150                                | 31500                      | 6                                    | 510                                 | 3780                       | 1                                    | 10                                  |
| 5     | 45000                      | 26                                   | 3160                                | 26500                      | 3                                    | 215                                 | 3300                       | 1                                    | 8.9                                 |
| 6     | 38000                      | 22                                   | 2260                                | 21400                      | 5                                    | 289                                 | 2880                       | 1                                    | 7.8                                 |
| 7     | 32000                      | 12                                   | 1040                                | 19000                      | 6                                    | 308                                 | 2500                       | 1                                    | 6.8                                 |
| 8     | 26400                      | 10                                   | 713                                 | 16600                      | 1                                    | 45                                  | 2240                       | 1                                    | 6.0                                 |
| 9     | 21500                      | 10                                   | 580                                 | 15800                      | 1                                    | 43                                  | 2060                       | 1                                    | 5.6                                 |
| 10    | 17100                      | 10                                   | 462                                 | 16600                      | 1                                    | 45                                  | 1850                       | 1                                    | 5.0                                 |
| 11    | 15200                      | 12                                   | 492                                 | 16600                      | 1                                    | 45                                  | 1750                       | 2                                    | 9.4                                 |
| 12    | 11900                      | 8                                    | 257                                 | 16200                      | 1                                    | 44                                  | 2060                       | 2                                    | 11                                  |
| 13    | 10800                      | 8                                    | 233                                 | 22600                      | 2                                    | 122                                 | 2220                       | 4                                    | 24                                  |
| 14    | 9680                       | 8                                    | 209                                 | 26700                      | 1                                    | 72                                  | 2200                       | 4                                    | 24                                  |
| 15    | 8840                       | 8                                    | 191                                 | 21600                      | 1                                    | 58                                  | 2040                       | 3                                    | 16                                  |
| 16    | 8880                       | 5                                    | 120                                 | 17400                      | 1                                    | 47                                  | 1790                       | 3                                    | 14                                  |
| 17    | 10600                      | 6                                    | 172                                 | 14100                      | 1                                    | 38                                  | 1740                       | 2                                    | 9.4                                 |
| 18    | 18100                      | 20                                   | 977                                 | 12200                      | 1                                    | 33                                  | 1980                       | 2                                    | 11                                  |
| 19    | 27500                      | 30                                   | 2230                                | 13800                      | 3                                    | 112                                 | 1920                       | 1                                    | 5.2                                 |
| 20    | 44700                      | 99                                   | 12000                               | 21600                      | 5                                    | 292                                 | 1660                       | 1                                    | 4.5                                 |
| 21    | 61000                      | 161                                  | 26500                               | 22800                      | 5                                    | 308                                 | 2180                       | 2                                    | 12                                  |
| 22    | 58500                      | 40                                   | 6320                                | 21000                      | 5                                    | 284                                 | 2320                       | 1                                    | 6.3                                 |
| 23    | 49300                      | 10                                   | 1330                                | 20300                      | 10                                   | 548                                 | 2000                       | 1                                    | 5.4                                 |
| 24    | 45100                      | 6                                    | 731                                 | 20000                      | 5                                    | 270                                 | 1680                       | 1                                    | 4.5                                 |
| 25    | 38200                      | 6                                    | 619                                 | 17300                      | 2                                    | 93                                  | 1480                       | 2                                    | 8.0                                 |
| 26    | 29600                      | 6                                    | 480                                 | 13400                      | 2                                    | 72                                  | 2300                       | 4                                    | 25                                  |
| 27    | 23600                      | 6                                    | 382                                 | 10900                      | 2                                    | 59                                  | 4360                       | 2                                    | 24                                  |
| 28    | 22200                      | 5                                    | 300                                 | 9000                       | 2                                    | 49                                  | 4780                       | 2                                    | 26                                  |
| 29    | 21800                      | 4                                    | 235                                 | 7460                       | 2                                    | 40                                  | 4510                       | 1                                    | 12                                  |
| 30    | 21600                      | 2                                    | 117                                 | 6360                       | 1                                    | 17                                  | 4390                       | 1                                    | 12                                  |
| 31    |                            |                                      |                                     | 5420                       | 1                                    | 15                                  |                            |                                      |                                     |
| TOTAL | 833600                     | -                                    | 70234                               | 558740                     | -                                    | 4391                                | 81360                      | -                                    | 349.8                               |

SUSPENDED-SEDIMENT DISCHARGE, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

[illegible]



## ST. JOHN RIVER BASIN

27

01011000 ALLAGASH RIVER NEAR ALLAGASH, ME

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

DRAINAGE AREA.--1,250 mi<sup>2</sup> (3,240 km<sup>2</sup>), approximately, not including 249 mi<sup>2</sup> (645 km<sup>2</sup>) drained by Chamberlain Lake through Telos Canal.

## WATER DISCHARGE RECORDS

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

REVISED RECORDS.--WSP 726: Drainage area. WSP 1231: 1911.

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

REMARKS.--Records good except those for winter period and periods of no gage-height record, which are fair. Some regulation for recreational purposes since May 1969 by Churchill Lake, usable capacity, about 3.4 billion ft<sup>3</sup> (96.3 million m<sup>3</sup>), 58 mi (93 km) upstream.

AVERAGE DISCHARGE.--45 years (water years 1932-76), 1,910 ft<sup>3</sup>/s (54.09 m<sup>3</sup>/s), 20.75 in/yr (527 mm/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 29,400 ft<sup>3</sup>/s (833 m<sup>3</sup>/s) Apr. 29, 1973, gage height, 12.33 ft (3.758 m); maximum gage height, 14.43 ft (4.398 m) Apr. 3, 1976 (backwater from ice); minimum discharge, 87 ft<sup>3</sup>/s (2.46 m<sup>3</sup>/s) Sept. 11, 1960.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 18,000 ft<sup>3</sup>/s (510 m<sup>3</sup>/s) Apr. 4 (determined by hydrographic correlation with station 01011500); maximum gage height, 14.43 ft (4.398 m) Apr. 3 (backwater from ice); minimum daily discharge, 470 ft<sup>3</sup>/s (13.3 m<sup>3</sup>/s) Jan. 25-27.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976  
MEAN VALUES

| DAY               | OCT     | NOV   | DEC   | JAN   | FEB   | MAR       | APR    | MAY     | JUN       | JUL      | AUG    | SEP   |
|-------------------|---------|-------|-------|-------|-------|-----------|--------|---------|-----------|----------|--------|-------|
| 1                 | 715     | 803   | 1050  | 620   | 530   | 700       | 4700   | 9910    | 3500      | 1940     | 2200   | 2620  |
| 2                 | 679     | 818   | 1050  | 610   | 600   | 690       | 7500   | 10400   | 3300      | 2330     | 2350   | 2850  |
| 3                 | 642     | 803   | 1000  | 600   | 670   | 680       | 13500  | 11300   | 3000      | 2350     | 2400   | 2870  |
| 4                 | 603     | 792   | 980   | 600   | 750   | 680       | 16500  | 11400   | 2700      | 3200     | 2400   | 2650  |
| 5                 | 561     | 784   | 940   | 590   | 820   | 680       | 15000  | 10000   | 2400      | 3340     | 2300   | 2480  |
| 6                 | 538     | 742   | 900   | 590   | 950   | 675       | 12400  | 9100    | 2300      | 3000     | 2000   | 2480  |
| 7                 | 525     | 711   | 860   | 580   | 1070  | 670       | 10900  | 8400    | 2150      | 2570     | 2250   | 2420  |
| 8                 | 507     | 691   | 820   | 560   | 1070  | 660       | 9160   | 7700    | 2000      | 2280     | 2110   | 2350  |
| 9                 | 505     | 699   | 820   | 540   | 1060  | 640       | 7840   | 7200    | 1900      | 2380     | 1980   | 2250  |
| 10                | 494     | 692   | 840   | 540   | 1050  | 630       | 6970   | 6800    | 1750      | 2410     | 4530   | 2100  |
| 11                | 488     | 1010  | 840   | 530   | 1030  | 620       | 6400   | 6500    | 1900      | 2240     | 20100  | 1900  |
| 12                | 483     | 1440  | 820   | 520   | 1000  | 615       | 5570   | 6400    | 1900      | 2160     | 15700  | 1800  |
| 13                | 524     | 1440  | 800   | 510   | 990   | 610       | 5290   | 7200    | 1800      | 5180     | 11400  | 1700  |
| 14                | 576     | 1640  | 780   | 500   | 970   | 600       | 5010   | 7000    | 1750      | 7440     | 9150   | 1610  |
| 15                | 568     | 2020  | 760   | 500   | 950   | 590       | 4620   | 6300    | 1670      | 6540     | 9470   | 1490  |
| 16                | 565     | 2040  | 750   | 490   | 930   | 580       | 4470   | 5800    | 1600      | 5590     | 9020   | 1390  |
| 17                | 590     | 1870  | 740   | 490   | 900   | 575       | 4890   | 5500    | 1540      | 4960     | 8410   | 1300  |
| 18                | 631     | 1720  | 720   | 490   | 880   | 570       | 5940   | 5200    | 1480      | 4880     | 7060   | 1240  |
| 19                | 692     | 1590  | 710   | 480   | 860   | 570       | 7290   | 5100    | 1350      | 4380     | 6120   | 1500  |
| 20                | 766     | 1470  | 700   | 480   | 830   | 560       | 12300  | 7600    | 1270      | 3710     | 5350   | 1960  |
| 21                | 993     | 1390  | 680   | 480   | 810   | 570       | 16300  | 8000    | 1170      | 3230     | 4740   | 2050  |
| 22                | 1250    | 1300  | 670   | 475   | 790   | 610       | 16600  | 8300    | 1100      | 2870     | 4320   | 2160  |
| 23                | 1310    | 1200  | 660   | 475   | 770   | 650       | 16600  | 8200    | 1040      | 2550     | 3930   | 1990  |
| 24                | 1270    | 1150  | 650   | 475   | 760   | 750       | 16700  | 7600    | 1030      | 2470     | 3640   | 1870  |
| 25                | 1180    | 1100  | 640   | 470   | 740   | 900       | 14600  | 6800    | 1230      | 3130     | 3350   | 1730  |
| 26                | 1170    | 1050  | 640   | 470   | 730   | 1100      | 12600  | 5900    | 1550      | 2960     | 3130   | 1590  |
| 27                | 1170    | 1050  | 640   | 470   | 720   | 1400      | 11500  | 5300    | 1570      | 2670     | 3090   | 1850  |
| 28                | 1110    | 1000  | 640   | 475   | 710   | 1900      | 11100  | 4700    | 1530      | 2520     | 2950   | 2680  |
| 29                | 1040    | 1000  | 630   | 480   | 700   | 2600      | 10500  | 4200    | 1520      | 2400     | 2680   | 2600  |
| 30                | 962     | 1000  | 630   | 485   | ---   | 3200      | 10300  | 4000    | 1640      | 2300     | 3050   | 2350  |
| 31                | 859     | ---   | 620   | 500   | ---   | 3800      | ---    | 3800    | ---       | 2250     | 2860   | ---   |
| TOTAL             | 23966   | 35015 | 23980 | 16075 | 24640 | 30075     | 303050 | 221610  | 54640     | 102230   | 164040 | 61830 |
| MEAN              | 773     | 1167  | 774   | 519   | 850   | 970       | 10100  | 7149    | 1821      | 3298     | 5292   | 2061  |
| MAX               | 1310    | 2040  | 1050  | 620   | 1070  | 3800      | 16700  | 11400   | 3500      | 7440     | 20100  | 2870  |
| MIN               | 483     | 691   | 620   | 470   | 530   | 560       | 4470   | 3800    | 1030      | 1940     | 1980   | 1240  |
| CFSM              | .62     | .93   | .62   | .42   | .68   | .78       | 8.08   | 5.72    | 1.46      | 2.64     | 4.23   | 1.65  |
| IN.               | .71     | 1.04  | .71   | .48   | .73   | .90       | 9.02   | 6.60    | 1.63      | 3.04     | 4.88   | 1.84  |
| CAL YR 1975 TOTAL | 621029  |       |       | 1701  |       | MAX 14500 |        | MIN 270 | CFSM 1.36 | IN 18.48 |        |       |
| WTR YR 1976 TOTAL | 1061151 |       |       | 2899  |       | MAX 20100 |        | MIN 470 | CFSM 2.32 | IN 31.58 |        |       |

NOTE.--No gage-height record May 5 to Jun. 22.

## ST. JOHN RIVER BASIN

01011000 ALLAGASH RIVER NEAR ALLAGASH, ME--Continued

## WATER-QUALITY RECORDS

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

## PERIOD OF DAILY RECORD.--

SPECIFIC CONDUCTANCE: April 1975 to current year.

WATER TEMPERATURES: April 1975 to current year.

SUSPENDED SEDIMENT DISCHARGE: Current year.

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

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

## EXTREMES FOR PERIOD OF DAILY RECORD.--

SPECIFIC CONDUCTANCE: Maximum, 72 micromhos Jan. 10, 1976; minimum, 30 micromhos on many days during April 1976.

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

SEDIMENT CONCENTRATIONS: Current year.

SEDIMENT LOADS: Current year.

## EXTREMES FOR CURRENT YEAR.--

SPECIFIC CONDUCTANCE: Maximum, 72 micromhos Jan. 10; minimum, 30 micromhos on many days during April.

WATER TEMPERATURES: Maximum, 26.0°C June 24; minimum, 0.0°C on many days during winter periods.

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

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

## SPECIFIC CONDUCTANCE (MICROMHOS/CM AT 25 DEG. C), WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

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

SPECIFIC CONDUCTANCE (MICROMHOS/CM AT 25 DEG. C), WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

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

## TEMPERATURE (DEG. C) OF WATER, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

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

01011000 ALLAGASH RIVER NEAR ALLAGASH, ME--Continued

## TEMPERATURE (DEG. C) OF WATER, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

| DAY   | JUNE |      |      | JULY |      |      | AUGUST |      |      | SEPTEMBER |      |      |
|-------|------|------|------|------|------|------|--------|------|------|-----------|------|------|
|       | MAX  | MIN  | MEAN | MAX  | MIN  | MEAN | MAX    | MIN  | MEAN | MAX       | MIN  | MEAN |
| 1     | ---  | ---  | ---  | 19.0 | 16.0 | 17.0 | 19.0   | 17.0 | 18.5 | 16.5      | 15.5 | 15.5 |
| 2     | ---  | ---  | ---  | 17.0 | 15.5 | 16.5 | 19.5   | 16.5 | 18.0 | 16.5      | 14.5 | 15.5 |
| 3     | ---  | ---  | ---  | 17.0 | 16.5 | 16.5 | 20.0   | 16.5 | 18.5 | 16.0      | 14.0 | 15.5 |
| 4     | ---  | ---  | ---  | 19.0 | 16.0 | 17.5 | 21.0   | 17.0 | 19.0 | 16.0      | 15.0 | 15.5 |
| 5     | ---  | ---  | ---  | 20.0 | 17.5 | 19.0 | 20.0   | 19.0 | 19.5 | 16.5      | 15.5 | 16.0 |
| 6     | ---  | ---  | ---  | 21.5 | 18.5 | 20.0 | 20.0   | 18.0 | 19.0 | 16.0      | 15.0 | 15.5 |
| 7     | ---  | ---  | ---  | 22.0 | 19.5 | 21.0 | 19.5   | 16.5 | 18.0 | 15.0      | 14.0 | 14.5 |
| 8     | ---  | ---  | ---  | 21.0 | 20.0 | 20.5 | 18.0   | 17.0 | 17.5 | 15.0      | 13.5 | 14.0 |
| 9     | ---  | ---  | ---  | 21.5 | 19.5 | 20.0 | 19.0   | 17.5 | 18.0 | 16.0      | 13.0 | 14.5 |
| 10    | ---  | ---  | ---  | 22.5 | 19.0 | 21.0 | 19.0   | 15.5 | 17.5 | 16.5      | 14.0 | 15.5 |
| 11    | ---  | ---  | ---  | 21.5 | 20.0 | 20.5 | 16.5   | 15.0 | 16.0 | 16.0      | 15.0 | 15.5 |
| 12    | ---  | ---  | ---  | 20.0 | 18.5 | 19.5 | 17.5   | 16.0 | 16.5 | 16.0      | 14.5 | 15.5 |
| 13    | ---  | ---  | ---  | 18.0 | 16.0 | 16.5 | 19.0   | 17.0 | 18.0 | 17.0      | 14.0 | 15.5 |
| 14    | ---  | ---  | ---  | 16.0 | 15.5 | 15.5 | 18.5   | 17.0 | 17.5 | 18.5      | 15.5 | 17.0 |
| 15    | ---  | ---  | ---  | 17.5 | 15.5 | 16.5 | 17.0   | 16.0 | 16.5 | 17.5      | 16.0 | 17.0 |
| 16    | ---  | ---  | ---  | 19.0 | 16.0 | 17.5 | 17.0   | 16.0 | 16.5 | 16.0      | 14.5 | 15.0 |
| 17    | ---  | ---  | ---  | 19.0 | 18.0 | 18.5 | 17.5   | 16.0 | 17.0 | 17.0      | 14.0 | 15.5 |
| 18    | ---  | ---  | ---  | 18.5 | 17.0 | 18.0 | 17.5   | 16.0 | 16.5 | 17.0      | 16.0 | 16.5 |
| 19    | ---  | ---  | ---  | 19.5 | 16.5 | 18.0 | 18.5   | 16.0 | 17.0 | 17.0      | 16.0 | 16.5 |
| 20    | ---  | ---  | ---  | 21.0 | 19.0 | 20.0 | 19.5   | 17.0 | 18.0 | 16.0      | 14.5 | 15.5 |
| 21    | ---  | ---  | ---  | 20.5 | 19.5 | 20.0 | 21.0   | 18.5 | 19.5 | 15.0      | 14.0 | 14.5 |
| 22    | ---  | ---  | ---  | 20.0 | 17.5 | 19.0 | 22.0   | 19.5 | 21.0 | 15.0      | 13.0 | 14.0 |
| 23    | ---  | ---  | ---  | 20.5 | 17.5 | 19.5 | 21.0   | 20.0 | 20.5 | 14.5      | 13.5 | 14.0 |
| 24    | 26.0 | 23.5 | 24.5 | 20.5 | 19.0 | 19.5 | 20.0   | 18.0 | 19.5 | 13.5      | 12.0 | 13.0 |
| 25    | 23.0 | 20.5 | 22.0 | 19.0 | 17.0 | 17.5 | 20.0   | 18.5 | 19.5 | 12.5      | 11.0 | 12.0 |
| 26    | 20.0 | 16.5 | 18.0 | 18.5 | 15.5 | 17.0 | 19.5   | 18.5 | 19.0 | 12.0      | 10.5 | 11.5 |
| 27    | 18.0 | 16.0 | 16.5 | 19.5 | 17.0 | 18.5 | 20.5   | 19.0 | 20.0 | 12.0      | 11.0 | 11.5 |
| 28    | 19.5 | 16.0 | 18.0 | 19.0 | 17.0 | 18.0 | 21.5   | 20.0 | 20.5 | 11.5      | 10.5 | 11.0 |
| 29    | 20.5 | 18.5 | 19.5 | 20.0 | 16.5 | 18.5 | 21.0   | 20.0 | 20.5 | 10.5      | 10.0 | 10.5 |
| 30    | 20.0 | 18.0 | 19.0 | 21.0 | 18.0 | 19.5 | 20.0   | 18.5 | 18.0 | 12.0      | 10.0 | 10.5 |
| 31    | ---  | ---  | ---  | 20.0 | 19.0 | 19.5 | 17.0   | 15.0 | 16.0 | ---       | ---  | ---  |
| MONTH | ---  | ---  | ---  | 22.5 | 15.5 | 18.5 | 22.0   | 15.0 | 18.5 | 18.5      | 10.0 | 14.5 |
| YEAR  | 26.0 | 0.0  | 7.5  |      |      |      |        |      |      |           |      |      |

## SUSPENDED SEDIMENT DISCHARGE, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

| DAY   | OCTOBER              |                           |                               | NOVEMBER             |                           |                               | DECEMBER             |                           |                               |
|-------|----------------------|---------------------------|-------------------------------|----------------------|---------------------------|-------------------------------|----------------------|---------------------------|-------------------------------|
|       | MEAN DISCHARGE (CFS) | MEAN CONCENTRATION (MG/L) | SEDIMENT DISCHARGE (TONS/DAY) | MEAN DISCHARGE (CFS) | MEAN CONCENTRATION (MG/L) | SEDIMENT DISCHARGE (TONS/DAY) | MEAN DISCHARGE (CFS) | MEAN CONCENTRATION (MG/L) | SEDIMENT DISCHARGE (TONS/DAY) |
| 1     | 715                  | 1                         | 1.9                           | 803                  | 1                         | 2.2                           | 1050                 | 1                         | 2.8                           |
| 2     | 679                  | 1                         | 1.8                           | 818                  | 1                         | 2.2                           | 1050                 | 1                         | 2.8                           |
| 3     | 642                  | 1                         | 1.7                           | 803                  | 1                         | 2.2                           | 1000                 | 1                         | 2.7                           |
| 4     | 603                  | 1                         | 1.6                           | 792                  | 1                         | 2.1                           | 980                  | 1                         | 2.6                           |
| 5     | 561                  | 1                         | 1.5                           | 784                  | 1                         | 2.1                           | 940                  | 1                         | 2.5                           |
| 6     | 538                  | 1                         | 1.4                           | 742                  | 1                         | 2.0                           | 900                  | 1                         | 2.4                           |
| 7     | 525                  | 1                         | 1.4                           | 711                  | 1                         | 1.9                           | 860                  | 1                         | 2.3                           |
| 8     | 507                  | 1                         | 1.4                           | 691                  | 1                         | 1.9                           | 820                  | 1                         | 2.2                           |
| 9     | 505                  | 1                         | 1.4                           | 699                  | 1                         | 1.9                           | 820                  | 1                         | 2.2                           |
| 10    | 494                  | 1                         | 1.3                           | 692                  | 1                         | 1.9                           | 840                  | 1                         | 2.3                           |
| 11    | 488                  | 1                         | 1.3                           | 1010                 | 1                         | 2.7                           | 840                  | 1                         | 2.3                           |
| 12    | 483                  | 1                         | 1.3                           | 1440                 | 2                         | 7.8                           | 820                  | 1                         | 2.2                           |
| 13    | 524                  | 1                         | 1.4                           | 1440                 | 3                         | 12                            | 800                  | 1                         | 2.2                           |
| 14    | 576                  | 2                         | 3.1                           | 1640                 | 4                         | 18                            | 780                  | 1                         | 2.1                           |
| 15    | 568                  | 3                         | 4.6                           | 2020                 | 5                         | 27                            | 760                  | 1                         | 2.0                           |
| 16    | 565                  | 2                         | 3.0                           | 2040                 | 3                         | 16                            | 750                  | 1                         | 2.0                           |
| 17    | 590                  | 1                         | 1.6                           | 1870                 | 3                         | 15                            | 740                  | 1                         | 2.0                           |
| 18    | 631                  | 1                         | 1.7                           | 1720                 | 2                         | 9.3                           | 720                  | 1                         | 1.9                           |
| 19    | 692                  | 1                         | 1.9                           | 1590                 | 1                         | 4.3                           | 710                  | 1                         | 1.9                           |
| 20    | 766                  | 2                         | 4.1                           | 1470                 | 1                         | 4.0                           | 700                  | 1                         | 1.9                           |
| 21    | 993                  | 3                         | 8.0                           | 1390                 | 1                         | 3.8                           | 680                  | 1                         | 1.8                           |
| 22    | 1250                 | 4                         | 14                            | 1300                 | 1                         | 3.5                           | 670                  | 1                         | 1.8                           |
| 23    | 1310                 | 5                         | 18                            | 1200                 | 1                         | 3.2                           | 660                  | 1                         | 1.8                           |
| 24    | 1270                 | 2                         | 6.8                           | 1150                 | 1                         | 3.1                           | 650                  | 1                         | 1.8                           |
| 25    | 1180                 | 1                         | 3.2                           | 1100                 | 1                         | 3.0                           | 640                  | 1                         | 1.7                           |
| 26    | 1170                 | 2                         | 6.3                           | 1050                 | 1                         | 2.8                           | 640                  | 1                         | 1.7                           |
| 27    | 1170                 | 3                         | 9.5                           | 1050                 | 1                         | 2.8                           | 640                  | 1                         | 1.7                           |
| 28    | 1110                 | 3                         | 9.0                           | 1000                 | 1                         | 2.7                           | 640                  | 1                         | 1.7                           |
| 29    | 1040                 | 3                         | 8.4                           | 1000                 | 1                         | 2.7                           | 630                  | 1                         | 1.7                           |
| 30    | 962                  | 2                         | 5.2                           | 1000                 | 1                         | 2.7                           | 630                  | 1                         | 1.7                           |
| 31    | 859                  | 1                         | 2.3                           |                      |                           |                               | 620                  | 1                         | 1.7                           |
| TOTAL | 23966                |                           | 130.1                         | 35015                | -                         | 166.8                         | 23980                | -                         | 66.1                          |



01011000 ALLAGASH RIVER NEAR ALLAGASH, ME--Continued

## SUSPENDED-SEDIMENT DISCHARGE, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

| DAY   | JANUARY                    |                                      |                                     | FEBRUARY                   |                                      |                                     | MARCH                      |                                      |                                     |
|-------|----------------------------|--------------------------------------|-------------------------------------|----------------------------|--------------------------------------|-------------------------------------|----------------------------|--------------------------------------|-------------------------------------|
|       | MEAN<br>DISCHARGE<br>(CFS) | MEAN<br>CONCEN-<br>TRATION<br>(MG/L) | SEDIMENT<br>DISCHARGE<br>(TONS/DAY) | MEAN<br>DISCHARGE<br>(CFS) | MEAN<br>CONCEN-<br>TRATION<br>(MG/L) | SEDIMENT<br>DISCHARGE<br>(TONS/DAY) | MEAN<br>DISCHARGE<br>(CFS) | MEAN<br>CONCEN-<br>TRATION<br>(MG/L) | SEDIMENT<br>DISCHARGE<br>(TONS/DAY) |
| 1     | 620                        | 1                                    | 1.7                                 | 530                        | 1                                    | 1.4                                 | 700                        | 1                                    | 1.9                                 |
| 2     | 610                        | 1                                    | 1.6                                 | 600                        | 1                                    | 1.6                                 | 690                        | 1                                    | 1.9                                 |
| 3     | 600                        | 1                                    | 1.6                                 | 670                        | 1                                    | 1.8                                 | 680                        | 1                                    | 1.8                                 |
| 4     | 600                        | 1                                    | 1.6                                 | 750                        | 1                                    | 2.0                                 | 680                        | 1                                    | 1.8                                 |
| 5     | 590                        | 1                                    | 1.6                                 | 820                        | 1                                    | 2.2                                 | 680                        | 1                                    | 1.8                                 |
| 6     | 590                        | 1                                    | 1.6                                 | 950                        | 1                                    | 2.6                                 | 675                        | 1                                    | 1.8                                 |
| 7     | 580                        | 1                                    | 1.6                                 | 1070                       | 1                                    | 2.9                                 | 670                        | 1                                    | 1.8                                 |
| 8     | 560                        | 1                                    | 1.5                                 | 1070                       | 1                                    | 2.9                                 | 660                        | 1                                    | 1.8                                 |
| 9     | 540                        | 1                                    | 1.4                                 | 1060                       | 1                                    | 2.9                                 | 640                        | 1                                    | 1.7                                 |
| 10    | 540                        | 1                                    | 1.4                                 | 1050                       | 1                                    | 2.8                                 | 630                        | 1                                    | 1.7                                 |
| 11    | 530                        | 1                                    | 1.4                                 | 1030                       | 1                                    | 2.8                                 | 620                        | 1                                    | 1.7                                 |
| 12    | 520                        | 1                                    | 1.4                                 | 1000                       | 1                                    | 2.7                                 | 615                        | 1                                    | 1.7                                 |
| 13    | 510                        | 1                                    | 1.4                                 | 990                        | 1                                    | 2.7                                 | 610                        | 1                                    | 1.6                                 |
| 14    | 500                        | 1                                    | 1.4                                 | 970                        | 1                                    | 2.6                                 | 600                        | 1                                    | 1.6                                 |
| 15    | 500                        | 1                                    | 1.4                                 | 950                        | 1                                    | 2.6                                 | 590                        | 1                                    | 1.6                                 |
| 16    | 490                        | 1                                    | 1.3                                 | 930                        | 1                                    | 2.5                                 | 580                        | 1                                    | 1.6                                 |
| 17    | 490                        | 1                                    | 1.3                                 | 900                        | 1                                    | 2.4                                 | 575                        | 1                                    | 1.6                                 |
| 18    | 490                        | 1                                    | 1.3                                 | 880                        | 1                                    | 2.4                                 | 570                        | 1                                    | 1.5                                 |
| 19    | 480                        | 1                                    | 1.3                                 | 860                        | 1                                    | 2.3                                 | 570                        | 1                                    | 1.5                                 |
| 20    | 480                        | 1                                    | 1.3                                 | 830                        | 1                                    | 2.2                                 | 560                        | 1                                    | 1.5                                 |
| 21    | 480                        | 1                                    | 1.3                                 | 810                        | 1                                    | 2.2                                 | 570                        | 1                                    | 1.5                                 |
| 22    | 475                        | 1                                    | 1.3                                 | 790                        | 1                                    | 2.1                                 | 610                        | 1                                    | 1.6                                 |
| 23    | 475                        | 1                                    | 1.3                                 | 770                        | 1                                    | 2.1                                 | 650                        | 1                                    | 1.8                                 |
| 24    | 475                        | 1                                    | 1.3                                 | 760                        | 1                                    | 2.0                                 | 750                        | 1                                    | 2.0                                 |
| 25    | 470                        | 1                                    | 1.3                                 | 740                        | 1                                    | 2.0                                 | 900                        | 1                                    | 2.4                                 |
| 26    | 470                        | 1                                    | 1.3                                 | 730                        | 1                                    | 2.0                                 | 1100                       | 2                                    | 5.9                                 |
| 27    | 470                        | 1                                    | 1.3                                 | 720                        | 1                                    | 1.9                                 | 1400                       | 3                                    | 11                                  |
| 28    | 475                        | 1                                    | 1.3                                 | 710                        | 1                                    | 1.9                                 | 1900                       | 4                                    | 20                                  |
| 29    | 480                        | 1                                    | 1.3                                 | 700                        | 1                                    | 1.9                                 | 2600                       | 5                                    | 35                                  |
| 30    | 485                        | 1                                    | 1.3                                 |                            |                                      |                                     | 3200                       | 7                                    | 60                                  |
| 31    | 500                        | 1                                    | 1.4                                 |                            |                                      |                                     | 3800                       | 10                                   | 103                                 |
| TOTAL | 16075                      | -                                    | 43.5                                | 24640                      | -                                    | 66.4                                | 30075                      |                                      | 278.1                               |

| DAY   | APRIL                      |                                      |                                     | MAY                        |                                      |                                     | JUNE                       |                                      |                                     |
|-------|----------------------------|--------------------------------------|-------------------------------------|----------------------------|--------------------------------------|-------------------------------------|----------------------------|--------------------------------------|-------------------------------------|
|       | MEAN<br>DISCHARGE<br>(CFS) | MEAN<br>CONCEN-<br>TRATION<br>(MG/L) | SEDIMENT<br>DISCHARGE<br>(TONS/DAY) | MEAN<br>DISCHARGE<br>(CFS) | MEAN<br>CONCEN-<br>TRATION<br>(MG/L) | SEDIMENT<br>DISCHARGE<br>(TONS/DAY) | MEAN<br>DISCHARGE<br>(CFS) | MEAN<br>CONCEN-<br>TRATION<br>(MG/L) | SEDIMENT<br>DISCHARGE<br>(TONS/DAY) |
| 1     | 4700                       | 20                                   | 254                                 | 9910                       | 2                                    | 54                                  | 3500                       | 2                                    | 19                                  |
| 2     | 7500                       | 40                                   | 810                                 | 10400                      | 2                                    | 56                                  | 3300                       | 2                                    | 18                                  |
| 3     | 13500                      | 160                                  | 5830                                | 11300                      | 2                                    | 61                                  | 3000                       | 2                                    | 16                                  |
| 4     | 16500                      | 50                                   | 2230                                | 11400                      | 2                                    | 62                                  | 2700                       | 5                                    | 36                                  |
| 5     | 15000                      | 12                                   | 486                                 | 10000                      | 2                                    | 54                                  | 2400                       | 5                                    | 32                                  |
| 6     | 12400                      | 16                                   | 536                                 | 9100                       | 2                                    | 49                                  | 2300                       | 5                                    | 31                                  |
| 7     | 10900                      | 8                                    | 235                                 | 8400                       | 2                                    | 45                                  | 2150                       | 2                                    | 12                                  |
| 8     | 9160                       | 5                                    | 124                                 | 7700                       | 2                                    | 42                                  | 2000                       | 2                                    | 11                                  |
| 9     | 7840                       | 6                                    | 127                                 | 7200                       | 2                                    | 39                                  | 1900                       | 2                                    | 10                                  |
| 10    | 6970                       | 16                                   | 301                                 | 6800                       | 2                                    | 37                                  | 1750                       | 2                                    | 9.4                                 |
| 11    | 6400                       | 14                                   | 242                                 | 6500                       | 2                                    | 35                                  | 1900                       | 4                                    | 20                                  |
| 12    | 5570                       | 12                                   | 180                                 | 6400                       | 4                                    | 69                                  | 1900                       | 6                                    | 31                                  |
| 13    | 5290                       | 12                                   | 171                                 | 7200                       | 2                                    | 39                                  | 1800                       | 5                                    | 24                                  |
| 14    | 5010                       | 12                                   | 162                                 | 7000                       | 1                                    | 19                                  | 1750                       | 2                                    | 9.4                                 |
| 15    | 4620                       | 12                                   | 150                                 | 6300                       | 2                                    | 34                                  | 1670                       | 2                                    | 9.0                                 |
| 16    | 4470                       | 12                                   | 145                                 | 5800                       | 2                                    | 31                                  | 1600                       | 2                                    | 8.6                                 |
| 17    | 4890                       | 14                                   | 185                                 | 5500                       | 2                                    | 30                                  | 1540                       | 2                                    | 8.3                                 |
| 18    | 5940                       | 12                                   | 192                                 | 5200                       | 2                                    | 28                                  | 1480                       | 2                                    | 8.0                                 |
| 19    | 7290                       | 59                                   | 1170                                | 5100                       | 2                                    | 28                                  | 1350                       | 2                                    | 7.3                                 |
| 20    | 12300                      | 140                                  | 4650                                | 7600                       | 4                                    | 82                                  | 1270                       | 2                                    | 6.8                                 |
| 21    | 16300                      | 59                                   | 2610                                | 8000                       | 20                                   | 432                                 | 1170                       | 3                                    | 9.5                                 |
| 22    | 16600                      | 14                                   | 627                                 | 8300                       | 10                                   | 224                                 | 1100                       | 4                                    | 12                                  |
| 23    | 16600                      | 10                                   | 448                                 | 8200                       | 4                                    | 88                                  | 1040                       | 4                                    | 11                                  |
| 24    | 16700                      | 8                                    | 361                                 | 7600                       | 3                                    | 62                                  | 1030                       | 3                                    | 8.3                                 |
| 25    | 14600                      | 8                                    | 315                                 | 6800                       | 2                                    | 37                                  | 1230                       | 3                                    | 10                                  |
| 26    | 12600                      | 8                                    | 272                                 | 5900                       | 2                                    | 32                                  | 1550                       | 3                                    | 12                                  |
| 27    | 11500                      | 7                                    | 217                                 | 5300                       | 2                                    | 29                                  | 1570                       | 3                                    | 13                                  |
| 28    | 11100                      | 5                                    | 150                                 | 4700                       | 2                                    | 25                                  | 1530                       | 2                                    | 8.3                                 |
| 29    | 10500                      | 3                                    | 85                                  | 4200                       | 2                                    | 23                                  | 1520                       | 2                                    | 8.2                                 |
| 30    | 10300                      | 3                                    | 83                                  | 4000                       | 2                                    | 22                                  | 1640                       | 2                                    | 8.8                                 |
| 31    |                            |                                      |                                     | 3800                       | 2                                    | 20                                  |                            |                                      |                                     |
| TOTAL | 303050                     | -                                    | 33759                               | 221610                     | -                                    | 1888                                | 54640                      | -                                    | 427.9                               |

01011000 ALLAGASH RIVER NEAR ALLAGASH, ME--Continued

## SUSPENDED-SEDIMENT DISCHARGE, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

| DAY   | JULY                       |                                      |                                     | AUGUST                     |                                      |                                     | SEPTEMBER                  |                                      |                                     |
|-------|----------------------------|--------------------------------------|-------------------------------------|----------------------------|--------------------------------------|-------------------------------------|----------------------------|--------------------------------------|-------------------------------------|
|       | MEAN<br>DISCHARGE<br>(CFS) | MEAN<br>CONCEN-<br>TRATION<br>(MG/L) | SEDIMENT<br>DISCHARGE<br>(TONS/DAY) | MEAN<br>DISCHARGE<br>(CFS) | MEAN<br>CONCEN-<br>TRATION<br>(MG/L) | SEDIMENT<br>DISCHARGE<br>(TONS/DAY) | MEAN<br>DISCHARGE<br>(CFS) | MEAN<br>CONCEN-<br>TRATION<br>(MG/L) | SEDIMENT<br>DISCHARGE<br>(TONS/DAY) |
| 1     | 1940                       | 6                                    | 31                                  | 2200                       | 1                                    | 5.9                                 | 2620                       | 3                                    | 21                                  |
| 2     | 2330                       | 6                                    | 38                                  | 2350                       | 1                                    | 6.3                                 | 2850                       | 3                                    | 23                                  |
| 3     | 2350                       | 8                                    | 51                                  | 2400                       | 5                                    | 32                                  | 2870                       | 3                                    | 23                                  |
| 4     | 3200                       | 6                                    | 52                                  | 2400                       | 3                                    | 19                                  | 2650                       | 3                                    | 21                                  |
| 5     | 3340                       | 4                                    | 36                                  | 2300                       | 2                                    | 12                                  | 2480                       | 4                                    | 27                                  |
| 6     | 3000                       | 3                                    | 24                                  | 2000                       | 2                                    | 11                                  | 2480                       | 6                                    | 40                                  |
| 7     | 2570                       | 2                                    | 14                                  | 2250                       | 2                                    | 12                                  | 2420                       | 3                                    | 20                                  |
| 8     | 2280                       | 1                                    | 6.2                                 | 2110                       | 2                                    | 11                                  | 2350                       | 1                                    | 6.3                                 |
| 9     | 2380                       | 1                                    | 6.4                                 | 1980                       | 4                                    | 21                                  | 2250                       | 1                                    | 6.1                                 |
| 10    | 2410                       | 1                                    | 6.5                                 | 4530                       | 25                                   | 304                                 | 2100                       | 1                                    | 5.7                                 |
| 11    | 2240                       | 1                                    | 6.0                                 | 20100                      | 73                                   | 3960                                | 1900                       | 1                                    | 5.1                                 |
| 12    | 2160                       | 2                                    | 12                                  | 15700                      | 12                                   | 513                                 | 1800                       | 1                                    | 4.9                                 |
| 13    | 5180                       | 4                                    | 56                                  | 11400                      | 6                                    | 185                                 | 1700                       | 1                                    | 4.6                                 |
| 14    | 7440                       | 6                                    | 120                                 | 9150                       | 4                                    | 99                                  | 1610                       | 1                                    | 4.3                                 |
| 15    | 6540                       | 10                                   | 176                                 | 9470                       | 2                                    | 51                                  | 1490                       | 1                                    | 4.0                                 |
| 16    | 5590                       | 15                                   | 226                                 | 9020                       | 1                                    | 24                                  | 1390                       | 1                                    | 3.8                                 |
| 17    | 4960                       | 4                                    | 54                                  | 8410                       | 1                                    | 23                                  | 1300                       | 1                                    | 3.5                                 |
| 18    | 4880                       | 4                                    | 53                                  | 7060                       | 1                                    | 19                                  | 1240                       | 1                                    | 3.3                                 |
| 19    | 4380                       | 2                                    | 24                                  | 6120                       | 1                                    | 16                                  | 1500                       | 10                                   | 40                                  |
| 20    | 3710                       | 2                                    | 20                                  | 5350                       | 1                                    | 14                                  | 1960                       | 14                                   | 74                                  |
| 21    | 3230                       | 2                                    | 17                                  | 4740                       | 1                                    | 13                                  | 2050                       | 8                                    | 44                                  |
| 22    | 2870                       | 2                                    | 15                                  | 4320                       | 1                                    | 12                                  | 2160                       | 4                                    | 23                                  |
| 23    | 2550                       | 8                                    | 55                                  | 3930                       | 1                                    | 11                                  | 1990                       | 4                                    | 21                                  |
| 24    | 2470                       | 12                                   | 80                                  | 3640                       | 1                                    | 10                                  | 1870                       | 4                                    | 20                                  |
| 25    | 3130                       | 9                                    | 76                                  | 3350                       | 1                                    | 9.0                                 | 1730                       | 4                                    | 19                                  |
| 26    | 2960                       | 7                                    | 56                                  | 3130                       | 2                                    | 17                                  | 1590                       | 3                                    | 13                                  |
| 27    | 2670                       | 1                                    | 7.2                                 | 3090                       | 2                                    | 17                                  | 1850                       | 1                                    | 5.0                                 |
| 28    | 2520                       | 1                                    | 6.8                                 | 2950                       | 2                                    | 16                                  | 2680                       | 1                                    | 7.2                                 |
| 29    | 2400                       | 1                                    | 6.5                                 | 2680                       | 2                                    | 14                                  | 2600                       | 2                                    | 14                                  |
| 30    | 2300                       | 1                                    | 6.2                                 | 3050                       | 4                                    | 33                                  | 2350                       | 3                                    | 19                                  |
| 31    | 2250                       | 1                                    | 6.1                                 | 2860                       | 5                                    | 23                                  |                            |                                      |                                     |
| TOTAL | 102230                     | -                                    | 1343.9                              | 164040                     |                                      | 5513.2                              | 61830                      | -                                    | 525.8                               |

TOTAL DISCHARGE FOR YEAR (CFS-DAYS)

1061151.0

TOTAL SUSPENDED-SEDIMENT DISCHARGE FOR YEAR (TONS)

44208.8

## ST. JOHN RIVER BASIN

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 mi<sup>2</sup> (1,347 km<sup>2</sup>).

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

REVISED RECORDS.--WSP 1621: Drainage area.

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

REMARKS.--Records excellent.

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

AVERAGE DISCHARGE.--25 years, 881 ft<sup>3</sup>/s (24.9 m<sup>3</sup>/s), 23.01 in/yr (584 mm/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 13,000 ft<sup>3</sup>/s (368 m<sup>3</sup>/s) May 12, 1969, gage height, 14.01 ft (4.270 m); minimum, 68 ft<sup>3</sup>/s (1.93 m<sup>3</sup>/s) Sept. 11, 12, 1960, Oct. 3, 1968.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 8,000 ft<sup>3</sup>/s (227 m<sup>3</sup>/s) Apr. 5, gage height, 10.88 ft (3.316 m); minimum, 190 ft<sup>3</sup>/s (5.38 m<sup>3</sup>/s) Jan. 15, gage height, 2.55 ft (0.777 m).

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976  
MEAN VALUES

| DAY         | OCT   | NOV    | DEC  | JAN  | FEB  | MAR   | APR    | MAY    | JUN   | JUL   | AUG   | SEP   |
|-------------|-------|--------|------|------|------|-------|--------|--------|-------|-------|-------|-------|
| 1           | 232   | 273    | 406  | 262  | 205  | 274   | 1750   | 4320   | 1960  | 405   | 480   | 665   |
| 2           | 238   | 270    | 390  | 252  | 232  | 272   | 2240   | 4390   | 1720  | 425   | 469   | 659   |
| 3           | 241   | 268    | 382  | 240  | 245  | 270   | 3410   | 4770   | 1550  | 462   | 444   | 637   |
| 4           | 239   | 263    | 377  | 236  | 263  | 270   | 5900   | 5300   | 1380  | 490   | 416   | 618   |
| 5           | 236   | 259    | 361  | 235  | 285  | 268   | 7700   | 5370   | 1260  | 508   | 398   | 606   |
| 6           | 233   | 260    | 354  | 225  | 316  | 267   | 7550   | 5070   | 1140  | 509   | 404   | 571   |
| 7           | 243   | 259    | 351  | 218  | 344  | 260   | 6390   | 4510   | 1030  | 491   | 388   | 568   |
| 8           | 231   | 258    | 339  | 218  | 369  | 260   | 5530   | 4060   | 961   | 466   | 370   | 553   |
| 9           | 228   | 260    | 317  | 209  | 398  | 254   | 4780   | 3660   | 888   | 435   | 352   | 536   |
| 10          | 220   | 258    | 310  | 204  | 396  | 248   | 4090   | 3340   | 818   | 404   | 489   | 514   |
| 11          | 212   | 283    | 319  | 199  | 430  | 253   | 3460   | 3050   | 764   | 369   | 1620  | 496   |
| 12          | 206   | 299    | 316  | 203  | 432  | 249   | 2970   | 2890   | 770   | 360   | 3200  | 487   |
| 13          | 202   | 345    | 306  | 201  | 428  | 253   | 2580   | 2950   | 744   | 442   | 3820  | 469   |
| 14          | 197   | 405    | 299  | 202  | 423  | 252   | 2300   | 3290   | 740   | 565   | 3350  | 462   |
| 15          | 187   | 477    | 288  | 196  | 423  | 247   | 2060   | 3550   | 728   | 773   | 2780  | 446   |
| 16          | 185   | 597    | 291  | 199  | 411  | 243   | 1890   | 3410   | 709   | 976   | 2480  | 433   |
| 17          | 184   | 734    | 291  | 201  | 402  | 251   | 1780   | 3140   | 704   | 1050  | 2470  | 423   |
| 18          | 183   | 815    | 300  | 198  | 394  | 248   | 1880   | 2870   | 687   | 1040  | 2460  | 413   |
| 19          | 180   | 829    | 311  | 198  | 381  | 235   | 2130   | 2690   | 662   | 985   | 2270  | 426   |
| 20          | 184   | 805    | 316  | 196  | 369  | 234   | 2740   | 2870   | 633   | 917   | 1990  | 456   |
| 21          | 188   | 759    | 315  | 198  | 356  | 230   | 3760   | 3340   | 626   | 850   | 1730  | 590   |
| 22          | 198   | 728    | 319  | 197  | 352  | 251   | 4930   | 3740   | 580   | 762   | 1510  | 726   |
| 23          | 207   | 680    | 317  | 200  | 332  | 260   | 5660   | 4140   | 535   | 695   | 1330  | 830   |
| 24          | 222   | 639    | 306  | 198  | 312  | 285   | 6060   | 4520   | 503   | 657   | 1180  | 864   |
| 25          | 239   | 598    | 295  | 196  | 304  | 334   | 6220   | 4640   | 475   | 654   | 1040  | 843   |
| 26          | 267   | 558    | 284  | 202  | 301  | 407   | 6000   | 4310   | 448   | 617   | 932   | 800   |
| 27          | 269   | 511    | 284  | 197  | 288  | 496   | 5490   | 3800   | 420   | 574   | 837   | 783   |
| 28          | 271   | 474    | 286  | 202  | 278  | 656   | 4960   | 3300   | 394   | 543   | 764   | 766   |
| 29          | 275   | 445    | 277  | 204  | 275  | 894   | 4590   | 2820   | 380   | 535   | 723   | 753   |
| 30          | 283   | 420    | 265  | 204  | ---  | 1190  | 4410   | 2470   | 382   | 509   | 686   | 753   |
| 31          | 279   | ---    | 258  | 203  | ---  | 1460  | ---    | 2190   | ---   | 490   | 666   | ---   |
| TOTAL       | 6959  | 14029  | 9830 | 6493 | 9944 | 11571 | 125210 | 114770 | 24591 | 18958 | 42048 | 18146 |
| MEAN        | 224   | 468    | 317  | 209  | 343  | 373   | 4174   | 3702   | 820   | 612   | 1356  | 605   |
| MAX         | 283   | 829    | 406  | 262  | 432  | 1460  | 7700   | 5370   | 1960  | 1050  | 3820  | 864   |
| MIN         | 180   | 258    | 258  | 196  | 205  | 230   | 1750   | 2190   | 380   | 360   | 352   | 413   |
| CFSM        | .43   | .90    | .61  | .40  | .66  | .72   | 8.03   | 7.12   | 1.58  | 1.18  | 2.61  | 1.16  |
| IN.         | .50   | 1.00   | .70  | .46  | .71  | .83   | 8.96   | 8.21   | 1.76  | 1.36  | 3.01  | 1.30  |
| CAL YR 1975 | TOTAL | 313414 | MEAN | 859  | MAX  | 9110  | MIN    | 130    | CFSM  | 1.65  | IN    | 22.42 |
| WTR YR 1976 | TOTAL | 402549 | MEAN | 1100 | MAX  | 7700  | MIN    | 180    | CFSM  | 2.12  | IN    | 28.80 |

01013500 FISH RIVER NEAR FORT KENT, ME

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

DRAINAGE AREA.--871 mi<sup>2</sup> (2,256 km<sup>2</sup>).

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

REVISED RECORDS.--WSP 1001: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 511.38 ft (155.869 m) 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.

REMARKS.--Records good except those for winter period, which are fair. Large lake area above station has not yet been developed for storage.

AVERAGE DISCHARGE.--52 years (water years 1904-8, 1930-76), 1,393 ft<sup>3</sup>/s (39.45 m<sup>3</sup>/s), 21.72 in/yr (552 mm/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 15,800 ft<sup>3</sup>/s (447 m<sup>3</sup>/s) Apr. 30, 1973, gage height, 12.43 ft (3.789 m); minimum, 34 ft<sup>3</sup>/s (0.963 m<sup>3</sup>/s) Aug. 29, 1968.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 8,740 ft<sup>3</sup>/s (248 m<sup>3</sup>/s) Apr. 24, gage height, 8.92 ft (2.719 m); minimum, 117 ft<sup>3</sup>/s (3.31 m<sup>3</sup>/s) Oct. 15, gage height, 2.30 ft (0.701 m).

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976  
MEAN VALUES

| DAY         | OCT   | NOV    | DEC   | JAN   | FEB   | MAR   | APR    | MAY    | JUN   | JUL   | AUG   | SEP   |
|-------------|-------|--------|-------|-------|-------|-------|--------|--------|-------|-------|-------|-------|
| 1           | 171   | 166    | 452   | 570   | 465   | 690   | 1990   | 7640   | 3630  | 777   | 1690  | 1670  |
| 2           | 169   | 169    | 451   | 560   | 500   | 680   | 3620   | 7720   | 3440  | 798   | 1650  | 1630  |
| 3           | 161   | 168    | 447   | 560   | 520   | 690   | 5530   | 7700   | 3220  | 779   | 1570  | 1560  |
| 4           | 154   | 168    | 440   | 550   | 580   | 690   | 7030   | 7610   | 3010  | 806   | 1490  | 1510  |
| 5           | 147   | 168    | 440   | 540   | 620   | 680   | 7580   | 7290   | 2810  | 832   | 1410  | 1450  |
| 6           | 148   | 171    | 435   | 530   | 660   | 670   | 7770   | 6870   | 2620  | 851   | 1410  | 1430  |
| 7           | 137   | 174    | 430   | 520   | 700   | 660   | 7780   | 6510   | 2440  | 856   | 1370  | 1370  |
| 8           | 133   | 176    | 420   | 500   | 760   | 640   | 7560   | 6210   | 2250  | 877   | 1310  | 1320  |
| 9           | 127   | 183    | 420   | 485   | 810   | 630   | 7260   | 5870   | 2090  | 926   | 1290  | 1270  |
| 10          | 124   | 186    | 410   | 470   | 880   | 620   | 6930   | 5540   | 1960  | 908   | 1890  | 1220  |
| 11          | 123   | 247    | 410   | 455   | 920   | 610   | 6620   | 5270   | 1830  | 891   | 3710  | 1190  |
| 12          | 121   | 244    | 405   | 440   | 960   | 600   | 6180   | 5100   | 1790  | 965   | 3660  | 1160  |
| 13          | 126   | 257    | 400   | 435   | 950   | 590   | 5790   | 5290   | 1710  | 1950  | 3590  | 1110  |
| 14          | 123   | 291    | 400   | 425   | 950   | 580   | 5430   | 5130   | 1640  | 2270  | 3540  | 1060  |
| 15          | 121   | 335    | 400   | 420   | 930   | 570   | 5080   | 4950   | 1550  | 2510  | 3580  | 999   |
| 16          | 122   | 338    | 410   | 415   | 900   | 560   | 4840   | 4730   | 1480  | 2690  | 3900  | 945   |
| 17          | 122   | 340    | 425   | 410   | 880   | 550   | 4780   | 4500   | 1410  | 2810  | 3890  | 897   |
| 18          | 124   | 347    | 470   | 400   | 850   | 540   | 4890   | 4240   | 1320  | 2920  | 3810  | 851   |
| 19          | 128   | 342    | 515   | 400   | 830   | 530   | 5050   | 4160   | 1260  | 2900  | 3680  | 868   |
| 20          | 134   | 349    | 545   | 395   | 800   | 520   | 5730   | 4370   | 1200  | 2850  | 3500  | 851   |
| 21          | 156   | 355    | 620   | 390   | 780   | 520   | 6770   | 4540   | 1160  | 2740  | 3310  | 983   |
| 22          | 160   | 403    | 640   | 390   | 770   | 530   | 7470   | 4670   | 1090  | 2600  | 3120  | 1000  |
| 23          | 158   | 407    | 640   | 385   | 750   | 570   | 8090   | 5250   | 1020  | 2460  | 2910  | 1010  |
| 24          | 160   | 395    | 640   | 385   | 730   | 650   | 8640   | 5380   | 960   | 2400  | 2710  | 1010  |
| 25          | 163   | 390    | 635   | 380   | 720   | 720   | 8650   | 5350   | 910   | 2380  | 2510  | 980   |
| 26          | 178   | 382    | 620   | 380   | 710   | 800   | 8450   | 5200   | 862   | 2270  | 2340  | 955   |
| 27          | 180   | 382    | 620   | 385   | 700   | 980   | 8430   | 4950   | 816   | 2190  | 2190  | 1060  |
| 28          | 180   | 427    | 610   | 390   | 700   | 1130  | 8210   | 4690   | 772   | 2100  | 2040  | 1110  |
| 29          | 178   | 431    | 590   | 395   | 690   | 1300  | 7990   | 4430   | 744   | 1960  | 1960  | 1140  |
| 30          | 166   | 434    | 580   | 400   | ---   | 1410  | 7840   | 4140   | 739   | 1850  | 1880  | 1130  |
| 31          | 158   | ---    | 580   | 425   | ---   | 1610  | ---    | 3870   | ---   | 1770  | 1740  | ---   |
| TOTAL       | 4552  | 8825   | 15500 | 13785 | 22015 | 22520 | 197980 | 169170 | 51733 | 55886 | 78650 | 34739 |
| MEAN        | 147   | 294    | 500   | 445   | 759   | 726   | 6599   | 5457   | 1724  | 1803  | 2537  | 1158  |
| MAX         | 180   | 434    | 640   | 570   | 960   | 1610  | 8650   | 7720   | 3630  | 2920  | 3900  | 1670  |
| MIN         | 121   | 166    | 400   | 380   | 465   | 520   | 1990   | 3870   | 739   | 777   | 1290  | 851   |
| CFSM        | .17   | .34    | .57   | .51   | .87   | .83   | 7.58   | 6.27   | 1.98  | 2.07  | 2.91  | 1.33  |
| IN.         | .19   | .38    | .66   | .59   | .94   | .96   | 8.46   | 7.23   | 2.21  | 2.39  | 3.36  | 1.48  |
| CAL YR 1975 | TOTAL | 445927 | MEAN  | 1222  | MAX   | 9320  | MIN    | 121    | CFSM  | 1.40  | IN    | 19.05 |
| WTR YR 1976 | TOTAL | 675355 | MEAN  | 1845  | MAX   | 8650  | MIN    | 121    | CFSM  | 2.12  | IN    | 28.84 |

## ST. JOHN RIVER BASIN

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

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

DRAINAGE AREA.--5,690 mi<sup>2</sup> (14,740 km<sup>2</sup>), approximately, not including 249 mi<sup>2</sup> (645 km<sup>2</sup>) drained by Chamberlain Lake through Telos Canal.

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

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

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

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

AVERAGE DISCHARGE.--50 years, 9,628 ft<sup>3</sup>/s (273 m<sup>3</sup>/s), 22.98 in/yr (584 mm/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 148,000 ft<sup>3</sup>/s (4,190 m<sup>3</sup>/s) May 1, 1974, gage height, 26.95 ft (8.21 m); minimum daily, 510 ft<sup>3</sup>/s (14.4 m<sup>3</sup>/s) Mar. 13-15, 1948.

EXTREMES FOR CURRENT YEAR.--Peak discharges above base of 45,000 ft<sup>3</sup>/s (1,274 m<sup>3</sup>/s) and maximums (\*):

| Date    | Time | Discharge<br>(ft <sup>3</sup> /s) | Discharge<br>(m <sup>3</sup> /s) | Gage height<br>(ft) | Gage height<br>(m) | Date    | Time | Discharge<br>(ft <sup>3</sup> /s) | Discharge<br>(m <sup>3</sup> /s) | Gage height<br>(ft) | Gage height<br>(m) |
|---------|------|-----------------------------------|----------------------------------|---------------------|--------------------|---------|------|-----------------------------------|----------------------------------|---------------------|--------------------|
| Apr. 5  | -    | 85,000                            | 2,407                            | -                   | -                  | May 14  | -    | 48,000                            | 1,359                            | -                   | -                  |
| Apr. 22 | 0400 | *95,600                           | 2,707                            | *21.58              | 6.578              | Aug. 12 | 0100 | 91,100                            | 2,580                            | 21.01               | 6.404              |
| May 4   | -    | 61,000                            | 1,728                            | -                   | -                  |         |      |                                   |                                  |                     |                    |

Minimum daily discharge, 1,740 ft<sup>3</sup>/s (49.3 m<sup>3</sup>/s) Jan. 26.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976  
MEAN VALUES

| DAY               | OCT     | NOV    | DEC    | JAN        | FEB       | MAR      | APR       | MAY      | JUN    | JUL    | AUG    | SEP    |
|-------------------|---------|--------|--------|------------|-----------|----------|-----------|----------|--------|--------|--------|--------|
| 1                 | 4360    | 4120   | 4630   | 2600       | 2500      | 2780     | 19500     | 47000    | 14800  | 8590   | 8380   | 9370   |
| 2                 | 3790    | 3870   | 5090   | 2560       | 2800      | 2630     | 24500     | 47000    | 14000  | 10600  | 8090   | 9190   |
| 3                 | 3340    | 3710   | 5270   | 2520       | 3500      | 2580     | 35000     | 53000    | 13000  | 12700  | 8450   | 9410   |
| 4                 | 3070    | 4090   | 5300   | 2500       | 4000      | 2510     | 53000     | 59500    | 12200  | 14100  | 8470   | 9810   |
| 5                 | 2870    | 4310   | 4760   | 2490       | 4700      | 2460     | 83000     | 56000    | 11500  | 15500  | 7470   | 9140   |
| 6                 | 2690    | 4060   | 4400   | 2480       | 5100      | 2420     | 74500     | 50000    | 10800  | 13300  | 7130   | 8690   |
| 7                 | 2600    | 3750   | 4200   | 2460       | 5180      | 2420     | 65400     | 42500    | 9900   | 10900  | 7200   | 8960   |
| 8                 | 2370    | 3500   | 3900   | 2400       | 5000      | 2410     | 56900     | 39000    | 9300   | 8950   | 7250   | 8530   |
| 9                 | 2230    | 3380   | 3700   | 2340       | 4800      | 2400     | 46100     | 37000    | 8900   | 7970   | 7180   | 7600   |
| 10                | 2170    | 3420   | 3600   | 2320       | 4550      | 2450     | 38600     | 35000    | 8500   | 8720   | 12400  | 6580   |
| 11                | 2120    | 4380   | 3700   | 2280       | 4400      | 2550     | 34500     | 33000    | 8300   | 8840   | 66400  | 6160   |
| 12                | 2070    | 8280   | 3900   | 2230       | 4150      | 2720     | 29200     | 31500    | 8200   | 7960   | 83100  | 5910   |
| 13                | 2060    | 11100  | 3700   | 2200       | 3980      | 2890     | 25700     | 37000    | 8200   | 14100  | 56900  | 5790   |
| 14                | 2140    | 10900  | 3500   | 2180       | 3800      | 2880     | 24400     | 45000    | 8000   | 34100  | 40600  | 5980   |
| 15                | 3120    | 13900  | 3400   | 2120       | 3690      | 2800     | 22700     | 39500    | 7500   | 36300  | 38300  | 5790   |
| 16                | 3760    | 16700  | 3350   | 2050       | 3570      | 2680     | 21200     | 34000    | 6800   | 28900  | 40400  | 5310   |
| 17                | 3410    | 14600  | 3300   | 2000       | 3500      | 2580     | 22400     | 29000    | 6200   | 22400  | 38200  | 4870   |
| 18                | 3160    | 12000  | 3250   | 1980       | 3400      | 2500     | 29000     | 27000    | 5900   | 19300  | 31700  | 4540   |
| 19                | 3150    | 10200  | 3150   | 1920       | 3300      | 2420     | 40100     | 26500    | 5700   | 17700  | 25700  | 5130   |
| 20                | 3490    | 8880   | 3100   | 1880       | 3200      | 2380     | 62100     | 37000    | 5500   | 15200  | 21300  | 5690   |
| 21                | 4750    | 7880   | 3050   | 1850       | 3100      | 2330     | 89100     | 39500    | 5400   | 14400  | 17800  | 8710   |
| 22                | 8810    | 7430   | 3000   | 1810       | 3030      | 2330     | 94000     | 37000    | 5500   | 15300  | 15600  | 10400  |
| 23                | 10700   | 6700   | 2950   | 1780       | 2950      | 2650     | 87000     | 39500    | 5170   | 13500  | 14000  | 10500  |
| 24                | 9760    | 6200   | 2900   | 1760       | 2900      | 3600     | 76100     | 40000    | 4770   | 11700  | 12600  | 9430   |
| 25                | 8110    | 5750   | 2850   | 1750       | 2830      | 4400     | 63500     | 37000    | 4430   | 11800  | 11400  | 8140   |
| 26                | 6910    | 5250   | 2800   | 1740       | 2800      | 5300     | 54600     | 31000    | 4770   | 14000  | 10400  | 7670   |
| 27                | 6420    | 4850   | 2750   | 1800       | 2800      | 7000     | 50800     | 27000    | 6910   | 13400  | 9800   | 7490   |
| 28                | 6510    | 4420   | 2650   | 2000       | 2820      | 8400     | 48700     | 22500    | 7740   | 12200  | 9230   | 9000   |
| 29                | 5860    | 4160   | 2600   | 2230       | 2800      | 10000    | 48100     | 19800    | 7660   | 11800  | 8750   | 12200  |
| 30                | 5170    | 4130   | 2650   | 2400       | ---       | 12000    | 47500     | 17300    | 7350   | 10500  | 8960   | 11400  |
| 31                | 4600    | ---    | 2700   | 2480       | ---       | 16000    | ---       | 15900    | ---    | 9370   | 9100   | ---    |
| TOTAL             | 135570  | 205920 | 110100 | 67110      | 105150    | 125470   | 1467200   | 1132000  | 242900 | 454100 | 652260 | 237390 |
| MEAN              | 4373    | 6864   | 3552   | 2165       | 3626      | 4047     | 48910     | 36520    | 8097   | 14650  | 21040  | 7913   |
| MAX               | 10700   | 16700  | 5300   | 2600       | 5180      | 16000    | 94000     | 59500    | 14800  | 36300  | 83100  | 12200  |
| MIN               | 2060    | 3380   | 2600   | 1740       | 2500      | 2330     | 19500     | 15900    | 4430   | 7960   | 7130   | 4540   |
| CFSM              | .77     | 1.21   | .62    | .38        | .64       | .71      | 8.60      | 6.42     | 1.42   | 2.57   | 3.70   | 1.39   |
| INF.              | .89     | 1.35   | .72    | .44        | .69       | .82      | 9.59      | 7.40     | 1.59   | 2.97   | 4.26   | 1.55   |
| CAL YR 1975 TOTAL | 3260250 |        |        | MEAN 8932  | MAX 78800 | MIN 1350 | CFSM 1.57 | IN 21.31 |        |        |        |        |
| WTR YR 1976 TOTAL | 4935170 |        |        | MEAN 13480 | MAX 94000 | MIN 1740 | CFSM 2.37 | IN 32.27 |        |        |        |        |

NOTE.--No gage-height record Feb. 11 to Apr. 5, Apr. 29 to Jun. 22.



## ST. JOHN RIVER BASIN

37

01015800 AROOSTOOK RIVER NEAR MASARDIS, ME

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

DRAINAGE AREA.--888 mi<sup>2</sup> (2,300 km<sup>2</sup>).

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 good except those for winter period, which are fair. Considerable regulation by Millinocket Lake, capacity 1,110,000,000 ft<sup>3</sup> (31,400,000 m<sup>3</sup>) used for power.

AVERAGE DISCHARGE.--19 years, 1,495 ft<sup>3</sup>/s (42.34 m<sup>3</sup>/s).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 21,500 ft<sup>3</sup>/s (609 m<sup>3</sup>/s) Apr. 25, 1958, gage height, 16.30 ft (4.968 m); minimum, 41 ft<sup>3</sup>/s (1.16 m<sup>3</sup>/s) Sept. 26, 27, 1968, gage height, 1.89 ft (0.576 m).

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 20,500 ft<sup>3</sup>/s (581 m<sup>3</sup>/s) Apr. 5, gage height, 16.81 ft (5.124 m); minimum daily, 157 ft<sup>3</sup>/s (4.45 m<sup>3</sup>/s) Oct. 11.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976  
MEAN VALUES

| DAY   | OCT   | NOV   | DEC   | JAN   | FEB   | MAR   | APR    | MAY    | JUN   | JUL   | AUG   | SEP   |
|-------|-------|-------|-------|-------|-------|-------|--------|--------|-------|-------|-------|-------|
| 1     | 332   | 284   | 610   | 380   | 1680  | 730   | 6400   | 7140   | 2130  | 1060  | 974   | 2520  |
| 2     | 298   | 268   | 640   | 370   | 1700  | 720   | 10900  | 6530   | 2300  | 1760  | 1540  | 2420  |
| 3     | 272   | 257   | 630   | 365   | 1770  | 710   | 15400  | 6560   | 2110  | 1880  | 1700  | 2310  |
| 4     | 244   | 246   | 610   | 360   | 2100  | 690   | 19100  | 6660   | 1790  | 1890  | 1410  | 1890  |
| 5     | 228   | 242   | 600   | 350   | 2450  | 680   | 20100  | 6280   | 1510  | 1640  | 1150  | 1550  |
| 6     | 209   | 234   | 580   | 350   | 2600  | 690   | 19400  | 5460   | 1280  | 1300  | 1080  | 1630  |
| 7     | 192   | 220   | 570   | 350   | 2630  | 690   | 17700  | 4890   | 1100  | 1020  | 1310  | 1560  |
| 8     | 186   | 209   | 550   | 365   | 2600  | 690   | 14400  | 5110   | 977   | 843   | 1250  | 1350  |
| 9     | 173   | 208   | 550   | 375   | 2480  | 690   | 9920   | 5140   | 909   | 890   | 1120  | 1160  |
| 10    | 164   | 209   | 560   | 370   | 2260  | 680   | 8730   | 4630   | 808   | 1030  | 1930  | 1010  |
| 11    | 157   | 254   | 590   | 360   | 2100  | 660   | 6830   | 4000   | 728   | 955   | 4560  | 917   |
| 12    | 159   | 406   | 590   | 350   | 1820  | 650   | 5820   | 3580   | 859   | 867   | 5280  | 951   |
| 13    | 181   | 530   | 580   | 330   | 1620  | 640   | 5050   | 4020   | 977   | 1770  | 4510  | 963   |
| 14    | 250   | 837   | 560   | 325   | 1450  | 630   | 4510   | 4340   | 903   | 3350  | 3780  | 883   |
| 15    | 284   | 1180  | 540   | 315   | 1300  | 620   | 4030   | 3960   | 777   | 3950  | 3380  | 778   |
| 16    | 277   | 1160  | 530   | 305   | 1200  | 600   | 3700   | 3540   | 666   | 3610  | 3080  | 685   |
| 17    | 271   | 977   | 510   | 300   | 1100  | 600   | 4260   | 3120   | 698   | 3080  | 2730  | 619   |
| 18    | 286   | 826   | 500   | 290   | 1000  | 590   | 6110   | 2680   | 822   | 2540  | 2320  | 575   |
| 19    | 339   | 715   | 490   | 285   | 960   | 580   | 8100   | 2880   | 699   | 2180  | 1910  | 536   |
| 20    | 403   | 629   | 480   | 280   | 900   | 580   | 10200  | 5530   | 575   | 1680  | 1620  | 520   |
| 21    | 508   | 576   | 470   | 275   | 850   | 600   | 12900  | 6760   | 519   | 1190  | 1400  | 520   |
| 22    | 648   | 560   | 460   | 270   | 810   | 770   | 13600  | 6830   | 533   | 982   | 1160  | 656   |
| 23    | 654   | 550   | 450   | 270   | 830   | 1360  | 13200  | 8620   | 487   | 828   | 969   | 721   |
| 24    | 601   | 540   | 440   | 265   | 830   | 2000  | 13100  | 9120   | 446   | 770   | 834   | 689   |
| 25    | 535   | 530   | 430   | 265   | 800   | 2500  | 12100  | 7730   | 435   | 908   | 734   | 633   |
| 26    | 492   | 520   | 420   | 270   | 790   | 2860  | 10300  | 6010   | 538   | 967   | 665   | 572   |
| 27    | 456   | 520   | 415   | 300   | 780   | 3150  | 9230   | 4650   | 702   | 914   | 648   | 672   |
| 28    | 418   | 520   | 405   | 370   | 770   | 3700  | 9410   | 3660   | 720   | 1060  | 638   | 1360  |
| 29    | 385   | 530   | 400   | 580   | 760   | 4550  | 8900   | 2940   | 667   | 1280  | 755   | 1560  |
| 30    | 355   | 560   | 395   | 970   | ---   | 5200  | 7920   | 2500   | 699   | 1130  | 2580  | 1360  |
| 31    | 312   | ---   | 390   | 1500  | ---   | 5800  | ---    | 2140   | ---   | 969   | 3080  | ---   |
| TOTAL | 10269 | 15297 | 15945 | 12110 | 42940 | 45610 | 311320 | 157010 | 28364 | 48293 | 60097 | 33570 |
| MEAN  | 331   | 510   | 514   | 391   | 1481  | 1471  | 10380  | 5065   | 945   | 1558  | 1939  | 1119  |
| MAX   | 654   | 1180  | 640   | 1500  | 2630  | 5800  | 20100  | 9120   | 2300  | 3950  | 5280  | 2520  |
| MIN   | 157   | 208   | 390   | 265   | 760   | 580   | 3700   | 2140   | 435   | 770   | 638   | 520   |

CAL YR 1975 TOTAL 435350 MEAN 1193 MAX 11800 MIN 123  
WTR YR 1976 TOTAL 780825 MEAN 2133 MAX 20100 MIN 157

## 01016500 MACHIAS RIVER NEAR ASHLAND, ME

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

DRAINAGE AREA.--330 mi<sup>2</sup> (855 km<sup>2</sup>).

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

REVISED RECORDS.--WSP 1501: Drainage area.

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

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

AVERAGE DISCHARGE.--25 years, 567 ft<sup>3</sup>/s (16.06 m<sup>3</sup>/s), 23.33 in/yr (593 mm/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 16,600 ft<sup>3</sup>/s (470 m<sup>3</sup>/s) June 29, 1954, gage height, 11.94 ft (3.639 m), from rating curve extended above 7,900 ft<sup>3</sup>/s (224 m<sup>3</sup>/s); minimum, 5.4 ft<sup>3</sup>/s (0.15 m<sup>3</sup>/s) Sept. 17, 1952.

EXTREMES FOR CURRENT YEAR.--Peak discharges above base of 3,200 ft<sup>3</sup>/s (90.6 m<sup>3</sup>/s) and maximums (\*):

| Date    | Time | Discharge<br>(ft <sup>3</sup> /s) (m <sup>3</sup> /s) | Gage height<br>(ft) (m) | Date    | Time | Discharge<br>(ft <sup>3</sup> /s) (m <sup>3</sup> /s) | Gage height<br>(ft) (m) |
|---------|------|-------------------------------------------------------|-------------------------|---------|------|-------------------------------------------------------|-------------------------|
| Apr. 3  | -    | ice jam                                               | *16.66 5.078            | May 23  | 1200 | 3,480 98.6                                            | 4.61 1.405              |
| Apr. 6  | -    | *10,000 283                                           | - -                     | July 15 | 1400 | 3,900 110                                             | 4.89 1.490              |
| Apr. 23 | 1200 | 7,060 200                                             | 6.82 2.079              |         |      |                                                       |                         |

Minimum discharge, 52 ft<sup>3</sup>/s (1.47 m<sup>3</sup>/s) Oct. 12, gage height, 0.60 ft (0.183 m).

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976  
MEAN VALUES

| DAY               | OCT    | NOV  | DEC  | JAN      | FEB      | MAR    | APR       | MAY      | JUN   | JUL   | AUG   | SEP   |
|-------------------|--------|------|------|----------|----------|--------|-----------|----------|-------|-------|-------|-------|
| 1                 | 102    | 133  | 260  | 115      | 1150     | 250    | 5100      | 2690     | 741   | 455   | 441   | 593   |
| 2                 | 96     | 125  | 250  | 110      | 1100     | 240    | 4850      | 2730     | 719   | 571   | 615   | 598   |
| 3                 | 91     | 119  | 240  | 110      | 1100     | 225    | 4800      | 2980     | 643   | 581   | 572   | 558   |
| 4                 | 84     | 115  | 230  | 110      | 1250     | 220    | 5800      | 3120     | 551   | 600   | 469   | 485   |
| 5                 | 78     | 116  | 220  | 110      | 1500     | 220    | 9400      | 2870     | 476   | 662   | 394   | 435   |
| 6                 | 71     | 113  | 215  | 105      | 1600     | 225    | 9700      | 2480     | 418   | 619   | 415   | 418   |
| 7                 | 65     | 105  | 210  | 105      | 1450     | 230    | 7000      | 2140     | 369   | 501   | 503   | 411   |
| 8                 | 65     | 103  | 205  | 105      | 1500     | 225    | 4800      | 2120     | 337   | 431   | 465   | 385   |
| 9                 | 61     | 102  | 210  | 100      | 940      | 215    | 3450      | 1980     | 320   | 753   | 432   | 348   |
| 10                | 58     | 100  | 210  | 100      | 780      | 210    | 2750      | 1750     | 292   | 764   | 681   | 314   |
| 11                | 56     | 132  | 205  | 98       | 670      | 205    | 2400      | 1560     | 280   | 645   | 1370  | 291   |
| 12                | 57     | 190  | 195  | 97       | 570      | 200    | 2100      | 1460     | 340   | 605   | 1870  | 289   |
| 13                | 82     | 225  | 190  | 96       | 520      | 195    | 1900      | 1740     | 356   | 1750  | 2130  | 274   |
| 14                | 112    | 310  | 185  | 95       | 465      | 195    | 1750      | 1870     | 322   | 2920  | 1830  | 252   |
| 15                | 107    | 370  | 180  | 95       | 420      | 190    | 1700      | 1840     | 287   | 3770  | 1500  | 231   |
| 16                | 102    | 373  | 175  | 94       | 380      | 190    | 1700      | 1650     | 258   | 3320  | 1390  | 212   |
| 17                | 103    | 347  | 165  | 93       | 350      | 190    | 1700      | 1420     | 290   | 2370  | 1320  | 199   |
| 18                | 111    | 323  | 160  | 92       | 320      | 185    | 1850      | 1200     | 293   | 1720  | 1210  | 186   |
| 19                | 131    | 299  | 155  | 92       | 305      | 185    | 2500      | 1280     | 245   | 1310  | 1010  | 180   |
| 20                | 149    | 275  | 150  | 90       | 290      | 185    | 3300      | 2590     | 210   | 999   | 811   | 183   |
| 21                | 191    | 258  | 145  | 90       | 280      | 185    | 4500      | 3290     | 207   | 771   | 652   | 259   |
| 22                | 228    | 250  | 140  | 89       | 280      | 185    | 5200      | 3170     | 199   | 612   | 541   | 419   |
| 23                | 236    | 240  | 140  | 88       | 290      | 450    | 5400      | 3420     | 178   | 505   | 462   | 495   |
| 24                | 229    | 230  | 135  | 88       | 310      | 1300   | 5000      | 3110     | 166   | 487   | 401   | 469   |
| 25                | 209    | 225  | 130  | 87       | 305      | 1500   | 4350      | 2600     | 224   | 604   | 353   | 408   |
| 26                | 197    | 220  | 125  | 86       | 290      | 1450   | 3890      | 2100     | 269   | 622   | 324   | 354   |
| 27                | 186    | 215  | 125  | 135      | 280      | 1550   | 3440      | 1670     | 283   | 573   | 312   | 420   |
| 28                | 174    | 210  | 120  | 260      | 270      | 1950   | 3270      | 1340     | 281   | 574   | 300   | 592   |
| 29                | 164    | 220  | 120  | 510      | 265      | 2500   | 3000      | 1100     | 272   | 546   | 401   | 643   |
| 30                | 153    | 250  | 115  | 1000     | ---      | 3200   | 2820      | 917      | 337   | 463   | 750   | 588   |
| 31                | 143    | ---  | 115  | 1200     | ---      | 4600   | ---       | 769      | ---   | 414   | 729   | ---   |
| TOTAL             | 3891   | 6293 | 5420 | 5645     | 19230    | 23050  | 119420    | 64956    | 10163 | 31517 | 24653 | 11489 |
| MEAN              | 126    | 210  | 175  | 182      | 663      | 744    | 3981      | 2095     | 339   | 1017  | 795   | 383   |
| MAX               | 236    | 373  | 260  | 1200     | 1600     | 4600   | 9700      | 3420     | 741   | 3770  | 2130  | 643   |
| MIN               | 56     | 100  | 115  | 86       | 265      | 185    | 1700      | 769      | 166   | 414   | 300   | 180   |
| CFSM              | .38    | .64  | .53  | .55      | 2.01     | 2.25   | 12.1      | 6.35     | 1.03  | 3.08  | 2.41  | 1.16  |
| IN.               | .44    | .71  | .61  | .64      | 2.17     | 2.60   | 13.46     | 7.32     | 1.15  | 3.55  | 2.78  | 1.30  |
| CAL YR 1975 TOTAL | 170009 |      |      | MEAN 466 | MAX 4910 | MIN 33 | CFSM 1.41 | IN 19.16 |       |       |       |       |
| WTR YR 1976 TOTAL | 325727 |      |      | MEAN 890 | MAX 9700 | MIN 56 | CFSM 2.70 | IN 36.72 |       |       |       |       |

NOTE.--No gage-height record Apr. 4 to Apr. 22.

## ST. JOHN RIVER BASIN

39

01017000 AROOSTOOK RIVER AT WASHBURN, ME

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

DRAINAGE AREA.--1,652 mi<sup>2</sup> (4,279 km<sup>2</sup>).

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

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

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

REMARKS.--Records good except those for winter period, which are fair. Considerable regulation by Squa Pan Lake, capacity, 2,893,000,000 ft<sup>3</sup> (81,900,000 m<sup>3</sup>), and by Millinocket Lake, capacity, 1,110,000,000 ft<sup>3</sup> (31,400,000 m<sup>3</sup>) used for power.

AVERAGE DISCHARGE.--46 years, 2,630 ft<sup>3</sup>/s (74.48 m<sup>3</sup>/s).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 43,100 ft<sup>3</sup>/s (1,220 m<sup>3</sup>/s) Apr. 30, 1973, gage height, 13.68 ft (4.170 m, present datum); maximum gage height, 15.78 ft (4.810 m) Apr. 6, 1951 (backwater from ice); minimum daily discharge, 75 ft<sup>3</sup>/s (2.12 m<sup>3</sup>/s) Feb. 13-15, 1948.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 32,200 ft<sup>3</sup>/s (912 m<sup>3</sup>/s) Apr. 4, gage height, 11.84 ft (3.609 m); maximum gage height, 14.74 ft (4.493 m) Apr. 3 (backwater from ice); minimum daily discharge, 235 ft<sup>3</sup>/s (6.66 m<sup>3</sup>/s) Oct. 11.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976  
MEAN VALUES

| DAY   | OCT   | NOV   | DEC   | JAN   | FEB   | MAR   | APR    | MAY    | JUN   | JUL    | AUG    | SEP   |
|-------|-------|-------|-------|-------|-------|-------|--------|--------|-------|--------|--------|-------|
| 1     | 592   | 484   | 1430  | 790   | 3000  | 1470  | 15000  | 12600  | 3820  | 2060   | 2230   | 4770  |
| 2     | 535   | 443   | 1550  | 790   | 3250  | 1430  | 21500  | 11900  | 3980  | 3200   | 2530   | 4640  |
| 3     | 478   | 418   | 1500  | 780   | 3400  | 1380  | 27600  | 12200  | 3770  | 4050   | 3040   | 4470  |
| 4     | 437   | 404   | 1400  | 770   | 3750  | 1370  | 29800  | 12500  | 3350  | 4510   | 2590   | 3820  |
| 5     | 349   | 388   | 1300  | 760   | 4300  | 1350  | 31000  | 11800  | 2800  | 3980   | 2130   | 3220  |
| 6     | 326   | 385   | 1200  | 760   | 4900  | 1350  | 28300  | 10200  | 2340  | 3250   | 2150   | 2950  |
| 7     | 295   | 372   | 1140  | 770   | 5100  | 1350  | 24400  | 9000   | 2120  | 2620   | 2590   | 3020  |
| 8     | 274   | 365   | 1080  | 780   | 5000  | 1350  | 19500  | 8900   | 2060  | 2180   | 2520   | 2700  |
| 9     | 264   | 347   | 1060  | 800   | 4800  | 1360  | 16000  | 8900   | 2070  | 2660   | 2260   | 2350  |
| 10    | 248   | 336   | 1110  | 780   | 4400  | 1350  | 12800  | 8150   | 1970  | 3070   | 3300   | 2110  |
| 11    | 235   | 413   | 1190  | 750   | 4100  | 1320  | 12100  | 7220   | 1940  | 2760   | 7900   | 1920  |
| 12    | 236   | 525   | 1170  | 720   | 3700  | 1300  | 9340   | 6510   | 2180  | 2650   | 9960   | 1870  |
| 13    | 262   | 838   | 1140  | 700   | 3400  | 1280  | 8210   | 7080   | 2160  | 5940   | 9200   | 1910  |
| 14    | 313   | 1270  | 1100  | 690   | 3100  | 1250  | 7330   | 7760   | 2050  | 10100  | 7870   | 1880  |
| 15    | 397   | 1900  | 1080  | 670   | 2800  | 1250  | 6690   | 7400   | 1970  | 10900  | 7040   | 1610  |
| 16    | 430   | 2050  | 1040  | 660   | 2600  | 1210  | 6120   | 6630   | 1870  | 9460   | 6990   | 1520  |
| 17    | 419   | 1840  | 1010  | 650   | 2300  | 1200  | 7000   | 5710   | 1940  | 7430   | 6390   | 1430  |
| 18    | 431   | 1580  | 990   | 640   | 2150  | 1200  | 9510   | 5020   | 2020  | 5910   | 5540   | 1350  |
| 19    | 475   | 1360  | 970   | 630   | 1950  | 1200  | 12400  | 4680   | 1930  | 5010   | 4740   | 1200  |
| 20    | 544   | 1190  | 950   | 620   | 1800  | 1200  | 16100  | 8670   | 1740  | 4090   | 3970   | 1140  |
| 21    | 732   | 1070  | 940   | 610   | 1700  | 1210  | 20600  | 10800  | 1580  | 2980   | 3260   | 1400  |
| 22    | 951   | 1050  | 910   | 610   | 1650  | 1380  | 23400  | 12500  | 1620  | 2390   | 2740   | 1790  |
| 23    | 1070  | 1030  | 890   | 600   | 1600  | 1900  | 23400  | 15400  | 1530  | 2010   | 2310   | 2010  |
| 24    | 1040  | 1010  | 880   | 600   | 1600  | 2600  | 22900  | 16100  | 1370  | 2000   | 2010   | 1920  |
| 25    | 1020  | 990   | 870   | 600   | 1600  | 3500  | 21000  | 14000  | 1140  | 2850   | 1770   | 1820  |
| 26    | 887   | 980   | 860   | 590   | 1550  | 4300  | 17900  | 10900  | 1130  | 2850   | 1590   | 1500  |
| 27    | 761   | 970   | 850   | 640   | 1530  | 5000  | 15900  | 8340   | 1160  | 2620   | 1510   | 1750  |
| 28    | 699   | 960   | 840   | 780   | 1500  | 6000  | 15400  | 6830   | 1390  | 2500   | 1490   | 2730  |
| 29    | 638   | 1010  | 830   | 1200  | 1490  | 8200  | 14800  | 5410   | 1440  | 2720   | 1720   | 3070  |
| 30    | 581   | 1200  | 820   | 1900  | ---   | 10800 | 13600  | 4440   | 1490  | 2580   | 4030   | 2830  |
| 31    | 530   | ---   | 800   | 2650  | ---   | 12200 | ---    | 3830   | ---   | 2350   | 5470   | ---   |
| TOTAL | 16449 | 27178 | 32900 | 25290 | 84020 | 83260 | 509600 | 281380 | 61930 | 123680 | 122840 | 70700 |
| MEAN  | 531   | 906   | 1061  | 816   | 2897  | 2686  | 16990  | 9077   | 2064  | 3990   | 3963   | 2357  |
| MAX   | 1070  | 2050  | 1550  | 2650  | 5100  | 12200 | 31000  | 16100  | 3980  | 10900  | 9960   | 4770  |
| MIN   | 235   | 336   | 800   | 590   | 1490  | 1200  | 6120   | 3830   | 1130  | 2000   | 1490   | 1140  |

CAL YR 1975 TOTAL 805610 MEAN 2207 MAX 20100 MIN 179  
WTR YR 1976 TOTAL 1439227 MEAN 3932 MAX 31000 MIN 235

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

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

PERIOD OF DAILY RECORD. --

SPECIFIC CONDUCTANCE: Current year.

WATER TEMPERATURES: Current year.

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

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

EXTREMES FOR CURRENT YEAR. - -

SPECIFIC CONDUCTANCE: Maximum, 194 micromhos July 20; minimum, 41 micromhos May 5, 9.

WATER TEMPERATURES: Maximum, 25.0°C June 24, 25; minimum, 0.0°C on many days during winter periods.

## CHEMICAL ANALYSES, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

| DATE      | TIME | DIS-CHARGE (CFS) | SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS) | PH (UNITS) | TEMPER-ATURE (DEG C) | TUR-BID-ITY (JTU) | DIS-SOLVED OXYGEN (MG/L) | PER-CENT SATUR-ATION | FECAL COLI-FORM (COL. PER 100 ML) | STREP-TOCOCCI (COL-ONIES PER 100 ML) | HARD-NESS (CA,MG/L) | NON-CAR-BONATE HARD-NESS (MG/L) |
|-----------|------|------------------|--------------------------------------|------------|----------------------|-------------------|--------------------------|----------------------|-----------------------------------|--------------------------------------|---------------------|---------------------------------|
| OCT 29... | 1400 | 763              | 96                                   | 7.0        | 7.5                  | --                | 11.2                     | 93                   | 220                               | 140                                  | --                  | --                              |
| NOV 24... | 1230 | 2290             | 95                                   | 6.8        | 6.5                  | 2                 | 13.6                     | 94                   | 100                               | 260                                  | 42                  | 18                              |
| DEC 29... | 1200 | 1080             | 110                                  | 6.8        | 6.5                  | --                | 8.4                      | 58                   | 85                                | 330                                  | --                  | --                              |
| FEB 05... | 1230 | 3140             | 108                                  | 6.7        | 6.0                  | --                | 8.6                      | 59                   | 885                               | 100                                  | --                  | --                              |
| 25...     | 1300 | 1610             | 90                                   | 6.6        | 6.0                  | 2                 | 7.2                      | 49                   | 49                                | 67                                   | 38                  | 14                              |
| MAR 30... | 1200 | 7710             | 100                                  | 6.5        | 6.0                  | --                | 11.0                     | 75                   | 48                                | 45                                   | --                  | --                              |
| MAY 04... | 1600 | 14900            | 39                                   | 6.8        | 6.5                  | --                | 11.2                     | 90                   | 60                                | 59                                   | --                  | --                              |
| 28...     | 1530 | 8220             | 57                                   | 6.9        | 12.5                 | 1                 | 10.2                     | 95                   | 44                                | 160                                  | 25                  | 6                               |
| JUL 28... | 1800 | 2970             | 80                                   | 7.3        | 19.0                 | --                | 8.5                      | 90                   | 59                                | 100                                  | --                  | --                              |
| AUG 31... | 1430 | 6630             | 85                                   | 7.3        | 14.5                 | 1                 | 9.6                      | 93                   | 250                               | 450                                  | 38                  | 6                               |
| SEP 22... | 1300 | 1960             | 115                                  | 7.6        | 15.5                 | --                | 9.4                      | 93                   | 140                               | 120                                  | --                  | --                              |

[illegible]

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

[illegible]



## ST. JOHN RIVER BASIN

01017100 AROOSTOOK RIVER AT CARIBOU, ME--Continued

## CHEMICAL ANALYSES, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

| DATE      | TOTAL<br>SELE-<br>NIUM<br>(SE)<br>(UG/L) | SUS-<br>PENDE<br>SELE-<br>NIUM<br>(SF)<br>(UG/L) | DIS-<br>SOLVED<br>SELE-<br>NIUM<br>(SE)<br>(UG/L) | TOTAL<br>ZINC<br>(ZN)<br>(UG/L) | SUS-<br>PENDE<br>ZINC<br>(ZN)<br>(UG/L) | DIS-<br>SOLVED<br>ZINC<br>(ZN)<br>(UG/L) | TOTAL<br>ORGANIC<br>CARBON<br>(C)<br>(MG/L) | SUS-<br>PENDE<br>SEDI-<br>MENT<br>(MG/L) | SUS-<br>PENDE<br>SEDI-<br>MENT<br>DIS-<br>CHARGE<br>(T/DAY) |
|-----------|------------------------------------------|--------------------------------------------------|---------------------------------------------------|---------------------------------|-----------------------------------------|------------------------------------------|---------------------------------------------|------------------------------------------|-------------------------------------------------------------|
| OCT 29... | --                                       | --                                               | --                                                | --                              | --                                      | --                                       | --                                          | 4                                        | 8.2                                                         |
| NOV 24... | 0                                        | 0                                                | 0                                                 | 0                               | 0                                       | 0                                        | 12                                          | 7                                        | 43                                                          |
| DEC 29... | --                                       | --                                               | --                                                | --                              | --                                      | --                                       | --                                          | 3                                        | 8.7                                                         |
| FEB 05... | --                                       | --                                               | --                                                | --                              | --                                      | --                                       | --                                          | 19                                       | 161                                                         |
| 25...     | 0                                        | 0                                                | 0                                                 | 10                              | 10                                      | 0                                        | 7.1                                         | 20                                       | 87                                                          |
| MAR 30... | --                                       | --                                               | --                                                | --                              | --                                      | --                                       | --                                          | 29                                       | 604                                                         |
| MAY 04... | --                                       | --                                               | --                                                | --                              | --                                      | --                                       | --                                          | 19                                       | 764                                                         |
| 24...     | 0                                        | 0                                                | 0                                                 | 0                               | 0                                       | 0                                        | 12                                          | 26                                       | 577                                                         |
| JUL 24... | --                                       | --                                               | --                                                | --                              | --                                      | --                                       | --                                          | 12                                       | 96                                                          |
| AUG 31... | 0                                        | 0                                                | 0                                                 | 10                              | 0                                       | 20                                       | 16                                          | 12                                       | 215                                                         |
| SEP 22... | --                                       | --                                               | --                                                | --                              | --                                      | --                                       | --                                          | 6                                        | 32                                                          |

## PESTICIDE ANALYSES, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

| DATE      | TOTAL<br>ATHA-<br>ZINE<br>(UG/L) | TOTAL<br>ALDRIN<br>(UG/L) | ALDRIN<br>IN<br>BOTTOM<br>MA-<br>TERIAL<br>(UG/KG) | TOTAL<br>CHLOR-<br>DANE<br>(UG/L) | CHLOR-<br>DANE<br>IN<br>BOTTOM<br>MA-<br>TERIAL<br>(UG/KG) | TOTAL<br>DDD<br>(UG/L) | DDD<br>IN<br>BOTTOM<br>MA-<br>TERIAL<br>(UG/KG) | TOTAL<br>DDE<br>(UG/L) | DDE<br>IN<br>BOTTOM<br>MA-<br>TERIAL<br>(UG/KG) | TOTAL<br>DDT<br>(UG/L) | TOTAL<br>DI-<br>AZINON<br>(UG/L) |
|-----------|----------------------------------|---------------------------|----------------------------------------------------|-----------------------------------|------------------------------------------------------------|------------------------|-------------------------------------------------|------------------------|-------------------------------------------------|------------------------|----------------------------------|
| OCT 29... | --                               | ND                        | ND                                                 | ND                                | ND                                                         | ND                     | ND                                              | ND                     | ND                                              | ND                     | ND                               |
| FEB 05... | ND                               | ND                        | --                                                 | ND                                | --                                                         | ND                     | --                                              | ND                     | --                                              | ND                     | ND                               |
| MAY 04... | ND                               | ND                        | ND                                                 | ND                                | ND                                                         | ND                     | --                                              | ND                     | 1.4                                             | ND                     | ND                               |
| SEP 22... | ND                               | ND                        | --                                                 | ND                                | --                                                         | ND                     | --                                              | ND                     | --                                              | ND                     | ND                               |

| DATE      | DI-<br>AZINON<br>IN<br>BOTTOM<br>MA-<br>TERIAL<br>(UG/KG) | TOTAL<br>DI-<br>ELDRIN<br>(UG/L) | DI-<br>ELDRIN<br>IN<br>BOTTOM<br>MA-<br>TERIAL<br>(UG/KG) | TOTAL<br>ENDRIN<br>(UG/L) | ENDRIN<br>IN<br>BOTTOM<br>MA-<br>TERIAL<br>(UG/KG) | TOTAL<br>ETHION<br>(UG/L) | ETHION<br>IN<br>BOTTOM<br>MA-<br>TERIAL<br>(UG/KG) | TOTAL<br>HEPTA-<br>CHLOR<br>(UG/L) | HEPTA-<br>CHLOR<br>IN<br>BOTTOM<br>MA-<br>TERIAL<br>(UG/KG) | TOTAL<br>HEPTA-<br>CHLOR<br>EPOXIDE<br>(UG/L) | HEPTA-<br>CHLOR<br>EPOXIDE<br>IN BOT-<br>TOM MA-<br>TERIAL<br>(UG/KG) |
|-----------|-----------------------------------------------------------|----------------------------------|-----------------------------------------------------------|---------------------------|----------------------------------------------------|---------------------------|----------------------------------------------------|------------------------------------|-------------------------------------------------------------|-----------------------------------------------|-----------------------------------------------------------------------|
| OCT 29... | ND                                                        | ND                               | ND                                                        | ND                        | ND                                                 | ND                        | ND                                                 | ND                                 | ND                                                          | ND                                            | ND                                                                    |
| FEB 05... | --                                                        | ND                               | --                                                        | ND                        | --                                                 | ND                        | --                                                 | ND                                 | --                                                          | ND                                            | --                                                                    |
| MAY 04... | ND                                                        | ND                               | ND                                                        | ND                        | ND                                                 | ND                        | ND                                                 | ND                                 | ND                                                          | ND                                            | ND                                                                    |
| SEP 22... | --                                                        | ND                               | --                                                        | ND                        | --                                                 | ND                        | --                                                 | ND                                 | --                                                          | ND                                            | --                                                                    |

| DATE      | TOTAL<br>LINDANE<br>(UG/L) | LINDANE<br>IN<br>BOTTOM<br>MA-<br>TERIAL<br>(UG/KG) | TOTAL<br>MALA-<br>THION<br>(UG/L) | MALA-<br>THION<br>IN<br>BOTTOM<br>MA-<br>TERIAL<br>(UG/KG) | TOTAL<br>METH-<br>OXY-<br>CHLOR<br>(UG/L) | METHOX-<br>YCHLOR<br>IN BOT-<br>TOM MA-<br>TERIAL<br>(UG/KG) | TOTAL<br>METHYL<br>PARA-<br>THION<br>(UG/L) | METHYL<br>PARA-<br>THION<br>IN BOT-<br>TOM MA-<br>TERIAL<br>(UG/KG) | TOTAL<br>METHYL<br>TRI-<br>THION<br>(UG/L) | METHYL<br>TRI-<br>THION<br>IN BOT-<br>TOM MA-<br>TERIAL<br>(UG/KG) | TOTAL<br>PARA-<br>THION<br>(UG/L) |
|-----------|----------------------------|-----------------------------------------------------|-----------------------------------|------------------------------------------------------------|-------------------------------------------|--------------------------------------------------------------|---------------------------------------------|---------------------------------------------------------------------|--------------------------------------------|--------------------------------------------------------------------|-----------------------------------|
| OCT 29... | ND                         | ND                                                  | ND                                | ND                                                         | ND                                        | ND                                                           | ND                                          | ND                                                                  | ND                                         | ND                                                                 | ND                                |
| FEB 05... | ND                         | --                                                  | ND                                | --                                                         | ND                                        | --                                                           | ND                                          | --                                                                  | ND                                         | --                                                                 | ND                                |
| MAY 04... | ND                         | ND                                                  | ND                                | ND                                                         | ND                                        | ND                                                           | ND                                          | ND                                                                  | ND                                         | ND                                                                 | ND                                |
| SEP 22... | ND                         | --                                                  | ND                                | --                                                         | ND                                        | --                                                           | ND                                          | --                                                                  | ND                                         | --                                                                 | ND                                |

01017100 AROOSTOOK RIVER AT CARIBOU, ME--Continued

## PESTICIDE ANALYSES, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

| DATE         | PARA-<br>THION<br>IN<br>BOTTOM<br>MA-<br>TERIAL<br>(UG/KG) | TOTAL<br>TOX-<br>APHENE<br>(UG/L) | TOX-<br>APHENE<br>IN<br>BOTTOM<br>MA-<br>TERIAL<br>(UG/KG) | TOTAL<br>TRI-<br>THION<br>(UG/L) | TRI-<br>THION<br>IN<br>BOTTOM<br>MA-<br>TERIAL<br>(UG/KG) | TOTAL<br>2,4-D<br>(UG/L) | 2,4-D<br>IN<br>BOTTOM<br>MA-<br>TERIAL<br>(UG/KG) | TOTAL<br>2,4,5-T<br>(UG/L) | 2,4,5-T<br>IN<br>BOTTOM<br>MA-<br>TERIAL<br>(UG/KG) | TOTAL<br>SILVEX<br>(UG/L) | SILVEX<br>IN<br>BOTTOM<br>MA-<br>TERIAL<br>(UG/KG) |
|--------------|------------------------------------------------------------|-----------------------------------|------------------------------------------------------------|----------------------------------|-----------------------------------------------------------|--------------------------|---------------------------------------------------|----------------------------|-----------------------------------------------------|---------------------------|----------------------------------------------------|
| OCT<br>29... | ND                                                         | ND                                | ND                                                         | ND                               | ND                                                        | --                       | ND                                                | --                         | ND                                                  | --                        | ND                                                 |
| FEB<br>05... | --                                                         | ND                                | --                                                         | ND                               | --                                                        | ND                       | --                                                | ND                         | --                                                  | ND                        | --                                                 |
| MAY<br>04... | ND                                                         | ND                                | ND                                                         | ND                               | ND                                                        | ND                       | ND                                                | ND                         | ND                                                  | ND                        | ND                                                 |
| SEP<br>22... | --                                                         | ND                                | --                                                         | ND                               | --                                                        | ND                       | --                                                | ND                         | --                                                  | ND                        | --                                                 |

01017100 AROOSTOOK RIVER AT CARIBOU, ME--Continued

QUALITATIVE AND ASSOCIATED QUANTITATIVE ANALYSES OF BIOLOGICAL DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

## PHYTOPLANKTON

| DATE   | TIME | ORGANISM            | COUNT<br>(CELLS/ML) | PERCENT<br>OF TOTAL | SAMPLING<br>METHOD |
|--------|------|---------------------|---------------------|---------------------|--------------------|
| Oct 29 | 1400 | CHLOROPHYTA         |                     |                     | DEPTH INTEGRATED   |
|        |      | ..CHLOROPHYCEAE     |                     |                     |                    |
|        |      | ...CHLOROCOCCALES   |                     |                     |                    |
|        |      | ...HYDRODICTYACEAE  |                     |                     |                    |
|        |      | ....PFDIASTRUM      |                     |                     |                    |
|        |      | ...OCCYSTACEAE      |                     |                     |                    |
|        |      | ...ANKISTRODESMIUS  |                     |                     |                    |
|        |      | ...SCENEDESMACEAE   |                     |                     |                    |
|        |      | ...SCENEDESMUS      | 450                 | 32                  |                    |
|        |      | ..ZYGNEMATALES      |                     |                     |                    |
|        |      | ...DESMIDIACEAE     |                     |                     |                    |
|        |      | ....COSMARTUM       |                     |                     |                    |
|        |      | CHRYSOPHYTA         |                     |                     |                    |
|        |      | ..BACILLARIOPHYCEAE |                     |                     |                    |
|        |      | ..CENTRALES         |                     |                     |                    |
|        |      | ...COSCINODISCACEAE |                     |                     |                    |
|        |      | ....MELOSIIRA       |                     |                     |                    |
|        |      | ..PENNALES          |                     |                     |                    |
|        |      | ...ACHNANTHACEAE    |                     |                     |                    |
|        |      | ....ACHNANTHES      | 410                 | 29                  |                    |
|        |      | ...COCCONEIS        |                     |                     |                    |
|        |      | ...CYMBELLACEAE     |                     |                     |                    |
|        |      | ....CYMBELLA        | 37                  | 3                   |                    |
|        |      | ...DIATOMACEAE      |                     |                     |                    |
|        |      | ....DIATOMA         |                     |                     |                    |
|        |      | ...FRAGILARIACEAE   |                     |                     |                    |
|        |      | ....FRAGILARIA      | 140                 | 13                  |                    |
|        |      | ....SYNEDRA         | 37                  | 3                   |                    |
|        |      | ...GOMPHONEMATACEAE |                     |                     |                    |
|        |      | ....GOMPHONEMA      | 37                  | 3                   |                    |
|        |      | ...NAVICULACEAE     |                     |                     |                    |
|        |      | ....NAVICULA        | 110                 | 8                   |                    |
|        |      | ...NITZSCHIACEAE    |                     |                     |                    |
|        |      | ....NITZSCHIA       | 150                 | 11                  |                    |
|        |      | EUGLENOPHYTA        |                     |                     |                    |
|        |      | ..EUGLENOPHYCEAE    |                     |                     |                    |
|        |      | ..EUGLENALES        |                     |                     |                    |
|        |      | ...EUGLENACEAE      |                     |                     |                    |
|        |      | ....EUGLENA         |                     |                     |                    |
|        |      | TOTAL               | 1400                |                     |                    |
| Nov 24 | 1230 | CHLOROPHYTA         |                     |                     | DEPTH INTEGRATED   |
|        |      | ..CHLOROPHYCEAE     |                     |                     |                    |
|        |      | ...CHLOROCOCCALES   |                     |                     |                    |
|        |      | ...SCENEDESMACEAE   |                     |                     |                    |
|        |      | ...SCENEDESMUS      | 500                 | 4                   |                    |
|        |      | CHRYSOPHYTA         |                     |                     |                    |
|        |      | ..BACILLARIOPHYCEAE |                     |                     |                    |
|        |      | ..CENTRALES         |                     |                     |                    |
|        |      | ...COSCINODISCACEAE |                     |                     |                    |
|        |      | ....CYCLOTELLA      |                     |                     |                    |
|        |      | ..PENNALES          |                     |                     |                    |
|        |      | ...ACHNANTHACEAE    |                     |                     |                    |
|        |      | ....ACHNANTHES      | 190                 | 1                   |                    |
|        |      | ...COCCONEIS        |                     |                     |                    |
|        |      | ...CYMBELLACEAE     |                     |                     |                    |
|        |      | ....CYMBELLA        | 130                 | 1                   |                    |
|        |      | ...DIATOMACEAE      |                     |                     |                    |
|        |      | ....DIATOMA         | 130                 | 1                   |                    |
|        |      | ...FRAGILARIACEAE   |                     |                     |                    |
|        |      | ....ASTERIONELLA    |                     |                     |                    |
|        |      | ....SYNEDRA         |                     |                     |                    |
|        |      | ...GOMPHONEMATACEAE |                     |                     |                    |
|        |      | ....GOMPHONEMA      |                     |                     |                    |
|        |      | ...NAVICULACEAE     |                     |                     |                    |
|        |      | ....NAVICULA        | 190                 | 1                   |                    |
|        |      | ...NITZSCHIACEAE    |                     |                     |                    |
|        |      | ....NITZSCHIA       | 440                 | 3                   |                    |
|        |      | ...TABELLARIACEAE   |                     |                     |                    |
|        |      | ....TABELLARIA      |                     |                     |                    |
|        |      | CYANOPHYTA          |                     |                     |                    |
|        |      | ..MYXOPHYCEAE       |                     |                     |                    |
|        |      | ...OSCILLATORIALES  |                     |                     |                    |
|        |      | ...OSCILLATORIAEAE  |                     |                     |                    |
|        |      | ....LYNGBYA         | 880                 | 6                   |                    |
|        |      | ...OSCILLATORIA     | 11000               | 80                  |                    |
|        |      | TOTAL               | 15000               |                     |                    |

01017100 AROOSTOOK RIVER AT CARIBOU, ME--Continued

## QUALITATIVE AND ASSOCIATED QUANTITATIVE ANALYSES OF BIOLOGICAL DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

## PHYTOPLANKTON

| DATE   | TIME | ORGANISM              | COUNT<br>(CELLS/ML) | PERCENT<br>OF TOTAL | SAMPLING<br>METHOD |
|--------|------|-----------------------|---------------------|---------------------|--------------------|
| Dec 29 | 1200 | CHLOROPHYTA           |                     |                     | DEPTH INTEGRATED   |
|        |      | ..CHLOROPHYCEAE       |                     |                     |                    |
|        |      | ...CHLOROCOCCALES     |                     |                     |                    |
|        |      | ...OCCYSTACEAE        |                     |                     |                    |
|        |      | ....ANKISTRODESMUS    | 5                   | 3                   |                    |
|        |      | ...SCENEDESMACEAE     |                     |                     |                    |
|        |      | ....SCENEDESMUS       | 110                 | 53                  |                    |
|        |      | ..VOLVOCALES          |                     |                     |                    |
|        |      | ...CHLAMYDOMONADACEAE |                     |                     |                    |
|        |      | ....CHLAMYDOMONAS     | 5                   | 3                   |                    |
|        |      | CHRYSOPHYTA           |                     |                     |                    |
|        |      | ..BACILLARIOPHYCEAE   |                     |                     |                    |
|        |      | ..CENTRALES           |                     |                     |                    |
|        |      | ...COSCINODISCACEAE   |                     |                     |                    |
|        |      | ....CYCLOTELLA        | 5                   | 3                   |                    |
|        |      | ....MELOSIRA          |                     |                     |                    |
|        |      | ..PENNALES            |                     |                     |                    |
|        |      | ...ACHNANTHACEAE      |                     |                     |                    |
|        |      | ....ACHNANTHES        | 37                  | 18                  |                    |
|        |      | ...CYMBELLACEAE       |                     |                     |                    |
|        |      | ....CYMBELLA          | 5                   | 3                   |                    |
|        |      | ...DIATOMACEAE        |                     |                     |                    |
|        |      | ....DIATOMA           |                     |                     |                    |
|        |      | ...FRAGILARIACEAE     |                     |                     |                    |
|        |      | ....ASTERIONELLA      |                     |                     |                    |
|        |      | ....FRAGILARIA        |                     |                     |                    |
|        |      | ....SYNEDRA           | 16                  | 8                   |                    |
|        |      | ...GOMPHONEMATACEAE   |                     |                     |                    |
|        |      | ....GOMPHONEMA        | 5                   | 3                   |                    |
|        |      | ...NAVICULACEAE       |                     |                     |                    |
|        |      | ....NAVICULA          | 11                  | 5                   |                    |
|        |      | ...NITZSCHIACEAE      |                     |                     |                    |
|        |      | ....NITZSCHIA         | 5                   | 3                   |                    |
|        |      | CHRYSOPHYCEAE         |                     |                     |                    |
|        |      | ..CHRYSOMONADALES     |                     |                     |                    |
|        |      | ...OCHROMONADACEAE    |                     |                     |                    |
|        |      | ....DINOBYRON         |                     |                     |                    |
|        |      | CYANOPHYTA            |                     |                     |                    |
|        |      | ..MYXOPHYCEAE         |                     |                     |                    |
|        |      | ...OSCILLATORIALES    |                     |                     |                    |
|        |      | ....OSCILLATORIA      |                     |                     |                    |
|        |      | ....OSCILLATORIA      |                     |                     |                    |
|        |      | TOTAL                 | 200                 |                     |                    |
| Feb 05 | 1230 | CHRYSOPHYTA           |                     |                     | DEPTH INTEGRATED   |
|        |      | ..BACILLARIOPHYCEAE   |                     |                     |                    |
|        |      | ..PENNALES            |                     |                     |                    |
|        |      | ...FRAGILARIACEAE     |                     |                     |                    |
|        |      | ....FRAGILARIA        | 8000                | 26                  |                    |
|        |      | ...NAVICULACEAE       |                     |                     |                    |
|        |      | ....NAVICULA          |                     |                     |                    |
|        |      | ...NITZSCHIACEAE      |                     |                     |                    |
|        |      | ....NITZSCHIA         | 430                 | 1                   |                    |
|        |      | CYANOPHYTA            |                     |                     |                    |
|        |      | ..MYXOPHYCEAE         |                     |                     |                    |
|        |      | ...OSCILLATORIALES    |                     |                     |                    |
|        |      | ....OSCILLATORIA      |                     |                     |                    |
|        |      | ....OSCILLATORIA      | 22000               | 72                  |                    |
|        |      | TOTAL                 | 31000               |                     |                    |

QUALITATIVE AND ASSOCIATED QUANTITATIVE ANALYSES OF BIOLOGICAL DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

| DATE   | TIME | ORGANISM            | COUNT<br>(CELLS/ML) | PERCENT<br>OF TOTAL | SAMPLING<br>METHOD |
|--------|------|---------------------|---------------------|---------------------|--------------------|
| Feb 25 | 1300 | CHLOROPHYTA         |                     |                     | DEPTH INTEGRATED   |
|        |      | ..CHLOROPHYCEAE     |                     |                     |                    |
|        |      | ..CHLOROCOCCALES    |                     |                     |                    |
|        |      | ...OCCYSTACEAE      |                     |                     |                    |
|        |      | ....ANKISTRODESMUS  | 6                   | 14                  |                    |
|        |      | CHYRSOPHYTA         |                     |                     |                    |
|        |      | ..BACILLARIOPHYCEAE |                     |                     |                    |
|        |      | ..CENTRALES         |                     |                     |                    |
|        |      | ...RHIZOSOLENIACEAE |                     |                     |                    |
|        |      | ...RHIZOLENIA       | 6                   | 14                  |                    |
|        |      | ..PENNALES          |                     |                     |                    |
|        |      | ...ACHNANTHACEAE    |                     |                     |                    |
|        |      | ....ACHNANTHES      | 6                   | 14                  |                    |
|        |      | ...FRAGILARIACEAE   |                     |                     |                    |
|        |      | ...ASTERIONELLA     | 3                   | 7                   |                    |
|        |      | ...SYNEDRA          | 3                   | 7                   |                    |
|        |      | ...NAVICULACEAE     |                     |                     |                    |
|        |      | ...NAVICULA         | 3                   | 7                   |                    |
|        |      | ...NITZSCHIA        |                     |                     |                    |
|        |      | ...NITZSCHIA        | 9                   | 21                  |                    |
|        |      | ...TABELLARIA       |                     |                     |                    |
|        |      | ...TABELLARIA       |                     |                     |                    |
|        |      | CYANOPHYTA          |                     |                     |                    |
|        |      | ..MYXOPHYCEAE       |                     |                     |                    |
|        |      | ..CHROOCOCCALES     |                     |                     |                    |
|        |      | ..CHROOCOCCACEAE    |                     |                     |                    |
|        |      | ....ANACYSTIS       | 6                   | 14                  |                    |
|        |      | TOTAL               | 42                  |                     |                    |
| Mar 30 | 1200 | CHLOROPHYTA         |                     |                     | DEPTH INTEGRATED   |
|        |      | ..CHLOROPHYCEAE     |                     |                     |                    |
|        |      | ..CHLOPOCOCCALES    |                     |                     |                    |
|        |      | ...HYDPODICTYACEAE  |                     |                     |                    |
|        |      | ...PEDIASTRUM       |                     |                     |                    |
|        |      | ...SCENEDESMACEAE   |                     |                     |                    |
|        |      | ...SCENEDESMUS      | 340                 | 1                   |                    |
|        |      | CHYRSOPHYTA         |                     |                     |                    |
|        |      | ..BACILLARIOPHYCEAE |                     |                     |                    |
|        |      | ..CENTRALES         |                     |                     |                    |
|        |      | ...COSCINODISCACEAE |                     |                     |                    |
|        |      | ...MELOSIRA         | 430                 | 2                   |                    |
|        |      | ..PENNALES          |                     |                     |                    |
|        |      | ...ACHNANTHACEAE    |                     |                     |                    |
|        |      | ...ACHNANTHES       | 170                 | 1                   |                    |
|        |      | ...COCCONEIS        |                     |                     |                    |
|        |      | ...DIATOMACEAE      |                     |                     |                    |
|        |      | ...DIATOMA          | 170                 | 1                   |                    |
|        |      | ...FRAGILARIACEAE   |                     |                     |                    |
|        |      | ...FRAGILARIA       | 1,400               | 6                   |                    |
|        |      | ...HANNAEA          |                     |                     |                    |
|        |      | ...SYNEDRA          | 260                 | 1                   |                    |
|        |      | ...GOMPHONEMATACEAE |                     |                     |                    |
|        |      | ...GOMPHONEMA       |                     |                     |                    |
|        |      | ...MERIDIONACEAE    |                     |                     |                    |
|        |      | ...MERIDION         |                     |                     |                    |
|        |      | ...NAVICULACEAE     |                     |                     |                    |
|        |      | ...NAVICULA         | 260                 | 1                   |                    |
|        |      | ...NITZSCHIA        |                     |                     |                    |
|        |      | ...NITZSCHIA        |                     |                     |                    |
|        |      | CYANOPHYTA          |                     |                     |                    |
|        |      | ..MYXOPHYCEAE       |                     |                     |                    |
|        |      | ...OSCILLATORIALES  |                     |                     |                    |
|        |      | ...OSCILLATORIA     |                     |                     |                    |
|        |      | ...OSCILLATORIA     | 20000               | 87                  |                    |
|        |      | TOTAL               | 23000               |                     |                    |



01017100 AROOSTOOK RIVER AT CARIBOU, ME--Continued

## QUALITATIVE AND ASSOCIATED QUANTITATIVE ANALYSES OF BIOLOGICAL DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

## PHYTOPLANKTON

| DATE   | TIME | ORGANISM            | COUNT<br>(CELLS/ML) | PERCENT<br>OF TOTAL | SAMPLING<br>METHOD |
|--------|------|---------------------|---------------------|---------------------|--------------------|
| May 04 | 1600 | CHRYSTOPHYTA        |                     |                     | DEPTH INTEGRATED   |
|        |      | .BACILLARIOPHYCEAE  |                     |                     |                    |
|        |      | ..PENNALES          |                     |                     |                    |
|        |      | ...ACHNANTHACEAE    | 26                  | 36                  |                    |
|        |      | ...ACHNANTHES       |                     |                     |                    |
|        |      | ...DIATOMACEAE      | 16                  | 21                  |                    |
|        |      | ...DIATOMA          |                     |                     |                    |
|        |      | ...FRAGILARIACEAE   | 5                   | 7                   |                    |
|        |      | ...SYNEDRA          |                     |                     |                    |
|        |      | ...MERIDIONACEAE    |                     |                     |                    |
|        |      | ...MERIDION         |                     |                     |                    |
|        |      | ...NAVICULACEAE     | 5                   | 7                   |                    |
|        |      | ...NAVICULA         |                     |                     |                    |
|        |      | ...STAURONEIS       |                     |                     |                    |
|        |      | ...NITZSCHIA        | 21                  | 29                  |                    |
|        |      | TOTAL               | 73                  |                     |                    |
| May 28 | 1530 | CHLOROPHYTA         |                     |                     | DEPTH INTEGRATED   |
|        |      | .CHLOROPHYCEAE      |                     |                     |                    |
|        |      | ..CHLOROCOCCALES    |                     |                     |                    |
|        |      | ...OCCYSTACEAE      | 10                  | 1                   |                    |
|        |      | ...TETRAEDRON       |                     |                     |                    |
|        |      | CHRYSTOPHYTA        |                     |                     |                    |
|        |      | .BACILLARIOPHYCEAE  |                     |                     |                    |
|        |      | ..PENNALES          |                     |                     |                    |
|        |      | ...ACHNANTHACEAE    | 100                 | 7                   |                    |
|        |      | ...ACHNANTHES       |                     |                     |                    |
|        |      | ...DIATOMACEAE      | 70                  | 5                   |                    |
|        |      | ...DIATOMA          |                     |                     |                    |
|        |      | ...FRAGILARIACEAE   | 60                  | 4                   |                    |
|        |      | ...SYNEDRA          |                     |                     |                    |
|        |      | ...MERIDIONACEAE    | 10                  | 1                   |                    |
|        |      | ...MERIDION         |                     |                     |                    |
|        |      | ...NAVICULACEAE     | 10                  | 1                   |                    |
|        |      | ...NAVICULA         |                     |                     |                    |
|        |      | ...NITZSCHIA        | 30                  | 2                   |                    |
|        |      | ..NITZSCHIA         |                     |                     |                    |
|        |      | CYANOPHYTA          |                     |                     |                    |
|        |      | .MYXOPHYCEAE        |                     |                     |                    |
|        |      | ..OSCILLATORIALES   |                     |                     |                    |
|        |      | ...OSCILLATORIAEAE  | 1100                | 78                  |                    |
|        |      | ...LYNGBYA          |                     |                     |                    |
|        |      | TOTAL               | 1400                |                     |                    |
| Jul 28 | 1800 | CHLOROPHYTA         |                     |                     | DEPTH INTEGRATED   |
|        |      | .CHLOROPHYCEAE      |                     |                     |                    |
|        |      | ..CHLOROCOCCALES    |                     |                     |                    |
|        |      | ...OCCYSTACEAE      | 47                  | 3                   |                    |
|        |      | ...ANKISTRODESMUS   |                     |                     |                    |
|        |      | ...SCENEDESMACEAE   | 47                  | 3                   |                    |
|        |      | ...SCENEDESMUS      |                     |                     |                    |
|        |      | ..ZYGNEMATALES      |                     |                     |                    |
|        |      | ...DESMIDIACEAE     |                     |                     |                    |
|        |      | ...CLOSTERIUM       |                     |                     |                    |
|        |      | ...COSMARIUM        |                     |                     |                    |
|        |      | ..SPONDYLIUM        | 93                  | 6                   |                    |
|        |      | CHRYSTOPHYTA        |                     |                     |                    |
|        |      | .BACILLARIOPHYCEAE  |                     |                     |                    |
|        |      | ..CENTRALES         |                     |                     |                    |
|        |      | ...COSCINODISCACEAE | 230                 | 14                  |                    |
|        |      | ...MELOSIRA         |                     |                     |                    |
|        |      | ..PENNALES          |                     |                     |                    |
|        |      | ...ACHNANTHACEAE    | 420                 | 25                  |                    |
|        |      | ...ACHNANTHES       |                     |                     |                    |
|        |      | ...CYMBELLACEAE     | 23                  | 1                   |                    |
|        |      | ...CYMBELLA         |                     |                     |                    |
|        |      | ...FRAGILARIACEAE   | 23                  | 1                   |                    |
|        |      | ...SYNEDRA          |                     |                     |                    |
|        |      | ...GOMPHONEMACEAE   | 93                  | 6                   |                    |
|        |      | ...GOMPHONEMA       |                     |                     |                    |
|        |      | ...NAVICULACEAE     | 190                 | 11                  |                    |
|        |      | ...NAVICULA         |                     |                     |                    |
|        |      | ...NITZSCHIA        | 210                 | 13                  |                    |
|        |      | ...NITZSCHIA        |                     |                     |                    |
|        |      | ...TABELLARIACEAE   | 23                  | 1                   |                    |
|        |      | ...TABELLARIA       |                     |                     |                    |
|        |      | ..CHRYSTOPHYCEAE    |                     |                     |                    |
|        |      | ..CHRYSOMONADALES   |                     |                     |                    |
|        |      | ...MALLONADACEAE    | 23                  | 1                   |                    |
|        |      | ...MALLONAS         |                     |                     |                    |
|        |      | CYANOPHYTA          |                     |                     |                    |
|        |      | .MYXOPHYCEAE        |                     |                     |                    |
|        |      | ..CHROOCOCCALES     |                     |                     |                    |
|        |      | ...CHROOCOCCACEAE   | 230                 | 14                  |                    |
|        |      | ...ANACYSTIS        |                     |                     |                    |
|        |      | TOTAL               | 1700                |                     |                    |

## ST. JOHN RIVER BASIN

01017100 AROOSTOOK RIVER AT CARIBOU, ME--Continued

QUALITATIVE AND ASSOCIATED QUANTITATIVE ANALYSES OF BIOLOGICAL DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

## PHYTOPLANKTON

| DATE   | TIME | ORGANISM            | COUNT<br>(CELLS/ML) | PERCENT<br>OF TOTAL | SAMPLING<br>METHOD |
|--------|------|---------------------|---------------------|---------------------|--------------------|
| Aug 31 | 1430 | CHLOROPHYTA         |                     |                     | DEPTH INTEGRATED   |
|        |      | ..CHLOROPHYCEAE     |                     |                     |                    |
|        |      | ...CHLOROCOCCALES   |                     |                     |                    |
|        |      | ...SCENEDESMACEAE   |                     |                     |                    |
|        |      | ....SCENEDESMUS     | 33                  | 4                   |                    |
|        |      | ..ZYGNEMATALES      |                     |                     |                    |
|        |      | ...DESMIDIACEAE     |                     |                     |                    |
|        |      | ....CLOSTERIUM      | 8                   | 1                   |                    |
|        |      | CHRYSOPHYTA         |                     |                     |                    |
|        |      | ..BACILLARIOPHYCEAE |                     |                     |                    |
|        |      | ...CENTRALES        |                     |                     |                    |
|        |      | ...COSCINODISCEAE   |                     |                     |                    |
|        |      | ....CYCLOTELLA      | 8                   | 1                   |                    |
|        |      | ....MELOSIRA        | 82                  | 10                  |                    |
|        |      | ..PENNALES          |                     |                     |                    |
|        |      | ...ACHNANTHACEAE    |                     |                     |                    |
|        |      | ....ACHNANTHES      | 8                   | 1                   |                    |
|        |      | ...DIATOMACEAE      |                     |                     |                    |
|        |      | ....DIATOMA         | 8                   | 1                   |                    |
|        |      | ...FRAGILARIACEAE   |                     |                     |                    |
|        |      | ....FRAGILARIA      | 66                  | 8                   |                    |
|        |      | ....SYNEDRA         | 66                  | 8                   |                    |
|        |      | ...GOMPHONEMACEAE   |                     |                     |                    |
|        |      | ....GOMPHONEMA      | 16                  | 2                   |                    |
|        |      | ...NAVICULACEAE     |                     |                     |                    |
|        |      | ....NAVICULA        | 420                 | 51                  |                    |
|        |      | ...NITZSCHIACEAE    |                     |                     |                    |
|        |      | ....NITZSCHIA       | 8                   | 1                   |                    |
|        |      | CYANOPHYTA          |                     |                     |                    |
|        |      | ..MYXOPHYCEAE       |                     |                     |                    |
|        |      | ...OSCILLATORIALES  |                     |                     |                    |
|        |      | ...OSCILLATORIA     |                     |                     |                    |
|        |      | ....OSCILLATORIA    | 82                  | 10                  |                    |
|        |      | EUGLENOPHYTA        |                     |                     |                    |
|        |      | ..EUGLENOPHYCEAE    |                     |                     |                    |
|        |      | ...EUGLENALES       |                     |                     |                    |
|        |      | ...EUGLENACEAE      |                     |                     |                    |
|        |      | ....EUGLENA         | 8                   | 1                   |                    |
|        |      | ....TRACHELOMONAS   | 8                   | 1                   |                    |
|        |      | TOTAL               | 820                 |                     |                    |
| Sep 22 | 1300 | CHRYSOPHYTA         |                     |                     | DEPTH INTEGRATED   |
|        |      | ..BACILLARIOPHYCEAE |                     |                     |                    |
|        |      | ...CENTRALES        |                     |                     |                    |
|        |      | ...COSCINODISCEAE   |                     |                     |                    |
|        |      | ....MELOSIRA        |                     |                     |                    |
|        |      | ..PENNALES          |                     |                     |                    |
|        |      | ...ACHNANTHACEAE    |                     |                     |                    |
|        |      | ....ACHNANTHES      | 83                  | 29                  |                    |
|        |      | ...COCCONEIS        | 15                  | 5                   |                    |
|        |      | ...CYMBELLACEAE     |                     |                     |                    |
|        |      | ....CYMBELLA        | 30                  | 11                  |                    |
|        |      | ...FRAGILARIACEAE   |                     |                     |                    |
|        |      | ....FRAGILARIA      |                     |                     |                    |
|        |      | ....SYNEDRA         | 23                  | 8                   |                    |
|        |      | ...GOMPHONEMACEAE   |                     |                     |                    |
|        |      | ....GOMPHONEMA      | 15                  | 5                   |                    |
|        |      | ...NAVICULACEAE     |                     |                     |                    |
|        |      | ....NAVICULA        | 110                 | 39                  |                    |
|        |      | ...NITZSCHIACEAE    |                     |                     |                    |
|        |      | ....NITZSCHIA       | 8                   | 3                   |                    |
|        |      | EUGLENOPHYTA        |                     |                     |                    |
|        |      | ..EUGLENOPHYCEAE    |                     |                     |                    |
|        |      | ...EUGLENALES       |                     |                     |                    |
|        |      | ...EUGLENACEAE      |                     |                     |                    |
|        |      | ....LEPOCINCLIS     |                     |                     |                    |
|        |      | TOTAL               | 280                 |                     |                    |

QUALITATIVE AND QUANTITATIVE ANALYSES OF BIOLOGICAL DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

| DATE   | LENGTH OF<br>EXPOSURE<br>(DAYS) | BIOMASS(G/SQ M) |            | PERIPHYTON                    |                               | BIOMASS<br>PIGMENT<br>RATIO | SAMPLING<br>METHOD   |
|--------|---------------------------------|-----------------|------------|-------------------------------|-------------------------------|-----------------------------|----------------------|
|        |                                 | DRY WEIGHT      | ASH WEIGHT | CHLOROPHYLL<br>A<br>(MG/SQ M) | CHLOROPHYLL<br>B<br>(MG/SQ M) |                             |                      |
| AUG 31 | 34                              | 12              | 8.2        | 58                            | 1.2                           | 59                          | ARTIFICIAL SUBSTRATE |

01017100 AROOSTOOK RIVER AT CARIBOU, ME--Continued

## SPECIFIC CONDUCTANCE (MICROMHOS/CM AT 25 DEG. C), WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

| DAY   | OCTOBER  |     |      | NOVEMBER |     |      | DECEMBER |     |      | JANUARY |     |      |
|-------|----------|-----|------|----------|-----|------|----------|-----|------|---------|-----|------|
|       | MAX      | MIN | MEAN | MAX      | MIN | MEAN | MAX      | MIN | MEAN | MAX     | MIN | MEAN |
| 1     | 128      | 118 | 123  | 101      | 97  | 99   | 99       | 90  | 94   | 90      | 53  | 64   |
| 2     | 118      | 112 | 114  | 102      | 98  | 100  | 109      | 100 | 103  | 109     | 53  | 61   |
| 3     | 111      | 107 | 108  | 104      | 100 | 102  | 112      | 110 | 111  | 108     | 52  | 75   |
| 4     | 107      | 106 | 107  | 104      | 99  | 101  | 112      | 102 | 106  | 59      | 52  | 54   |
| 5     | 107      | 106 | 107  | 106      | 98  | 101  | 106      | 102 | 103  | 109     | 52  | 87   |
| 6     | 108      | 106 | 107  | 112      | 103 | 107  | 107      | 100 | 103  | 108     | 55  | 96   |
| 7     | 108      | 106 | 107  | 114      | 108 | 111  | 109      | 105 | 106  | 108     | 54  | 72   |
| 8     | 112      | 107 | 109  | 115      | 106 | 110  | 109      | 103 | 105  | 113     | 58  | 61   |
| 9     | 118      | 111 | 115  | 114      | 106 | 110  | 107      | 104 | 105  | 114     | 100 | 112  |
| 10    | 123      | 116 | 119  | 116      | 110 | 113  | 109      | 103 | 107  | 112     | 108 | 110  |
| 11    | 121      | 120 | 120  | 120      | 112 | 116  | 140      | 104 | 114  | 113     | 103 | 109  |
| 12    | 124      | 121 | 122  | 127      | 114 | 119  | 140      | 123 | 127  | 103     | 98  | 101  |
| 13    | 126      | 123 | 125  | 122      | 114 | 119  | 125      | 123 | 123  | 104     | 54  | 87   |
| 14    | 125      | 124 | 124  | 123      | 113 | 119  | 124      | 115 | 121  | 103     | 97  | 100  |
| 15    | 124      | 121 | 122  | 119      | 112 | 117  | 114      | 103 | 108  | 106     | 100 | 103  |
| 16    | 121      | 118 | 119  | 112      | 92  | 101  | 137      | 111 | 122  | 104     | 101 | 103  |
| 17    | 120      | 117 | 118  | 92       | 89  | 90   | 140      | 123 | 131  | 110     | 103 | 107  |
| 18    | 118      | 111 | 114  | 93       | 89  | 91   | 125      | 120 | 123  | 106     | 100 | 103  |
| 19    | 112      | 106 | 109  | 94       | 91  | 92   | 129      | 123 | 127  | 104     | 99  | 101  |
| 20    | 108      | 104 | 106  | 95       | 92  | 93   | 129      | 123 | 127  | 102     | 97  | 100  |
| 21    | 109      | 108 | 108  | 97       | 93  | 95   | 126      | 122 | 124  | 105     | 100 | 102  |
| 22    | 108      | 106 | 107  | 109      | 95  | 99   | 128      | 123 | 126  | 106     | 101 | 103  |
| 23    | 107      | 100 | 103  | 113      | 103 | 109  | 129      | 122 | 125  | 110     | 103 | 105  |
| 24    | 100      | 94  | 97   | 103      | 91  | 99   | 130      | 128 | 130  | 111     | 106 | 109  |
| 25    | 95       | 92  | 93   | 96       | 89  | 92   | 128      | 105 | 115  | 110     | 101 | 106  |
| 26    | 96       | 92  | 94   | 97       | 95  | 96   | 109      | 107 | 108  | 101     | 53  | 82   |
| 27    | 95       | 92  | 94   | 96       | 92  | 93   | 109      | 108 | 108  | 62      | 55  | 59   |
| 28    | 95       | 90  | 92   | 98       | 93  | 95   | 108      | 108 | 108  | 120     | 58  | 84   |
| 29    | 96       | 91  | 94   | 102      | 98  | 100  | 110      | 52  | 93   | 120     | 75  | 94   |
| 30    | 101      | 95  | 96   | 102      | 97  | 99   | 108      | 104 | 106  | 130     | 117 | 122  |
| 31    | 101      | 96  | 98   | ---      | --- | ---  | 106      | 52  | 59   | 123     | 109 | 114  |
| MONTH | 128      | 90  | 109  | 127      | 89  | 103  | 140      | 52  | 112  | 130     | 52  | 93   |
| DAY   | FEBRUARY |     |      | MARCH    |     |      | APRIL    |     |      | MAY     |     |      |
|       | MAX      | MIN | MEAN | MAX      | MIN | MEAN | MAX      | MIN | MEAN | MAX     | MIN | MEAN |
| 1     | 109      | 59  | 76   | 108      | 98  | 102  | 94       | 89  | 91   | 51      | 46  | 48   |
| 2     | 105      | 58  | 78   | 109      | 98  | 103  | 93       | 85  | 89   | 48      | 44  | 45   |
| 3     | 109      | 100 | 104  | 113      | 93  | 102  | 93       | 81  | 87   | 45      | 43  | 44   |
| 4     | 103      | 92  | 97   | 102      | 88  | 96   | 95       | 71  | 82   | ---     | --- | ---  |
| 5     | 108      | 93  | 95   | 113      | 90  | 97   | 82       | 63  | 70   | 43      | 41  | 42   |
| 6     | 108      | 102 | 104  | 129      | 87  | 102  | 65       | 58  | 62   | 44      | 42  | 42   |
| 7     | 102      | 101 | 102  | 155      | 91  | 113  | 63       | 58  | 61   | 44      | 42  | 43   |
| 8     | 102      | 100 | 101  | 121      | 89  | 95   | 63       | 58  | 61   | 46      | 44  | 45   |
| 9     | 101      | 99  | 100  | 125      | 87  | 103  | 63       | 58  | 61   | 45      | 41  | 43   |
| 10    | 102      | 99  | 101  | 116      | 84  | 101  | 66       | 61  | 63   | ---     | --- | ---  |
| 11    | 104      | 67  | 101  | 141      | 97  | 113  | 65       | 62  | 63   | ---     | --- | ---  |
| 12    | 106      | 104 | 105  | 130      | 98  | 112  | 75       | 61  | 66   | ---     | --- | ---  |
| 13    | 114      | 71  | 98   | 116      | 94  | 104  | 72       | 63  | 66   | ---     | --- | ---  |
| 14    | 108      | 106 | 107  | 115      | 93  | 101  | 71       | 66  | 67   | ---     | --- | ---  |
| 15    | 115      | 107 | 112  | 172      | 94  | 112  | 70       | 67  | 69   | ---     | --- | ---  |
| 16    | 121      | 83  | 112  | 126      | 94  | 112  | 78       | 69  | 72   | ---     | --- | ---  |
| 17    | 109      | 92  | 107  | 141      | 92  | 106  | 77       | 73  | 75   | ---     | --- | ---  |
| 18    | 111      | 104 | 107  | 146      | 83  | 104  | 74       | 65  | 70   | ---     | --- | ---  |
| 19    | 110      | 71  | 99   | 128      | 83  | 107  | 64       | 60  | 62   | ---     | --- | ---  |
| 20    | 126      | 72  | 90   | 107      | 58  | 73   | 63       | 57  | 60   | ---     | --- | ---  |
| 21    | 130      | 79  | 105  | 115      | 56  | 74   | 56       | 49  | 53   | ---     | --- | ---  |
| 22    | 84       | 77  | 80   | 138      | 58  | 115  | 48       | 47  | 47   | ---     | --- | ---  |
| 23    | 129      | 80  | 97   | 135      | 126 | 130  | 47       | 46  | 47   | ---     | --- | ---  |
| 24    | 123      | 77  | 106  | 124      | 119 | 122  | 47       | 46  | 46   | ---     | --- | ---  |
| 25    | 121      | 81  | 94   | 121      | 118 | 119  | 46       | 44  | 45   | ---     | --- | ---  |
| 26    | 106      | 81  | 90   | 120      | 116 | 118  | 46       | 44  | 45   | ---     | --- | ---  |
| 27    | 113      | 92  | 101  | 118      | 115 | 117  | 51       | 46  | 48   | ---     | --- | ---  |
| 28    | 139      | 107 | 115  | 114      | 102 | 108  | 102      | 47  | 50   | ---     | --- | ---  |
| 29    | 122      | 103 | 111  | 104      | 98  | 100  | 106      | 45  | 59   | 66      | 60  | 63   |
| 30    | ---      | --- | ---  | 146      | 99  | 111  | 113      | 45  | 92   | 69      | 65  | 67   |
| 31    | ---      | --- | ---  | 99       | 93  | 96   | ---      | --- | ---  | 69      | 64  | 67   |
| MONTH | 139      | 58  | 100  | 172      | 56  | 105  | 113      | 44  | 64   | ---     | --- | ---  |

## ST. JOHN RIVER BASIN

01017100 AROOSTOOK RIVER AT CARIBOU, ME--Continued

SPECIFIC CONDUCTANCE (MICROMHOS/CM AT 25 DEG. C), WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

| DAY   | JUNE |     |      | JULY |     |      | AUGUST |     |      | SEPTEMBER |     |      |
|-------|------|-----|------|------|-----|------|--------|-----|------|-----------|-----|------|
|       | MAX  | MIN | MEAN | MAX  | MIN | MEAN | MAX    | MIN | MEAN | MAX       | MIN | MEAN |
| 1     | 76   | 68  | 73   | 114  | 110 | 112  | 73     | 69  | 71   | 81        | 72  | 78   |
| 2     | 74   | 69  | 72   | 120  | 112 | 116  | 86     | 73  | 81   | 90        | 83  | 87   |
| 3     | 70   | 67  | 68   | 120  | 104 | 111  | 87     | 71  | 79   | 86        | 80  | 83   |
| 4     | 70   | 67  | 68   | 123  | 118 | 121  | 72     | 68  | 70   | 83        | 76  | 80   |
| 5     | 78   | 67  | 74   | 117  | 113 | 115  | 71     | 68  | 70   | 87        | 79  | 82   |
| 6     | 80   | 72  | 77   | 126  | 113 | 119  | 80     | 69  | 74   | 93        | 86  | 89   |
| 7     | 81   | 75  | 78   | 135  | 125 | 130  | 89     | 79  | 85   | 93        | 89  | 91   |
| 8     | 79   | 74  | 77   | 147  | 136 | 141  | 86     | 74  | 79   | 90        | 87  | 89   |
| 9     | 88   | 76  | 84   | 152  | 147 | 150  | 79     | 74  | 77   | 93        | 86  | 90   |
| 10    | 89   | 81  | 85   | 155  | 148 | 151  | 102    | 78  | 86   | 94        | 90  | 92   |
| 11    | 86   | 80  | 83   | 155  | 151 | 152  | 103    | 72  | 89   | 101       | 93  | 95   |
| 12    | 97   | 82  | 91   | 158  | 154 | 156  | 72     | 61  | 66   | 108       | 98  | 103  |
| 13    | 97   | 91  | 95   | 178  | 160 | 171  | 63     | 61  | 62   | 107       | 103 | 105  |
| 14    | 92   | 83  | 88   | 169  | 150 | 158  | 66     | 62  | 64   | 103       | 97  | 101  |
| 15    | 88   | 82  | 85   | 151  | 147 | 149  | 74     | 66  | 71   | 103       | 97  | 99   |
| 16    | 87   | 82  | 85   | 160  | 151 | 154  | 76     | 73  | 75   | 105       | 101 | 103  |
| 17    | 102  | 85  | 95   | 166  | 160 | 163  | 76     | 72  | 74   | 108       | 103 | 105  |
| 18    | 101  | 88  | 96   | 177  | 167 | 172  | 75     | 71  | 73   | 111       | 105 | 107  |
| 19    | 93   | 85  | 90   | 183  | 176 | 179  | 76     | 71  | 74   | 114       | 109 | 111  |
| 20    | 98   | 87  | 93   | 194  | 183 | 188  | 78     | 73  | 76   | 122       | 115 | 118  |
| 21    | 102  | 98  | 100  | ---  | --- | ---  | 83     | 77  | 80   | 125       | 122 | 123  |
| 22    | 107  | 103 | 105  | ---  | --- | ---  | 90     | 82  | 86   | 125       | 100 | 117  |
| 23    | 107  | 103 | 105  | ---  | --- | ---  | 93     | 88  | 91   | 113       | 97  | 105  |
| 24    | 111  | 102 | 106  | ---  | --- | ---  | 96     | 92  | 94   | 99        | 94  | 97   |
| 25    | 116  | 108 | 111  | ---  | --- | ---  | 101    | 94  | 97   | 96        | 92  | 94   |
| 26    | 117  | 109 | 113  | ---  | --- | ---  | 105    | 99  | 102  | 96        | 91  | 94   |
| 27    | 117  | 105 | 110  | ---  | --- | ---  | 107    | 103 | 104  | 108       | 94  | 99   |
| 28    | 115  | 110 | 111  | 77   | 74  | 22   | 110    | 107 | 109  | 113       | 103 | 110  |
| 29    | 113  | 111 | 112  | 77   | 68  | 74   | 120    | 109 | 111  | 102       | 87  | 94   |
| 30    | 113  | 111 | 112  | 71   | 67  | 69   | 138    | 109 | 127  | 88        | 82  | 85   |
| 31    | ---  | --- | ---  | 71   | 68  | 70   | 108    | 80  | 94   | ---       | --- | ---  |
| MONTH | 117  | 67  | 91   | ---  | --- | ---  | 138    | 61  | 84   | 125       | 72  | 98   |
| YEAR  | 194  | 41  | 97   |      |     |      |        |     |      |           |     |      |

TEMPERATURE (DEG. C) OF WATER, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

| DAY   | OCTOBER |      |      | NOVEMBER |     |      | DECEMBER |      |      | JANUARY |     |      |
|-------|---------|------|------|----------|-----|------|----------|------|------|---------|-----|------|
|       | MAX     | MIN  | MEAN | MAX      | MIN | MEAN | MAX      | MIN  | MEAN | MAX     | MIN | MEAN |
| 1     | 15.5    | 14.5 | 15.0 | 4.0      | 3.0 | 3.5  | 0.5      | 0.0  | 0.0  | 0.0     | 0.0 | 0.0  |
| 2     | 15.5    | 15.0 | 15.0 | 3.5      | 2.5 | 3.0  | 0.5      | 0.0  | 0.0  | 0.5     | 0.0 | 0.0  |
| 3     | 15.0    | 13.5 | 14.5 | 4.0      | 2.5 | 3.0  | 0.5      | 0.0  | 0.0  | 0.5     | 0.0 | 0.0  |
| 4     | 13.5    | 11.5 | 12.0 | 5.0      | 3.5 | 4.5  | 0.5      | 0.0  | 0.0  | 0.0     | 0.0 | 0.0  |
| 5     | 11.5    | 10.5 | 11.0 | 5.5      | 4.5 | 5.0  | 0.5      | 0.0  | 0.0  | 0.5     | 0.0 | 0.5  |
| 6     | 11.0    | 10.0 | 10.5 | 5.5      | 4.0 | 5.0  | 0.5      | 0.0  | 0.0  | 0.5     | 0.0 | 0.5  |
| 7     | 10.5    | 9.5  | 10.0 | 4.5      | 4.0 | 4.5  | 0.0      | 0.0  | 0.0  | 0.5     | 0.0 | 0.5  |
| 8     | 10.0    | 9.0  | 9.5  | 4.0      | 3.5 | 4.0  | 0.5      | 0.0  | 0.0  | 0.5     | 0.0 | 0.5  |
| 9     | 9.0     | 8.0  | 8.5  | 5.5      | 4.0 | 5.0  | 0.5      | 0.0  | 0.5  | 1.5     | 0.0 | 0.5  |
| 10    | 8.5     | 7.0  | 7.5  | 8.0      | 6.0 | 7.0  | 0.5      | 0.0  | 0.5  | 0.5     | 0.0 | 0.0  |
| 11    | 8.0     | 7.0  | 7.5  | 7.5      | 6.5 | 7.0  | 0.5      | 0.0  | 0.0  | 1.5     | 0.0 | 0.5  |
| 12    | 7.5     | 6.5  | 7.0  | 6.5      | 5.5 | 6.0  | 0.5      | 0.0  | 0.0  | 0.5     | 0.0 | 0.0  |
| 13    | 8.5     | 7.0  | 8.0  | 5.0      | 4.0 | 4.5  | 0.0      | 0.0  | 0.0  | 0.5     | 0.0 | 0.5  |
| 14    | 9.5     | 8.0  | 9.0  | 4.5      | 4.0 | 4.5  | 0.0      | 0.0  | 0.0  | 0.5     | 0.0 | 0.5  |
| 15    | 9.5     | 8.5  | 9.0  | 5.0      | 4.0 | 4.5  | 0.5      | 0.0  | 0.0  | 1.0     | 0.0 | 0.5  |
| 16    | 9.5     | 8.5  | 9.0  | 4.0      | 2.5 | 3.5  | 0.5      | 0.0  | 0.5  | 0.5     | 0.0 | 0.5  |
| 17    | 9.0     | 8.0  | 8.5  | 2.5      | 2.0 | 2.5  | 0.5      | 0.0  | 0.5  | 0.5     | 0.0 | 0.0  |
| 18    | 8.0     | 6.5  | 7.5  | 3.0      | 2.5 | 2.5  | 0.5      | 0.0  | 0.5  | 0.5     | 0.0 | 0.0  |
| 19    | 7.5     | 6.5  | 7.0  | 3.0      | 2.0 | 2.5  | 0.5      | 0.0  | 0.5  | 0.5     | 0.0 | 0.5  |
| 20    | 7.0     | 6.5  | 7.0  | 2.5      | 1.5 | 2.0  | 0.5      | 0.0  | 0.5  | 0.5     | 0.0 | 0.5  |
| 21    | 7.0     | 6.0  | 6.5  | 1.5      | 1.0 | 1.0  | 0.5      | -0.5 | 0.0  | 0.5     | 0.0 | 0.5  |
| 22    | 7.0     | 6.0  | 6.5  | 1.5      | 1.0 | 1.0  | 1.0      | 0.0  | 0.5  | 0.5     | 0.0 | 0.5  |
| 23    | 6.5     | 5.5  | 6.0  | 2.0      | 0.0 | 1.0  | 1.0      | 0.0  | 0.5  | 0.5     | 0.0 | 0.5  |
| 24    | 6.5     | 5.0  | 6.0  | 0.5      | 0.0 | 0.0  | 0.5      | 0.0  | 0.5  | 0.5     | 0.0 | 0.0  |
| 25    | 7.5     | 6.0  | 7.0  | 0.5      | 0.0 | 0.0  | 3.5      | -0.5 | 1.5  | 0.5     | 0.0 | 0.0  |
| 26    | 9.0     | 7.5  | 8.5  | 0.5      | 0.0 | 0.0  | 3.5      | 0.5  | 2.0  | 1.0     | 0.0 | 0.5  |
| 27    | 9.5     | 8.0  | 9.0  | 0.0      | 0.0 | 0.0  | 1.0      | 0.0  | 0.5  | 0.5     | 0.0 | 0.0  |
| 28    | 8.0     | 7.0  | 7.5  | 0.5      | 0.0 | 0.0  | 1.5      | 0.5  | 1.0  | 0.5     | 0.0 | 0.0  |
| 29    | 8.0     | 6.5  | 7.0  | 0.5      | 0.0 | 0.0  | 0.5      | 0.5  | 0.5  | 0.5     | 0.0 | 0.0  |
| 30    | 7.5     | 7.0  | 7.5  | 0.5      | 0.0 | 0.0  | 0.5      | 0.0  | 0.5  | 0.5     | 0.0 | 0.0  |
| 31    | 6.5     | 4.5  | 5.5  | ---      | --- | ---  | 0.5      | 0.0  | 0.0  | 0.0     | 0.0 | 0.0  |
| MONTH | 15.5    | 4.5  | 8.5  | 8.0      | 0.0 | 3.0  | 3.5      | -0.5 | 0.5  | 1.5     | 0.0 | 0.5  |

TEMPERATURE (DEG. C) OF WATER, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

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



## ST. JOHN RIVER BASIN

01017900 MARLEY BROOK NEAR LUDLOW, ME

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

DRAINAGE AREA.--1.47 mi<sup>2</sup> (3.81 km<sup>2</sup>).

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.

AVERAGE DISCHARGE.--12 years (water years 1965-76), 2.68 ft<sup>3</sup>/s (0.0759 m<sup>3</sup>/s), 24.76 in/yr (629 mm/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 335 ft<sup>3</sup>/s (9.49 m<sup>3</sup>/s) July 5, 1973, gage height, 10.36 ft (3.158 m); minimum discharge, 0.02 ft<sup>3</sup>/s (0.001 m<sup>3</sup>/s) Aug. 31, Sept. 1-4, 1966, Aug. 12, 1968, and Aug. 16, 1974.

EXTREMES FOR CURRENT YEAR.--Peak discharges above base of 25 ft<sup>3</sup>/s (0.71 m<sup>3</sup>/s) and maximums (\*):

| Date    | Time | Discharge<br>(ft <sup>3</sup> /s) (m <sup>3</sup> /s) | Gage height<br>(ft) (m) | Date    | Time | Discharge<br>(ft <sup>3</sup> /s) (m <sup>3</sup> /s) | Gage height<br>(ft) (m) |
|---------|------|-------------------------------------------------------|-------------------------|---------|------|-------------------------------------------------------|-------------------------|
| Feb. 3  | 1315 | 26 0.74                                               | 4.68 1.426              | Apr. 17 | 1945 | 27 0.76                                               | 4.69 1.430              |
| Mar. 29 | 0930 | 35 0.99                                               | 4.91 1.497              | May 19  | 1815 | 70 1.98                                               | 5.69 1.734              |
| Apr. 2  | 1600 | *138 3.91                                             | *7.10 2.164             | Aug. 10 | 1230 | 53 1.50                                               | 5.32 1.622              |

Minimum discharge, 0.09 ft<sup>3</sup>/s (0.003 m<sup>3</sup>/s) part or all of each day Oct. 6-12, gage height, 3.53 ft (1.076 m).

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976  
MEAN VALUES

| DAY               | OCT     | NOV   | DEC  | JAN       | FEB    | MAR     | APR       | MAY      | JUN   | JUL   | AUG   | SEP   |
|-------------------|---------|-------|------|-----------|--------|---------|-----------|----------|-------|-------|-------|-------|
| 1                 | .69     | .32   | 4.9  | 1.1       | 8.2    | 2.4     | 20        | 7.1      | 12    | 7.8   | 1.1   | 3.0   |
| 2                 | .61     | .28   | 4.8  | .95       | 9.3    | 2.3     | 87        | 8.2      | 6.8   | 6.1   | 2.0   | .60   |
| 3                 | .61     | .26   | 3.1  | .93       | 19     | 2.2     | 68        | 7.8      | 5.2   | 4.0   | .88   | .22   |
| 4                 | .52     | .26   | 2.4  | 1.0       | 16     | 2.2     | 34        | 8.4      | 4.5   | 3.2   | .60   | .22   |
| 5                 | .43     | .26   | 2.0  | .95       | 11     | 2.8     | 15        | 6.6      | 3.6   | 1.8   | .48   | .24   |
| 6                 | .32     | .26   | 1.8  | .91       | 6.3    | 3.9     | 12        | 6.1      | 3.2   | 1.1   | 1.2   | .20   |
| 7                 | .09     | .26   | 1.7  | .90       | 4.7    | 3.1     | 12        | 6.6      | 2.9   | .81   | .88   | .22   |
| 8                 | .09     | .27   | 1.6  | .92       | 3.7    | 2.6     | 11        | 11       | 2.7   | .81   | .67   | .32   |
| 9                 | .09     | .36   | 1.5  | .89       | 3.4    | 2.3     | 11        | 7.4      | 2.4   | .99   | .88   | .70   |
| 10                | .09     | .34   | 1.4  | .89       | 2.9    | 2.2     | 12        | 6.2      | 2.0   | .60   | 24    | 1.1   |
| 11                | .09     | 2.1   | 1.4  | .87       | 2.8    | 2.1     | 12        | 5.4      | 2.5   | .48   | 11    | 1.7   |
| 12                | .11     | 1.4   | 1.3  | .80       | 2.5    | 1.9     | 8.6       | 8.1      | 4.8   | 2.5   | 5.1   | 1.3   |
| 13                | .68     | 4.4   | 1.3  | .87       | 2.2    | 1.9     | 7.7       | 11       | 3.2   | 7.3   | 3.4   | 1.1   |
| 14                | .48     | 5.8   | 1.2  | .92       | 2.1    | 1.9     | 8.5       | 7.3      | 2.4   | 11    | 2.7   | .98   |
| 15                | .31     | 3.2   | 1.2  | 1.1       | 2.0    | 1.9     | 8.9       | 6.6      | 1.9   | 6.5   | 3.6   | .87   |
| 16                | .26     | 2.1   | 1.2  | .91       | 2.0    | 1.8     | 13        | 5.6      | 1.4   | 3.6   | 4.4   | .82   |
| 17                | .26     | 1.8   | 1.2  | .92       | 1.9    | 2.3     | 20        | 5.1      | 1.1   | 2.7   | 2.7   | .78   |
| 18                | .93     | 1.6   | 1.1  | .89       | 1.8    | 1.7     | 21        | 6.7      | 1.1   | 2.7   | 1.9   | .75   |
| 19                | 1.2     | 1.4   | 1.1  | .81       | 1.8    | 1.6     | 17        | 24       | .99   | 1.8   | 1.3   | .72   |
| 20                | .97     | 1.2   | 1.1  | .80       | 1.7    | 1.7     | 17        | 20       | .88   | 1.3   | 1.1   | .90   |
| 21                | 1.5     | 1.4   | 1.1  | .80       | 1.6    | 4.2     | 14        | 16       | 1.1   | .81   | .88   | .82   |
| 22                | 1.1     | 9.5   | 1.1  | .80       | 2.6    | 10      | 11        | 17       | .36   | .81   | 1.4   | .78   |
| 23                | .77     | 3.5   | 1.1  | .75       | 3.4    | 11      | 11        | 18       | .30   | .60   | .99   | .74   |
| 24                | .66     | 2.1   | 1.1  | .73       | 2.5    | 6.7     | 10        | 12       | .24   | 2.5   | .88   | .69   |
| 25                | .58     | 1.9   | 1.1  | .71       | 2.2    | 6.8     | 7.7       | 8.8      | .48   | 2.0   | .81   | .65   |
| 26                | .70     | 1.7   | 1.1  | .67       | 2.2    | 11      | 7.9       | 7.4      | .74   | .88   | .81   | 1.6   |
| 27                | .80     | 1.5   | 1.3  | 2.4       | 2.5    | 14      | 18        | 6.4      | .67   | 1.1   | .99   | 4.0   |
| 28                | .66     | 1.6   | 1.2  | 5.9       | 2.9    | 22      | 14        | 5.8      | .54   | .81   | .99   | 2.4   |
| 29                | .54     | 1.6   | 1.1  | 11        | 2.6    | 30      | 10        | 5.2      | .60   | .60   | 2.2   | 1.4   |
| 30                | .44     | 1.5   | 1.1  | 13        | ---    | 16      | 8.3       | 4.7      | 1.3   | .48   | .88   | 1.1   |
| 31                | .37     | ---   | 1.1  | 10        | ---    | 15      | ---       | 4.4      | ---   | .67   | .74   | ---   |
| TOTAL             | 16.95   | 54.17 | 49.7 | 65.09     | 127.8  | 191.5   | 527.6     | 280.9    | 71.90 | 78.35 | 81.46 | 30.92 |
| MEAN              | .55     | 1.81  | 1.60 | 2.10      | 4.41   | 6.18    | 17.6      | 9.06     | 2.40  | 2.53  | 2.63  | 1.03  |
| MAX               | 1.5     | 9.5   | 4.9  | 13        | 19     | 30      | 87        | 24       | 12    | 11    | 24    | 4.0   |
| MIN               | .09     | .26   | 1.1  | .67       | 1.6    | 1.6     | 7.7       | 4.4      | .24   | .48   | .48   | .20   |
| CFSM              | .55     | 1.81  | 1.60 | 2.10      | 4.41   | 6.18    | 17.6      | 9.06     | 2.40  | 2.53  | 2.63  | 1.03  |
| IN.               | .63     | 2.01  | 1.85 | 2.42      | 4.75   | 7.12    | 19.61     | 10.44    | 2.67  | 2.91  | 3.03  | 1.15  |
| CAL YR 1975 TOTAL | 877.65  |       |      | MEAN 2.40 | MAX 29 | MIN .04 | CFSM 2.40 | IN 32.62 |       |       |       |       |
| WTR YR 1976 TOTAL | 1576.34 |       |      | MEAN 4.31 | MAX 87 | MIN .09 | CFSM 4.31 | IN 58.58 |       |       |       |       |

## 01018000 MEDUXNEKAG RIVER NEAR HOULTON, ME

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

DRAINAGE AREA.--175 mi<sup>2</sup> (453 km<sup>2</sup>).

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

REVISED RECORDS.--WSP 1031: 1944.

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

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

AVERAGE DISCHARGE.--36 years, 291 ft<sup>3</sup>/s (8.241 m<sup>3</sup>/s), 22.58 in/yr (574 mm/yr).

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

EXTREMES FOR CURRENT YEAR.--Peak discharges above base of 2,100 ft<sup>3</sup>/s (59.5 m<sup>3</sup>/s) and maximums (\*):

| Date   | Time | Discharge<br>(ft <sup>3</sup> /s) (m <sup>3</sup> /s) | Gage height<br>(ft) (m) | Date | Time | Discharge<br>(ft <sup>3</sup> /s) (m <sup>3</sup> /s) | Gage height<br>(ft) (m) |
|--------|------|-------------------------------------------------------|-------------------------|------|------|-------------------------------------------------------|-------------------------|
| Apr. 3 | 2200 | *6,640 188                                            | 9.98 3.042              |      |      |                                                       |                         |

Minimum discharge, 17 ft<sup>3</sup>/s (0.48 m<sup>3</sup>/s) part of each day Oct. 10-12, gage height, 2.39 ft (0.728 m).

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976  
MEAN VALUES

| DAY   | OCT  | NOV  | DEC  | JAN  | FEB   | MAR   | APR   | MAY   | JUN  | JUL  | AUG   | SEP  |
|-------|------|------|------|------|-------|-------|-------|-------|------|------|-------|------|
| 1     | 62   | 50   | 299  | 160  | 660   | 245   | 2130  | 901   | 464  | 289  | 109   | 291  |
| 2     | 49   | 44   | 478  | 150  | 675   | 225   | 2990  | 813   | 490  | 488  | 163   | 389  |
| 3     | 44   | 43   | 476  | 140  | 770   | 210   | 5860  | 803   | 405  | 518  | 150   | 363  |
| 4     | 34   | 49   | 450  | 135  | 990   | 200   | 6010  | 758   | 329  | 429  | 119   | 282  |
| 5     | 31   | 41   | 441  | 130  | 1230  | 195   | 4220  | 673   | 275  | 279  | 95    | 226  |
| 6     | 28   | 39   | 328  | 125  | 1050  | 205   | 2800  | 584   | 233  | 189  | 88    | 197  |
| 7     | 22   | 37   | 320  | 120  | 900   | 215   | 2040  | 542   | 203  | 136  | 94    | 170  |
| 8     | 21   | 37   | 300  | 115  | 680   | 205   | 1610  | 697   | 188  | 106  | 85    | 148  |
| 9     | 20   | 37   | 295  | 105  | 580   | 200   | 1380  | 730   | 182  | 109  | 103   | 132  |
| 10    | 18   | 37   | 280  | 100  | 510   | 185   | 1250  | 631   | 160  | 95   | 1090  | 118  |
| 11    | 18   | 77   | 280  | 95   | 435   | 175   | 1170  | 532   | 150  | 78   | 1760  | 124  |
| 12    | 18   | 118  | 270  | 92   | 480   | 165   | 980   | 512   | 228  | 94   | 1290  | 188  |
| 13    | 34   | 211  | 250  | 88   | 350   | 160   | 851   | 735   | 220  | 259  | 773   | 177  |
| 14    | 53   | 506  | 230  | 92   | 320   | 155   | 785   | 694   | 184  | 529  | 536   | 153  |
| 15    | 58   | 585  | 215  | 97   | 295   | 145   | 750   | 602   | 154  | 597  | 542   | 128  |
| 16    | 55   | 478  | 190  | 100  | 275   | 140   | 764   | 521   | 130  | 453  | 500   | 111  |
| 17    | 48   | 359  | 170  | 100  | 255   | 135   | 1060  | 445   | 109  | 309  | 425   | 102  |
| 18    | 53   | 277  | 170  | 95   | 245   | 130   | 1530  | 422   | 97   | 265  | 327   | 95   |
| 19    | 80   | 223  | 150  | 91   | 230   | 125   | 1720  | 650   | 87   | 214  | 259   | 91   |
| 20    | 108  | 187  | 145  | 88   | 220   | 120   | 1760  | 1510  | 78   | 168  | 216   | 89   |
| 21    | 147  | 171  | 145  | 85   | 210   | 130   | 1770  | 1690  | 83   | 135  | 186   | 90   |
| 22    | 162  | 377  | 145  | 83   | 205   | 140   | 1510  | 1460  | 83   | 110  | 160   | 86   |
| 23    | 138  | 515  | 145  | 79   | 270   | 1090  | 1320  | 1660  | 72   | 92   | 136   | 80   |
| 24    | 112  | 404  | 150  | 74   | 390   | 1010  | 1220  | 1500  | 61   | 132  | 116   | 73   |
| 25    | 90   | 325  | 150  | 73   | 350   | 1200  | 1060  | 1130  | 66   | 211  | 102   | 67   |
| 26    | 86   | 264  | 160  | 73   | 320   | 1330  | 907   | 866   | 87   | 328  | 96    | 63   |
| 27    | 77   | 261  | 165  | 125  | 285   | 1460  | 1120  | 708   | 97   | 250  | 98    | 221  |
| 28    | 69   | 242  | 175  | 250  | 265   | 2020  | 1460  | 600   | 93   | 193  | 115   | 429  |
| 29    | 63   | 231  | 180  | 600  | 255   | 2930  | 1330  | 511   | 83   | 151  | 204   | 348  |
| 30    | 56   | 233  | 175  | 850  | ---   | 3560  | 1080  | 435   | 102  | 120  | 621   | 266  |
| 31    | 52   | ---  | 165  | 750  | ---   | 3220  | ---   | 376   | ---  | 107  | 411   | ---  |
| TOTAL | 1906 | 6458 | 7492 | 5260 | 13700 | 21625 | 54437 | 24691 | 5193 | 7433 | 10969 | 5297 |
| MEAN  | 61.5 | 215  | 242  | 170  | 472   | 698   | 1815  | 796   | 173  | 240  | 354   | 177  |
| MAX   | 162  | 585  | 478  | 850  | 1230  | 3560  | 6010  | 1690  | 490  | 597  | 1760  | 429  |
| MIN   | 18   | 37   | 145  | 73   | 205   | 120   | 750   | 376   | 61   | 78   | 85    | 63   |
| CFSM  | .35  | 1.23 | 1.38 | .97  | 2.70  | 3.99  | 10.4  | 4.55  | .99  | 1.37 | 2.02  | 1.01 |
| IN.   | .41  | 1.37 | 1.59 | 1.12 | 2.91  | 4.60  | 11.57 | 5.25  | 1.10 | 1.58 | 2.33  | 1.13 |

| CAL YR 1975 | TOTAL | 83013.2  | MEAN 227 | MAX 1830 | MIN | 5.8 | CFSM 1.30 | IN 17.65 |
|-------------|-------|----------|----------|----------|-----|-----|-----------|----------|
| WTR YR 1976 | TOTAL | 164461.0 | MEAN 449 | MAX 6010 | MIN | 18  | CFSM 2.57 | IN 34.96 |

## ST. CROIX RIVER BASIN

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

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

DRAINAGE AREA.--417 mi<sup>2</sup> (1,080 km<sup>2</sup>).

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

REVISED RECORDS.--WSP 1431: Drainage area.

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

REMARKS.--Records good. Flow regulated by Chiputneticook Lakes, combined usable capacity, about 13,200,000,000 ft<sup>3</sup> (374,000,000 m<sup>3</sup>). Final regulation is at Spednik Lake Dam about 400 ft (120 m) upstream.

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

AVERAGE DISCHARGE.--48 years, 707 ft<sup>3</sup>/s (20.02 m<sup>3</sup>/s), 23.02 in/yr (585 mm/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 6,670 ft<sup>3</sup>/s (189 m<sup>3</sup>/s) Apr. 4, 1976, gage height, 10.88 ft (3.316 m); minimum daily, 1.9 ft<sup>3</sup>/s (0.054 m<sup>3</sup>/s) Oct. 22, Nov. 4, 1936, when flow was held back by cofferdam during repairs to dam just upstream.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 6,670 ft<sup>3</sup>/s (189 m<sup>3</sup>/s) Apr. 4, gage height, 10.88 ft (3.316 m); minimum daily, 214 ft<sup>3</sup>/s (6.06 m<sup>3</sup>/s) Nov. 19-21.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976  
MEAN VALUES

| DAY               | OCT    | NOV   | DEC      | JAN      | FEB     | MAR   | APR   | MAY   | JUN   | JUL   | AUG   | SEP   |
|-------------------|--------|-------|----------|----------|---------|-------|-------|-------|-------|-------|-------|-------|
| 1                 | 252    | 352   | 233      | 246      | 412     | 834   | 846   | 1480  | 914   | 678   | 284   | 652   |
| 2                 | 252    | 352   | 235      | 246      | 421     | 834   | 2170  | 1480  | 908   | 678   | 285   | 652   |
| 3                 | 252    | 352   | 237      | 242      | 431     | 830   | 4880  | 1480  | 908   | 675   | 285   | 877   |
| 4                 | 252    | 352   | 238      | 250      | 431     | 830   | 6010  | 1490  | 909   | 672   | 386   | 1090  |
| 5                 | 252    | 354   | 238      | 250      | 431     | 830   | 4260  | 1420  | 904   | 673   | 446   | 1080  |
| 6                 | 252    | 685   | 238      | 238      | 430     | 830   | 4190  | 1320  | 906   | 673   | 446   | 1080  |
| 7                 | 252    | 912   | 239      | 530      | 430     | 826   | 4280  | 1320  | 902   | 672   | 513   | 912   |
| 8                 | 252    | 909   | 240      | 757      | 430     | 824   | 4040  | 1950  | 903   | 672   | 451   | 747   |
| 9                 | 252    | 911   | 240      | 757      | 580     | 824   | 3730  | 3060  | 704   | 547   | 450   | 742   |
| 10                | 252    | 900   | 240      | 761      | 750     | 824   | 3520  | 1840  | 464   | 481   | 450   | 684   |
| 11                | 252    | 889   | 244      | 760      | 1220    | 824   | 3510  | 1090  | 466   | 481   | 450   | 635   |
| 12                | 252    | 895   | 244      | 760      | 1220    | 824   | 3460  | 919   | 465   | 480   | 450   | 637   |
| 13                | 252    | 573   | 234      | 760      | 1200    | 824   | 3150  | 920   | 345   | 481   | 504   | 637   |
| 14                | 252    | 292   | 236      | 755      | 1210    | 824   | 2720  | 931   | 248   | 481   | 551   | 637   |
| 15                | 252    | 256   | 236      | 752      | 1060    | 814   | 2240  | 932   | 505   | 417   | 551   | 636   |
| 16                | 252    | 256   | 238      | 752      | 1190    | 814   | 1840  | 933   | 678   | 336   | 551   | 633   |
| 17                | 461    | 256   | 238      | 752      | 972     | 814   | 1610  | 932   | 678   | 334   | 549   | 623   |
| 18                | 672    | 229   | 238      | 752      | 838     | 814   | 1630  | 1570  | 678   | 333   | 553   | 617   |
| 19                | 672    | 214   | 240      | 752      | 840     | 814   | 1630  | 2120  | 678   | 333   | 560   | 617   |
| 20                | 668    | 214   | 240      | 752      | 840     | 814   | 1630  | 3100  | 678   | 605   | 556   | 617   |
| 21                | 487    | 214   | 240      | 752      | 840     | 814   | 1640  | 3610  | 677   | 755   | 555   | 617   |
| 22                | 352    | 215   | 240      | 752      | 840     | 814   | 1640  | 4150  | 678   | 435   | 555   | 617   |
| 23                | 352    | 216   | 240      | 752      | 840     | 814   | 1650  | 4120  | 1030  | 291   | 642   | 555   |
| 24                | 352    | 216   | 240      | 752      | 837     | 814   | 1650  | 2640  | 1280  | 289   | 711   | 496   |
| 25                | 352    | 221   | 240      | 752      | 830     | 813   | 1650  | 1310  | 1290  | 289   | 707   | 494   |
| 26                | 354    | 228   | 242      | 752      | 830     | 626   | 1530  | 1310  | 1280  | 289   | 707   | 494   |
| 27                | 354    | 229   | 244      | 752      | 834     | 365   | 1460  | 1860  | 1280  | 288   | 674   | 494   |
| 28                | 352    | 229   | 245      | 754      | 835     | 306   | 1470  | 1490  | 1060  | 285   | 660   | 494   |
| 29                | 352    | 230   | 245      | 883      | 835     | 446   | 1470  | 908   | 765   | 285   | 658   | 494   |
| 30                | 352    | 231   | 245      | 633      | ---     | 835   | 1480  | 910   | 678   | 285   | 662   | 493   |
| 31                | 352    | ---   | 245      | 413      | ---     | 837   | ---   | 911   | ---   | 285   | 656   | ---   |
| TOTAL             | 10516  | 12382 | 7432     | 19771    | 22857   | 23950 | 76986 | 53506 | 23859 | 14478 | 16458 | 20053 |
| MEAN              | 339    | 413   | 240      | 638      | 788     | 773   | 2566  | 1726  | 795   | 467   | 531   | 668   |
| MAX               | 672    | 912   | 245      | 883      | 1220    | 837   | 6010  | 4150  | 1290  | 755   | 711   | 1090  |
| MIN               | 252    | 214   | 233      | 238      | 412     | 306   | 846   | 908   | 248   | 285   | 284   | 493   |
| CAL YR 1975 TOTAL | 181534 |       | MEAN 497 | MAX 912  | MIN 204 |       |       |       |       |       |       |       |
| WTR YR 1976 TOTAL | 302248 |       | MEAN 826 | MAX 6010 | MIN 214 |       |       |       |       |       |       |       |

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

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 1,990 ft<sup>3</sup>/s (56.4 m<sup>3</sup>/s) Apr. 7, gage height, 5.61 ft (1.710 m); minimum daily, 101 ft<sup>3</sup>/s (2.86 m<sup>3</sup>/s) Oct. 16, 17.

| DAY         | OCT   | NOV    | DEC      | JAN  | FEB   | MAR     | APR   | MAY   | JUN   | JUL  | AUG  | SEP   |
|-------------|-------|--------|----------|------|-------|---------|-------|-------|-------|------|------|-------|
| 1           | 471   | 106    | 131      | 160  | 605   | 595     | 604   | 346   | 473   | 372  | 148  | 488   |
| 2           | 465   | 107    | 132      | 160  | 605   | 594     | 700   | 248   | 238   | 370  | 148  | 580   |
| 3           | 454   | 107    | 132      | 160  | 605   | 590     | 1050  | 248   | 172   | 370  | 147  | 656   |
| 4           | 447   | 107    | 132      | 160  | 605   | 590     | 1800  | 248   | 172   | 370  | 147  | 902   |
| 5           | 435   | 107    | 132      | 160  | 605   | 590     | 1700  | 523   | 172   | 369  | 147  | 896   |
| 6           | 460   | 105    | 132      | 160  | 610   | 590     | 1950  | 550   | 204   | 329  | 147  | 894   |
| 7           | 580   | 105    | 132      | 160  | 610   | 590     | 1950  | 440   | 546   | 268  | 146  | 884   |
| 8           | 582   | 106    | 135      | 160  | 610   | 590     | 1960  | 441   | 676   | 267  | 146  | 872   |
| 9           | 565   | 107    | 134      | 160  | 610   | 590     | 1850  | 440   | 778   | 267  | 147  | 860   |
| 10          | 546   | 107    | 136      | 160  | 610   | 590     | 1690  | 442   | 985   | 265  | 149  | 848   |
| 11          | 530   | 110    | 136      | 160  | 605   | 590     | 1670  | 437   | 1010  | 264  | 150  | 843   |
| 12          | 523   | 112    | 134      | 160  | 605   | 590     | 1660  | 389   | 1180  | 264  | 149  | 844   |
| 13          | 528   | 120    | 134      | 160  | 605   | 590     | 1350  | 567   | 1140  | 269  | 157  | 835   |
| 14          | 514   | 123    | 134      | 160  | 605   | 590     | 1200  | 640   | 1120  | 271  | 222  | 826   |
| 15          | 317   | 123    | 134      | 157  | 605   | 590     | 1060  | 669   | 1110  | 204  | 223  | 818   |
| 16          | 101   | 123    | 134      | 157  | 605   | 590     | 1010  | 680   | 692   | 157  | 225  | 792   |
| 17          | 101   | 122    | 134      | 160  | 605   | 590     | 983   | 635   | 465   | 157  | 225  | 819   |
| 18          | 104   | 121    | 135      | 160  | 600   | 590     | 713   | 580   | 461   | 157  | 231  | 901   |
| 19          | 103   | 122    | 135      | 160  | 600   | 585     | 449   | 585   | 459   | 157  | 322  | 880   |
| 20          | 105   | 121    | 135      | 164  | 600   | 585     | 448   | 768   | 455   | 143  | 321  | 865   |
| 21          | 105   | 122    | 135      | 363  | 600   | 585     | 445   | 1410  | 456   | 130  | 320  | 855   |
| 22          | 105   | 126    | 140      | 500  | 600   | 585     | 444   | 1780  | 455   | 136  | 316  | 902   |
| 23          | 105   | 125    | 146      | 495  | 600   | 580     | 438   | 1800  | 474   | 139  | 312  | 832   |
| 24          | 105   | 125    | 155      | 495  | 600   | 578     | 425   | 1320  | 567   | 145  | 327  | 822   |
| 25          | 105   | 127    | 160      | 495  | 595   | 581     | 423   | 670   | 553   | 145  | 410  | 806   |
| 26          | 106   | 125    | 160      | 490  | 595   | 582     | 423   | 517   | 474   | 144  | 407  | 791   |
| 27          | 107   | 126    | 160      | 490  | 595   | 582     | 901   | 479   | 472   | 144  | 406  | 788   |
| 28          | 107   | 128    | 159      | 540  | 595   | 592     | 1030  | 474   | 469   | 146  | 406  | 780   |
| 29          | 107   | 128    | 159      | 580  | 595   | 599     | 828   | 470   | 469   | 146  | 407  | 760   |
| 30          | 108   | 127    | 159      | 600  | ---   | 599     | 677   | 473   | 405   | 146  | 409  | 750   |
| 31          | 108   | ---    | 160      | 600  | ---   | 601     | ---   | 471   | ---   | 146  | 461  | ---   |
| TOTAL       | 9099  | 3520   | 4366     | 8846 | 17485 | 18263   | 31831 | 19740 | 17302 | 6857 | 7878 | 24389 |
| MEAN        | 294   | 117    | 141      | 285  | 603   | 589     | 1061  | 637   | 577   | 221  | 254  | 813   |
| MAX         | 582   | 128    | 160      | 600  | 610   | 601     | 1960  | 1800  | 1180  | 272  | 461  | 902   |
| MIN         | 101   | 105    | 131      | 157  | 595   | 578     | 423   | 248   | 172   | 130  | 146  | 488   |
| CAL YR 1975 | TOTAL | 95979  | MEAN 263 | MAX  | 984   | MIN 101 |       |       |       |      |      |       |
| YR 1976     | TOTAL | 169576 | MEAN 463 | MAX  | 1960  | MIN 101 |       |       |       |      |      |       |

## ST. CROIX RIVER BASIN

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

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

DRAINAGE AREA.--1,320 mi<sup>2</sup> (3,419 km<sup>2</sup>).

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

REVISED RECORDS.--WSP 1231: 1922.

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

REMARKS.--Records good. Flow regulated by Chiputneticook Lakes, Grand and other lakes, combined capacity, about 25,000,000,000 ft<sup>3</sup> (708,000,000 m<sup>3</sup>). Final regulation is at Grand Falls Dam about 700 ft (213 m) upstream.

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

AVERAGE DISCHARGE.--57 years, 2,302 ft<sup>3</sup>/s (65.19 m<sup>3</sup>/s), 23.68 in/yr (601 mm/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, about 23,300 ft<sup>3</sup>/s (660 m<sup>3</sup>/s) May 1, 1923, gage height, 13.90 ft (4.237 m); minimum daily, 64 ft<sup>3</sup>/s (1.81 m<sup>3</sup>/s) Oct. 13, 1957.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 20,200 ft<sup>3</sup>/s (572 m<sup>3</sup>/s) Apr. 5, gage height, 11.03 ft (3.362 m); minimum daily, 820 ft<sup>3</sup>/s (23.22 m<sup>3</sup>/s) July 4.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976  
MEAN VALUES

| DAY   | OCT   | NOV   | DEC   | JAN   | FEB    | MAR   | APR    | MAY    | JUN   | JUL   | AUG   | SEP   |
|-------|-------|-------|-------|-------|--------|-------|--------|--------|-------|-------|-------|-------|
| 1     | 1060  | 1450  | 2650  | 1910  | 5640   | 3100  | 6220   | 5270   | 2630  | 2340  | 2350  | 1570  |
| 2     | 1120  | 1450  | 3370  | 1910  | 7110   | 3060  | 9020   | 5210   | 1460  | 2980  | 2300  | 2240  |
| 3     | 1130  | 1430  | 3740  | 1970  | 8010   | 2970  | 16500  | 4460   | 1630  | 2450  | 2360  | 2300  |
| 4     | 1120  | 1430  | 3680  | 2010  | 8590   | 3030  | 19700  | 4450   | 1940  | 820   | 1580  | 2090  |
| 5     | 1320  | 1440  | 3320  | 2010  | 8540   | 2980  | 19900  | 4440   | 1900  | 866   | 1490  | 1780  |
| 6     | 1320  | 1450  | 3080  | 1920  | 7590   | 2960  | 18600  | 3950   | 1890  | 1470  | 1480  | 960   |
| 7     | 1460  | 1450  | 3020  | 1910  | 6350   | 2990  | 16100  | 3120   | 1910  | 1820  | 1500  | 1030  |
| 8     | 1570  | 1430  | 2500  | 1900  | 5790   | 2970  | 13700  | 2980   | 1860  | 1700  | 1500  | 1630  |
| 9     | 1430  | 1420  | 2120  | 1930  | 5020   | 2950  | 11900  | 3030   | 1790  | 1550  | 1520  | 914   |
| 10    | 1480  | 1420  | 2090  | 1950  | 4650   | 2910  | 10700  | 3130   | 1790  | 1530  | 2330  | 1100  |
| 11    | 1450  | 1460  | 2120  | 1950  | 4510   | 2880  | 9730   | 3210   | 1780  | 1490  | 2450  | 2250  |
| 12    | 1370  | 1470  | 2150  | 1950  | 4130   | 2840  | 9270   | 3240   | 1820  | 1490  | 2110  | 1900  |
| 13    | 1430  | 1310  | 2140  | 1950  | 3710   | 2830  | 8440   | 3680   | 1810  | 1350  | 1800  | 2230  |
| 14    | 1130  | 1410  | 1600  | 1960  | 3700   | 2800  | 8130   | 3910   | 1850  | 1870  | 1570  | 2060  |
| 15    | 1000  | 1770  | 1490  | 1940  | 3690   | 2780  | 6420   | 3820   | 1280  | 2020  | 1660  | 2370  |
| 16    | 1090  | 2150  | 1750  | 1950  | 3650   | 2760  | 5660   | 3710   | 1170  | 2280  | 1170  | 2850  |
| 17    | 1120  | 2250  | 1610  | 1960  | 3160   | 2740  | 5800   | 3710   | 1550  | 2840  | 1520  | 2840  |
| 18    | 1170  | 2260  | 1620  | 1970  | 2830   | 2720  | 5750   | 3670   | 1790  | 2500  | 1500  | 1990  |
| 19    | 1450  | 2240  | 1610  | 1970  | 2890   | 2710  | 5870   | 3880   | 1870  | 1820  | 1590  | 1660  |
| 20    | 1280  | 2160  | 1620  | 1970  | 2440   | 2690  | 5920   | 6670   | 2110  | 1370  | 1620  | 1710  |
| 21    | 998   | 2010  | 1590  | 1970  | 2130   | 2710  | 5390   | 8240   | 1580  | 1190  | 1510  | 1310  |
| 22    | 1130  | 2590  | 1510  | 1960  | 2160   | 2500  | 5120   | 8580   | 1920  | 930   | 1500  | 854   |
| 23    | 1100  | 3050  | 1630  | 1950  | 2200   | 2860  | 5220   | 9400   | 2010  | 1160  | 1760  | 1690  |
| 24    | 1100  | 2970  | 1850  | 1950  | 2270   | 1980  | 5280   | 9240   | 1560  | 1150  | 1580  | 1710  |
| 25    | 1100  | 3000  | 1890  | 1950  | 2330   | 1910  | 5190   | 8750   | 1160  | 1200  | 1560  | 1600  |
| 26    | 1090  | 2470  | 1890  | 1950  | 2880   | 2090  | 5040   | 6930   | 1030  | 1970  | 1580  | 1770  |
| 27    | 1070  | 2110  | 2110  | 1940  | 3150   | 3090  | 5040   | 5480   | 1210  | 2390  | 1890  | 1790  |
| 28    | 1180  | 2110  | 2110  | 2090  | 3140   | 4140  | 5300   | 4290   | 1590  | 2490  | 1820  | 1460  |
| 29    | 1330  | 2130  | 1990  | 2190  | 3130   | 4640  | 5420   | 3920   | 1670  | 2920  | 1560  | 1300  |
| 30    | 1450  | 2200  | 1910  | 3920  | ---    | 5440  | 5370   | 2660   | 1730  | 2210  | 1570  | 1370  |
| 31    | 1450  | ---   | 1910  | 5770  | ---    | 5990  | ---    | 2910   | ---   | 2310  | 1570  | ---   |
| TOTAL | 38498 | 57490 | 67670 | 66630 | 125390 | 95020 | 265700 | 149940 | 51290 | 56476 | 53300 | 52328 |
| MEAN  | 1242  | 1916  | 2183  | 2149  | 4324   | 3065  | 8857   | 4837   | 1710  | 1822  | 1719  | 1744  |
| MAX   | 1570  | 3050  | 3740  | 5770  | 8590   | 5990  | 19900  | 9400   | 2630  | 2980  | 2450  | 2850  |
| MIN   | 998   | 1310  | 1490  | 1900  | 2130   | 1910  | 5040   | 2660   | 1030  | 820   | 1170  | 854   |

CAL YR 1975 TOTAL 661410 MEAN 1812 MAX 6690 MIN 723  
WTR YR 1976 TOTAL 1079732 MEAN 2950 MAX 19900 MIN 820



## ST. CROIX RIVER BASIN

57

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

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

DRAINAGE AREA.--1,370 mi<sup>2</sup> (3,548 km<sup>2</sup>).

## 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.

REMARKS.--Records good. Flow regulated by Chiputneticook Lakes, Grand, and other lakes, combined capacity, about 25,000,000 ft<sup>3</sup> (708,000,000 m<sup>3</sup>). Final regulation is at Woodland 5.6 mi (9.0 km) upstream from gage.

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

AVERAGE DISCHARGE.--17 years (water years 1960-76), 2,669 ft<sup>3</sup>/s (75.59 m<sup>3</sup>/s), 26.46 in/yr (672 mm/yr).EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 23,500 ft<sup>3</sup>/s (666 m<sup>3</sup>/s) May 29, 1961, gage height, 12.76 ft (3.889 m); minimum daily, 262 ft<sup>3</sup>/s (7.42 m<sup>3</sup>/s) Oct. 20, 1964.EXTREMES FOR CURRENT YEAR.--Maximum discharge, 20,600 ft<sup>3</sup>/s (583 m<sup>3</sup>/s) Apr. 4, gage height, 12.27 ft (3.740 m); minimum daily, 953 ft<sup>3</sup>/s (27.0 m<sup>3</sup>/s) July 5.DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976  
MEAN VALUES

| DAY         | OCT   | NOV     | DEC   | JAN   | FEB    | MAR    | APR    | MAY    | JUN   | JUL   | AUG   | SEP   |
|-------------|-------|---------|-------|-------|--------|--------|--------|--------|-------|-------|-------|-------|
| 1           | 1070  | 1470    | 3000  | 2000  | 6300   | 3250   | 6930   | 5540   | 2820  | 2170  | 2300  | 1560  |
| 2           | 1070  | 1470    | 3960  | 2000  | 8670   | 3190   | 10400  | 5700   | 2140  | 2660  | 2180  | 1870  |
| 3           | 1060  | 1460    | 4110  | 2050  | 9550   | 3110   | 17400  | 5090   | 1530  | 2960  | 2540  | 2320  |
| 4           | 1050  | 1460    | 4030  | 2100  | 9390   | 3200   | 20400  | 4710   | 1740  | 1150  | 1790  | 2260  |
| 5           | 1290  | 1470    | 3620  | 2100  | 9350   | 3020   | 20400  | 4710   | 1950  | 953   | 1250  | 1740  |
| 6           | 1070  | 1450    | 3230  | 2050  | 8440   | 3060   | 19200  | 4520   | 1870  | 1170  | 1390  | 1260  |
| 7           | 1610  | 1450    | 3230  | 2000  | 7650   | 3060   | 17000  | 4080   | 1870  | 1610  | 1450  | 1010  |
| 8           | 1460  | 1450    | 2750  | 2000  | 7770   | 2980   | 14600  | 2990   | 1890  | 1620  | 1480  | 1550  |
| 9           | 1520  | 1450    | 2140  | 2050  | 7620   | 3080   | 12800  | 3000   | 1830  | 1620  | 1560  | 1100  |
| 10          | 1490  | 1450    | 2290  | 2100  | 6850   | 2930   | 11400  | 3230   | 1730  | 1570  | 2140  | 989   |
| 11          | 1480  | 1490    | 2430  | 2100  | 4840   | 2890   | 10600  | 3370   | 1760  | 1510  | 2460  | 1990  |
| 12          | 1470  | 1480    | 2340  | 2100  | 4430   | 2840   | 9840   | 3520   | 1790  | 1450  | 1990  | 1980  |
| 13          | 1240  | 1670    | 2150  | 2100  | 3860   | 2780   | 9010   | 4200   | 1790  | 1390  | 1840  | 2110  |
| 14          | 1070  | 1930    | 1980  | 2100  | 3910   | 2850   | 8550   | 4350   | 1850  | 1750  | 1700  | 2110  |
| 15          | 1070  | 2290    | 1630  | 1770  | 3860   | 2830   | 7400   | 4250   | 1350  | 2020  | 1700  | 2360  |
| 16          | 1070  | 2060    | 1640  | 2120  | 3800   | 2810   | 6060   | 4070   | 980   | 2000  | 1450  | 2860  |
| 17          | 1070  | 2400    | 1640  | 2050  | 3370   | 2850   | 6020   | 3860   | 1650  | 2900  | 1330  | 2900  |
| 18          | 1210  | 2360    | 1640  | 2090  | 2840   | 2750   | 6130   | 3860   | 1720  | 2840  | 1470  | 2240  |
| 19          | 1530  | 2410    | 1620  | 2230  | 2920   | 2730   | 6300   | 4150   | 1750  | 1900  | 1490  | 1620  |
| 20          | 1330  | 2300    | 1630  | 2060  | 2640   | 2710   | 6220   | 5750   | 2020  | 1340  | 1670  | 1630  |
| 21          | 1170  | 2000    | 1610  | 1950  | 2200   | 2810   | 5990   | 8590   | 1630  | 1100  | 1510  | 1180  |
| 22          | 1130  | 2880    | 1500  | 1830  | 2290   | 2970   | 5450   | 9160   | 1890  | 1130  | 1520  | 1080  |
| 23          | 1110  | 3370    | 1510  | 2000  | 2350   | 2950   | 5600   | 9580   | 1980  | 967   | 1730  | 1430  |
| 24          | 1100  | 3160    | 1920  | 2090  | 2450   | 2670   | 5730   | 9940   | 1630  | 1040  | 1660  | 1570  |
| 25          | 1110  | 3230    | 2000  | 1960  | 2900   | 1940   | 5540   | 9520   | 1380  | 1240  | 1470  | 1690  |
| 26          | 1140  | 2680    | 2000  | 1930  | 3400   | 2380   | 5430   | 8230   | 1100  | 1960  | 1520  | 1850  |
| 27          | 1120  | 2230    | 2330  | 2160  | 3330   | 3220   | 5530   | 6150   | 1080  | 2630  | 1560  | 1760  |
| 28          | 1260  | 2430    | 2010  | 3110  | 3330   | 4630   | 5590   | 5080   | 1380  | 2550  | 2070  | 1490  |
| 29          | 1450  | 2370    | 2000  | 3550  | 3250   | 5320   | 5850   | 4310   | 1900  | 3040  | 1580  | 1320  |
| 30          | 1470  | 2310    | 2000  | 4010  | ---    | 6060   | 5760   | 3290   | 1710  | 2970  | 1570  | 1140  |
| 31          | 1470  | ---     | 2000  | 6600  | ---    | 6510   | ---    | 2820   | ---   | 2290  | 1560  | ---   |
| TOTAL       | 38760 | 61630   | 71940 | 72360 | 143560 | 100380 | 283130 | 161620 | 51710 | 57500 | 52930 | 51969 |
| MEAN        | 1250  | 2054    | 2321  | 2334  | 4950   | 3238   | 9438   | 5214   | 1724  | 1855  | 1707  | 1732  |
| MAX         | 1610  | 3370    | 4110  | 6600  | 9550   | 6510   | 20400  | 9940   | 2820  | 3040  | 2540  | 2900  |
| MIN         | 1050  | 1450    | 1500  | 1770  | 2200   | 1940   | 5430   | 2820   | 980   | 953   | 1250  | 989   |
| CAL YR 1975 | TOTAL | 682081  | MEAN  | 1869  | MAX    | 7660   | MIN    | 754    |       |       |       |       |
| WTR YR 1976 | TOTAL | 1147489 | MEAN  | 3135  | MAX    | 20400  | MIN    | 953    |       |       |       |       |

## ST. CROIX RIVER BASIN

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

## WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 1959 to current year.

PERIOD OF DAILY RECORD.--

WATER TEMPERATURES: October 1959 to current year.

INSTRUMENTATION.--Temperature recorder.

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

EXTREMES FOR PERIOD OF DAILY RECORD.--

WATER TEMPERATURES: Maximum, 30.5°C July 28, 1963; minimum, 0.0°C on many days during winter periods.

EXTREMES FOR CURRENT YEAR.--

WATER TEMPERATURES: Maximum, 28.0°C June 24; minimum, 0.0°C on many days during winter periods.

## TEMPERATURE (DEG. C) OF WATER, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

|       | OCTOBER |      | NOVEMBER |     | DECEMBER |     | JANUARY |     | FEBRUARY |     | MARCH |     |
|-------|---------|------|----------|-----|----------|-----|---------|-----|----------|-----|-------|-----|
| DAY   | MAX     | MIN  | MAX      | MIN | MAX      | MIN | MAX     | MIN | MAX      | MIN | MAX   | MIN |
| 1     | 19.0    | 16.5 | 9.5      | 8.5 | ---      | --- | 0.0     | 0.0 | 0.0      | 0.0 | 1.0   | 0.5 |
| 2     | 18.5    | 16.5 | ---      | --- | ---      | --- | 0.0     | 0.0 | 0.0      | 0.0 | 0.5   | 0.0 |
| 3     | 16.5    | 14.5 | ---      | --- | ---      | --- | 0.0     | 0.0 | 0.0      | 0.0 | 1.0   | 0.5 |
| 4     | 16.0    | 15.0 | ---      | --- | ---      | --- | 0.0     | 0.0 | 0.0      | 0.0 | 0.5   | 0.5 |
| 5     | 15.5    | 14.0 | ---      | --- | ---      | --- | 0.0     | 0.0 | 0.0      | 0.0 | 1.0   | 0.5 |
| 6     | 15.5    | 14.0 | ---      | --- | ---      | --- | 0.0     | 0.0 | 0.5      | 0.0 | 1.0   | 0.5 |
| 7     | 15.5    | 13.5 | ---      | --- | ---      | --- | 0.0     | 0.0 | 0.5      | 0.0 | 1.0   | 0.5 |
| 8     | 14.0    | 13.5 | ---      | --- | ---      | --- | 0.0     | 0.0 | 0.0      | 0.0 | 1.0   | 0.5 |
| 9     | 14.0    | 12.0 | ---      | --- | ---      | --- | 0.0     | 0.0 | 0.0      | 0.0 | 1.0   | 0.5 |
| 10    | 14.0    | 11.5 | ---      | --- | ---      | --- | 0.0     | 0.0 | 0.5      | 0.0 | 1.0   | 0.5 |
| 11    | 13.5    | 11.5 | ---      | --- | ---      | --- | 0.0     | 0.0 | 0.0      | 0.0 | 0.5   | 0.5 |
| 12    | 13.0    | 13.0 | ---      | --- | ---      | --- | 0.0     | 0.0 | 0.5      | 0.0 | 1.0   | 0.0 |
| 13    | 13.0    | 12.0 | ---      | --- | ---      | --- | 0.0     | 0.0 | 0.5      | 0.0 | 0.5   | 0.5 |
| 14    | 13.0    | 11.5 | ---      | --- | ---      | --- | 0.0     | 0.0 | 0.5      | 0.0 | 1.0   | 0.5 |
| 15    | 13.0    | 11.5 | ---      | --- | ---      | --- | 0.5     | 0.0 | 0.5      | 0.0 | 1.0   | 0.5 |
| 16    | 13.0    | 12.0 | ---      | --- | ---      | --- | 0.5     | 0.0 | 0.5      | 0.0 | 1.0   | 0.0 |
| 17    | 13.0    | 12.0 | ---      | --- | ---      | --- | 0.5     | 0.0 | 0.0      | 0.0 | 0.0   | 0.0 |
| 18    | 12.0    | 11.5 | ---      | --- | ---      | --- | 0.5     | 0.5 | 0.0      | 0.0 | 0.5   | 0.0 |
| 19    | 11.5    | 11.0 | ---      | --- | ---      | --- | 0.5     | 0.5 | 0.0      | 0.0 | 0.0   | 0.0 |
| 20    | 11.5    | 11.0 | ---      | --- | ---      | --- | 0.5     | 0.5 | 0.5      | 0.0 | 1.0   | 0.0 |
| 21    | 11.5    | 11.0 | ---      | --- | ---      | --- | 0.5     | 0.5 | 0.5      | 0.0 | 1.0   | 0.5 |
| 22    | 11.5    | 11.0 | ---      | --- | ---      | --- | 0.5     | 0.5 | 0.5      | 0.5 | 1.0   | 0.5 |
| 23    | 11.5    | 10.0 | ---      | --- | ---      | --- | 0.5     | 0.5 | 0.5      | 0.0 | 1.5   | 0.5 |
| 24    | 11.5    | 10.0 | ---      | --- | ---      | --- | 0.5     | 0.5 | 0.5      | 0.0 | 2.0   | 0.5 |
| 25    | 12.0    | 10.5 | ---      | --- | ---      | --- | 0.5     | 0.5 | 1.0      | 0.5 | 3.0   | 1.5 |
| 26    | 12.0    | 11.0 | ---      | --- | ---      | --- | 0.5     | 0.5 | 0.5      | 0.5 | 3.0   | 1.5 |
| 27    | 11.0    | 10.0 | ---      | --- | ---      | --- | 0.5     | 0.5 | 1.0      | 0.5 | 3.0   | 1.5 |
| 28    | 11.0    | 9.5  | ---      | --- | ---      | --- | 0.5     | 0.0 | 0.5      | 0.5 | 3.0   | 2.0 |
| 29    | 11.5    | 10.5 | ---      | --- | ---      | --- | 0.5     | 0.0 | 0.5      | 0.5 | 2.0   | 2.0 |
| 30    | 11.5    | 10.0 | ---      | --- | ---      | --- | 0.5     | 0.0 | ---      | --- | 2.0   | 2.0 |
| 31    | 10.0    | 9.0  | ---      | --- | ---      | --- | 0.0     | 0.0 | ---      | --- | 2.0   | 1.5 |
| MONTH | 19.0    | 9.0  | ---      | --- | ---      | --- | 0.5     | 0.0 | 1.0      | 0.0 | 3.0   | 0.0 |

[illegible]

## ST. CROIX RIVER BASIN

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

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

DRAINAGE AREA.--1,460 mi<sup>2</sup> (3,780 km<sup>2</sup>).

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

PERIOD OF DAILY RECORD.--

SPECIFIC CONDUCTANCE: July 1972 to current year.

pH: July 1972 to current year.

WATER TEMPERATURES: September 1969 to current year.

DISSOLVED OXYGEN: September 1969 to current year.

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

REMARKS.--Monitor not operated during winter periods, water years 1969 to 1975. Monitor not operated Feb. to May, water year 1976. Other interruptions in the record were due to malfunctions of the monitor.

EXTREMES FOR PERIOD OF DAILY RECORD.--

SPECIFIC CONDUCTANCE: Maximum, >200 micromhos (monitor limitation) Oct. 21, 22, 1975; minimum, 27 micromhos July 7, 8, 1973.

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

WATER TEMPERATURES: Maximum, 27.0°C July 24, 1973, Aug. 2, 3, 1975; minimum, 0.0°C on many days during winter periods.

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

EXTREMES FOR CURRENT YEAR.--

SPECIFIC CONDUCTANCE: Maximum, 176 micromhos Jan. 16; minimum, 52 micromhos Nov. 11.

pH: Maximum, 8.8 units Nov. 19; minimum, 5.7 units Nov. 19.

WATER TEMPERATURES: Maximum, 25.0°C June 23, Aug. 22, 23; minimum, 0.0°C on many days during winter periods.

DISSOLVED OXYGEN: Maximum, 14.7 mg/L Nov. 23; minimum, 1.6 mg/L Aug. 17.

## CHEMICAL ANALYSES, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

| DATE  | TIME | INSTANTANEOUS DISCHARGE (CFS) | SPECIFIC CONDUCTANCE (MICROMHOS) | pH (UNITS) | TEMPERATURE (DEG C) | COLOR (PLATINUM-COBALT UNITS) | TURBIDITY (JTU) | DISSOLVED OXYGEN (MG/L) | PERCENT SATURATION | CHEMICAL OXYGEN DEMAND (LOW LEVEL) (MG/L) | COD IN BOTTOM MATERIAL (MG/KG) | FECAL COLIFORM (COL. PER 100 ML) |
|-------|------|-------------------------------|----------------------------------|------------|---------------------|-------------------------------|-----------------|-------------------------|--------------------|-------------------------------------------|--------------------------------|----------------------------------|
| OCT   |      |                               |                                  |            |                     |                               |                 |                         |                    |                                           |                                |                                  |
| 16... | 1430 | 1090                          | 97                               | 6.4        | 11.5                | 50                            | 2               | 7.2                     | 66                 | 43                                        | --                             | --                               |
| 30... | 1300 | 1460                          | 93                               | 6.2        | 9.5                 | 40                            | 3               | 8.2                     | 72                 | 37                                        | --                             | 100                              |
| NOV   |      |                               |                                  |            |                     |                               |                 |                         |                    |                                           |                                |                                  |
| 19... | 1330 | 2420                          | 55                               | 6.2        | 5.0                 | 35                            | 2               | 10.4                    | 81                 | 33                                        | --                             | 62                               |
| DEC   |      |                               |                                  |            |                     |                               |                 |                         |                    |                                           |                                |                                  |
| 01... | 1600 | 3790                          | 78                               | 6.3        | 3.5                 | 60                            | 2               | 11.8                    | 88                 | 50                                        | 87000                          | 95                               |
| 17... | 1400 | 3210                          | 90                               | 6.4        | .0                  | 55                            | 1               | 12.4                    | 85                 | 41                                        | --                             | 30                               |
| 31... | 1300 | 1590                          | 81                               | 6.6        | .0                  | 55                            | 2               | 12.6                    | 86                 | 55                                        | --                             | 848                              |
| JAN   |      |                               |                                  |            |                     |                               |                 |                         |                    |                                           |                                |                                  |
| 15... | 1230 | 1820                          | 85                               | 6.6        | .0                  | 55                            | 2               | 11.2                    | 77                 | 37                                        | --                             | 89                               |
| FEB   |      |                               |                                  |            |                     |                               |                 |                         |                    |                                           |                                |                                  |
| 02... | 1400 | 9660                          | 56                               | 6.6        | .5                  | 55                            | 6               | 13.0                    | 90                 | 30                                        | --                             | 82                               |
| 20... | 1200 | 2900                          | 64                               | 6.6        | 1.0                 | 42                            | 3               | 12.4                    | 87                 | 22                                        | 17000                          | 23                               |
| 26... | 1200 | 3450                          | 68                               | 6.7        | 1.0                 | 45                            | 6               | 11.2                    | 79                 | 23                                        | --                             | 33                               |
| MAR   |      |                               |                                  |            |                     |                               |                 |                         |                    |                                           |                                |                                  |
| 23... | 1030 | 2690                          | 67                               | 6.6        | .5                  | 37                            | 1               | 12.0                    | 83                 | 25                                        | --                             | 84                               |
| APR   |      |                               |                                  |            |                     |                               |                 |                         |                    |                                           |                                |                                  |
| 01... | 1200 | 7000                          | 45                               | 6.6        | 2.5                 | 37                            | 1               | 13.0                    | 95                 | 21                                        | --                             | 84                               |
| 19... | 1245 | 6190                          | 42                               | 6.6        | 8.5                 | 33                            | 1               | 11.2                    | 95                 | 20                                        | --                             | 87                               |
| 28... | 1130 | 5590                          | 42                               | 6.5        | 8.0                 | 37                            | 1               | 11.0                    | 92                 | 21                                        | --                             | 848                              |
| MAY   |      |                               |                                  |            |                     |                               |                 |                         |                    |                                           |                                |                                  |
| 26... | 1030 | 8980                          | 37                               | 6.5        | 11.5                | 10                            | 1               | 9.6                     | 88                 | 22                                        | --                             | 87                               |
| JUN   |      |                               |                                  |            |                     |                               |                 |                         |                    |                                           |                                |                                  |
| 18... | 1000 | 1990                          | 77                               | 7.1        | 21.0                | 50                            | 5               | 5.0                     | 56                 | 37                                        | 77000                          | 8780                             |
| JUL   |      |                               |                                  |            |                     |                               |                 |                         |                    |                                           |                                |                                  |
| 13... | 1330 | 1430                          | 90                               | 6.6        | 20.0                | 65                            | 6               | 4.5                     | 49                 | 38                                        | --                             | 14                               |
| 29... | 1000 | 2980                          | 66                               | 6.8        | 20.0                | 60                            | 3               | 5.5                     | 60                 | 34                                        | --                             | 817                              |
| AUG   |      |                               |                                  |            |                     |                               |                 |                         |                    |                                           |                                |                                  |
| 17... | 1130 | 1220                          | 110                              | 6.8        | 21.0                | 70                            | 2               | 3.1                     | 34                 | 42                                        | --                             | 26                               |
| 30... | 1130 | 1570                          | 104                              | 6.7        | 20.0                | 70                            | 1               | 3.8                     | 41                 | 36                                        | --                             | 45                               |
| SEP   |      |                               |                                  |            |                     |                               |                 |                         |                    |                                           |                                |                                  |
| 16... | 1600 | 2900                          | 67                               | 6.8        | 17.0                | 45                            | 5               | 7.0                     | 72                 | 30                                        | 110000                         | 810                              |
| 23... | 1330 | 1550                          | 100                              | 6.5        | 17.0                | 55                            | 3               | 6.5                     | 67                 | 40                                        | --                             | 30                               |

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

## CHEMICAL ANALYSES, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

| DATE  | STREP-<br>TOCOCCT<br>(COL-<br>ONIES<br>PER<br>100 ML) | HARD-<br>NESS<br>(CA, MG)<br>(MG/L) | NON-<br>CAR-<br>BONATE<br>HARD-<br>NESS<br>(MG/L) | DIS-<br>SOLVED<br>CAL-<br>CIUM<br>(CA)<br>(MG/L) | DIS-<br>SOLVED<br>MAG-<br>NESIUM<br>(MG)<br>(MG/L) | DIS-<br>SOLVED<br>SODIUM<br>(NA)<br>(MG/L) | PERCENT<br>SODIUM | SODIUM<br>AD-<br>SORP-<br>TION<br>RATIO | DIS-<br>SOLVED<br>PO-<br>TAS-<br>SIUM<br>(K)<br>(MG/L) | BICAR-<br>BONATE<br>(HCO3)<br>(MG/L) | CAR-<br>BONATE<br>(CO3)<br>(MG/L) | ALKA-<br>LITY<br>AS<br>CACO3<br>(MG/L) |
|-------|-------------------------------------------------------|-------------------------------------|---------------------------------------------------|--------------------------------------------------|----------------------------------------------------|--------------------------------------------|-------------------|-----------------------------------------|--------------------------------------------------------|--------------------------------------|-----------------------------------|----------------------------------------|
| OCT   |                                                       |                                     |                                                   |                                                  |                                                    |                                            |                   |                                         |                                                        |                                      |                                   |                                        |
| 16... | 35                                                    | --                                  | --                                                | --                                               | --                                                 | --                                         | --                | --                                      | --                                                     | --                                   | --                                | --                                     |
| 30... | 38                                                    | --                                  | --                                                | --                                               | --                                                 | --                                         | --                | --                                      | --                                                     | --                                   | --                                | --                                     |
| NOV   |                                                       |                                     |                                                   |                                                  |                                                    |                                            |                   |                                         |                                                        |                                      |                                   |                                        |
| 19... | 27                                                    | --                                  | --                                                | --                                               | --                                                 | --                                         | --                | --                                      | --                                                     | --                                   | --                                | --                                     |
| DEC   |                                                       |                                     |                                                   |                                                  |                                                    |                                            |                   |                                         |                                                        |                                      |                                   |                                        |
| 01... | 15                                                    | 17                                  | 4                                                 | 5.0                                              | 1.0                                                | 7.9                                        | 50                | .8                                      | .6                                                     | 15                                   | 0                                 | 12                                     |
| 17... | 42                                                    | --                                  | --                                                | --                                               | --                                                 | --                                         | --                | --                                      | --                                                     | --                                   | --                                | --                                     |
| 31... | 811                                                   | --                                  | --                                                | --                                               | --                                                 | --                                         | --                | --                                      | --                                                     | --                                   | --                                | --                                     |
| JAN   |                                                       |                                     |                                                   |                                                  |                                                    |                                            |                   |                                         |                                                        |                                      |                                   |                                        |
| 15... | 27                                                    | --                                  | --                                                | --                                               | --                                                 | --                                         | --                | --                                      | --                                                     | --                                   | --                                | --                                     |
| FEB   |                                                       |                                     |                                                   |                                                  |                                                    |                                            |                   |                                         |                                                        |                                      |                                   |                                        |
| 02... | 120                                                   | --                                  | --                                                | --                                               | --                                                 | --                                         | --                | --                                      | --                                                     | --                                   | --                                | --                                     |
| 20... | 87                                                    | --                                  | --                                                | --                                               | --                                                 | --                                         | --                | --                                      | --                                                     | --                                   | --                                | --                                     |
| 26... | 84                                                    | 16                                  | 4                                                 | 5.0                                              | .2                                                 | 6.3                                        | 45                | .7                                      | .6                                                     | 14                                   | 0                                 | 11                                     |
| MAR   |                                                       |                                     |                                                   |                                                  |                                                    |                                            |                   |                                         |                                                        |                                      |                                   |                                        |
| 23... | 85                                                    | --                                  | --                                                | --                                               | --                                                 | --                                         | --                | --                                      | --                                                     | --                                   | --                                | --                                     |
| APR   |                                                       |                                     |                                                   |                                                  |                                                    |                                            |                   |                                         |                                                        |                                      |                                   |                                        |
| 01... | 91                                                    | --                                  | --                                                | --                                               | --                                                 | --                                         | --                | --                                      | --                                                     | --                                   | --                                | --                                     |
| 19... | 84                                                    | --                                  | --                                                | --                                               | --                                                 | --                                         | --                | --                                      | --                                                     | --                                   | --                                | --                                     |
| 28... | 83                                                    | --                                  | --                                                | --                                               | --                                                 | --                                         | --                | --                                      | --                                                     | --                                   | --                                | --                                     |
| MAY   |                                                       |                                     |                                                   |                                                  |                                                    |                                            |                   |                                         |                                                        |                                      |                                   |                                        |
| 26... | 813                                                   | 11                                  | 0                                                 | 3.5                                              | .5                                                 | 2.5                                        | 33                | .3                                      | .3                                                     | 16                                   | 0                                 | 13                                     |
| JUN   |                                                       |                                     |                                                   |                                                  |                                                    |                                            |                   |                                         |                                                        |                                      |                                   |                                        |
| 18... | 36                                                    | --                                  | --                                                | --                                               | --                                                 | --                                         | --                | --                                      | --                                                     | --                                   | --                                | --                                     |
| JUL   |                                                       |                                     |                                                   |                                                  |                                                    |                                            |                   |                                         |                                                        |                                      |                                   |                                        |
| 13... | 16                                                    | --                                  | --                                                | --                                               | --                                                 | --                                         | --                | --                                      | --                                                     | --                                   | --                                | --                                     |
| 29... | 850                                                   | --                                  | --                                                | --                                               | --                                                 | --                                         | --                | --                                      | --                                                     | --                                   | --                                | --                                     |
| AUG   |                                                       |                                     |                                                   |                                                  |                                                    |                                            |                   |                                         |                                                        |                                      |                                   |                                        |
| 17... | 80                                                    | --                                  | --                                                | --                                               | --                                                 | --                                         | --                | --                                      | --                                                     | --                                   | --                                | --                                     |
| 30... | 64                                                    | 25                                  | 0                                                 | 6.9                                              | 1.9                                                | 11                                         | 48                | 1.0                                     | .6                                                     | 33                                   | 0                                 | 27                                     |
| SEP   |                                                       |                                     |                                                   |                                                  |                                                    |                                            |                   |                                         |                                                        |                                      |                                   |                                        |
| 16... | 40                                                    | --                                  | --                                                | --                                               | --                                                 | --                                         | --                | --                                      | --                                                     | --                                   | --                                | --                                     |
| 23... | 822                                                   | --                                  | --                                                | --                                               | --                                                 | --                                         | --                | --                                      | --                                                     | --                                   | --                                | --                                     |

| DATE  | CARBON<br>DIOXIDE<br>(CO2)<br>(MG/L) | DIS-<br>SOLVED<br>SULFATE<br>(SO4)<br>(MG/L) | DIS-<br>SOLVED<br>CHLO-<br>RIDE<br>(CL)<br>(MG/L) | DIS-<br>SOLVED<br>FLUO-<br>RIDE<br>(F)<br>(MG/L) | DIS-<br>SOLVED<br>SILICA<br>(SIO2)<br>(MG/L) | DIS-<br>SOLVED<br>SOLIDS<br>(RESI-<br>DUE AT<br>180 C)<br>(MG/L) | DIS-<br>SOLVED<br>SOLIDS<br>(SUM OF<br>CONSTITUENTS)<br>(MG/L) | DIS-<br>SOLVED<br>SOLIDS<br>(TONS<br>PER<br>DAY) | LOSS ON<br>IGNI-<br>TION IN<br>BOTTOM<br>MA-<br>TERIAL<br>(MG/KG) | TOTAL<br>NITRITE<br>PLUS<br>NITRATE<br>(N)<br>(MG/L) | TOTAL<br>KJEL-<br>DAHL<br>NITRO-<br>GEN<br>(N)<br>(MG/L) | TOTAL<br>NITRO-<br>GEN<br>(N)<br>(MG/L) |
|-------|--------------------------------------|----------------------------------------------|---------------------------------------------------|--------------------------------------------------|----------------------------------------------|------------------------------------------------------------------|----------------------------------------------------------------|--------------------------------------------------|-------------------------------------------------------------------|------------------------------------------------------|----------------------------------------------------------|-----------------------------------------|
| OCT   |                                      |                                              |                                                   |                                                  |                                              |                                                                  |                                                                |                                                  |                                                                   |                                                      |                                                          |                                         |
| 16... | --                                   | --                                           | --                                                | --                                               | --                                           | --                                                               | --                                                             | --                                               | --                                                                | --                                                   | --                                                       | --                                      |
| 30... | --                                   | --                                           | --                                                | --                                               | --                                           | --                                                               | --                                                             | --                                               | --                                                                | .01                                                  | .41                                                      | .42                                     |
| NOV   |                                      |                                              |                                                   |                                                  |                                              |                                                                  |                                                                |                                                  |                                                                   |                                                      |                                                          |                                         |
| 19... | --                                   | --                                           | --                                                | --                                               | --                                           | --                                                               | --                                                             | --                                               | --                                                                | --                                                   | --                                                       | --                                      |
| DEC   |                                      |                                              |                                                   |                                                  |                                              |                                                                  |                                                                |                                                  |                                                                   |                                                      |                                                          |                                         |
| 01... | 12                                   | 9.6                                          | 11                                                | .4                                               | 3.4                                          | 61                                                               | 47                                                             | 624                                              | 97000                                                             | .01                                                  | .42                                                      | .43                                     |
| 17... | --                                   | --                                           | --                                                | --                                               | --                                           | --                                                               | --                                                             | --                                               | --                                                                | --                                                   | --                                                       | --                                      |
| 31... | --                                   | --                                           | --                                                | --                                               | --                                           | --                                                               | --                                                             | --                                               | --                                                                | .00                                                  | .35                                                      | .35                                     |
| JAN   |                                      |                                              |                                                   |                                                  |                                              |                                                                  |                                                                |                                                  |                                                                   |                                                      |                                                          |                                         |
| 15... | --                                   | --                                           | --                                                | --                                               | --                                           | --                                                               | --                                                             | --                                               | --                                                                | --                                                   | --                                                       | --                                      |
| FEB   |                                      |                                              |                                                   |                                                  |                                              |                                                                  |                                                                |                                                  |                                                                   |                                                      |                                                          |                                         |
| 02... | --                                   | --                                           | --                                                | --                                               | --                                           | --                                                               | --                                                             | --                                               | --                                                                | .08                                                  | .52                                                      | .60                                     |
| 20... | --                                   | --                                           | --                                                | --                                               | --                                           | --                                                               | --                                                             | --                                               | 16000                                                             | --                                                   | --                                                       | --                                      |
| 26... | 4.5                                  | 8.0                                          | 5.7                                               | .2                                               | 3.3                                          | 51                                                               | 37                                                             | 475                                              | --                                                                | .01                                                  | .33                                                      | .34                                     |
| MAR   |                                      |                                              |                                                   |                                                  |                                              |                                                                  |                                                                |                                                  |                                                                   |                                                      |                                                          |                                         |
| 23... | --                                   | --                                           | --                                                | --                                               | --                                           | --                                                               | --                                                             | --                                               | --                                                                | --                                                   | --                                                       | --                                      |
| APR   |                                      |                                              |                                                   |                                                  |                                              |                                                                  |                                                                |                                                  |                                                                   |                                                      |                                                          |                                         |
| 01... | --                                   | --                                           | --                                                | --                                               | --                                           | --                                                               | --                                                             | --                                               | --                                                                | .05                                                  | .40                                                      | .45                                     |
| 19... | --                                   | --                                           | --                                                | --                                               | --                                           | --                                                               | --                                                             | --                                               | --                                                                | --                                                   | --                                                       | --                                      |
| 28... | --                                   | --                                           | --                                                | --                                               | --                                           | --                                                               | --                                                             | --                                               | --                                                                | .01                                                  | .40                                                      | .41                                     |
| MAY   |                                      |                                              |                                                   |                                                  |                                              |                                                                  |                                                                |                                                  |                                                                   |                                                      |                                                          |                                         |
| 26... | 8.1                                  | 4.4                                          | 4.0                                               | .0                                               | 1.8                                          | 34                                                               | 25                                                             | 824                                              | --                                                                | .01                                                  | .28                                                      | .29                                     |
| JUN   |                                      |                                              |                                                   |                                                  |                                              |                                                                  |                                                                |                                                  |                                                                   |                                                      |                                                          |                                         |
| 18... | --                                   | --                                           | --                                                | --                                               | --                                           | --                                                               | --                                                             | --                                               | 33000                                                             | --                                                   | --                                                       | --                                      |
| JUL   |                                      |                                              |                                                   |                                                  |                                              |                                                                  |                                                                |                                                  |                                                                   |                                                      |                                                          |                                         |
| 13... | --                                   | --                                           | --                                                | --                                               | --                                           | --                                                               | --                                                             | --                                               | --                                                                | --                                                   | --                                                       | --                                      |
| 29... | --                                   | --                                           | --                                                | --                                               | --                                           | --                                                               | --                                                             | --                                               | --                                                                | .00                                                  | .33                                                      | .35                                     |
| AUG   |                                      |                                              |                                                   |                                                  |                                              |                                                                  |                                                                |                                                  |                                                                   |                                                      |                                                          |                                         |
| 17... | --                                   | --                                           | --                                                | --                                               | --                                           | --                                                               | --                                                             | --                                               | --                                                                | --                                                   | --                                                       | --                                      |
| 30... | 11                                   | 6.7                                          | 12                                                | .1                                               | 2.0                                          | 74                                                               | 58                                                             | 314                                              | --                                                                | .00                                                  | .60                                                      | .60                                     |
| SEP   |                                      |                                              |                                                   |                                                  |                                              |                                                                  |                                                                |                                                  |                                                                   |                                                      |                                                          |                                         |
| 16... | --                                   | --                                           | --                                                | --                                               | --                                           | --                                                               | --                                                             | --                                               | 68000                                                             | --                                                   | --                                                       | --                                      |
| 23... | --                                   | --                                           | --                                                | --                                               | --                                           | --                                                               | --                                                             | --                                               | --                                                                | .01                                                  | .28                                                      | .29                                     |



CHEMICAL ANALYSES, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

[illegible]

## CHEMICAL ANALYSES, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

[illegible]

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

[illegible]

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

## CHEMICAL ANALYSES, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

| DATE  | TOTAL<br>VANADIUM IN<br>BOTTOM<br>MATERIAL<br>(UG/G) | TOTAL<br>ZINC<br>(ZN)<br>(UG/L) | SUS-<br>PENDE<br>D ZINC<br>(ZN)<br>(UG/L) | DIS-<br>SOLVED<br>ZINC<br>(ZN)<br>(UG/L) | TOTAL<br>ZINC<br>IN<br>BOTTOM<br>MATERIAL<br>(UG/G) | TOTAL<br>ORGANIC<br>CARBON<br>(C)<br>(MG/L) | CHLORO-<br>PHYLL A<br>(UG/L) | CHLORO-<br>PHYLL B<br>(UG/L) | SUS-<br>PENDE<br>D SEDI-<br>MENT<br>(MG/L) | SUS-<br>PENDE<br>D SEDI-<br>MENT<br>DIS-<br>CHARGE<br>(T/DAY) |
|-------|------------------------------------------------------|---------------------------------|-------------------------------------------|------------------------------------------|-----------------------------------------------------|---------------------------------------------|------------------------------|------------------------------|--------------------------------------------|---------------------------------------------------------------|
| OCT   |                                                      |                                 |                                           |                                          |                                                     |                                             |                              |                              |                                            |                                                               |
| 16... | --                                                   | --                              | --                                        | --                                       | --                                                  | 8.6                                         | --                           | --                           | --                                         | --                                                            |
| 30... | --                                                   | --                              | --                                        | --                                       | --                                                  | 14                                          | --                           | --                           | 9                                          | 35                                                            |
| NOV   |                                                      |                                 |                                           |                                          |                                                     |                                             |                              |                              |                                            |                                                               |
| 19... | --                                                   | --                              | --                                        | --                                       | --                                                  | 11                                          | --                           | --                           | --                                         | --                                                            |
| DEC   |                                                      |                                 |                                           |                                          |                                                     |                                             |                              |                              |                                            |                                                               |
| 01... | 9.0                                                  | 10                              | 0                                         | 10                                       | 73                                                  | 18                                          | --                           | --                           | --                                         | --                                                            |
| 31... | --                                                   | --                              | --                                        | --                                       | --                                                  | 16                                          | --                           | --                           | 11                                         | 47                                                            |
| JAN   |                                                      |                                 |                                           |                                          |                                                     |                                             |                              |                              |                                            |                                                               |
| 15... | --                                                   | --                              | --                                        | --                                       | --                                                  | 12                                          | --                           | --                           | --                                         | --                                                            |
| FEB   |                                                      |                                 |                                           |                                          |                                                     |                                             |                              |                              |                                            |                                                               |
| 02... | --                                                   | --                              | --                                        | --                                       | --                                                  | 120                                         | --                           | --                           | 21                                         | 548                                                           |
| 20... | 6.0                                                  | 0                               | --                                        | --                                       | 80                                                  | --                                          | --                           | --                           | --                                         | --                                                            |
| 26... | --                                                   | 0                               | 0                                         | 0                                        | --                                                  | 9.8                                         | --                           | --                           | 18                                         | 168                                                           |
| MAR   |                                                      |                                 |                                           |                                          |                                                     |                                             |                              |                              |                                            |                                                               |
| 23... | --                                                   | --                              | --                                        | --                                       | --                                                  | 8.0                                         | --                           | --                           | --                                         | --                                                            |
| APR   |                                                      |                                 |                                           |                                          |                                                     |                                             |                              |                              |                                            |                                                               |
| 01... | --                                                   | --                              | --                                        | --                                       | --                                                  | 10                                          | --                           | --                           | 34                                         | 643                                                           |
| 19... | --                                                   | --                              | --                                        | --                                       | --                                                  | 7.6                                         | --                           | --                           | --                                         | --                                                            |
| 28... | --                                                   | --                              | --                                        | --                                       | --                                                  | 9.2                                         | --                           | --                           | 9                                          | 136                                                           |
| MAY   |                                                      |                                 |                                           |                                          |                                                     |                                             |                              |                              |                                            |                                                               |
| 26... | --                                                   | 0                               | 0                                         | 10                                       | --                                                  | 9.9                                         | --                           | --                           | 15                                         | 364                                                           |
| JUN   |                                                      |                                 |                                           |                                          |                                                     |                                             |                              |                              |                                            |                                                               |
| 18... | 9.0                                                  | --                              | --                                        | --                                       | --                                                  | 11                                          | --                           | --                           | --                                         | --                                                            |
| JUL   |                                                      |                                 |                                           |                                          |                                                     |                                             |                              |                              |                                            |                                                               |
| 13... | --                                                   | --                              | --                                        | --                                       | --                                                  | 21                                          | --                           | --                           | --                                         | --                                                            |
| 29... | --                                                   | --                              | --                                        | --                                       | --                                                  | --                                          | 5.95                         | 5.26                         | 7                                          | 56                                                            |
| AUG   |                                                      |                                 |                                           |                                          |                                                     |                                             |                              |                              |                                            |                                                               |
| 17... | --                                                   | --                              | --                                        | --                                       | --                                                  | 16                                          | 22.7                         | 10.1                         | --                                         | --                                                            |
| 30... | --                                                   | 20                              | 0                                         | 20                                       | --                                                  | 15                                          | 19.4                         | 16.0                         | 5                                          | 21                                                            |
| SEP   |                                                      |                                 |                                           |                                          |                                                     |                                             |                              |                              |                                            |                                                               |
| 16... | --                                                   | --                              | --                                        | --                                       | --                                                  | 5.3                                         | --                           | --                           | --                                         | --                                                            |
| 23... | --                                                   | --                              | --                                        | --                                       | --                                                  | 13                                          | 5.08                         | 4.22                         | 6                                          | 25                                                            |

## QUALITATIVE AND ASSOCIATED QUANTITATIVE ANALYSES OF BIOLOGICAL DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

## PHYTOPLANKTON

| DATE   | TIME | ORGANISM              | COUNT<br>(CELLS/ML) | PERCENT<br>OF TOTAL | SAMPLING<br>METHOD |
|--------|------|-----------------------|---------------------|---------------------|--------------------|
| Oct 30 | 1300 | CHRYSTOPHYTA          |                     |                     | DEPTH INTEGRATED   |
|        |      | ..BACILLARIOPHYCEAE   |                     |                     |                    |
|        |      | ...CENTRALES          |                     |                     |                    |
|        |      | ...COSCONODISCACEAE   |                     |                     |                    |
|        |      | ....CYCLOTELLA        | 73                  | 4                   |                    |
|        |      | ....MELOSIRA          | 170                 | 10                  |                    |
|        |      | ...PENNALES           |                     |                     |                    |
|        |      | ...ACHNANTHACEAE      |                     |                     |                    |
|        |      | ....ACHNANTHES        | 24                  | 1                   |                    |
|        |      | ...FRAGILARIACEAE     |                     |                     |                    |
|        |      | ....ASTERIONELLA      |                     |                     |                    |
|        |      | ...NAVICULACEAE       |                     |                     |                    |
|        |      | ....NAVICULA          | 24                  | 1                   |                    |
|        |      | ...NITZSCHACEAE       |                     |                     |                    |
|        |      | ....NITZSCHIA         | 49                  | 3                   |                    |
|        |      | ..CHRYSTOPHYCEAE      |                     |                     |                    |
|        |      | ...CHRYSONOMADALES    |                     |                     |                    |
|        |      | ...MALLOMONADACEAE    |                     |                     |                    |
|        |      | ....MALLOMONAS        |                     |                     |                    |
|        |      | CYANOPHYTA            |                     |                     |                    |
|        |      | ..MYXOPHYCEAE         |                     |                     |                    |
|        |      | ...OSCILLATORIALES    |                     |                     |                    |
|        |      | ...OSCILLATORIACEAE   |                     |                     |                    |
|        |      | ....LYNGBYA           | 1100                | 69                  |                    |
|        |      | ....OSCILLATORIA      | 190                 | 11                  |                    |
|        |      | PYRRHOPHYTA           |                     |                     |                    |
|        |      | ..DINOPHYCEAE         |                     |                     |                    |
|        |      | ...GYMNODINIALES      |                     |                     |                    |
|        |      | ...GYMNODINIACEAE     |                     |                     |                    |
|        |      | ....GYMNODINIUM       |                     |                     |                    |
|        |      | TOTAL                 | 1600                |                     |                    |
| Dec 01 | 1600 | CHLOROPHYTA           |                     |                     | DEPTH INTEGRATED   |
|        |      | ..CHLOROPHYCEAE       |                     |                     |                    |
|        |      | ...CHLOROCOCCALES     |                     |                     |                    |
|        |      | ...OCCYSTACEAE        |                     |                     |                    |
|        |      | ....ANKISTRODESMUS    | 22                  | 1                   |                    |
|        |      | CHRYSTOPHYTA          |                     |                     |                    |
|        |      | ..BACILLARIOPHYCEAE   |                     |                     |                    |
|        |      | ...CENTRALES          |                     |                     |                    |
|        |      | ...COSCONODISCACEAE   |                     |                     |                    |
|        |      | ....CYCLOTELLA        | 22                  | 1                   |                    |
|        |      | ...PENNALES           |                     |                     |                    |
|        |      | ...ACHNANTHACEAE      |                     |                     |                    |
|        |      | ....ACHNANTHES        | 44                  | 2                   |                    |
|        |      | ...FRAGILARIACEAE     |                     |                     |                    |
|        |      | ....ASTERIONELLA      | 130                 | 5                   |                    |
|        |      | ...NAVICULACEAE       |                     |                     |                    |
|        |      | ....DIPLOEIS          | 22                  | 1                   |                    |
|        |      | ....NAVICULA          |                     |                     |                    |
|        |      | ...NITZSCHACEAE       |                     |                     |                    |
|        |      | ....NITZSCHIA         | 22                  | 1                   |                    |
|        |      | ...TABELLARIACEAE     |                     |                     |                    |
|        |      | ....TABELLARIA        | 22                  | 1                   |                    |
|        |      | CYANOPHYTA            |                     |                     |                    |
|        |      | ..MYXOPHYCEAE         |                     |                     |                    |
|        |      | ...CHLOROCOCCALES     |                     |                     |                    |
|        |      | ...CHLOROCOCCACEAE    |                     |                     |                    |
|        |      | ....ANACYSTIS         |                     |                     |                    |
|        |      | ....ANACYSTIS INCERTA | 1100                | 39                  |                    |
|        |      | ...OSCILLATORIALES    |                     |                     |                    |
|        |      | ...OSCILLATORIACEAE   |                     |                     |                    |
|        |      | ....OSCILLATORIA      | 1400                | 50                  |                    |
|        |      | TOTAL                 | 2800                |                     |                    |



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

## QUALITATIVE AND ASSOCIATED QUANTITATIVE ANALYSES OF BIOLOGICAL DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

## PHYTOPLANKTON

| DATE   | TIME | ORGANISM            | COUNT<br>(CELLS/ML) | PERCENT<br>OF TOTAL | SAMPLING<br>METHOD |
|--------|------|---------------------|---------------------|---------------------|--------------------|
| Dec 31 | 1300 | CHRYSOPHYTA         |                     |                     | DEPTH INTEGRATED   |
|        |      | ..BACILLARIOPHYCEAE |                     |                     |                    |
|        |      | ...CENTRALES        |                     |                     |                    |
|        |      | ...COSCINODISCACEAE |                     |                     |                    |
|        |      | ....CYCLOTELLA      | 18                  | 29                  |                    |
|        |      | ...PENNALES         |                     |                     |                    |
|        |      | ...FRAGILARIACEAE   |                     |                     |                    |
|        |      | ....ASTERIONELLA    | 27                  | 43                  |                    |
|        |      | ....SYNEDRA         | 14                  | 21                  |                    |
|        |      | ...NAVICULACEAE     |                     |                     |                    |
|        |      | ....NAVICULA        | 5                   | 7                   |                    |
|        |      | ..CHRYSOPHYCEAE     |                     |                     |                    |
|        |      | ..CHRYSOMONADALES   |                     |                     |                    |
|        |      | ...OCHROMONADACEAE  |                     |                     |                    |
|        |      | ....DINOBRYON       |                     |                     |                    |
|        |      | PYRRHOPHYTA         |                     |                     |                    |
|        |      | ..DINOPHYCEAE       |                     |                     |                    |
|        |      | ...PERIDINIALES     |                     |                     |                    |
|        |      | ...PERIDINIACEAE    |                     |                     |                    |
|        |      | ....PERIDINIUM      |                     |                     |                    |
|        |      | TOTAL               | 64                  |                     |                    |
| Feb 02 | 1400 | CHRYSOPHYTA         |                     |                     | DEPTH INTEGRATED   |
|        |      | ..BACILLARIOPHYCEAE |                     |                     |                    |
|        |      | ...PENNALES         |                     |                     |                    |
|        |      | ...EUNOTIACEAE      |                     |                     |                    |
|        |      | ....EUNOTIA         | 38                  | 2                   |                    |
|        |      | ...FRAGILARIACEAE   |                     |                     |                    |
|        |      | ....ASTERIONELLA    |                     |                     |                    |
|        |      | ....SYNEDRA         |                     |                     |                    |
|        |      | ...GOMPHONEMACEAE   |                     |                     |                    |
|        |      | ....GOMPHONEMA      |                     |                     |                    |
|        |      | ...NAVICULACEAE     |                     |                     |                    |
|        |      | ....FRUSTULIA       |                     |                     |                    |
|        |      | ....NAVICULA        |                     |                     |                    |
|        |      | ...NITZSCHIA        |                     |                     |                    |
|        |      | ....NITZSCHIA       | 38                  | 2                   |                    |
|        |      | ...TABELLARIACEAE   |                     |                     |                    |
|        |      | ....TABELLARIA      | 38                  | 2                   |                    |
|        |      | CYANOPHYTA          |                     |                     |                    |
|        |      | ..MYXOPHYCEAE       |                     |                     |                    |
|        |      | ...OSCILLATORIALES  |                     |                     |                    |
|        |      | ...OSCILLATORIACEAE |                     |                     |                    |
|        |      | ....LYNGHYA         | 1600                | 93                  |                    |
|        |      | EUGLENOPHYTA        |                     |                     |                    |
|        |      | ..EUGLENOPHYCEAE    |                     |                     |                    |
|        |      | ...EUGLENALES       |                     |                     |                    |
|        |      | ...EUGLENACEAE      |                     |                     |                    |
|        |      | ....TRACHELOMONAS   |                     |                     |                    |
|        |      | TOTAL               | 1700                |                     |                    |
| Feb 26 | 1200 | CHRYSOPHYTA         |                     |                     | DEPTH INTEGRATED   |
|        |      | ..BACILLARIOPHYCEAE |                     |                     |                    |
|        |      | ...PENNALES         |                     |                     |                    |
|        |      | ...ACHNANTHACEAE    |                     |                     |                    |
|        |      | ....ACHNANTHES      | 8                   | 5                   |                    |
|        |      | ...DIATOMACEAE      |                     |                     |                    |
|        |      | ....DIATOMA         | 4                   | 3                   |                    |
|        |      | ...EUNOTIACEAE      |                     |                     |                    |
|        |      | ....EUNOTIA         | 17                  | 11                  |                    |
|        |      | ...FRAGILARIACEAE   |                     |                     |                    |
|        |      | ....SYNEDRA         | 8                   | 5                   |                    |
|        |      | ...GOMPHONEMACEAE   |                     |                     |                    |
|        |      | ....GOMPHONEMA      |                     |                     |                    |
|        |      | ...NAVICULACEAE     |                     |                     |                    |
|        |      | ....FRUSTULIA       | 4                   | 3                   |                    |
|        |      | ....NAVICULA        | 17                  | 11                  |                    |
|        |      | ...PINNULARIA       |                     |                     |                    |
|        |      | ...NITZSCHIA        |                     |                     |                    |
|        |      | ....NITZSCHIA       | 29                  | 19                  |                    |
|        |      | ...TABELLARIACEAE   |                     |                     |                    |
|        |      | ....TABELLARIA      | 66                  | 43                  |                    |
|        |      | TOTAL               | 150                 |                     |                    |

## QUALITATIVE AND ASSOCIATED QUANTITATIVE ANALYSES OF BIOLOGICAL DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

## PHYTOPLANKTON

| DATE   | TIME | ORGANISM                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | COUNT<br>(CELLS/ML)                                                                                  | PERCENT<br>OF TOTAL                                                               | SAMPLING<br>METHOD |
|--------|------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|--------------------|
| Apr 01 | 1200 | CHLOROPHYTA<br>..CHLOROPHYCEAE<br>..CHLOROCOCCALES<br>...OCCYSTACEAE<br>....ANKISTRODESMUS<br>....SELENASTRUM<br>CHRYSTOPHYTA<br>..BACILLARIOPHYCEAE<br>..PENNALES<br>...DIATOMACEAE<br>....DIATOMA<br>...FRAGILARIACEAE<br>....FRAGILARIA<br>....SYNEDRA<br>...MERIDIONACEAE<br>....MERIDION<br>...NITZSCHACEAE<br>....NITZSCHIA<br>...TABELLARIACEAE<br>....TABELLARIA<br>..CHRYSTOPHYCEAE<br>..CHRYSONOMADACEAE<br>...OCHROMONADACEAE<br>....DINOBRYON<br>CYANOPHYTA<br>..MYXOPHYCEAE<br>..OSCILLATORIALES<br>...OSCILLATORIA<br>....OSCILLATORIA<br>TOTAL                                                                                                                                                                                    | 33<br>16<br><br><br><br><br>310<br>150<br>33<br><br>33<br>16<br>16<br><br>82<br><br><br>2000<br>2700 | <br><br><br>1<br>1<br><br>12<br>6<br>1<br><br>1<br>1<br>1<br><br>3<br><br><br>74  | DEPTH INTEGRATED   |
| Apr 28 | 1130 | CHRYSTOPHYTA<br>..BACILLARIOPHYCEAE<br>..PENNALES<br>...EUNOTIACEAE<br>....EUNOTIA<br>...NITZSCHACEAE<br>....NITZSCHIA<br>PYRRHOPHYTA<br>..DINOPHYCEAE<br>..PERIDINIALES<br>...GLENODINIACEAE<br>....GLENODINIUM<br>...PERIDINIACEAE<br>....PERIDINIUM<br>TOTAL                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | 6<br>6<br><br><br><br><br>6<br>6<br><br><br>24                                                       | 25<br>25<br><br><br><br><br>25<br>25                                              | DEPTH INTEGRATED   |
| May 26 | 1030 | CHLOROPHYTA<br>..CHLOROPHYCEAE<br>..CHLOROCOCCALES<br>...OCCYSTACEAE<br>....OCCYSTIS<br>..TETRASPORALES<br>...COCCOMYXACEAE<br>....ELAKATOTHRIX<br>..VOLVOCALES<br>...CHLAMYDOMONADACEAE<br>....CHLAMYDOMONAS<br>CHRYSTOPHYTA<br>..BACILLARIOPHYCEAE<br>..CENTRALES<br>...COSCIINODISCACEAE<br>....CYCLOTELLA<br>..PENNALES<br>...ACHNANTHACEAE<br>....ACHNANTHES<br>...FRAGILARIACEAE<br>....ASTERIONELLA<br>....SYNEDRA<br>...GOMPHONEMACEAE<br>....GOMPHONEMA<br>...TABELLARIACEAE<br>....TABELLARIA<br>..CHRYSTOPHYCEAE<br>..CHRYSONOMADACEAE<br>...OCHROMONADACEAE<br>....DINOBRYON<br>CYANOPHYTA<br>..MYXOPHYCEAE<br>..CHROOCOCCALES<br>...CHROOCOCCACEAE<br>....ANACYSTIS<br>..OSCILLATORIALES<br>...OSCILLATORIA<br>....LYNGBYA<br>TOTAL | 35<br>17<br><br><br><br>9<br><br>35<br>9<br>26<br>26<br>9<br>9<br><br>17<br><br>70<br>710<br>970     | 4<br>2<br><br><br><br>1<br><br>4<br>1<br>3<br>3<br>1<br>1<br><br>2<br><br>7<br>73 | DEPTH INTEGRATED   |

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

## QUALITATIVE AND ASSOCIATED QUANTITATIVE ANALYSES OF BIOLOGICAL DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

## PHYTOPLANKTON

| DATE   | TIME | ORGANISM            | COUNT<br>(CELLS/ML) | PERCENT<br>OF TOTAL | SAMPLING<br>METHOD |
|--------|------|---------------------|---------------------|---------------------|--------------------|
| Jul 29 | 1000 | CHLOROPHYTA         |                     |                     | DEPTH INTEGRATED   |
|        |      | ..CHLOROPHYCEAE     |                     |                     |                    |
|        |      | ...CHLOROCOCCALES   |                     |                     |                    |
|        |      | ....MICRACTINIACEAE |                     |                     |                    |
|        |      | .....GOLINKINIA     | 16                  | 1                   |                    |
|        |      | ....OCCYSTACEAE     |                     |                     |                    |
|        |      | ....ANKISTRODESMUS  | 16                  | 1                   |                    |
|        |      | ....SCENEDESMACEAE  |                     |                     |                    |
|        |      | ....CRUCIGENIA      | 66                  | 4                   |                    |
|        |      | CHRYSOPHYTA         |                     |                     |                    |
|        |      | ..BACILLARIOPHYCEAE |                     |                     |                    |
|        |      | ...CENTRALES        |                     |                     |                    |
|        |      | ...COSCINODISCACEAE |                     |                     |                    |
|        |      | ....CYCLOTILLA      | 16                  | 1                   |                    |
|        |      | ..PENNALES          |                     |                     |                    |
|        |      | ....NITZSCHIAEAE    |                     |                     |                    |
|        |      | ....NITZSCHIA       | 66                  | 4                   |                    |
|        |      | ..CHRYSOPHYCEAE     |                     |                     |                    |
|        |      | ..CHRYSOMONADALES   |                     |                     |                    |
|        |      | ...OCHROMONADACEAE  |                     |                     |                    |
|        |      | ....DINOBRYON       | 16                  | 1                   |                    |
|        |      | CYANOPHYTA          |                     |                     |                    |
|        |      | ..MYXOPHYCEAE       |                     |                     |                    |
|        |      | ..CHROOCOCCALES     |                     |                     |                    |
|        |      | ...CHROOCOCCACEAE   |                     |                     |                    |
|        |      | ....ANACYSTIS       | 200                 | 11                  |                    |
|        |      | ..OSCILLATORIALES   |                     |                     |                    |
|        |      | ...OSCILLATORIAEAE  |                     |                     |                    |
|        |      | ....OSCILLATORIA    | 1400                | 78                  |                    |
|        |      | TOTAL               | 1800                |                     |                    |
| Aug 30 | 1130 | CHLOROPHYTA         |                     |                     | DEPTH INTEGRATED   |
|        |      | ..CHLOROPHYCEAE     |                     |                     |                    |
|        |      | ...CHLOROCOCCALES   |                     |                     |                    |
|        |      | ...HYDRODICTYACEAE  |                     |                     |                    |
|        |      | ....PEDIASTRUM      | 16                  | 2                   |                    |
|        |      | ....OCCYSTACEAE     |                     |                     |                    |
|        |      | ....ANKISTRODESMUS  | 20                  | 2                   |                    |
|        |      | ....SCENEDESMACEAE  |                     |                     |                    |
|        |      | ....SCENEDESMUS     | 16                  | 2                   |                    |
|        |      | CHRYSOPHYTA         |                     |                     |                    |
|        |      | ..BACILLARIOPHYCEAE |                     |                     |                    |
|        |      | ...CENTRALES        |                     |                     |                    |
|        |      | ...COSCINODISCACEAE |                     |                     |                    |
|        |      | ....CYCLOTILLA      | 16                  | 2                   |                    |
|        |      | ..PENNALES          |                     |                     |                    |
|        |      | ...FRAGILARIACEAE   |                     |                     |                    |
|        |      | ....SYNEDRA         | 8                   | 1                   |                    |
|        |      | ....NITZSCHIAEAE    |                     |                     |                    |
|        |      | ....NITZSCHIA       | 8                   | 1                   |                    |
|        |      | ..CHRYSOPHYCEAE     |                     |                     |                    |
|        |      | ..CHRYSOMONADALES   |                     |                     |                    |
|        |      | ...OCHROMONADACEAE  |                     |                     |                    |
|        |      | ....DINOBRYON       |                     | 0                   |                    |
|        |      | CYANOPHYTA          |                     |                     |                    |
|        |      | ..MYXOPHYCEAE       |                     |                     |                    |
|        |      | ..CHROOCOCCALES     |                     |                     |                    |
|        |      | ...CHROOCOCCACEAE   |                     |                     |                    |
|        |      | ....AGMENELLUM      | 150                 | 18                  |                    |
|        |      | ..OSCILLATORIALES   |                     |                     |                    |
|        |      | ...OSCILLATORIAEAE  |                     |                     |                    |
|        |      | ....OSCILLATORIA    | 620                 | 72                  |                    |
|        |      | TOTAL               | 860                 |                     |                    |

## QUALITATIVE AND ASSOCIATED QUANTITATIVE ANALYSES OF BIOLOGICAL DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

## PHYTOPLANKTON

| DATE   | TIME | ORGANISM            | COUNT<br>(CELLS/ML) | PERCENT<br>OF TOTAL | SAMPLING<br>METHOD |
|--------|------|---------------------|---------------------|---------------------|--------------------|
| Sep 23 | 1330 | CHLOROPHYTA         |                     |                     | DEPTH INTEGRATED   |
|        |      | ..CHLOROPHYCEAE     |                     |                     |                    |
|        |      | ...CHLOROCOCCALES   |                     |                     |                    |
|        |      | ...SCENEDESMACEAE   |                     |                     |                    |
|        |      | ....CRUCIGENIA      | 85                  | 4                   |                    |
|        |      | CHRYSTOPHYTA        |                     |                     |                    |
|        |      | ..BACILLARIOPHYCEAE |                     |                     |                    |
|        |      | ..CENTRALES         |                     |                     |                    |
|        |      | ...COSCINODISCAEAE  |                     |                     |                    |
|        |      | ....CYCLOTELLA      | 14                  | 1                   |                    |
|        |      | ..PENNALES          |                     |                     |                    |
|        |      | ...FRAGILARIACEAE   |                     |                     |                    |
|        |      | ....ASTERIONELLA    | 43                  | 2                   |                    |
|        |      | CYANOPHYTA          |                     |                     |                    |
|        |      | ..MYXOPHYCEAE       |                     |                     |                    |
|        |      | ..OSCILLATORIALES   |                     |                     |                    |
|        |      | ...NOSTOCACEAE      |                     |                     |                    |
|        |      | ....ANABAENA        | 85                  | 4                   |                    |
|        |      | ...OSCILLATORIAEAE  |                     |                     |                    |
|        |      | ....OSCILLATORIA    | 2100                | 88                  |                    |
|        |      | EUGLENOPHYTA        |                     |                     |                    |
|        |      | ..EUGLENOPHYCEAE    |                     |                     |                    |
|        |      | ..EUGLENALES        |                     |                     |                    |
|        |      | ...EUGLENACEAE      |                     |                     |                    |
|        |      | ....TRACHELOMONAS   | 43                  | 2                   |                    |
|        |      | PYRRHOPHYTA         |                     |                     |                    |
|        |      | ..DINOPHYCEAE       |                     |                     |                    |
|        |      | ..PERIDINIALES      |                     |                     |                    |
|        |      | ...PERIDINIAEAE     |                     |                     |                    |
|        |      | ....PERIDINIUM      | 14                  | 1                   |                    |
|        |      | TOTAL               | 2400                |                     |                    |

## QUALITATIVE AND QUANTITATIVE ANALYSES OF BIOLOGICAL DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

## PERIPHYTON

| DATE   | LENGTH OF<br>EXPOSURE<br>(DAYS) | BIOMASS(G/SQ M) |            | CHLOROPHYLL<br>A | CHLOROPHYLL<br>B | BIOMASS<br>PIGMENT<br>RATIO | SAMPLING<br>METHOD   |
|--------|---------------------------------|-----------------|------------|------------------|------------------|-----------------------------|----------------------|
|        |                                 | DRY WEIGHT      | ASH WEIGHT | (MG/SQ M)        | (MG/SQ M)        |                             |                      |
| AUG 30 | 32                              | 4.4             | 2.4        | 1.0              | 0.2              | 2000                        | ARTIFICIAL SUBSTRATE |
| SEP 23 | 24                              | 3.5             | 0.7        | 1.3              | 0.4              | 2100                        | ARTIFICIAL SUBSTRATE |

SPECIFIC CONDUCTANCE (MICROMHOS/CM AT 25 DEG. C), WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

| OCTOBER |     |     |      | NOVEMBER |     |      | DECEMBER |     |      | JANUARY |     |      |
|---------|-----|-----|------|----------|-----|------|----------|-----|------|---------|-----|------|
| DAY     | MAX | MIN | MEAN | MAX      | MIN | MEAN | MAX      | MIN | MEAN | MAX     | MIN | MEAN |
| 1       | 107 | 93  | 99   | 109      | 99  | 105  | 102      | 94  | 99   | 89      | 77  | 83   |
| 2       | 101 | 94  | 98   | 99       | 92  | 95   | 92       | 78  | 86   | 99      | 76  | 81   |
| 3       | 97  | 90  | 93   | 115      | 98  | 108  | 90       | 77  | 82   | 104     | 85  | 90   |
| 4       | 89  | 78  | 83   | 107      | 99  | 102  | ---      | --- | ---  | 84      | 73  | 81   |
| 5       | 103 | 82  | 93   | 100      | 85  | 92   | ---      | --- | ---  | 83      | 77  | 81   |
| 6       | 99  | 74  | 85   | 98       | 81  | 90   | ---      | --- | ---  | ---     | --- | ---  |
| 7       | 83  | 77  | 80   | 116      | 90  | 98   | ---      | --- | ---  | ---     | --- | ---  |
| 8       | 84  | 76  | 80   | 116      | 100 | 106  | ---      | --- | ---  | ---     | --- | ---  |
| 9       | 83  | 72  | 77   | 115      | 98  | 105  | ---      | --- | ---  | ---     | --- | ---  |
| 10      | 81  | 75  | 77   | 110      | 96  | 101  | ---      | --- | ---  | ---     | --- | ---  |
| 11      | 85  | 81  | 83   | 103      | 91  | 97   | ---      | --- | ---  | ---     | --- | ---  |
| 12      | 82  | 81  | 81   | 110      | 87  | 98   | ---      | --- | ---  | ---     | --- | ---  |
| 13      | 91  | 82  | 86   | 88       | 81  | 83   | ---      | --- | ---  | ---     | --- | ---  |
| 14      | 100 | 90  | 96   | 93       | 87  | 90   | ---      | --- | ---  | ---     | --- | ---  |
| 15      | 105 | 96  | 99   | 87       | 76  | 81   | ---      | --- | ---  | ---     | --- | ---  |
| 16      | 105 | 92  | 103  | 79       | 63  | 73   | ---      | --- | ---  | 176     | 78  | 121  |
| 17      | 101 | 90  | 96   | 69       | 58  | 63   | ---      | --- | ---  | 91      | 78  | 84   |
| 18      | 103 | 92  | 97   | 68       | 54  | 58   | ---      | --- | ---  | 100     | 87  | 91   |
| 19      | 89  | 83  | 87   | 67       | 52  | 58   | ---      | --- | ---  | 101     | 91  | 96   |
| 20      | 81  | 74  | 78   | 71       | 61  | 65   | ---      | --- | ---  | 90      | 77  | 82   |
| 21      | 102 | 78  | 95   | 102      | 72  | 89   | ---      | --- | ---  | 93      | 82  | 88   |
| 22      | 95  | 84  | 88   | 103      | 94  | 100  | ---      | --- | ---  | 91      | 81  | 86   |
| 23      | 93  | 77  | 84   | 89       | 80  | 82   | ---      | --- | ---  | 95      | 82  | 90   |
| 24      | 99  | 90  | 94   | 106      | 84  | 90   | ---      | --- | ---  | 96      | 81  | 91   |
| 25      | 108 | 99  | 105  | 109      | 81  | 96   | ---      | --- | ---  | 99      | 93  | 96   |
| 26      | 102 | 76  | 88   | 103      | 88  | 94   | ---      | --- | ---  | 96      | 93  | 95   |
| 27      | 102 | 90  | 97   | 99       | 95  | 97   | ---      | --- | ---  | 95      | 71  | 83   |
| 28      | 112 | 80  | 93   | 101      | 94  | 97   | ---      | --- | ---  | 99      | 81  | 89   |
| 29      | 109 | 84  | 92   | 100      | 95  | 99   | ---      | --- | ---  | ---     | --- | ---  |
| 30      | 116 | 93  | 106  | 100      | 93  | 97   | ---      | --- | ---  | ---     | --- | ---  |
| 31      | 102 | 90  | 95   | ---      | --- | ---  | ---      | --- | ---  | ---     | --- | ---  |
| MONTH   | 116 | 72  | 91   | 116      | 52  | 90   | ---      | --- | ---  | ---     | --- | ---  |

| JUNE  |     |     | JULY |     |     | AUGUST |     |     | SEPTEMBER |     |     |      |
|-------|-----|-----|------|-----|-----|--------|-----|-----|-----------|-----|-----|------|
| DAY   | MAX | MIN | MEAN | MAX | MIN | MEAN   | MAX | MIN | MEAN      | MAX | MIN | MEAN |
| 1     | --- | --- | ---  | --- | --- | ---    | 87  | 75  | 82        | 100 | 92  | 96   |
| 2     | --- | --- | ---  | --- | --- | ---    | 89  | 69  | 79        | --- | --- | ---  |
| 3     | --- | --- | ---  | --- | --- | ---    | 83  | 73  | 79        | --- | --- | ---  |
| 4     | --- | --- | ---  | --- | --- | ---    | 79  | 70  | 75        | --- | --- | ---  |
| 5     | --- | --- | ---  | --- | --- | ---    | 110 | 73  | 91        | --- | --- | ---  |
| 6     | --- | --- | ---  | --- | --- | ---    | 110 | 105 | 107       | --- | --- | ---  |
| 7     | --- | --- | ---  | --- | --- | ---    | 113 | 105 | 109       | --- | --- | ---  |
| 8     | --- | --- | ---  | --- | --- | ---    | 111 | 104 | 107       | --- | --- | ---  |
| 9     | --- | --- | ---  | --- | --- | ---    | 113 | 102 | 107       | --- | --- | ---  |
| 10    | --- | --- | ---  | --- | --- | ---    | 109 | 89  | 99        | --- | --- | ---  |
| 11    | --- | --- | ---  | --- | --- | ---    | 90  | 79  | 82        | --- | --- | ---  |
| 12    | --- | --- | ---  | --- | --- | ---    | 101 | 88  | 97        | --- | --- | ---  |
| 13    | --- | --- | ---  | --- | --- | ---    | 103 | 86  | 96        | --- | --- | ---  |
| 14    | --- | --- | ---  | 77  | 72  | 75     | 109 | 99  | 105       | --- | --- | ---  |
| 15    | --- | --- | ---  | 72  | 63  | 68     | 112 | 104 | 108       | --- | --- | ---  |
| 16    | --- | --- | ---  | 82  | 69  | 75     | 111 | 104 | 108       | --- | --- | ---  |
| 17    | --- | --- | ---  | 90  | 75  | 83     | 123 | 104 | 112       | --- | --- | ---  |
| 18    | 90  | 75  | 80   | 75  | 69  | 71     | 122 | 97  | 107       | --- | --- | ---  |
| 19    | 109 | 88  | 101  | 76  | 66  | 70     | 98  | 86  | 91        | --- | --- | ---  |
| 20    | 91  | 80  | 82   | 90  | 71  | 80     | 100 | 86  | 93        | --- | --- | ---  |
| 21    | 79  | 68  | 74   | 115 | 90  | 104    | 105 | 83  | 95        | --- | --- | ---  |
| 22    | 109 | 66  | 90   | 117 | 95  | 111    | 115 | 105 | 111       | --- | --- | ---  |
| 23    | 106 | 81  | 88   | 124 | 94  | 111    | 116 | 109 | 112       | --- | --- | ---  |
| 24    | --- | --- | ---  | 136 | 115 | 126    | 116 | 99  | 105       | 75  | 53  | 63   |
| 25    | --- | --- | ---  | 128 | 107 | 117    | 136 | 100 | 112       | 74  | 64  | 72   |
| 26    | --- | --- | ---  | 121 | 90  | 104    | 111 | 98  | 106       | 79  | 71  | 75   |
| 27    | --- | --- | ---  | 101 | 64  | 80     | 112 | 91  | 99        | 79  | 73  | 75   |
| 28    | --- | --- | ---  | 91  | 64  | 78     | 121 | 103 | 109       | 79  | 70  | 73   |
| 29    | --- | --- | ---  | 82  | 63  | 67     | 103 | 97  | 100       | 87  | 77  | 84   |
| 30    | --- | --- | ---  | 69  | 64  | 67     | 105 | 89  | 101       | 91  | 84  | 89   |
| 31    | --- | --- | ---  | 81  | 65  | 75     | 110 | 97  | 102       | --- | --- | ---  |
| MONTH | --- | --- | ---  | --- | --- | ---    | 136 | 69  | 100       | --- | --- | ---  |

|        |     |    |    |
|--------|-----|----|----|
| PERIOD | 176 | 52 | 91 |
|--------|-----|----|----|

PH (UNITS), WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

| OCTOBER |     |     |      | NOVEMBER |     |      | DECEMBER |     |      | JANUARY   |     |      |
|---------|-----|-----|------|----------|-----|------|----------|-----|------|-----------|-----|------|
| DAY     | MAX | MIN | MEAN | MAX      | MIN | MEAN | MAX      | MIN | MEAN | MAX       | MIN | MEAN |
| 1       | --- | --- | ---  | 6.3      | 6.0 | 6.2  | ---      | --- | ---  | ---       | --- | ---  |
| 2       | --- | --- | ---  | 6.4      | 6.1 | 6.3  | ---      | --- | ---  | ---       | --- | ---  |
| 3       | --- | --- | ---  | 6.4      | 6.1 | 6.2  | ---      | --- | ---  | ---       | --- | ---  |
| 4       | --- | --- | ---  | 6.7      | 6.0 | 6.3  | ---      | --- | ---  | ---       | --- | ---  |
| 5       | --- | --- | ---  | 6.6      | 6.1 | 6.3  | ---      | --- | ---  | ---       | --- | ---  |
| 6       | --- | --- | ---  | 6.7      | 6.0 | 6.4  | ---      | --- | ---  | ---       | --- | ---  |
| 7       | --- | --- | ---  | 6.7      | 5.9 | 6.2  | ---      | --- | ---  | ---       | --- | ---  |
| 8       | --- | --- | ---  | 6.1      | 6.0 | 6.1  | ---      | --- | ---  | ---       | --- | ---  |
| 9       | --- | --- | ---  | 6.2      | 6.1 | 6.1  | ---      | --- | ---  | ---       | --- | ---  |
| 10      | --- | --- | ---  | 6.2      | 6.0 | 6.1  | ---      | --- | ---  | ---       | --- | ---  |
| 11      | --- | --- | ---  | 6.7      | 6.1 | 6.3  | ---      | --- | ---  | ---       | --- | ---  |
| 12      | --- | --- | ---  | 6.7      | 6.0 | 6.2  | ---      | --- | ---  | ---       | --- | ---  |
| 13      | --- | --- | ---  | 6.3      | 6.1 | 6.2  | ---      | --- | ---  | ---       | --- | ---  |
| 14      | --- | --- | ---  | 6.8      | 6.2 | 6.4  | ---      | --- | ---  | ---       | --- | ---  |
| 15      | --- | --- | ---  | 6.7      | 6.3 | 6.4  | ---      | --- | ---  | 6.8       | 6.6 | 6.7  |
| 16      | --- | --- | ---  | 6.3      | 6.2 | 6.3  | ---      | --- | ---  | 6.8       | 6.3 | 6.6  |
| 17      | --- | --- | ---  | 8.1      | 6.3 | 6.6  | ---      | --- | ---  | 7.3       | 6.8 | 7.1  |
| 18      | --- | --- | ---  | 7.2      | 6.4 | 6.5  | ---      | --- | ---  | 7.6       | 6.4 | 6.9  |
| 19      | --- | --- | ---  | 8.8      | 5.7 | 6.4  | ---      | --- | ---  | 7.8       | 6.8 | 7.4  |
| 20      | --- | --- | ---  | ---      | --- | ---  | ---      | --- | ---  | 8.3       | 7.8 | 8.1  |
| 21      | --- | --- | ---  | ---      | --- | ---  | ---      | --- | ---  | 8.0       | 7.8 | 7.9  |
| 22      | --- | --- | ---  | ---      | --- | ---  | ---      | --- | ---  | 7.7       | 6.9 | 7.3  |
| 23      | --- | --- | ---  | ---      | --- | ---  | ---      | --- | ---  | 6.8       | 6.5 | 6.7  |
| 24      | --- | --- | ---  | ---      | --- | ---  | ---      | --- | ---  | 6.9       | 6.3 | 6.6  |
| 25      | --- | --- | ---  | ---      | --- | ---  | ---      | --- | ---  | 6.6       | 6.2 | 6.4  |
| 26      | --- | --- | ---  | ---      | --- | ---  | ---      | --- | ---  | 6.9       | 6.3 | 6.4  |
| 27      | --- | --- | ---  | ---      | --- | ---  | ---      | --- | ---  | 6.7       | 6.3 | 6.4  |
| 28      | --- | --- | ---  | ---      | --- | ---  | ---      | --- | ---  | 7.7       | 6.4 | 7.2  |
| 29      | --- | --- | ---  | ---      | --- | ---  | ---      | --- | ---  | ---       | --- | ---  |
| 30      | 7.4 | 6.0 | 7.1  | ---      | --- | ---  | ---      | --- | ---  | ---       | --- | ---  |
| 31      | 6.5 | 6.0 | 6.3  | ---      | --- | ---  | 6.6      | 5.4 | 5.8  | ---       | --- | ---  |
| MONTH   | --- | --- | ---  | ---      | --- | ---  | ---      | --- | ---  | ---       | --- | ---  |
|         |     |     |      |          |     |      |          |     |      |           |     |      |
| JUNE    |     |     |      | JULY     |     |      | AUGUST   |     |      | SEPTEMBER |     |      |
| DAY     | MAX | MIN | MEAN | MAX      | MIN | MEAN | MAX      | MIN | MEAN | MAX       | MIN | MEAN |
| 1       | --- | --- | ---  | ---      | --- | ---  | 6.8      | 6.7 | 6.8  | 6.9       | 6.8 | 6.8  |
| 2       | --- | --- | ---  | ---      | --- | ---  | 6.9      | 6.6 | 6.7  | ---       | --- | ---  |
| 3       | --- | --- | ---  | ---      | --- | ---  | 6.8      | 6.7 | 6.8  | ---       | --- | ---  |
| 4       | --- | --- | ---  | ---      | --- | ---  | 6.7      | 6.6 | 6.7  | ---       | --- | ---  |
| 5       | --- | --- | ---  | ---      | --- | ---  | 6.8      | 6.5 | 6.6  | ---       | --- | ---  |
| 6       | --- | --- | ---  | ---      | --- | ---  | 6.8      | 6.6 | 6.7  | ---       | --- | ---  |
| 7       | --- | --- | ---  | ---      | --- | ---  | 6.7      | 6.6 | 6.7  | ---       | --- | ---  |
| 8       | --- | --- | ---  | ---      | --- | ---  | 6.8      | 6.7 | 6.8  | ---       | --- | ---  |
| 9       | --- | --- | ---  | ---      | --- | ---  | 6.9      | 6.8 | 6.8  | ---       | --- | ---  |
| 10      | --- | --- | ---  | ---      | --- | ---  | 6.9      | 6.7 | 6.8  | ---       | --- | ---  |
| 11      | --- | --- | ---  | ---      | --- | ---  | 7.0      | 6.7 | 6.9  | ---       | --- | ---  |
| 12      | --- | --- | ---  | ---      | --- | ---  | 6.8      | 6.7 | 6.8  | ---       | --- | ---  |
| 13      | --- | --- | ---  | ---      | --- | ---  | 6.8      | 6.7 | 6.7  | ---       | --- | ---  |
| 14      | --- | --- | ---  | 6.5      | 6.4 | 6.4  | 6.9      | 6.7 | 6.8  | ---       | --- | ---  |
| 15      | --- | --- | ---  | 6.6      | 6.4 | 6.5  | 7.0      | 6.8 | 6.9  | ---       | --- | ---  |
| 16      | --- | --- | ---  | 6.7      | 6.6 | 6.6  | 7.0      | 6.8 | 6.9  | ---       | --- | ---  |
| 17      | --- | --- | ---  | 6.8      | 6.7 | 6.8  | 6.9      | 6.7 | 6.8  | ---       | --- | ---  |
| 18      | --- | --- | ---  | 6.7      | 6.5 | 6.6  | 6.9      | 6.7 | 6.8  | ---       | --- | ---  |
| 19      | --- | --- | ---  | 6.5      | 6.4 | 6.4  | 6.8      | 6.7 | 6.8  | ---       | --- | ---  |
| 20      | --- | --- | ---  | 6.5      | 6.4 | 6.4  | 7.0      | 6.8 | 6.9  | ---       | --- | ---  |
| 21      | --- | --- | ---  | 6.8      | 6.5 | 6.7  | 6.8      | 6.6 | 6.8  | ---       | --- | ---  |
| 22      | --- | --- | ---  | 6.7      | 6.6 | 6.6  | 6.8      | 6.6 | 6.7  | ---       | --- | ---  |
| 23      | --- | --- | ---  | 6.8      | 6.6 | 6.7  | 6.8      | 6.6 | 6.6  | 6.5       | 6.4 | 6.5  |
| 24      | --- | --- | ---  | 6.8      | 6.8 | 6.8  | 7.2      | 6.8 | 6.9  | 6.6       | 6.5 | 6.5  |
| 25      | --- | --- | ---  | 6.8      | 6.6 | 6.7  | 8.7      | 6.9 | 7.7  | 6.7       | 6.5 | 6.6  |
| 26      | --- | --- | ---  | 6.7      | 6.6 | 6.6  | 7.4      | 6.8 | 7.1  | 6.9       | 6.6 | 6.8  |
| 27      | --- | --- | ---  | 6.8      | 6.7 | 6.7  | 7.1      | 6.6 | 6.8  | 6.9       | 6.7 | 6.8  |
| 28      | --- | --- | ---  | 7.2      | 6.7 | 6.9  | 8.1      | 6.9 | 7.3  | 7.0       | 6.9 | 7.0  |
| 29      | --- | --- | ---  | 7.0      | 6.6 | 6.7  | 7.0      | 6.6 | 6.7  | 7.1       | 6.9 | 7.0  |
| 30      | --- | --- | ---  | 7.0      | 6.6 | 6.7  | 6.7      | 6.5 | 6.6  | 7.1       | 6.6 | 6.8  |
| 31      | --- | --- | ---  | 6.8      | 6.7 | 6.7  | 7.0      | 6.7 | 6.7  | ---       | --- | ---  |
| MONTH   | --- | --- | ---  | ---      | --- | ---  | 8.7      | 6.5 | 6.8  | ---       | --- | ---  |
| PERIOD  | 8.8 | 5.7 | 6.7  |          |     |      |          |     |      |           |     |      |



TEMPERATURE (DEG. C) OF WATER, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

[illegible]

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

DISSOLVED OXYGEN (DO), MG/L, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

| OCTOBER |      |     |      | NOVEMBER |      |      | DECEMBER |     |      | JANUARY   |      |      |
|---------|------|-----|------|----------|------|------|----------|-----|------|-----------|------|------|
| DAY     | MAX  | MIN | MEAN | MAX      | MIN  | MEAN | MAX      | MIN | MEAN | MAX       | MIN  | MEAN |
| 1       | 5.0  | 4.5 | 4.7  | 9.6      | 9.3  | 9.4  | ---      | --- | ---  | 12.7      | 12.0 | 12.5 |
| 2       | 4.8  | 4.2 | 4.5  | 9.3      | 8.7  | 8.9  | ---      | --- | ---  | 13.4      | 12.7 | 13.1 |
| 3       | 6.0  | 4.6 | 5.2  | 8.9      | 8.5  | 8.7  | ---      | --- | ---  | 13.2      | 12.4 | 12.9 |
| 4       | 6.3  | 5.7 | 6.0  | 8.6      | 8.3  | 8.4  | ---      | --- | ---  | ---       | ---  | ---  |
| 5       | 6.4  | 5.9 | 6.1  | 9.5      | 8.3  | 9.0  | ---      | --- | ---  | ---       | ---  | ---  |
| 6       | 6.8  | 6.0 | 6.4  | 9.9      | 9.6  | 9.8  | ---      | --- | ---  | ---       | ---  | ---  |
| 7       | 8.0  | 5.9 | 7.1  | 9.9      | 8.7  | 9.4  | ---      | --- | ---  | ---       | ---  | ---  |
| 8       | 8.0  | 7.5 | 7.7  | 8.8      | 8.4  | 8.7  | ---      | --- | ---  | ---       | ---  | ---  |
| 9       | 8.5  | 7.9 | 8.2  | 8.9      | 8.5  | 8.7  | ---      | --- | ---  | ---       | ---  | ---  |
| 10      | 8.5  | 8.1 | 8.3  | 9.6      | 8.9  | 9.3  | ---      | --- | ---  | ---       | ---  | ---  |
| 11      | 8.2  | 7.9 | 8.0  | 9.8      | 9.1  | 9.4  | ---      | --- | ---  | ---       | ---  | ---  |
| 12      | 8.3  | 7.8 | 8.1  | 10.1     | 9.6  | 9.8  | ---      | --- | ---  | ---       | ---  | ---  |
| 13      | 8.3  | 8.1 | 8.2  | 10.0     | 9.5  | 9.8  | ---      | --- | ---  | ---       | ---  | ---  |
| 14      | 8.1  | 7.2 | 7.6  | 9.5      | 9.1  | 9.3  | ---      | --- | ---  | ---       | ---  | ---  |
| 15      | 7.7  | 7.4 | 7.5  | 10.8     | 9.3  | 10.1 | ---      | --- | ---  | ---       | ---  | ---  |
| 16      | 7.5  | 6.2 | 7.3  | ---      | ---  | ---  | ---      | --- | ---  | 13.6      | 12.0 | 12.8 |
| 17      | 7.1  | 6.7 | 6.9  | ---      | ---  | ---  | ---      | --- | ---  | 13.5      | 12.8 | 13.2 |
| 18      | 7.9  | 6.9 | 7.3  | ---      | ---  | ---  | ---      | --- | ---  | ---       | ---  | ---  |
| 19      | 8.4  | 7.8 | 8.1  | ---      | ---  | ---  | ---      | --- | ---  | 10.4      | 10.1 | 10.2 |
| 20      | 9.2  | 8.4 | 8.9  | 13.0     | 11.8 | 12.6 | ---      | --- | ---  | 10.6      | 10.4 | 10.5 |
| 21      | 9.1  | 7.9 | 8.3  | 13.6     | 13.0 | 13.3 | ---      | --- | ---  | 10.8      | 10.5 | 10.6 |
| 22      | 7.8  | 7.4 | 7.6  | 13.3     | 12.1 | 12.6 | ---      | --- | ---  | 11.4      | 10.6 | 11.0 |
| 23      | 7.7  | 7.5 | 7.6  | 14.7     | 13.5 | 14.0 | ---      | --- | ---  | 11.6      | 11.2 | 11.4 |
| 24      | 7.8  | 7.4 | 7.5  | ---      | ---  | ---  | ---      | --- | ---  | 11.7      | 11.4 | 11.5 |
| 25      | ---  | --- | ---  | ---      | ---  | ---  | ---      | --- | ---  | 11.7      | 11.4 | 11.6 |
| 26      | ---  | --- | ---  | ---      | ---  | ---  | ---      | --- | ---  | 11.5      | 11.3 | 11.4 |
| 27      | ---  | --- | ---  | ---      | ---  | ---  | ---      | --- | ---  | 11.3      | 9.5  | 10.4 |
| 28      | ---  | --- | ---  | ---      | ---  | ---  | ---      | --- | ---  | 10.9      | 10.1 | 10.6 |
| 29      | ---  | --- | ---  | ---      | ---  | ---  | ---      | --- | ---  | ---       | ---  | ---  |
| 30      | ---  | --- | ---  | ---      | ---  | ---  | ---      | --- | ---  | ---       | ---  | ---  |
| 31      | 9.4  | 8.6 | 9.1  | ---      | ---  | ---  | ---      | --- | ---  | ---       | ---  | ---  |
| MONTH   | 9.4  | 4.2 | 7.3  | ---      | ---  | ---  | ---      | --- | ---  | ---       | ---  | ---  |
|         |      |     |      |          |      |      |          |     |      |           |      |      |
| JUNE    |      |     |      | JULY     |      |      | AUGUST   |     |      | SEPTEMBER |      |      |
| DAY     | MAX  | MIN | MEAN | MAX      | MIN  | MEAN | MAX      | MIN | MEAN | MAX       | MIN  | MEAN |
| 1       | ---  | --- | ---  | ---      | ---  | ---  | 3.7      | 3.3 | 3.5  | 4.9       | 4.4  | 4.7  |
| 2       | ---  | --- | ---  | ---      | ---  | ---  | 3.7      | 3.3 | 3.5  | ---       | ---  | ---  |
| 3       | ---  | --- | ---  | ---      | ---  | ---  | 4.1      | 3.1 | 3.5  | ---       | ---  | ---  |
| 4       | ---  | --- | ---  | ---      | ---  | ---  | 4.2      | 3.6 | 3.8  | ---       | ---  | ---  |
| 5       | ---  | --- | ---  | ---      | ---  | ---  | 3.8      | 2.9 | 3.3  | ---       | ---  | ---  |
| 6       | ---  | --- | ---  | ---      | ---  | ---  | 3.2      | 2.8 | 2.9  | ---       | ---  | ---  |
| 7       | ---  | --- | ---  | ---      | ---  | ---  | 3.2      | 2.8 | 3.0  | ---       | ---  | ---  |
| 8       | ---  | --- | ---  | ---      | ---  | ---  | 3.3      | 3.1 | 3.2  | ---       | ---  | ---  |
| 9       | ---  | --- | ---  | ---      | ---  | ---  | 3.4      | 3.2 | 3.3  | ---       | ---  | ---  |
| 10      | ---  | --- | ---  | ---      | ---  | ---  | 4.1      | 3.3 | 3.6  | ---       | ---  | ---  |
| 11      | ---  | --- | ---  | ---      | ---  | ---  | 4.6      | 3.6 | 4.2  | ---       | ---  | ---  |
| 12      | ---  | --- | ---  | ---      | ---  | ---  | 3.8      | 3.4 | 3.6  | ---       | ---  | ---  |
| 13      | ---  | --- | ---  | ---      | ---  | ---  | 4.0      | 3.4 | 3.7  | ---       | ---  | ---  |
| 14      | ---  | --- | ---  | 5.0      | 4.7  | 4.8  | 3.4      | 2.9 | 3.2  | ---       | ---  | ---  |
| 15      | ---  | --- | ---  | 5.2      | 4.9  | 5.0  | 3.6      | 3.2 | 3.4  | ---       | ---  | ---  |
| 16      | ---  | --- | ---  | 4.9      | 4.6  | 4.7  | 3.5      | 3.3 | 3.4  | ---       | ---  | ---  |
| 17      | ---  | --- | ---  | 5.6      | 4.4  | 5.1  | 3.4      | 1.6 | 2.9  | ---       | ---  | ---  |
| 18      | 5.1  | 4.3 | 4.7  | 5.8      | 5.5  | 5.6  | 3.4      | 2.6 | 3.0  | ---       | ---  | ---  |
| 19      | 4.5  | 4.3 | 4.5  | 5.8      | 5.2  | 5.4  | 3.5      | 3.2 | 3.3  | ---       | ---  | ---  |
| 20      | 4.6  | 4.4 | 4.5  | 5.3      | 4.1  | 4.6  | 3.4      | 3.0 | 3.3  | ---       | ---  | ---  |
| 21      | 4.6  | 4.2 | 4.4  | 4.0      | 2.7  | 3.1  | 3.5      | 3.0 | 3.3  | ---       | ---  | ---  |
| 22      | 4.1  | 3.2 | 3.7  | 3.7      | 2.7  | 2.8  | 3.1      | 2.3 | 2.7  | ---       | ---  | ---  |
| 23      | 3.8  | 3.4 | 3.7  | 3.6      | 2.6  | 3.0  | 2.4      | 2.2 | 2.3  | ---       | ---  | ---  |
| 24      | ---  | --- | ---  | 3.7      | 2.4  | 3.1  | 2.8      | 2.3 | 2.6  | 8.7       | 8.1  | 8.5  |
| 25      | ---  | --- | ---  | 4.0      | 3.3  | 3.6  | 2.8      | 2.1 | 2.3  | 9.0       | 8.3  | 8.6  |
| 26      | ---  | --- | ---  | 4.7      | 3.7  | 4.3  | 2.8      | 2.4 | 2.5  | 9.1       | 8.4  | 8.7  |
| 27      | ---  | --- | ---  | 5.6      | 4.5  | 5.2  | 3.1      | 2.8 | 3.0  | 9.1       | 8.6  | 8.9  |
| 28      | ---  | --- | ---  | 5.5      | 4.7  | 5.1  | 3.5      | 3.0 | 3.2  | 9.3       | 8.9  | 9.1  |
| 29      | ---  | --- | ---  | 5.3      | 5.1  | 5.2  | 3.7      | 3.3 | 3.5  | 9.7       | 9.2  | 9.4  |
| 30      | ---  | --- | ---  | 5.2      | 4.7  | 5.0  | 3.8      | 3.3 | 3.9  | 11.8      | 9.4  | 10.3 |
| 31      | ---  | --- | ---  | 4.8      | 3.6  | 4.0  | 4.7      | 4.5 | 4.6  | ---       | ---  | ---  |
| MONTH   | ---  | --- | ---  | ---      | ---  | ---  | 4.7      | 1.6 | 3.3  | ---       | ---  | ---  |
| PERIOD  | 14.7 | 1.6 | 6.7  |          |      |      |          |     |      |           |      |      |

## 01021200 DENNYS RIVER AT DENNYSVILLE, ME

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

DRAINAGE AREA.--92.4 mi<sup>2</sup> (239.3 km<sup>2</sup>).

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 good. Flow slightly regulated by dam at outlet of Meddybemps Lake 14 mi (22 km) upstream.

AVERAGE DISCHARGE.--21 years, 190 ft<sup>3</sup>/s (5.38 m<sup>3</sup>/s), 27.92 in/yr (709 mm/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 3,930 ft<sup>3</sup>/s (111 m<sup>3</sup>/s) Apr. 29, 1973, gage height, 9.35 ft (2.850 m); minimum, 8.4 ft<sup>3</sup>/s (0.24 m<sup>3</sup>/s) Oct. 1, 1957, gage height, 0.28 ft (0.085 m).

EXTREMES FOR CURRENT YEAR.--Peak discharge above base of 800 ft<sup>3</sup>/s (22.7 m<sup>3</sup>/s) and maximums (\*):

| Date    | Time | Discharge<br>(ft <sup>3</sup> /s) (m <sup>3</sup> /s) | Gage height<br>(ft) (m) | Date   | Time | Discharge<br>(ft <sup>3</sup> /s) (m <sup>3</sup> /s) | Gage height<br>(ft) (m) |
|---------|------|-------------------------------------------------------|-------------------------|--------|------|-------------------------------------------------------|-------------------------|
| Nov. 14 | 1000 | 942 26.7                                              | 4.28 1.305              | Feb. 2 | 1630 | 1,800 51.0                                            | 6.14 1.871              |
| Jan. 28 | 2000 | 2,440 69.1                                            | 7.20 2.195              | Apr. 2 | 1600 | *2,510 71.1                                           | *7.32 2.231             |

Minimum discharge, 22 ft<sup>3</sup>/s (0.62 m<sup>3</sup>/s) Oct. 11, gage height, 0.57 ft (0.174 m).

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976  
MEAN VALUES

| DAY   | OCT  | NOV  | DEC  | JAN  | FEB   | MAR  | APR   | MAY   | JUN  | JUL  | AUG  | SEP  |
|-------|------|------|------|------|-------|------|-------|-------|------|------|------|------|
| 1     | 29   | 84   | 246  | 88   | 733   | 290  | 424   | 275   | 163  | 194  | 72   | 64   |
| 2     | 27   | 71   | 348  | 82   | 1330  | 270  | 1610  | 359   | 158  | 250  | 93   | 72   |
| 3     | 26   | 61   | 262  | 79   | 1140  | 255  | 1760  | 448   | 150  | 238  | 228  | 78   |
| 4     | 26   | 54   | 206  | 78   | 1120  | 240  | 1300  | 368   | 133  | 192  | 72   | 63   |
| 5     | 25   | 48   | 179  | 83   | 850   | 248  | 1010  | 312   | 123  | 182  | 61   | 54   |
| 6     | 24   | 46   | 147  | 95   | 684   | 278  | 817   | 272   | 137  | 168  | 56   | 51   |
| 7     | 24   | 41   | 153  | 110  | 569   | 282  | 736   | 281   | 153  | 110  | 55   | 47   |
| 8     | 23   | 42   | 134  | 97   | 494   | 260  | 687   | 500   | 152  | 78   | 54   | 44   |
| 9     | 22   | 56   | 111  | 90   | 472   | 248  | 592   | 415   | 144  | 71   | 59   | 40   |
| 10    | 22   | 63   | 255  | 110  | 478   | 230  | 487   | 322   | 139  | 74   | 70   | 35   |
| 11    | 22   | 108  | 547  | 150  | 460   | 220  | 445   | 275   | 154  | 70   | 64   | 47   |
| 12    | 20   | 120  | 385  | 180  | 430   | 220  | 415   | 363   | 208  | 91   | 56   | 92   |
| 13    | 44   | 370  | 292  | 160  | 421   | 226  | 385   | 600   | 171  | 316  | 51   | 87   |
| 14    | 51   | 886  | 194  | 160  | 439   | 258  | 366   | 406   | 154  | 348  | 46   | 70   |
| 15    | 43   | 614  | 161  | 214  | 415   | 250  | 230   | 246   | 158  | 264  | 43   | 58   |
| 16    | 40   | 355  | 161  | 206  | 409   | 236  | 202   | 218   | 133  | 166  | 109  | 54   |
| 17    | 44   | 226  | 142  | 188  | 394   | 137  | 244   | 196   | 126  | 116  | 133  | 67   |
| 18    | 68   | 173  | 111  | 177  | 382   | 139  | 270   | 192   | 152  | 111  | 99   | 68   |
| 19    | 133  | 133  | 93   | 163  | 388   | 120  | 264   | 381   | 160  | 100  | 74   | 71   |
| 20    | 118  | 105  | 84   | 150  | 385   | 131  | 246   | 680   | 157  | 81   | 60   | 71   |
| 21    | 184  | 96   | 81   | 139  | 370   | 184  | 230   | 580   | 158  | 59   | 54   | 68   |
| 22    | 152  | 190  | 80   | 137  | 496   | 445  | 214   | 448   | 157  | 46   | 49   | 67   |
| 23    | 112  | 220  | 78   | 136  | 660   | 373  | 375   | 360   | 157  | 42   | 44   | 63   |
| 24    | 86   | 163  | 78   | 136  | 565   | 282  | 360   | 325   | 166  | 104  | 40   | 60   |
| 25    | 67   | 137  | 80   | 134  | 440   | 322  | 325   | 272   | 210  | 334  | 36   | 58   |
| 26    | 58   | 118  | 88   | 128  | 350   | 421  | 300   | 240   | 258  | 228  | 36   | 58   |
| 27    | 55   | 116  | 110  | 264  | 330   | 451  | 385   | 218   | 234  | 152  | 35   | 64   |
| 28    | 47   | 408  | 130  | 1610 | 345   | 511  | 415   | 208   | 204  | 122  | 56   | 75   |
| 29    | 43   | 373  | 115  | 1650 | 335   | 577  | 350   | 194   | 182  | 98   | 80   | 72   |
| 30    | 58   | 244  | 98   | 1210 | ---   | 469  | 302   | 177   | 171  | 80   | 93   | 64   |
| 31    | 96   | ---  | 92   | 902  | ---   | 424  | ---   | 168   | ---  | 72   | 84   | ---  |
| TOTAL | 1789 | 5721 | 5241 | 9106 | 15884 | 8997 | 15746 | 10299 | 4922 | 4557 | 2162 | 1882 |
| MEAN  | 57.7 | 191  | 169  | 294  | 548   | 290  | 525   | 332   | 164  | 147  | 69.7 | 62.7 |
| MAX   | 184  | 886  | 547  | 1650 | 1330  | 577  | 1760  | 680   | 258  | 348  | 228  | 92   |
| MIN   | 20   | 41   | 78   | 78   | 330   | 120  | 202   | 168   | 123  | 42   | 35   | 35   |
| CFSM  | .62  | 2.07 | 1.83 | 3.18 | 5.93  | 3.14 | 5.68  | 3.59  | 1.77 | 1.59 | .75  | .68  |
| IN.   | .72  | 2.30 | 2.11 | 3.67 | 6.39  | 3.62 | 6.34  | 4.15  | 1.98 | 1.83 | .87  | .76  |

CAL YR 1975 TOTAL 55037 MEAN 151 MAX 886 MIN 18 CFMS 1.63 IN 22.16  
WTR YR 1976 TOTAL 86306 MEAN 236 MAX 1760 MIN 20 CFMS 2.55 IN 34.75

## 01021500 MACHIAS RIVER AT WHITNEYVILLE, ME

LOCATION.--Lat 44°43'23", long 67°31'15", Washington County, Hydrologic Unit 01050002, on right bank 800 ft (244 m) downstream from highway bridge at Whitneyville.

DRAINAGE AREA.--457 mi<sup>2</sup> (1,184 km<sup>2</sup>).

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.

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

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.

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

AVERAGE DISCHARGE.--63 years, 936 ft<sup>3</sup>/s (26.51 m<sup>3</sup>/s), 27.81 in/yr (706 mm/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 14,800 ft<sup>3</sup>/s (419 m<sup>3</sup>/s) May 29, 1961, gage height, 16.92 ft (5.157 m); minimum daily, 3.5 ft<sup>3</sup>/s (0.099 m<sup>3</sup>/s) Oct. 12, 1939, when flow was held back by cofferdam during reconstruction of highway bridge upstream.

EXTREMES FOR CURRENT YEAR.--Peak discharges above base of 3,200 ft<sup>3</sup>/s (90.6 m<sup>3</sup>/s) and maximums (\*):

| Date    | Time | Discharge<br>(ft <sup>3</sup> /s) | Discharge<br>(m <sup>3</sup> /s) | Gage height<br>(ft) | Gage height<br>(m) | Date   | Time | Discharge<br>(ft <sup>3</sup> /s) | Discharge<br>(m <sup>3</sup> /s) | Gage height<br>(ft) | Gage height<br>(m) |
|---------|------|-----------------------------------|----------------------------------|---------------------|--------------------|--------|------|-----------------------------------|----------------------------------|---------------------|--------------------|
| Nov. 14 | 1100 | 4,060                             | 115                              | 8.05                | 2.454              | Feb. 3 | 1900 | 7,070                             | 200                              | 11.00               | 3.353              |
| Jan. 28 | 2200 | 8,130                             | 230                              | 11.90               | 3.627              | Apr. 3 | 1600 | *12,400                           | 351                              | *15.15              | 4.618              |

Minimum discharge, 113 ft<sup>3</sup>/s (3.20 m<sup>3</sup>/s) Oct. 11, gage height, 3.07 ft (0.936 m).

DISCHARGE, IN CUHIC FEET PER SECOND, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976  
MEAN VALUES

| DAY         | OCT   | NOV    | DEC   | JAN   | FEB   | MAR   | APR     | MAY       | JUN      | JUL   | AUG   | SEP  |
|-------------|-------|--------|-------|-------|-------|-------|---------|-----------|----------|-------|-------|------|
| 1           | 234   | 510    | 1600  | 460   | 5600  | 1530  | 2390    | 1610      | 918      | 586   | 591   | 309  |
| 2           | 209   | 459    | 1930  | 440   | 5030  | 1410  | 6690    | 1970      | 856      | 1210  | 755   | 297  |
| 3           | 182   | 421    | 1960  | 420   | 6490  | 1210  | 12000   | 2500      | 787      | 1060  | 800   | 318  |
| 4           | 166   | 404    | 1690  | 410   | 6890  | 1070  | 11000   | 2140      | 721      | 846   | 676   | 307  |
| 5           | 151   | 391    | 1230  | 450   | 5900  | 1030  | 7880    | 1790      | 665      | 668   | 577   | 281  |
| 6           | 145   | 365    | 1270  | 530   | 4800  | 1150  | 5150    | 1530      | 610      | 547   | 513   | 270  |
| 7           | 139   | 340    | 1260  | 540   | 3700  | 1200  | 3890    | 1440      | 565      | 458   | 473   | 263  |
| 8           | 131   | 331    | 1390  | 490   | 2900  | 1100  | 3420    | 1990      | 535      | 400   | 455   | 247  |
| 9           | 127   | 349    | 1490  | 480   | 2300  | 1010  | 3160    | 1890      | 505      | 366   | 450   | 231  |
| 10          | 121   | 369    | 1370  | 540   | 2250  | 853   | 2910    | 1570      | 471      | 346   | 457   | 215  |
| 11          | 117   | 656    | 2480  | 630   | 2030  | 776   | 2710    | 1360      | 446      | 319   | 503   | 224  |
| 12          | 129   | 948    | 2210  | 770   | 1920  | 789   | 2530    | 1340      | 493      | 350   | 515   | 301  |
| 13          | 252   | 2030   | 1650  | 760   | 1760  | 788   | 2310    | 2160      | 458      | 933   | 473   | 356  |
| 14          | 409   | 3990   | 1630  | 720   | 1870  | 1030  | 2130    | 1940      | 424      | 1470  | 432   | 322  |
| 15          | 376   | 3500   | 1290  | 780   | 1770  | 985   | 1980    | 1570      | 481      | 1510  | 405   | 282  |
| 16          | 328   | 2530   | 1400  | 810   | 1620  | 1090  | 1870    | 1320      | 450      | 1270  | 460   | 249  |
| 17          | 324   | 1780   | 1560  | 770   | 1520  | 681   | 1970    | 1140      | 402      | 1030  | 529   | 229  |
| 18          | 377   | 1390   | 1000  | 700   | 1420  | 640   | 2100    | 1060      | 371      | 948   | 470   | 217  |
| 19          | 792   | 1160   | 780   | 650   | 1330  | 630   | 2100    | 1450      | 348      | 850   | 414   | 213  |
| 20          | 834   | 1020   | 635   | 610   | 1320  | 700   | 1970    | 2690      | 326      | 739   | 372   | 210  |
| 21          | 1460  | 933    | 560   | 570   | 1240  | 1070  | 1830    | 2910      | 315      | 658   | 344   | 204  |
| 22          | 1220  | 1360   | 520   | 550   | 1750  | 2360  | 1680    | 2670      | 308      | 593   | 322   | 199  |
| 23          | 861   | 1880   | 485   | 530   | 2960  | 2290  | 2150    | 2460      | 300      | 537   | 301   | 192  |
| 24          | 642   | 1630   | 475   | 510   | 2810  | 1770  | 2220    | 2250      | 298      | 618   | 282   | 186  |
| 25          | 515   | 1400   | 480   | 500   | 2460  | 1670  | 1920    | 1940      | 342      | 1260  | 268   | 174  |
| 26          | 460   | 1230   | 525   | 490   | 2030  | 1950  | 1680    | 1660      | 566      | 1190  | 250   | 166  |
| 27          | 434   | 1120   | 580   | 730   | 1850  | 2200  | 2100    | 1470      | 663      | 962   | 242   | 175  |
| 28          | 396   | 2130   | 640   | 5750  | 1930  | 2410  | 2400    | 1320      | 570      | 819   | 247   | 210  |
| 29          | 366   | 2330   | 580   | 7900  | 1730  | 2750  | 2140    | 1190      | 474      | 745   | 260   | 227  |
| 30          | 388   | 1850   | 530   | 7180  | ---   | 2570  | 1820    | 1080      | 432      | 668   | 303   | 215  |
| 31          | 522   | ---    | 490   | 6290  | ---   | 2440  | ---     | 990       | ---      | 620   | 321   | ---  |
| TOTAL       | 12807 | 38806  | 35690 | 42960 | 81180 | 43152 | 100100  | 54400     | 15100    | 24576 | 13460 | 7289 |
| MEAN        | 413   | 1294   | 1151  | 1386  | 2799  | 1392  | 3337    | 1755      | 503      | 793   | 434   | 243  |
| MAX         | 1460  | 3990   | 2480  | 7900  | 6890  | 2750  | 12000   | 2910      | 918      | 1510  | 800   | 356  |
| MIN         | 117   | 331    | 475   | 410   | 1240  | 630   | 1680    | 990       | 298      | 319   | 242   | 166  |
| CFSM        | .90   | 2.83   | 2.52  | 3.03  | 6.12  | 3.05  | 7.30    | 3.84      | 1.10     | 1.74  | .95   | .53  |
| IN.         | 1.04  | 3.16   | 2.91  | 3.50  | 6.61  | 3.51  | 8.15    | 4.43      | 1.23     | 2.00  | 1.10  | .59  |
| CAL YR 1975 | TOTAL | 305709 | MEAN  | 838   | MAX   | 3990  | MIN 93  | CFSM 1.83 | IN 24.88 |       |       |      |
| WTR YR 1976 | TOTAL | 469520 | MEAN  | 1283  | MAX   | 12000 | MIN 117 | CFSM 2.81 | IN 38.22 |       |       |      |

## NARRAGUAGUS RIVER BASIN

77

01022500 NARRAGUAGUS RIVER AT CHERRYFIELD, ME

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

DRAINAGE AREA.--232 mi<sup>2</sup> (601 km<sup>2</sup>).

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

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

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

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

AVERAGE DISCHARGE.--28 years, 494 ft<sup>3</sup>/s (13.99 m<sup>3</sup>/s), 28.92 in/yr (735 mm/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 10,400 ft<sup>3</sup>/s (295 m<sup>3</sup>/s) May 28, 1961, gage height, 17.40 ft (5.304 m); minimum, 20 ft<sup>3</sup>/s (0.57 m<sup>3</sup>/s) Sept. 22, 23, 1965.

EXTREMES FOR CURRENT YEAR.--Peak discharges above base of 2,000 ft<sup>3</sup>/s (56.6 m<sup>3</sup>/s) and maximums (\*):

| Date    | Time | Discharge<br>(ft <sup>3</sup> /s) (m <sup>3</sup> /s) | Gage height<br>(ft) (m) | Date    | Time | Discharge<br>(ft <sup>3</sup> /s) (m <sup>3</sup> /s) | Gage height<br>(ft) (m) |
|---------|------|-------------------------------------------------------|-------------------------|---------|------|-------------------------------------------------------|-------------------------|
| Nov. 14 | 0300 | 2,720 77.0                                            | 12.32 3.755             | Apr. 3  | 0600 | *6,540 185                                            | *15.27 4.654            |
| Jan. 28 | 2100 | 5,700 161                                             | 14.76 4.499             | July 15 | 1500 | 2,400 68.0                                            | 11.99 3.655             |

Minimum discharge, 67 ft<sup>3</sup>/s (1.90 m<sup>3</sup>/s) Oct. 11, gage height, 7.41 ft (2.259 m).

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976  
MEAN VALUES

| DAY         | OCT   | NOV    | DEC      | JAN      | FEB    | MAR       | APR      | MAY   | JUN  | JUL   | AUG  | SEP  |
|-------------|-------|--------|----------|----------|--------|-----------|----------|-------|------|-------|------|------|
| 1           | 142   | 285    | 843      | 225      | 2500   | 681       | 1210     | 673   | 383  | 308   | 313  | 165  |
| 2           | 128   | 266    | 916      | 215      | 2880   | 587       | 4040     | 705   | 360  | 581   | 432  | 167  |
| 3           | 111   | 244    | 900      | 210      | 3370   | 506       | 6340     | 1020  | 332  | 585   | 426  | 177  |
| 4           | 99    | 227    | 798      | 205      | 3000   | 456       | 5140     | 925   | 313  | 540   | 368  | 166  |
| 5           | 89    | 210    | 628      | 210      | 2100   | 455       | 3500     | 790   | 291  | 470   | 316  | 158  |
| 6           | 85    | 193    | 582      | 235      | 1600   | 594       | 2370     | 682   | 256  | 365   | 275  | 161  |
| 7           | 83    | 179    | 565      | 260      | 1250   | 553       | 1720     | 613   | 227  | 297   | 250  | 149  |
| 8           | 80    | 181    | 447      | 245      | 912    | 488       | 1360     | 767   | 219  | 241   | 235  | 135  |
| 9           | 75    | 209    | 448      | 240      | 751    | 445       | 1130     | 780   | 212  | 210   | 234  | 124  |
| 10          | 71    | 224    | 996      | 250      | 648    | 390       | 978      | 652   | 199  | 191   | 278  | 114  |
| 11          | 70    | 574    | 1550     | 300      | 596    | 365       | 881      | 580   | 189  | 175   | 310  | 123  |
| 12          | 103   | 606    | 1150     | 370      | 560    | 387       | 818      | 532   | 218  | 179   | 309  | 176  |
| 13          | 235   | 1640   | 795      | 345      | 546    | 410       | 724      | 863   | 205  | 727   | 281  | 190  |
| 14          | 261   | 2630   | 649      | 330      | 540    | 576       | 663      | 805   | 198  | 1660  | 246  | 180  |
| 15          | 232   | 2210   | 650      | 540      | 520    | 500       | 614      | 675   | 214  | 2320  | 217  | 162  |
| 16          | 213   | 1670   | 649      | 500      | 510    | 427       | 590      | 564   | 204  | 2000  | 248  | 143  |
| 17          | 205   | 1170   | 490      | 460      | 500    | 292       | 618      | 492   | 190  | 1320  | 261  | 129  |
| 18          | 268   | 856    | 380      | 420      | 473    | 280       | 686      | 449   | 179  | 945   | 222  | 121  |
| 19          | 483   | 686    | 320      | 395      | 468    | 270       | 725      | 539   | 164  | 742   | 192  | 116  |
| 20          | 510   | 580    | 270      | 360      | 469    | 260       | 719      | 875   | 155  | 590   | 172  | 113  |
| 21          | 742   | 518    | 240      | 350      | 456    | 695       | 678      | 1250  | 154  | 481   | 157  | 110  |
| 22          | 631   | 876    | 230      | 335      | 822    | 1690      | 628      | 1250  | 157  | 407   | 146  | 107  |
| 23          | 496   | 1030   | 225      | 330      | 1610   | 1140      | 878      | 1250  | 159  | 333   | 134  | 98   |
| 24          | 396   | 916    | 220      | 320      | 1140   | 962       | 944      | 1090  | 148  | 350   | 122  | 92   |
| 25          | 329   | 788    | 220      | 310      | 986    | 1010      | 816      | 939   | 174  | 629   | 112  | 87   |
| 26          | 299   | 662    | 225      | 303      | 866    | 1120      | 707      | 790   | 385  | 647   | 107  | 82   |
| 27          | 277   | 623    | 300      | 1130     | 882    | 1180      | 875      | 666   | 386  | 562   | 106  | 96   |
| 28          | 250   | 1180   | 350      | 4380     | 895    | 1380      | 1010     | 577   | 342  | 482   | 114  | 121  |
| 29          | 230   | 1020   | 310      | 4300     | 761    | 1550      | 886      | 512   | 307  | 408   | 136  | 116  |
| 30          | 258   | 827    | 260      | 3450     | ---    | 1390      | 769      | 456   | 267  | 356   | 194  | 112  |
| 31          | 311   | ---    | 240      | 2900     | ---    | 1270      | ---      | 418   | ---  | 323   | 175  | ---  |
| TOTAL       | 7762  | 23280  | 16846    | 24423    | 32611  | 22309     | 43017    | 23179 | 7187 | 19424 | 7088 | 3990 |
| MEAN        | 250   | 776    | 543      | 788      | 1125   | 720       | 1434     | 748   | 240  | 627   | 229  | 133  |
| MAX         | 742   | 2630   | 1550     | 4380     | 3370   | 1690      | 6340     | 1250  | 386  | 2320  | 432  | 190  |
| MIN         | 70    | 179    | 220      | 205      | 456    | 260       | 590      | 418   | 148  | 175   | 106  | 82   |
| CFSM        | 1.08  | 3.34   | 2.34     | 3.40     | 4.85   | 3.10      | 6.18     | 3.22  | 1.03 | 2.70  | .99  | .57  |
| IN.         | 1.24  | 3.73   | 2.70     | 3.92     | 5.23   | 3.58      | 6.90     | 3.72  | 1.15 | 3.11  | 1.14 | .64  |
| CAL YR 1975 | TOTAL | 159669 | MEAN 437 | MAX 2630 | MIN 49 | CFSM 1.88 | IN 25.60 |       |      |       |      |      |
| WTR YR 1976 | TOTAL | 231116 | MEAN 631 | MAX 6340 | MIN 70 | CFSM 2.72 | IN 37.06 |       |      |       |      |      |



## UNION RIVER BASIN

01023000 WEST BRANCH UNION RIVER AT AMHERST, ME

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

DRAINAGE AREA.--148 mi<sup>2</sup> (383 km<sup>2</sup>).

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

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

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

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

AVERAGE DISCHARGE.--57 years, 267 ft<sup>3</sup>/s (7.561 m<sup>3</sup>/s), 24.50 in/yr (622 mm/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 4,140 ft<sup>3</sup>/s (117 m<sup>3</sup>/s) Apr. 13, 1940, gage height, 9.58 ft (2.920 m); maximum gage height, 10.41 ft (3.173 m) Mar. 9, 1942 (ice jam); minimum discharge, 2.6 ft<sup>3</sup>/s (0.074 m<sup>3</sup>/s) July 28, 1965, gage height, 2.75 ft (0.838 m).

EXTREMES FOR CURRENT YEAR.--Peak discharges above base of 1,000 ft<sup>3</sup>/s (28.3 m<sup>3</sup>/s) and maximums (\*):

| Date    | Time | Discharge<br>(ft <sup>3</sup> /s)<br>(m <sup>3</sup> /s) | Gage height<br>(ft)<br>(m) | Date    | Time | Discharge<br>(ft <sup>3</sup> /s)<br>(m <sup>3</sup> /s) | Gage height<br>(ft)<br>(m) |
|---------|------|----------------------------------------------------------|----------------------------|---------|------|----------------------------------------------------------|----------------------------|
| Jan. 29 | 1300 | 2,380                                                    | 67.4                       | Apr. 3  | 2300 | *2,980                                                   | *8.36                      |
| Feb. 3  | 1100 | 2,180                                                    | 61.7                       | July 14 | 2100 | 1,040                                                    | 5.92                       |
|         |      |                                                          |                            |         |      |                                                          | 2.548                      |
|         |      |                                                          |                            |         |      |                                                          | 1.804                      |

Minimum discharge, 35 ft<sup>3</sup>/s (0.97 m<sup>3</sup>/s) Oct. 11, 12, gage height, 3.35 ft (1.021 m).

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976  
MEAN VALUES

| DAY   | OCT  | NOV   | DEC  | JAN   | FEB   | MAR   | APR   | MAY   | JUN  | JUL   | AUG  | SEP  |
|-------|------|-------|------|-------|-------|-------|-------|-------|------|-------|------|------|
| 1     | 100  | 165   | 466  | 185   | 1700  | 366   | 909   | 495   | 263  | 159   | 347  | 81   |
| 2     | 91   | 160   | 547  | 180   | 1850  | 363   | 2170  | 496   | 231  | 195   | 370  | 97   |
| 3     | 81   | 149   | 545  | 175   | 2070  | 340   | 2650  | 493   | 207  | 252   | 345  | 92   |
| 4     | 70   | 138   | 519  | 170   | 1800  | 289   | 2840  | 472   | 188  | 363   | 317  | 87   |
| 5     | 61   | 129   | 484  | 170   | 1500  | 261   | 2630  | 434   | 169  | 393   | 280  | 86   |
| 6     | 56   | 116   | 431  | 170   | 1350  | 268   | 2330  | 400   | 153  | 411   | 244  | 87   |
| 7     | 55   | 107   | 418  | 175   | 1050  | 272   | 1970  | 374   | 140  | 338   | 217  | 83   |
| 8     | 48   | 108   | 419  | 175   | 900   | 272   | 1630  | 384   | 130  | 276   | 197  | 81   |
| 9     | 43   | 131   | 379  | 175   | 750   | 284   | 1350  | 382   | 123  | 255   | 184  | 77   |
| 10    | 39   | 135   | 331  | 180   | 660   | 263   | 1110  | 370   | 110  | 208   | 397  | 72   |
| 11    | 36   | 231   | 374  | 190   | 580   | 206   | 931   | 344   | 101  | 174   | 495  | 98   |
| 12    | 50   | 236   | 356  | 195   | 540   | 218   | 791   | 343   | 94   | 241   | 488  | 123  |
| 13    | 68   | 464   | 351  | 200   | 480   | 191   | 669   | 395   | 83   | 810   | 438  | 133  |
| 14    | 70   | 801   | 348  | 230   | 450   | 201   | 592   | 374   | 89   | 1020  | 382  | 137  |
| 15    | 77   | 774   | 270  | 295   | 420   | 194   | 534   | 350   | 89   | 1010  | 323  | 128  |
| 16    | 90   | 687   | 250  | 285   | 490   | 187   | 501   | 310   | 85   | 915   | 293  | 114  |
| 17    | 95   | 629   | 230  | 275   | 475   | 225   | 498   | 277   | 82   | 887   | 269  | 101  |
| 18    | 139  | 582   | 220  | 265   | 460   | 283   | 507   | 277   | 79   | 906   | 244  | 92   |
| 19    | 188  | 531   | 210  | 260   | 450   | 287   | 517   | 357   | 72   | 785   | 217  | 86   |
| 20    | 231  | 477   | 200  | 250   | 330   | 223   | 519   | 508   | 67   | 665   | 190  | 81   |
| 21    | 301  | 442   | 195  | 240   | 327   | 250   | 509   | 596   | 64   | 560   | 169  | 78   |
| 22    | 305  | 637   | 190  | 235   | 359   | 420   | 499   | 722   | 61   | 464   | 151  | 86   |
| 23    | 288  | 625   | 185  | 230   | 499   | 435   | 598   | 726   | 57   | 373   | 136  | 82   |
| 24    | 253  | 576   | 180  | 230   | 536   | 422   | 581   | 695   | 54   | 395   | 120  | 77   |
| 25    | 220  | 554   | 185  | 230   | 497   | 462   | 537   | 634   | 64   | 516   | 108  | 72   |
| 26    | 216  | 507   | 195  | 301   | 456   | 527   | 515   | 575   | 83   | 524   | 99   | 66   |
| 27    | 197  | 468   | 205  | 763   | 460   | 592   | 556   | 515   | 87   | 524   | 93   | 78   |
| 28    | 176  | 482   | 200  | 1970  | 485   | 792   | 570   | 453   | 94   | 512   | 90   | 88   |
| 29    | 162  | 460   | 200  | 2250  | 566   | 928   | 553   | 392   | 94   | 470   | 89   | 90   |
| 30    | 177  | 425   | 190  | 1990  | ---   | 877   | 526   | 338   | 105  | 421   | 92   | 92   |
| 31    | 180  | ---   | 180  | 1850  | ---   | 873   | ---   | 295   | ---  | 377   | 84   | ---  |
| TOTAL | 4163 | 11926 | 9453 | 14489 | 22490 | 11771 | 31092 | 13776 | 3318 | 15399 | 7468 | 2745 |
| MEAN  | 134  | 398   | 305  | 467   | 776   | 380   | 1036  | 444   | 111  | 497   | 241  | 91.5 |
| MAX   | 305  | 801   | 547  | 2250  | 2070  | 928   | 2840  | 726   | 263  | 1020  | 495  | 137  |
| MIN   | 36   | 107   | 180  | 170   | 327   | 187   | 498   | 277   | 54   | 159   | 84   | 66   |
| CFSM  | .91  | 2.69  | 2.06 | 3.16  | 5.24  | 2.57  | 7.00  | 3.00  | .75  | 3.36  | 1.63 | .62  |
| IN.   | 1.05 | 3.00  | 2.38 | 3.64  | 5.65  | 2.96  | 7.81  | 3.46  | .83  | 3.87  | 1.88 | .69  |

| CAL YR 1975 | TOTAL | 89855  | MEAN 246 | MAX 970  | MIN 10 | CFSM 1.66 | IN 22.59 |
|-------------|-------|--------|----------|----------|--------|-----------|----------|
| WTR YR 1976 | TOTAL | 148090 | MEAN 405 | MAX 2840 | MIN 36 | CFSM 2.74 | IN 37.22 |



## UNION RIVER BASIN

79

01024200 GARLAND BROOK NEAR MARIAVILLE, ME

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

DRAINAGE AREA.--9.80 mi<sup>2</sup> (25.38 km<sup>2</sup>).

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

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

REMARKS.--Records fair.

AVERAGE DISCHARGE.--12 years, 21.9 ft<sup>3</sup>/s (0.620 m<sup>3</sup>/s), 30.35 in/yr (771 mm/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 1,230 ft<sup>3</sup>/s (34.8 m<sup>3</sup>/s) Dec. 27, 1969, gage height, 13.47 ft (4.106 m); minimum, 0.24 ft<sup>3</sup>/s (0.007 m<sup>3</sup>/s) Sept. 22-25, 1965.

EXTREMES FOR CURRENT YEAR.--Peak discharges above base of 150 ft<sup>3</sup>/s (4.25 m<sup>3</sup>/s) and maximums (\*):

| Date    | Time | Discharge<br>(ft <sup>3</sup> /s) (m <sup>3</sup> /s) | Gage height<br>(ft) (m) | Date   | Time | Discharge<br>(ft <sup>3</sup> /s) (m <sup>3</sup> /s) | Gage height<br>(ft) (m) |
|---------|------|-------------------------------------------------------|-------------------------|--------|------|-------------------------------------------------------|-------------------------|
| Jan. 28 | -    | 190 5.38                                              | - -                     | Apr. 2 | -    | *773 21.9                                             | *10.82 3.298            |
| Feb. 2  | -    | 195 5.52                                              | - -                     |        |      |                                                       |                         |

Minimum daily discharge, 3.0 ft<sup>3</sup>/s (0.085 m<sup>3</sup>/s) Oct. 10.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976  
MEAN VALUES

| DAY               | OCT      | NOV    | DEC  | JAN  | FEB  | MAR  | APR  | MAY  | JUN   | JUL   | AUG   | SEP   |
|-------------------|----------|--------|------|------|------|------|------|------|-------|-------|-------|-------|
| 1                 | 5.5      | 14     | 38   | 12   | 60   | 26   | 86   | 18   | 16    | 35    | 18    | 6.4   |
| 2                 | 4.9      | 12     | 41   | 12   | 175  | 21   | 560  | 29   | 15    | 43    | 23    | 6.3   |
| 3                 | 4.4      | 11     | 36   | 11   | 140  | 18   | 411  | 37   | 12    | 34    | 13    | 7.4   |
| 4                 | 4.0      | 9.9    | 29   | 11   | 100  | 17   | 232  | 29   | 13    | 27    | 8.8   | 6.7   |
| 5                 | 3.7      | 9.6    | 24   | 10   | 68   | 16   | 106  | 23   | 10    | 22    | 7.1   | 6.2   |
| 6                 | 3.6      | 9.2    | 22   | 10   | 49   | 30   | 74   | 19   | 8.5   | 18    | 6.6   | 5.8   |
| 7                 | 3.4      | 8.8    | 19   | 10   | 36   | 24   | 65   | 17   | 7.9   | 15    | 6.6   | 5.6   |
| 8                 | 3.2      | 9.1    | 18   | 10   | 30   | 18   | 54   | 31   | 7.7   | 13    | 8.0   | 5.4   |
| 9                 | 3.1      | 9.9    | 17   | 10   | 27   | 15   | 44   | 29   | 6.8   | 11    | 37    | 5.2   |
| 10                | 3.0      | 11     | 35   | 10   | 25   | 12   | 40   | 21   | 5.9   | 9.8   | 25    | 5.2   |
| 11                | 3.1      | 35     | 69   | 12   | 24   | 13   | 38   | 17   | 6.0   | 8.8   | 13    | 5.6   |
| 12                | 8.0      | 27     | 45   | 13   | 23   | 12   | 36   | 17   | 6.1   | 25    | 8.7   | 6.5   |
| 13                | 12       | 64     | 30   | 14   | 22   | 12   | 30   | 50   | 8.4   | 56    | 7.0   | 7.2   |
| 14                | 8.8      | 120    | 24   | 33   | 21   | 20   | 29   | 29   | 12    | 110   | 7.5   | 6.4   |
| 15                | 7.0      | 85     | 25   | 45   | 20   | 19   | 28   | 22   | 7.7   | 94    | 9.7   | 6.0   |
| 16                | 6.4      | 59     | 25   | 34   | 19   | 14   | 29   | 18   | 6.0   | 60    | 7.5   | 5.6   |
| 17                | 6.8      | 48     | 22   | 28   | 18   | 12   | 35   | 16   | 5.6   | 43    | 6.8   | 5.3   |
| 18                | 33       | 42     | 19   | 24   | 18   | 13   | 34   | 17   | 4.6   | 32    | 6.3   | 5.0   |
| 19                | 36       | 37     | 17   | 22   | 18   | 11   | 32   | 45   | 4.6   | 26    | 5.9   | 4.9   |
| 20                | 32       | 33     | 16   | 20   | 17   | 15   | 28   | 78   | 6.7   | 22    | 5.6   | 4.7   |
| 21                | 38       | 34     | 14   | 19   | 17   | 30   | 25   | 79   | 7.5   | 18    | 5.4   | 4.5   |
| 22                | 22       | 50     | 13   | 17   | 80   | 91   | 23   | 90   | 5.6   | 16    | 5.2   | 4.4   |
| 23                | 15       | 44     | 13   | 16   | 60   | 64   | 45   | 79   | 7.0   | 14    | 5.1   | 4.3   |
| 24                | 12       | 37     | 12   | 16   | 48   | 38   | 33   | 55   | 24    | 15    | 4.9   | 4.2   |
| 25                | 9.8      | 33     | 12   | 15   | 39   | 43   | 28   | 42   | 23    | 29    | 4.8   | 4.1   |
| 26                | 12       | 30     | 16   | 15   | 32   | 64   | 24   | 33   | 17    | 27    | 4.8   | 4.1   |
| 27                | 13       | 28     | 23   | 35   | 41   | 80   | 36   | 28   | 15    | 21    | 4.9   | 4.3   |
| 28                | 11       | 49     | 18   | 170  | 38   | 142  | 31   | 25   | 14    | 17    | 6.2   | 4.8   |
| 29                | 9.4      | 43     | 16   | 135  | 32   | 112  | 24   | 23   | 48    | 12    | 6.7   | 4.7   |
| 30                | 16       | 34     | 14   | 94   | ---  | 94   | 20   | 20   | 50    | 9.1   | 7.0   | 4.5   |
| 31                | 19       | ---    | 13   | 74   | ---  | 86   | ---  | 17   | ---   | 9.0   | 6.6   | ---   |
| TOTAL             | 369.1    | 1036.5 | 735  | 957  | 1297 | 1182 | 2280 | 1053 | 381.6 | 891.7 | 292.7 | 161.3 |
| MEAN              | 11.9     | 34.6   | 23.7 | 30.9 | 44.7 | 38.1 | 76.0 | 34.0 | 12.7  | 28.8  | 9.44  | 5.38  |
| MAX               | 38       | 120    | 69   | 170  | 175  | 142  | 560  | 90   | 50    | 110   | 37    | 7.4   |
| MIN               | 3.0      | 8.8    | 12   | 10   | 17   | 11   | 20   | 16   | 4.6   | 8.8   | 4.8   | 4.1   |
| CFSM              | 1.21     | 3.53   | 2.42 | 3.15 | 4.56 | 3.89 | 7.76 | 3.47 | 1.30  | 2.94  | .96   | .55   |
| IN.               | 1.40     | 3.93   | 2.79 | 3.63 | 4.92 | 4.49 | 8.65 | 4.00 | 1.45  | 3.38  | 1.11  | .61   |
| CAL YR 1975 TOTAL | 6989.22  |        |      |      |      |      |      |      |       |       |       |       |
| WTR YR 1976 TOTAL | 10636.90 |        |      |      |      |      |      |      |       |       |       |       |
| MEAN 19.1         |          |        |      |      |      |      |      |      |       |       |       |       |
| MAX 187           |          |        |      |      |      |      |      |      |       |       |       |       |
| MIN .73           |          |        |      |      |      |      |      |      |       |       |       |       |
| CFSM 1.95         |          |        |      |      |      |      |      |      |       |       |       |       |
| IN 26.53          |          |        |      |      |      |      |      |      |       |       |       |       |
| MEAN 29.1         |          |        |      |      |      |      |      |      |       |       |       |       |
| MAX 560           |          |        |      |      |      |      |      |      |       |       |       |       |
| MIN 3.0           |          |        |      |      |      |      |      |      |       |       |       |       |
| CFSM 2.97         |          |        |      |      |      |      |      |      |       |       |       |       |
| IN 40.37          |          |        |      |      |      |      |      |      |       |       |       |       |

Note.--No gage-height record May 5 to June 22.

## PENOBSCOT RIVER BASIN

01029500 EAST BRANCH PENOBSCOT RIVER AT GRINDSTONE, ME

LOCATION.--Lat 45°43'49", long 68°35'22", Penobscot County, Hydrologic Unit 01020002, on left bank 500 ft (152 m) downstream from Bangor & 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 mi<sup>2</sup> (2,823 km<sup>2</sup>), including 249 mi<sup>2</sup> (645 km<sup>2</sup>) drained by Chamberlain Lake through Telos Canal.

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

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

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

REMARKS.--Records good except those for winter period, which are fair. Flow regulated by Chamberlain, Telos, Second and Grand Lakes, and Round Pond (Reservoirs in Penobscot River basin). Final regulation at Grand Lake Dam 35 mi (56 km) upstream.

AVERAGE DISCHARGE.--74 years, 1,933 ft<sup>3</sup>/s (54.74 m<sup>3</sup>/s).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 37,000 ft<sup>3</sup>/s (1,050 m<sup>3</sup>/s) Apr. 30, 1923, gage height, 16.9 ft (5.15 m), site then in use, present datum; minimum daily (1914-74), 77 ft<sup>3</sup>/s (2.18 m<sup>3</sup>/s) Nov. 19, 1924.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 21,300 ft<sup>3</sup>/s (603 m<sup>3</sup>/s) Apr. 4, gage height, 12.65 ft (3.856 m); minimum daily, 324 ft<sup>3</sup>/s (9.18 m<sup>3</sup>/s) Oct. 4.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976  
MEAN VALUES

| DAY         | OCT   | NOV     | DEC   | JAN   | FEB   | MAR    | APR    | MAY    | JUN   | JUL   | AUG   | SEP   |
|-------------|-------|---------|-------|-------|-------|--------|--------|--------|-------|-------|-------|-------|
| 1           | 398   | 935     | 1170  | 940   | 3010  | 3110   | 5350   | 7620   | 3210  | 2030  | 1780  | 2880  |
| 2           | 362   | 922     | 1680  | 890   | 3260  | 3000   | 8650   | 6370   | 3220  | 3140  | 1980  | 2130  |
| 3           | 339   | 896     | 1490  | 830   | 5390  | 2870   | 19100  | 6470   | 2630  | 3060  | 2330  | 1840  |
| 4           | 324   | 877     | 1300  | 790   | 4720  | 2830   | 20500  | 6360   | 2370  | 2960  | 2390  | 1670  |
| 5           | 639   | 860     | 1060  | 760   | 4250  | 2630   | 16900  | 5760   | 2170  | 2720  | 2280  | 1570  |
| 6           | 862   | 825     | 990   | 720   | 3750  | 2940   | 13700  | 4640   | 1920  | 2680  | 1600  | 1360  |
| 7           | 857   | 801     | 1200  | 690   | 3300  | 2980   | 11300  | 4260   | 1570  | 2880  | 1310  | 1040  |
| 8           | 839   | 793     | 1020  | 665   | 2900  | 2860   | 9510   | 4720   | 1460  | 2530  | 1260  | 990   |
| 9           | 824   | 791     | 842   | 640   | 2500  | 2950   | 8500   | 5610   | 1430  | 2610  | 1240  | 948   |
| 10          | 811   | 780     | 830   | 615   | 2200  | 3010   | 7830   | 5570   | 1340  | 1930  | 2650  | 911   |
| 11          | 801   | 999     | 1600  | 595   | 1950  | 2960   | 6900   | 5220   | 1250  | 1640  | 5680  | 932   |
| 12          | 825   | 948     | 1640  | 575   | 1700  | 2810   | 6120   | 4710   | 1260  | 1450  | 5390  | 1010  |
| 13          | 1160  | 871     | 1400  | 555   | 1500  | 2790   | 5580   | 5900   | 1260  | 3060  | 4410  | 1850  |
| 14          | 1170  | 1640    | 1250  | 560   | 1390  | 2710   | 5340   | 4950   | 1170  | 4710  | 3950  | 1980  |
| 15          | 1020  | 1900    | 1150  | 630   | 1300  | 2650   | 5210   | 4510   | 1100  | 4710  | 3980  | 1920  |
| 16          | 944   | 1400    | 1220  | 630   | 1250  | 2470   | 4720   | 4850   | 1030  | 4190  | 4150  | 1880  |
| 17          | 939   | 1060    | 1190  | 610   | 1200  | 2380   | 5880   | 4530   | 984   | 3730  | 4280  | 1850  |
| 18          | 965   | 906     | 1130  | 595   | 1600  | 2350   | 7910   | 4040   | 976   | 3260  | 4080  | 1820  |
| 19          | 861   | 811     | 1050  | 575   | 2750  | 2450   | 9700   | 4610   | 936   | 2740  | 3840  | 1820  |
| 20          | 652   | 739     | 990   | 560   | 2840  | 2410   | 10600  | 6640   | 1270  | 2720  | 3010  | 1810  |
| 21          | 755   | 717     | 940   | 540   | 2810  | 2550   | 11700  | 7220   | 1190  | 2650  | 2890  | 1800  |
| 22          | 771   | 2020    | 920   | 530   | 2870  | 3560   | 11900  | 7420   | 872   | 2490  | 2890  | 1750  |
| 23          | 645   | 2420    | 900   | 515   | 3010  | 3740   | 11700  | 9180   | 860   | 2070  | 2790  | 1460  |
| 24          | 548   | 1640    | 870   | 500   | 3040  | 3510   | 10400  | 9330   | 789   | 1200  | 2700  | 1370  |
| 25          | 488   | 1210    | 850   | 495   | 2960  | 3410   | 9050   | 8100   | 845   | 1590  | 2360  | 1340  |
| 26          | 492   | 1170    | 980   | 490   | 2880  | 3670   | 8290   | 7060   | 1070  | 1450  | 1640  | 1330  |
| 27          | 525   | 1130    | 1160  | 900   | 3070  | 4010   | 8750   | 5210   | 1210  | 1420  | 1420  | 1550  |
| 28          | 480   | 898     | 1250  | 2290  | 3280  | 4870   | 9520   | 4240   | 1080  | 1780  | 1370  | 2010  |
| 29          | 446   | 1110    | 1170  | 3650  | 3200  | 5910   | 8900   | 3950   | 978   | 1800  | 1460  | 1590  |
| 30          | 422   | 983     | 1070  | 3730  | ---   | 5630   | 8200   | 3540   | 1330  | 1700  | 2650  | 1080  |
| 31          | 701   | ---     | 1020  | 3370  | ---   | 5310   | ---    | 3060   | ---   | 1730  | 3270  | ---   |
| TOTAL       | 21865 | 33052   | 35332 | 30435 | 79880 | 101530 | 287710 | 175650 | 42780 | 78630 | 87030 | 47491 |
| MEAN        | 705   | 1102    | 1140  | 982   | 2754  | 3275   | 9590   | 5666   | 1426  | 2536  | 2807  | 1583  |
| MAX         | 1170  | 2420    | 1680  | 3730  | 5390  | 5910   | 20500  | 9330   | 3220  | 4710  | 5680  | 2880  |
| MIN         | 324   | 717     | 830   | 490   | 1200  | 2350   | 4720   | 3060   | 789   | 1200  | 1240  | 911   |
| CAL YR 1975 | TOTAL | 624704  | MEAN  | 1712  | MAX   | 12100  | MIN    | 324    |       |       |       |       |
| WTR YR 1976 | TOTAL | 1021385 | MEAN  | 2791  | MAX   | 20500  | MIN    | 324    |       |       |       |       |

## PENOBSCOT RIVER BASIN

81

01030000 PENOBSCOT RIVER NEAR MATTAWAMKEAG, ME

LOCATION.--Lat 45°34'01", long 68°24'10", Penobscot County, Hydrologic Unit 01020005, on left bank 700 ft (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 mi<sup>2</sup> (8,692 km<sup>2</sup>), including 249 mi<sup>2</sup> (645 km<sup>2</sup>) drained by Chamberlain Lake through Telos Canal.

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

REVISED RECORDS.--WSP 2101: Drainage area.

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

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

AVERAGE DISCHARGE.--36 years, 5,737 ft<sup>3</sup>/s (162.5 m<sup>3</sup>/s).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 66,000 ft<sup>3</sup>/s (1,870 m<sup>3</sup>/s) Apr. 29, 1973, gage height, 16.89 ft (5.148 m, backwater from Mattawamkeag River); minimum daily, 1,430 ft<sup>3</sup>/s (40.5 m<sup>3</sup>/s) Aug. 17, 1941.

EXTREMES FOR CURRENT YEAR.--Maximum daily discharge, 34,000 ft<sup>3</sup>/s (963 m<sup>3</sup>/s) Apr. 4; minimum daily, 2,850 ft<sup>3</sup>/s (80.7 m<sup>3</sup>/s) Oct. 11.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976  
MEAN VALUES

| DAY               | OCT     | NOV    | DEC    | JAN       | FEB       | MAR      | APR    | MAY    | JUN    | JUL    | AUG    | SEP    |
|-------------------|---------|--------|--------|-----------|-----------|----------|--------|--------|--------|--------|--------|--------|
| 1                 | 2900    | 3300   | 4400   | 3500      | 5800      | 4800     | 10500  | 17000  | 9900   | 6000   | 6000   | 6000   |
| 2                 | 3100    | 3300   | 4700   | 3750      | 6000      | 4750     | 14000  | 16000  | 10000  | 6900   | 6400   | 5500   |
| 3                 | 3250    | 3300   | 4700   | 3850      | 6000      | 4700     | 23000  | 16000  | 10000  | 7000   | 6600   | 5200   |
| 4                 | 3000    | 3900   | 4100   | 3900      | 7200      | 4900     | 34000  | 16000  | 9200   | 5500   | 6400   | 5400   |
| 5                 | 2900    | 3600   | 3700   | 3850      | 5300      | 5000     | 29000  | 16000  | 7800   | 5200   | 6000   | 4200   |
| 6                 | 3150    | 3500   | 4450   | 3800      | 4800      | 4800     | 23000  | 13000  | 6700   | 5700   | 5500   | 3800   |
| 7                 | 3300    | 3300   | 4650   | 3950      | 5500      | 5200     | 19500  | 11500  | 6200   | 6200   | 4600   | 4100   |
| 8                 | 3400    | 3000   | 4800   | 4000      | 5300      | 5400     | 18000  | 15000  | 6600   | 6100   | 5200   | 4100   |
| 9                 | 3150    | 3500   | 3900   | 3800      | 4900      | 5400     | 16000  | 16000  | 6400   | 5600   | 5800   | 4500   |
| 10                | 2950    | 3250   | 3500   | 3850      | 4800      | 5400     | 15000  | 16500  | 5600   | 5400   | 8000   | 4900   |
| 11                | 2850    | 3700   | 4200   | 3850      | 4600      | 5400     | 14000  | 16000  | 4300   | 4900   | 13000  | 4900   |
| 12                | 3000    | 3300   | 4500   | 3900      | 4300      | 5300     | 13000  | 15000  | 4200   | 5600   | 13000  | 5300   |
| 13                | 3350    | 3700   | 4400   | 3950      | 4400      | 5200     | 12500  | 15500  | 4200   | 7000   | 13000  | 5800   |
| 14                | 3800    | 4600   | 4200   | 3950      | 4150      | 5400     | 12000  | 15500  | 4900   | 11000  | 14000  | 6000   |
| 15                | 3350    | 4800   | 4100   | 3800      | 4200      | 5100     | 11500  | 15000  | 5100   | 12000  | 14500  | 5400   |
| 16                | 3200    | 4400   | 4000   | 4000      | 4200      | 5200     | 11300  | 15000  | 4900   | 11500  | 15000  | 5100   |
| 17                | 3150    | 3800   | 3950   | 3900      | 4000      | 4950     | 13000  | 14500  | 5000   | 11500  | 15500  | 5000   |
| 18                | 3300    | 3550   | 3900   | 4000      | 4250      | 4850     | 16000  | 13800  | 5100   | 10000  | 13000  | 5300   |
| 19                | 3250    | 3400   | 3900   | 3700      | 4600      | 5200     | 18000  | 13500  | 5200   | 8800   | 9800   | 5200   |
| 20                | 3350    | 3100   | 3900   | 3850      | 4600      | 4800     | 19500  | 16500  | 5200   | 8900   | 8000   | 5600   |
| 21                | 3500    | 3400   | 3750   | 3800      | 4500      | 5200     | 20500  | 17000  | 5200   | 9000   | 7600   | 5400   |
| 22                | 3600    | 4300   | 3800   | 3600      | 4800      | 5700     | 21000  | 19500  | 4600   | 7200   | 7800   | 5400   |
| 23                | 3400    | 5300   | 3850   | 4000      | 4600      | 6400     | 21500  | 22000  | 4600   | 6000   | 8200   | 5100   |
| 24                | 3600    | 4700   | 3900   | 3850      | 4900      | 6400     | 21000  | 22000  | 4600   | 5900   | 7800   | 4900   |
| 25                | 3000    | 4300   | 3200   | 3500      | 4700      | 6300     | 19000  | 21500  | 4650   | 6000   | 7000   | 5000   |
| 26                | 3200    | 3900   | 3750   | 4000      | 4900      | 6400     | 19000  | 20000  | 4750   | 5700   | 6200   | 5600   |
| 27                | 3100    | 3900   | 3900   | 3900      | 4900      | 7300     | 19000  | 18400  | 4800   | 5600   | 5800   | 6000   |
| 28                | 3500    | 3800   | 4400   | 6200      | 4900      | 8600     | 20000  | 15000  | 5000   | 5200   | 5600   | 6000   |
| 29                | 3200    | 3800   | 4300   | 6800      | 4850      | 10500    | 19000  | 11600  | 4900   | 5500   | 6200   | 5800   |
| 30                | 3600    | 3900   | 3800   | 6200      | ---       | 10000    | 17500  | 10000  | 5100   | 5400   | 7200   | 5400   |
| 31                | 3200    | ---    | 3600   | 6100      | ---       | 9800     | ---    | 9500   | ---    | 5600   | 7000   | ---    |
| TOTAL             | 100600  | 113600 | 126200 | 129100    | 141950    | 184350   | 540300 | 489800 | 174700 | 217900 | 265700 | 155900 |
| MEAN              | 3245    | 3787   | 4071   | 4165      | 4895      | 5947     | 18010  | 15800  | 5823   | 7029   | 8571   | 5197   |
| MAX               | 3800    | 5300   | 4800   | 6800      | 7200      | 10500    | 34000  | 22000  | 10000  | 12000  | 15500  | 6000   |
| MIN               | 2850    | 3000   | 3200   | 3500      | 4000      | 4700     | 10500  | 9500   | 4200   | 4900   | 4600   | 3800   |
| CAL YR 1975 TOTAL | 1785100 |        |        | MEAN 4891 | MAX 17000 | MIN 2300 |        |        |        |        |        |        |
| WTR YR 1976 TOTAL | 2640100 |        |        | MEAN 7213 | MAX 34000 | MIN 2850 |        |        |        |        |        |        |

## PENOBSCOT RIVER BASIN

01030500 MATTAWAMKEAG RIVER NEAR MATTAWAMKEAG, ME

LOCATION.--Lat 45°30'18", long 68°18'07", Penobscot County, Hydrologic Unit 01020003, on right bank at Gordon Lower Falls, 1.0 mi (1.6 km) upstream from Mattakeunk Stream, 3.7 mi (6.0 km) upstream from Mattawamkeag, and 4.1 mi (6.6 km) upstream from mouth.

DRAINAGE AREA.--1,418 mi<sup>2</sup> (3,673 km<sup>2</sup>).

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

REVISED RECORDS.--WSP 1501: Drainage area.

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

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

AVERAGE DISCHARGE.--42 years, 2,456 ft<sup>3</sup>/s (69.6 m<sup>3</sup>/s), 23.52 in/yr (597 mm/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 29,200 ft<sup>3</sup>/s (827 m<sup>3</sup>/s) Mar. 23, 1936, gage height, 15.34 ft (4.676 m); minimum, 38 ft<sup>3</sup>/s (1.08 m<sup>3</sup>/s) Sept. 19, 1952.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 27,600 ft<sup>3</sup>/s (782 m<sup>3</sup>/s) Apr. 6, gage height, 14.70 ft (4.481 m); minimum, 192 ft<sup>3</sup>/s (5.44 m<sup>3</sup>/s) Oct. 11, 12, gage height, 0.40 ft (0.122 m).

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976  
MEAN VALUES

| DAY   | OCT   | NOV   | DEC   | JAN   | FEB   | MAR   | APR    | MAY    | JUN   | JUL   | AUG   | SEP   |
|-------|-------|-------|-------|-------|-------|-------|--------|--------|-------|-------|-------|-------|
| 1     | 726   | 560   | 3100  | 1740  | 860   | 2390  | 8300   | 10000  | 3260  | 687   | 1500  | 2250  |
| 2     | 597   | 540   | 3880  | 1680  | 780   | 2380  | 10000  | 9070   | 3030  | 1040  | 1500  | 2120  |
| 3     | 494   | 530   | 4190  | 1580  | 900   | 2280  | 14000  | 8150   | 2910  | 1620  | 1560  | 2080  |
| 4     | 412   | 510   | 4160  | 1460  | 1100  | 2110  | 20000  | 7440   | 2670  | 1870  | 1520  | 1970  |
| 5     | 345   | 490   | 3740  | 1410  | 1200  | 1920  | 25000  | 6870   | 2340  | 1820  | 1390  | 1790  |
| 6     | 300   | 475   | 3460  | 1400  | 960   | 1860  | 27300  | 6310   | 2040  | 1590  | 1270  | 1550  |
| 7     | 277   | 460   | 3330  | 1380  | 740   | 1920  | 27000  | 5740   | 1790  | 1310  | 1010  | 1410  |
| 8     | 248   | 445   | 2810  | 1290  | 590   | 1900  | 25400  | 5430   | 1580  | 1090  | 909   | 1280  |
| 9     | 225   | 450   | 2510  | 1160  | 480   | 1850  | 22800  | 5600   | 1410  | 950   | 892   | 1150  |
| 10    | 208   | 470   | 2400  | 1140  | 400   | 1810  | 19900  | 5600   | 1200  | 853   | 1540  | 1020  |
| 11    | 198   | 600   | 2600  | 1130  | 330   | 1710  | 17100  | 5200   | 1160  | 794   | 4330  | 997   |
| 12    | 197   | 1000  | 2640  | 1150  | 280   | 1590  | 14400  | 4660   | 1090  | 790   | 6050  | 1230  |
| 13    | 242   | 1640  | 2550  | 1150  | 255   | 1530  | 12100  | 4400   | 1030  | 1160  | 6310  | 1520  |
| 14    | 366   | 3190  | 2390  | 1150  | 235   | 1470  | 10200  | 4450   | 1000  | 1920  | 5690  | 1530  |
| 15    | 475   | 4530  | 2240  | 1180  | 230   | 1440  | 8580   | 4370   | 948   | 2460  | 4940  | 1330  |
| 16    | 550   | 4880  | 2220  | 1170  | 230   | 1370  | 7520   | 4070   | 869   | 2710  | 4370  | 1140  |
| 17    | 590   | 4520  | 1820  | 1150  | 235   | 1210  | 7180   | 3680   | 792   | 2690  | 4030  | 1000  |
| 18    | 620   | 3980  | 1620  | 1130  | 2310  | 1200  | 7870   | 3330   | 710   | 2550  | 3590  | 914   |
| 19    | 730   | 3430  | 1400  | 1110  | 2110  | 1230  | 9480   | 3240   | 649   | 2230  | 3000  | 889   |
| 20    | 960   | 2940  | 1450  | 1100  | 1980  | 1240  | 11100  | 4290   | 586   | 1920  | 2490  | 1030  |
| 21    | 1150  | 2630  | 1550  | 1170  | 1910  | 1390  | 12000  | 6260   | 542   | 1610  | 2090  | 1330  |
| 22    | 1300  | 2940  | 1620  | 1160  | 1800  | 1860  | 12400  | 7850   | 498   | 1350  | 1760  | 1440  |
| 23    | 1330  | 3690  | 1620  | 1150  | 1990  | 2750  | 12500  | 9190   | 487   | 1150  | 1500  | 1180  |
| 24    | 1200  | 4120  | 1600  | 1140  | 2250  | 3050  | 12200  | 10200  | 457   | 1380  | 1280  | 1030  |
| 25    | 1050  | 4100  | 1590  | 1130  | 2350  | 3300  | 11600  | 10200  | 460   | 3070  | 1110  | 950   |
| 26    | 880   | 3820  | 1620  | 1160  | 2490  | 3600  | 10700  | 9640   | 479   | 3490  | 988   | 869   |
| 27    | 760   | 3380  | 1710  | 1200  | 2480  | 4100  | 10100  | 8220   | 564   | 3310  | 912   | 934   |
| 28    | 680   | 3190  | 1940  | 2200  | 2560  | 4700  | 10200  | 7150   | 654   | 2940  | 864   | 1570  |
| 29    | 630   | 3260  | 2030  | 420   | 2530  | 5800  | 10800  | 5810   | 677   | 2560  | 881   | 2550  |
| 30    | 610   | 3060  | 2030  | 830   | ---   | 6900  | 10700  | 4600   | 657   | 2100  | 1330  | 2760  |
| 31    | 590   | ---   | 1900  | 970   | ---   | 7700  | ---    | 3780   | ---   | 1700  | 2150  | ---   |
| TOTAL | 18940 | 69880 | 73720 | 34190 | 36565 | 79560 | 418430 | 194800 | 36539 | 56714 | 72756 | 42813 |
| MEAN  | 611   | 2329  | 2378  | 1232  | 1261  | 2566  | 13950  | 6284   | 1218  | 1829  | 2347  | 1427  |
| MAX   | 1330  | 4880  | 4190  | 2200  | 2560  | 7700  | 27300  | 10200  | 3260  | 3490  | 6310  | 2760  |
| MIN   | 197   | 445   | 1400  | 420   | 230   | 1200  | 7180   | 3240   | 457   | 687   | 864   | 869   |
| CFSM  | .43   | 1.64  | 1.68  | .87   | .89   | 1.81  | 9.84   | 4.43   | .86   | 1.29  | 1.66  | 1.01  |
| IN.   | .50   | 1.83  | 1.93  | 1.00  | .96   | 2.09  | 10.98  | 5.11   | .96   | 1.49  | 1.91  | 1.12  |

CAL YR 1975 TOTAL 726230 MEAN 1990 MAX 10900 MIN 59 CFSM 1.40 IN 19.05  
WTR YR 1976 TOTAL 1138907 MEAN 3112 MAX 27300 MIN 197 CFSM 2.19 IN 29.88

## 01031500 PISCATAQUIS RIVER NEAR DOVER-FOXCROFT, ME

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

DRAINAGE AREA.--297 mi<sup>2</sup> (769 km<sup>2</sup>).

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

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

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

REMARKS.--Records good except those for winter period, which are fair. Low flow may be regulated by operation of mills above station.

AVERAGE DISCHARGE.--74 years, 602 ft<sup>3</sup>/s (17.05 m<sup>3</sup>/s), 27.53 in/yr (699 mm/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 22,800 ft<sup>3</sup>/s (646 m<sup>3</sup>/s) Nov. 4, 1966, gage height, 17.89 ft (5.453 m); minimum, 5 ft<sup>3</sup>/s (0.14 m<sup>3</sup>/s) Aug. 6, 1905, Nov. 22, 1908.

EXTREMES FOR CURRENT YEAR.--Peak discharges above base of 4,000 ft<sup>3</sup>/s (113 m<sup>3</sup>/s) and maximums (\*):

| Date    | Time | Discharge<br>(ft <sup>3</sup> /s) (m <sup>3</sup> /s) | Gage height<br>(ft) (m) | Date    | Time | Discharge<br>(ft <sup>3</sup> /s) (m <sup>3</sup> /s) | Gage height<br>(ft) (m) |
|---------|------|-------------------------------------------------------|-------------------------|---------|------|-------------------------------------------------------|-------------------------|
| Apr. 2  | 1600 | *10,200 289                                           | *11.13 3.392            | May 20  | 0100 | 4,880 138                                             | 7.47 2.277              |
| Apr. 19 | 0700 | 4,610 131                                             | 7.24 2.207              | Aug. 11 | 0300 | 4,920 139                                             | 7.50 2.286              |

Minimum discharge, 51 ft<sup>3</sup>/s (1.44 m<sup>3</sup>/s) Oct. 11, gage height, 1.84 ft (0.561 m).

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976  
MEAN VALUES

| DAY         | OCT   | NOV    | DEC      | JAN      | FEB    | MAR       | APR      | MAY   | JUN  | JUL   | AUG   | SEP  |
|-------------|-------|--------|----------|----------|--------|-----------|----------|-------|------|-------|-------|------|
| 1           | 147   | 177    | 680      | 270      | 1390   | 430       | 2780     | 1140  | 548  | 722   | 687   | 261  |
| 2           | 120   | 168    | 1280     | 250      | 1880   | 420       | 8340     | 1390  | 558  | 1060  | 884   | 285  |
| 3           | 102   | 153    | 912      | 235      | 3260   | 390       | 8230     | 1690  | 470  | 2540  | 605   | 257  |
| 4           | 89    | 144    | 661      | 220      | 2540   | 374       | 7530     | 1980  | 425  | 2070  | 425   | 209  |
| 5           | 77    | 139    | 492      | 210      | 1910   | 370       | 5380     | 1600  | 361  | 1170  | 334   | 196  |
| 6           | 74    | 134    | 482      | 200      | 1460   | 370       | 3650     | 1240  | 297  | 746   | 285   | 203  |
| 7           | 70    | 120    | 487      | 190      | 1160   | 370       | 3100     | 1110  | 253  | 526   | 257   | 187  |
| 8           | 65    | 123    | 460      | 180      | 980    | 360       | 2670     | 1440  | 241  | 425   | 234   | 162  |
| 9           | 60    | 134    | 338      | 175      | 814    | 350       | 2210     | 1240  | 234  | 617   | 245   | 183  |
| 10          | 57    | 168    | 425      | 165      | 674    | 330       | 2030     | 980   | 203  | 455   | 3000  | 309  |
| 11          | 52    | 430    | 1210     | 160      | 564    | 321       | 2110     | 828   | 183  | 343   | 4160  | 321  |
| 12          | 72    | 470    | 814      | 155      | 526    | 300       | 1700     | 884   | 165  | 638   | 2060  | 402  |
| 13          | 452   | 700    | 531      | 150      | 455    | 301       | 1460     | 1790  | 150  | 1260  | 1240  | 338  |
| 14          | 384   | 149    | 430      | 150      | 425    | 301       | 1480     | 1290  | 142  | 1280  | 1200  | 285  |
| 15          | 269   | 136    | 415      | 180      | 400    | 290       | 1650     | 980   | 134  | 958   | 1140  | 238  |
| 16          | 209   | 898    | 425      | 175      | 379    | 275       | 1710     | 800   | 120  | 687   | 1280  | 199  |
| 17          | 177   | 635    | 415      | 170      | 384    | 315       | 3170     | 674   | 128  | 531   | 1040  | 171  |
| 18          | 245   | 520    | 405      | 165      | 402    | 310       | 3920     | 700   | 156  | 1010  | 739   | 162  |
| 19          | 654   | 430    | 360      | 160      | 388    | 338       | 4310     | 2530  | 131  | 720   | 575   | 171  |
| 20          | 509   | 384    | 320      | 150      | 361    | 293       | 3780     | 4190  | 115  | 504   | 470   | 177  |
| 21          | 668   | 384    | 295      | 150      | 348    | 370       | 2970     | 3060  | 108  | 379   | 388   | 171  |
| 22          | 553   | 1670   | 300      | 140      | 343    | 654       | 2290     | 2970  | 120  | 297   | 325   | 150  |
| 23          | 415   | 1290   | 285      | 140      | 526    | 891       | 2500     | 2340  | 162  | 249   | 285   | 162  |
| 24          | 334   | 856    | 270      | 135      | 629    | 800       | 2080     | 1960  | 159  | 370   | 245   | 171  |
| 25          | 281   | 668    | 280      | 130      | 514    | 800       | 1590     | 1510  | 263  | 648   | 213   | 120  |
| 26          | 285   | 564    | 315      | 130      | 465    | 950       | 1370     | 1200  | 581  | 415   | 193   | 83   |
| 27          | 289   | 465    | 350      | 350      | 465    | 1300      | 1810     | 980   | 548  | 356   | 193   | 209  |
| 28          | 249   | 476    | 370      | 1470     | 455    | 2570      | 2070     | 835   | 410  | 642   | 245   | 361  |
| 29          | 227   | 460    | 335      | 2850     | 440    | 3370      | 1710     | 687   | 305  | 492   | 269   | 281  |
| 30          | 216   | 392    | 310      | 2430     | ---    | 2900      | 1390     | 581   | 261  | 356   | 435   | 234  |
| 31          | 187   | ---    | 290      | 1820     | ---    | 2660      | ---      | 498   | ---  | 460   | 325   | ---  |
| TOTAL       | 7588  | 13437  | 14942    | 13455    | 24537  | 24073     | 90990    | 45097 | 7931 | 22926 | 23976 | 6658 |
| MEAN        | 245   | 448    | 482      | 434      | 846    | 777       | 3033     | 1455  | 264  | 740   | 773   | 222  |
| MAX         | 668   | 1670   | 1280     | 2850     | 3260   | 3370      | 8340     | 4190  | 581  | 2540  | 4160  | 402  |
| MIN         | 52    | 120    | 270      | 130      | 343    | 275       | 1370     | 498   | 108  | 249   | 193   | 83   |
| CFSM        | .82   | 1.51   | 1.62     | 1.46     | 2.85   | 2.62      | 10.2     | 4.90  | .89  | 2.49  | 2.60  | .75  |
| IN.         | .95   | 1.68   | 1.87     | 1.69     | 3.07   | 3.02      | 11.40    | 5.65  | .99  | 2.87  | 3.00  | .83  |
| CAL YR 1975 | TOTAL | 191162 | MEAN 524 | MAX 4430 | MIN 21 | CFSM 1.76 | IN 23.94 |       |      |       |       |      |
| WTR YR 1976 | TOTAL | 295610 | MEAN 808 | MAX 8340 | MIN 52 | CFSM 2.72 | IN 37.03 |       |      |       |       |      |



## PENOBSCOT RIVER BASIN

01031600 MORRISON BROOK NEAR SEBEC CORNERS, ME

LOCATION.--Lat 45°14'17", long 69°03'06", Piscataquis County, Hydrologic Unit 01020004, 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 mi<sup>2</sup> (11.32 km<sup>2</sup>).

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 fair.

AVERAGE DISCHARGE.--12 years (water years 1965-76), 7.91 ft<sup>3</sup>/s (0.224 m<sup>3</sup>/s), 24.58 in/yr (624 mm/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 575 ft<sup>3</sup>/s (16.3 m<sup>3</sup>/s) Nov. 3, 1966, gage height, 8.95 ft (2.728 m); minimum, 0.04 ft<sup>3</sup>/s (0.001 m<sup>3</sup>/s) Aug. 17, 18, 23, 25, 1975, gage height, 1.70 ft (0.518 m).

EXTREMES FOR CURRENT YEAR.--Peak discharges above base of 70 ft<sup>3</sup>/s (1.98 m<sup>3</sup>/s) and maximums (\*):

| Date   | Time | Discharge<br>(ft <sup>3</sup> /s) (m <sup>3</sup> /s) | Gage height<br>(ft) (m) | Date | Time | Discharge<br>(ft <sup>3</sup> /s) (m <sup>3</sup> /s) | Gage height<br>(ft) (m) |
|--------|------|-------------------------------------------------------|-------------------------|------|------|-------------------------------------------------------|-------------------------|
| Apr. 2 | -    | *202 5.72                                             | *4.80 1.463             |      |      |                                                       |                         |

Minimum discharge, 0.53 ft<sup>3</sup>/s (0.015 m<sup>3</sup>/s) all or part of each day, Oct. 9-12, gage height, 1.91 ft (0.582 m).

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976  
MEAN VALUES

| DAY   | OCT   | NOV   | DEC   | JAN   | FEB   | MAR   | APR   | MAY   | JUN  | JUL   | AUG   | SEP  |
|-------|-------|-------|-------|-------|-------|-------|-------|-------|------|-------|-------|------|
| 1     | 1.4   | 2.8   | 7.2   | 4.6   | 6.7   | 4.1   | 59    | 24    | 8.5  | 5.9   | 5.3   | 3.3  |
| 2     | 1.2   | 2.6   | 6.9   | 4.3   | 8.9   | 4.0   | 200   | 39    | 9.2  | 7.0   | 7.9   | 4.7  |
| 3     | 1.1   | 2.4   | 6.7   | 4.1   | 5.7   | 3.9   | 195   | 43    | 7.0  | 23    | 5.1   | 3.9  |
| 4     | .87   | 2.1   | 5.2   | 3.8   | 5.4   | 3.9   | 110   | 40    | 5.5  | 17    | 3.6   | 3.1  |
| 5     | .77   | 1.9   | 5.2   | 3.7   | 5.1   | 3.8   | 49    | 30    | 4.5  | 7.7   | 3.2   | 2.9  |
| 6     | .66   | 1.7   | 6.3   | 3.5   | 4.8   | 3.8   | 37    | 24    | 3.2  | 4.4   | 2.9   | 3.0  |
| 7     | .69   | 1.7   | 5.2   | 3.3   | 4.6   | 3.7   | 35    | 24    | 2.9  | 3.4   | 2.8   | 2.8  |
| 8     | .60   | 1.9   | 5.2   | 3.3   | 4.5   | 3.7   | 33    | 38    | 2.8  | 2.9   | 2.7   | 2.4  |
| 9     | .55   | 2.3   | 5.3   | 3.2   | 4.3   | 3.6   | 25    | 30    | 2.3  | 3.0   | 5.7   | 2.1  |
| 10    | .53   | 2.5   | 7.6   | 3.1   | 4.2   | 3.5   | 32    | 23    | 2.1  | 2.6   | 34    | 2.0  |
| 11    | .53   | 6.1   | 7.4   | 3.0   | 4.2   | 3.5   | 26    | 19    | 1.9  | 2.1   | 30    | 1.9  |
| 12    | 2.4   | 5.5   | 6.1   | 2.9   | 4.1   | 3.3   | 21    | 28    | 1.6  | 2.6   | 19    | 1.9  |
| 13    | 3.5   | 8.6   | 6.5   | 2.8   | 4.0   | 3.3   | 30    | 40    | 2.0  | 21    | 10    | 1.9  |
| 14    | 3.2   | 10    | 7.7   | 2.8   | 4.0   | 3.3   | 32    | 36    | 2.7  | 24    | 14    | 1.7  |
| 15    | 2.9   | 7.6   | 5.5   | 5.0   | 4.0   | 3.1   | 33    | 24    | 2.1  | 13    | 9.1   | 1.6  |
| 16    | 2.5   | 7.2   | 5.6   | 4.8   | 3.9   | 3.0   | 39    | 20    | 1.7  | 7.2   | 21    | 1.5  |
| 17    | 2.1   | 7.6   | 6.4   | 4.6   | 3.9   | 3.0   | 36    | 18    | 1.3  | 5.3   | 12    | 1.5  |
| 18    | 3.7   | 6.5   | 6.1   | 4.4   | 3.9   | 3.2   | 49    | 27    | 1.1  | 5.9   | 5.9   | 1.4  |
| 19    | 5.1   | 5.1   | 5.5   | 4.2   | 3.8   | 3.3   | 54    | 45    | 1.1  | 5.3   | 4.7   | 2.2  |
| 20    | 3.6   | 4.5   | 5.3   | 3.4   | 3.8   | 3.4   | 52    | 40    | 1.1  | 4.2   | 4.1   | 3.3  |
| 21    | 5.6   | 5.6   | 6.1   | 3.3   | 3.9   | 4.4   | 49    | 43    | 1.0  | 3.5   | 3.9   | 2.6  |
| 22    | 4.8   | 8.3   | 5.1   | 3.2   | 5.8   | 7.0   | 46    | 44    | 1.2  | 2.5   | 3.6   | 2.0  |
| 23    | 3.8   | 6.5   | 5.5   | 3.0   | 6.8   | 16    | 48    | 43    | 1.6  | 1.3   | 3.3   | 1.9  |
| 24    | 3.2   | 6.5   | 10    | 3.0   | 8.2   | 12    | 43    | 40    | 1.5  | 16    | 2.9   | 1.7  |
| 25    | 2.8   | 6.6   | 8.6   | 3.0   | 6.0   | 13    | 35    | 42    | 3.5  | 27    | 2.6   | 1.6  |
| 26    | 2.9   | 6.4   | 7.5   | 2.9   | 5.4   | 17    | 34    | 39    | 5.6  | 14    | 2.4   | 1.6  |
| 27    | 2.9   | 6.3   | 6.6   | 7.4   | 4.7   | 28    | 42    | 29    | 4.7  | 7.0   | 2.1   | 3.9  |
| 28    | 2.6   | 6.8   | 6.0   | 8.8   | 4.5   | 48    | 42    | 24    | 3.6  | 7.7   | 2.1   | 4.2  |
| 29    | 2.4   | 6.3   | 5.3   | 7.1   | 4.5   | 62    | 42    | 23    | 3.0  | 5.6   | 3.5   | 2.9  |
| 30    | 2.9   | 5.4   | 5.0   | 6.2   | ---   | 55    | 33    | 15    | 2.6  | 4.0   | 7.9   | 2.4  |
| 31    | 3.2   | ---   | 5.0   | 5.7   | ---   | 50    | ---   | 8.2   | ---  | 4.0   | 4.4   | ---  |
| TOTAL | 75.00 | 155.3 | 193.6 | 128.4 | 143.6 | 382.8 | 1521  | 962.2 | 92.9 | 260.1 | 241.7 | 73.9 |
| MEAN  | 2.42  | 5.18  | 6.25  | 4.14  | 4.95  | 12.3  | 50.7  | 31.0  | 3.10 | 8.39  | 7.80  | 2.46 |
| MAX   | 5.6   | 10    | 10    | 8.8   | 8.9   | 62    | 200   | 45    | 9.2  | 27    | 34    | 4.7  |
| MIN   | .53   | 1.7   | 5.0   | 2.8   | 3.8   | 3.0   | 21    | 8.2   | 1.0  | 1.3   | 2.1   | 1.4  |
| CFSM  | .55   | 1.19  | 1.43  | .95   | 1.13  | 2.81  | 11.6  | 7.09  | .71  | 1.92  | 1.78  | .56  |
| IN.   | .64   | 1.32  | 1.65  | 1.09  | 1.22  | 3.26  | 12.94 | 8.19  | .79  | 2.21  | 2.06  | .63  |

CAL YR 1975 TOTAL 2019.35 MEAN 5.53 MAX 32 MIN .05 CFSM 1.27 IN 17.19  
WTR YR 1976 TOTAL 4230.50 MEAN 11.6 MAX 200 MIN .53 CFSM 2.65 IN 36.00

NOTE.--No gage-height record Mar. 16 to Apr. 4.



## 01033000 SEBEC RIVER AT SEBEC, ME

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

DRAINAGE AREA.--327 mi<sup>2</sup> (847 km<sup>2</sup>).

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

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

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

REMARKS.--Records good. Flow regulated by Sebec Lake (Reservoirs in Penobscot River basin) and other reservoirs upstream.

AVERAGE DISCHARGE.--52 years, 632 ft<sup>3</sup>/s (17.90 m<sup>3</sup>/s), 26.25 in/yr (667 mm/yr), unadjusted.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 11,400 ft<sup>3</sup>/s (323 m<sup>3</sup>/s) Mar. 20, 1936, gage height, 14.46 ft (4.407 m), from rating curve extended above 6,000 ft<sup>3</sup>/s (170 m<sup>3</sup>/s) on basis of velocity-area studies; minimum, about 2 ft<sup>3</sup>/s (0.057 m<sup>3</sup>/s) Oct. 14-17, 1930, gage height, 0.87 ft (0.265 m), when gates in dam were closed.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 5,270 ft<sup>3</sup>/s (149 m<sup>3</sup>/s) Apr. 5, gage height, 9.11 ft (2.777 m); minimum daily, 75 ft<sup>3</sup>/s (2.12 m<sup>3</sup>/s) Oct. 23, Nov. 14, 18, 19.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976  
MEAN VALUES

| DAY   | OCT   | NOV  | DEC   | JAN  | FEB   | MAR   | APR   | MAY   | JUN  | JUL   | AUG   | SEP   |
|-------|-------|------|-------|------|-------|-------|-------|-------|------|-------|-------|-------|
| 1     | 605   | 386  | 608   | 149  | 672   | 879   | 1760  | 2080  | 1020 | 146   | 498   | 714   |
| 2     | 556   | 357  | 656   | 160  | 1140  | 886   | 2310  | 1970  | 777  | 151   | 550   | 379   |
| 3     | 499   | 335  | 696   | 172  | 1870  | 868   | 3470  | 1920  | 773  | 170   | 547   | 377   |
| 4     | 449   | 334  | 714   | 187  | 1530  | 854   | 4780  | 1930  | 552  | 251   | 529   | 379   |
| 5     | 387   | 303  | 700   | 204  | 1040  | 853   | 5210  | 1880  | 343  | 403   | 505   | 377   |
| 6     | 358   | 268  | 691   | 208  | 1080  | 835   | 4840  | 1820  | 342  | 494   | 492   | 377   |
| 7     | 340   | 253  | 687   | 216  | 1080  | 821   | 4290  | 1550  | 343  | 519   | 470   | 372   |
| 8     | 293   | 252  | 663   | 226  | 1080  | 855   | 3790  | 1420  | 342  | 873   | 457   | 371   |
| 9     | 264   | 246  | 643   | 231  | 1070  | 869   | 3400  | 1410  | 338  | 1260  | 814   | 370   |
| 10    | 239   | 251  | 649   | 238  | 1070  | 808   | 3080  | 1380  | 335  | 845   | 2340  | 370   |
| 11    | 218   | 304  | 710   | 241  | 1070  | 764   | 2840  | 1360  | 334  | 387   | 2100  | 368   |
| 12    | 224   | 312  | 738   | 246  | 1070  | 699   | 2610  | 1350  | 333  | 397   | 1790  | 365   |
| 13    | 260   | 148  | 728   | 248  | 1070  | 644   | 2400  | 1370  | 333  | 1110  | 1730  | 361   |
| 14    | 273   | 75   | 727   | 264  | 1070  | 600   | 2240  | 1150  | 333  | 1600  | 1670  | 354   |
| 15    | 263   | 76   | 717   | 269  | 1070  | 606   | 2110  | 855   | 331  | 1580  | 1650  | 659   |
| 16    | 267   | 77   | 709   | 272  | 1050  | 512   | 1950  | 860   | 325  | 1510  | 1640  | 796   |
| 17    | 255   | 77   | 680   | 280  | 582   | 501   | 1940  | 854   | 324  | 1470  | 1600  | 773   |
| 18    | 270   | 75   | 677   | 281  | 563   | 501   | 2120  | 586   | 324  | 1450  | 1240  | 761   |
| 19    | 312   | 75   | 658   | 276  | 560   | 501   | 2420  | 225   | 322  | 827   | 595   | 752   |
| 20    | 350   | 77   | 628   | 277  | 985   | 501   | 2790  | 936   | 316  | 403   | 462   | 739   |
| 21    | 213   | 82   | 605   | 277  | 1190  | 405   | 2940  | 1520  | 220  | 413   | 288   | 728   |
| 22    | 76    | 117  | 611   | 279  | 1130  | 427   | 2920  | 2160  | 125  | 392   | 301   | 716   |
| 23    | 75    | 178  | 611   | 274  | 1080  | 443   | 2910  | 2490  | 125  | 372   | 314   | 700   |
| 24    | 268   | 403  | 590   | 269  | 1030  | 459   | 2840  | 1830  | 126  | 396   | 321   | 690   |
| 25    | 419   | 557  | 567   | 264  | 1000  | 495   | 2670  | 2040  | 131  | 443   | 320   | 675   |
| 26    | 420   | 570  | 571   | 262  | 962   | 550   | 2520  | 2490  | 133  | 448   | 315   | 665   |
| 27    | 415   | 579  | 988   | 277  | 940   | 677   | 2460  | 1830  | 137  | 455   | 315   | 655   |
| 28    | 412   | 597  | 1200  | 333  | 922   | 893   | 2420  | 1490  | 140  | 474   | 317   | 640   |
| 29    | 409   | 601  | 1150  | 414  | 899   | 1270  | 2340  | 1460  | 141  | 467   | 329   | 630   |
| 30    | 406   | 586  | 1120  | 513  | ---   | 1390  | 2220  | 1430  | 144  | 456   | 774   | 615   |
| 31    | 399   | ---  | 704   | 604  | ---   | 1560  | ---   | 1400  | ---  | 468   | 1340  | ---   |
| TOTAL | 10194 | 8551 | 22396 | 8411 | 29875 | 22931 | 86590 | 47046 | 9862 | 20630 | 26613 | 16728 |
| MEAN  | 329   | 285  | 722   | 271  | 1030  | 740   | 2886  | 1518  | 329  | 665   | 858   | 558   |
| MAX   | 605   | 601  | 1200  | 604  | 1870  | 1560  | 5210  | 2490  | 1020 | 1600  | 2340  | 796   |
| MIN   | 75    | 75   | 567   | 149  | 560   | 405   | 1760  | 225   | 125  | 146   | 288   | 354   |
| MEAN‡ | 309   | 653  | 651   | 408  | 862   | 659   | 3099  | 1529  | 307  | 785   | 814   | 246   |
| CFSM‡ | .94   | 2.00 | 1.99  | 1.25 | 2.64  | 2.02  | 9.48  | 4.68  | .94  | 2.40  | 2.49  | .75   |
| IN.‡  | 1.09  | 2.23 | 2.29  | 1.44 | 2.85  | 2.33  | 10.58 | 5.40  | 1.05 | 2.77  | 2.87  | .84   |

CAL YR 1975 TOTAL 210000 MEAN 575 MAX 2410 MIN 75 MEAN‡ 571 CFSM‡ 1.75 IN.‡ 23.68  
WTR YR 1976 TOTAL 309827 MEAN 847 MAX 5210 MIN 75 MEAN‡ 858 CFSM‡ 2.62 IN.‡ 35.74

‡ Adjusted for change in contents in Sebec Lake.

## PENOBSCOT RIVER BASIN

01033500 PLEASANT RIVER NEAR MILO, ME

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

DRAINAGE AREA.--324 mi<sup>2</sup> (839 km<sup>2</sup>).

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

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

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

REMARKS.--Records good except those for winter period, which are fair. Flow may be slightly regulated by small storage dams above station.

AVERAGE DISCHARGE.--56 years, 709 ft<sup>3</sup>/s (20.08 m<sup>3</sup>/s), 29.72 in/yr (755 mm/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 28,600 ft<sup>3</sup>/s (810 m<sup>3</sup>/s) Nov. 4, 1966, gage height, 15.46 ft (4.712 m); minimum, 15 ft<sup>3</sup>/s (0.42 m<sup>3</sup>/s) Aug. 17, 1944, gage height, 1.21 ft (0.369 m).

EXTREMES FOR CURRENT YEAR.--Peak discharges above base of 3,700 ft<sup>3</sup>/s (105 m<sup>3</sup>/s) and maximums (\*):

| Date    | Time | Discharge<br>(ft <sup>3</sup> /s) (m <sup>3</sup> /s) | Gage height<br>(ft) (m) | Date    | Time | Discharge<br>(ft <sup>3</sup> /s) (m <sup>3</sup> /s) | Gage height<br>(ft) (m) |
|---------|------|-------------------------------------------------------|-------------------------|---------|------|-------------------------------------------------------|-------------------------|
| Feb. 3  | -    | 4,000 113                                             | - -                     | May 21  | -    | 4,800 136                                             | - -                     |
| Apr. 3  | 1100 | *12,900 365                                           | *9.37 2.856             | July 13 | 1700 | 4,510 128                                             | 5.67 1.728              |
| Apr. 20 | 0800 | 5,520 156                                             | 6.17 1.881              | Aug. 11 | 0600 | 5,030 142                                             | 5.93 1.807              |

Minimum discharge, 125 ft<sup>3</sup>/s (3.54 m<sup>3</sup>/s) Oct. 11, 12, gage height, 1.76 ft (0.536 m).

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976  
MEAN VALUES

| DAY               | OCT    | NOV   | DEC      | JAN       | FEB     | MAR       | APR      | MAY   | JUN   | JUL   | AUG   | SEP  |
|-------------------|--------|-------|----------|-----------|---------|-----------|----------|-------|-------|-------|-------|------|
| 1                 | 302    | 346   | 752      | 320       | 1750    | 475       | 3000     | 2200  | 700   | 541   | 553   | 388  |
| 2                 | 258    | 326   | 1230     | 300       | 2200    | 455       | 7230     | 2000  | 670   | 785   | 697   | 409  |
| 3                 | 229    | 309   | 1050     | 285       | 3400    | 440       | 11600    | 2150  | 590   | 1080  | 582   | 365  |
| 4                 | 205    | 297   | 700      | 270       | 3300    | 425       | 11200    | 2400  | 540   | 1350  | 458   | 317  |
| 5                 | 184    | 282   | 620      | 260       | 2150    | 415       | 6330     | 1850  | 470   | 1090  | 376   | 298  |
| 6                 | 169    | 263   | 595      | 245       | 1550    | 400       | 3690     | 1500  | 415   | 758   | 332   | 328  |
| 7                 | 158    | 249   | 550      | 235       | 1150    | 390       | 2800     | 1250  | 380   | 561   | 312   | 309  |
| 8                 | 147    | 258   | 525      | 225       | 930     | 375       | 2280     | 1150  | 360   | 463   | 292   | 281  |
| 9                 | 138    | 310   | 515      | 215       | 780     | 370       | 1980     | 1050  | 350   | 455   | 303   | 255  |
| 10                | 129    | 320   | 645      | 210       | 660     | 360       | 1850     | 960   | 324   | 394   | 2560  | 234  |
| 11                | 125    | 738   | 1000     | 205       | 590     | 350       | 1900     | 880   | 299   | 332   | 4480  | 236  |
| 12                | 221    | 738   | 760      | 195       | 525     | 340       | 1610     | 820   | 281   | 365   | 2530  | 266  |
| 13                | 639    | 1050  | 625      | 190       | 470     | 335       | 1380     | 770   | 262   | 3250  | 1510  | 269  |
| 14                | 635    | 1770  | 550      | 200       | 420     | 325       | 1410     | 1050  | 251   | 3530  | 1510  | 240  |
| 15                | 496    | 1680  | 510      | 235       | 385     | 320       | 1500     | 1400  | 240   | 2190  | 1440  | 215  |
| 16                | 423    | 1250  | 480      | 275       | 390     | 315       | 1640     | 1100  | 227   | 1400  | 1430  | 198  |
| 17                | 408    | 964   | 490      | 280       | 400     | 320       | 3170     | 840   | 222   | 997   | 1150  | 185  |
| 18                | 549    | 792   | 460      | 275       | 410     | 330       | 4330     | 700   | 228   | 910   | 864   | 180  |
| 19                | 905    | 677   | 425      | 255       | 420     | 350       | 5290     | 1150  | 213   | 760   | 682   | 200  |
| 20                | 789    | 595   | 400      | 250       | 400     | 340       | 5410     | 2000  | 201   | 617   | 572   | 213  |
| 21                | 946    | 568   | 375      | 260       | 380     | 500       | 4630     | 4400  | 205   | 513   | 499   | 204  |
| 22                | 817    | 1890  | 355      | 260       | 395     | 960       | 3500     | 3500  | 226   | 425   | 441   | 191  |
| 23                | 655    | 1820  | 340      | 245       | 510     | 1150      | 3000     | 2800  | 217   | 356   | 389   | 175  |
| 24                | 550    | 1270  | 330      | 225       | 650     | 1050      | 2500     | 2200  | 208   | 537   | 343   | 164  |
| 25                | 475    | 1020  | 330      | 220       | 600     | 1000      | 1600     | 1750  | 250   | 761   | 308   | 152  |
| 26                | 497    | 850   | 370      | 220       | 550     | 1150      | 1500     | 1400  | 476   | 567   | 282   | 145  |
| 27                | 516    | 723   | 410      | 700       | 520     | 1550      | 1600     | 1200  | 627   | 482   | 276   | 313  |
| 28                | 454    | 730   | 430      | 1400      | 510     | 3000      | 2000     | 1000  | 532   | 519   | 309   | 527  |
| 29                | 409    | 657   | 395      | 3250      | 500     | 4000      | 2250     | 920   | 424   | 487   | 389   | 423  |
| 30                | 409    | 590   | 370      | 2700      | ---     | 3400      | 2300     | 830   | 361   | 412   | 584   | 343  |
| 31                | 389    | ---   | 345      | 2150      | ---     | 3100      | ---      | 750   | ---   | 447   | 475   | ---  |
| TOTAL             | 13226  | 23332 | 16932    | 16555     | 27295   | 28290     | 104480   | 47970 | 10749 | 27334 | 26928 | 8023 |
| MEAN              | 427    | 778   | 546      | 534       | 941     | 913       | 3483     | 1547  | 358   | 882   | 869   | 267  |
| MAX               | 946    | 1890  | 1230     | 3250      | 3800    | 4000      | 11600    | 4400  | 700   | 3530  | 4480  | 527  |
| MIN               | 125    | 249   | 330      | 190       | 380     | 315       | 1380     | 700   | 201   | 332   | 276   | 145  |
| CFSM              | 1.32   | 2.40  | 1.69     | 1.65      | 2.90    | 2.82      | 10.8     | 4.77  | 1.10  | 2.72  | 2.68  | .82  |
| IN.               | 1.52   | 2.68  | 1.94     | 1.90      | 3.13    | 3.25      | 12.00    | 5.51  | 1.23  | 3.14  | 3.09  | .92  |
| CAL YR 1975 TOTAL | 247795 |       | MEAN 679 | MAX 8840  | MIN 62  | CFSM 2.10 | IN 28.45 |       |       |       |       |      |
| WTR YR 1976 TOTAL | 351114 |       | MEAN 959 | MAX 11600 | MIN 125 | CFSM 2.96 | IN 40.31 |       |       |       |       |      |

## 01034000 PISCATAQUIS RIVER AT MEDFORD, ME

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

DRAINAGE AREA.--1,161 mi<sup>2</sup> (3,007 km<sup>2</sup>).

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

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

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

REMARKS.--Records good except those for winter period, which are fair. Flow regulated by Sebec Lake 15 mi (24 km) upstream (Reservoirs in Penobscot River basin) and other small reservoirs and powerplants above station.

AVERAGE DISCHARGE.--52 years, 2,348 ft<sup>3</sup>/s (66.50 m<sup>3</sup>/s).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 60,100 ft<sup>3</sup>/s (1,700 m<sup>3</sup>/s) Nov. 4, 1966, gage height, 15.58 ft (4.749 m); minimum, 99 ft<sup>3</sup>/s (2.80 m<sup>3</sup>/s) Oct. 28, 1947, gage height, 1.28 ft (0.390 m).  
Maximum stage known, 20.8 ft (6.34 m) May 1, 1923, former site and datum.

EXTREMES FOR CURRENT YEAR.--Peak discharges above base of 13,000 ft<sup>3</sup>/s (368 m<sup>3</sup>/s) and maximums (\*):

| Date    | Time | Discharge<br>(ft <sup>3</sup> /s) | Discharge<br>(m <sup>3</sup> /s) | Gage height<br>(ft) | Gage height<br>(m) | Date    | Time | Discharge<br>(ft <sup>3</sup> /s) | Discharge<br>(m <sup>3</sup> /s) | Gage height<br>(ft) | Gage height<br>(m) |
|---------|------|-----------------------------------|----------------------------------|---------------------|--------------------|---------|------|-----------------------------------|----------------------------------|---------------------|--------------------|
| Apr. 4  | 1400 | *33,100                           | 937                              | *11.35              | 3.460              | Aug. 11 | 1000 | 14,600                            | 413                              | 7.75                | 2.362              |
| Apr. 19 | 1600 | 13,800                            | 391                              | 7.58                | 2.310              |         |      |                                   |                                  |                     |                    |

Minimum discharge, 434 ft<sup>3</sup>/s (12.29 m<sup>3</sup>/s), Oct. 12, gage height, 1.99 ft (0.607 m).

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976  
MEAN VALUES

| DAY               | OCT     | NOV   | DEC   | JAN   | FEB    | MAR   | APR    | MAY    | JUN   | JUL   | AUG   | SEP   |
|-------------------|---------|-------|-------|-------|--------|-------|--------|--------|-------|-------|-------|-------|
| 1                 | 1310    | 1170  | 2170  | 900   | 6100   | 2150  | 8590   | 5620   | 2690  | 1140  | 1990  | 2090  |
| 2                 | 1140    | 1100  | 3870  | 800   | 6000   | 2070  | 15200  | 5510   | 2320  | 2220  | 2610  | 1450  |
| 3                 | 1030    | 1030  | 3490  | 795   | 7100   | 2000  | 29200  | 6880   | 2120  | 4030  | 2360  | 1330  |
| 4                 | 910     | 972   | 2750  | 790   | 11000  | 1950  | 32700  | 7290   | 1920  | 4830  | 1850  | 1160  |
| 5                 | 820     | 937   | 2220  | 785   | 10400  | 1870  | 27400  | 6750   | 1510  | 3420  | 1540  | 1090  |
| 6                 | 728     | 865   | 2080  | 775   | 8500   | 1800  | 18600  | 5510   | 1320  | 2430  | 1360  | 1090  |
| 7                 | 679     | 793   | 2140  | 775   | 7000   | 1750  | 15600  | 4810   | 1210  | 1910  | 1250  | 1070  |
| 8                 | 619     | 769   | 1960  | 770   | 5600   | 1700  | 11600  | 4880   | 1070  | 1640  | 1190  | 1020  |
| 9                 | 559     | 824   | 1690  | 765   | 4500   | 1650  | 9870   | 4840   | 1060  | 2180  | 1300  | 933   |
| 10                | 511     | 868   | 1750  | 760   | 3700   | 1620  | 8710   | 4170   | 986   | 2230  | 8490  | 865   |
| 11                | 470     | 1550  | 3170  | 760   | 3300   | 1580  | 8390   | 3670   | 922   | 1440  | 13900 | 963   |
| 12                | 453     | 2110  | 3230  | 755   | 3100   | 1550  | 7340   | 3500   | 867   | 1210  | 9380  | 1060  |
| 13                | 931     | 2410  | 2500  | 755   | 2850   | 1540  | 6250   | 5660   | 834   | 5520  | 5870  | 1130  |
| 14                | 1600    | 4350  | 2030  | 780   | 2700   | 1520  | 5950   | 5380   | 781   | 7990  | 5070  | 1050  |
| 15                | 1570    | 4570  | 1940  | 850   | 2570   | 1500  | 6060   | 3940   | 776   | 5860  | 4990  | 1010  |
| 16                | 1250    | 3310  | 1970  | 940   | 2420   | 1500  | 5990   | 3280   | 745   | 4280  | 5410  | 1260  |
| 17                | 1110    | 2460  | 1980  | 950   | 2230   | 1550  | 8740   | 2870   | 727   | 3360  | 4860  | 1230  |
| 18                | 1040    | 1980  | 1720  | 965   | 2050   | 1810  | 11500  | 2720   | 716   | 3350  | 3890  | 1190  |
| 19                | 1510    | 1670  | 1620  | 950   | 2050   | 2120  | 13300  | 4260   | 722   | 3230  | 2600  | 1270  |
| 20                | 2200    | 1450  | 1520  | 920   | 2150   | 1750  | 13500  | 9990   | 704   | 1990  | 2020  | 1400  |
| 21                | 2140    | 1350  | 1450  | 910   | 2050   | 1530  | 12500  | 10400  | 682   | 1570  | 1600  | 1340  |
| 22                | 2330    | 3710  | 1380  | 890   | 2000   | 2300  | 10300  | 10000  | 574   | 1350  | 1380  | 1240  |
| 23                | 1890    | 4830  | 1330  | 860   | 2040   | 3300  | 9560   | 9980   | 487   | 1150  | 1250  | 1160  |
| 24                | 1510    | 3300  | 1280  | 825   | 2200   | 3320  | 9010   | 8060   | 506   | 2290  | 1140  | 1110  |
| 25                | 1310    | 2790  | 1250  | 795   | 2420   | 3260  | 7570   | 6010   | 593   | 3480  | 1050  | 1100  |
| 26                | 1370    | 2430  | 1250  | 780   | 2450   | 3440  | 6540   | 5890   | 1030  | 2420  | 969   | 1050  |
| 27                | 1410    | 2120  | 1290  | 1000  | 2370   | 3800  | 7290   | 5140   | 1490  | 1930  | 912   | 1170  |
| 28                | 1370    | 2070  | 1540  | 2450  | 2250   | 5270  | 8160   | 3940   | 1350  | 2100  | 929   | 1640  |
| 29                | 1260    | 2060  | 1800  | 7740  | 2200   | 8160  | 7200   | 3480   | 1100  | 2070  | 1060  | 1640  |
| 30                | 1250    | 1880  | 1740  | 8300  | ---    | 9130  | 6310   | 3150   | 979   | 1690  | 1690  | 1430  |
| 31                | 1260    | ---   | 1600  | 7010  | ---    | 8750  | ---    | 2880   | ---   | 1590  | 2340  | ---   |
| TOTAL             | 37540   | 61728 | 61710 | 48100 | 115300 | 87240 | 348930 | 170460 | 32791 | 85900 | 96250 | 36541 |
| MEAN              | 1211    | 2058  | 1991  | 1552  | 3976   | 2814  | 11630  | 5499   | 1093  | 2771  | 3105  | 1218  |
| MAX               | 2330    | 4830  | 3870  | 8300  | 11000  | 9130  | 32700  | 10400  | 2690  | 7990  | 13900 | 2090  |
| MIN               | 453     | 769   | 1250  | 755   | 2000   | 1500  | 5950   | 2720   | 487   | 1140  | 912   | 865   |
| CAL YR 1975 TOTAL | 746652  |       |       | 2046  | MAX    | 17100 | MIN    | 250    |       |       |       |       |
| WTR YR 1976 TOTAL | 1182490 |       |       | 3231  | MAX    | 32700 | MIN    | 453    |       |       |       |       |

## PENOBSCOT RIVER BASIN

01034500 PENOBSCOT RIVER AT WEST ENFIELD, ME  
(National stream-quality accounting network station)

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

DRAINAGE AREA.--6,670 mi<sup>2</sup> (17,280 km<sup>2</sup>), including 249 mi<sup>2</sup> (645 km<sup>2</sup>) drained by Chamberlain Lake through Telos Canal.

## WATER DISCHARGE RECORDS

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

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

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

REMARKS.--Records good except those for winter period, which are fair. Flow regulated by many reservoirs above station (Reservoirs in Penobscot River basin).

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

AVERAGE DISCHARGE.--74 years (water years 1903-76), 11,789 ft<sup>3</sup>/s (334 m<sup>3</sup>/s).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 153,000 ft<sup>3</sup>/s (4,330 m<sup>3</sup>/s) May 1, 1923, gage height, 25.15 ft (7.666 m), from rating curve extended above 88,000 ft<sup>3</sup>/s (2,490 m<sup>3</sup>/s); minimum, 1,630 ft<sup>3</sup>/s (46.2 m<sup>3</sup>/s) Oct. 29, 1905, gage height, 1.0 ft (0.30 m).

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 110,000 ft<sup>3</sup>/s (3,120 m<sup>3</sup>/s) Apr. 4, gage height, 19.86 ft (6.053 m); minimum daily, 4,570 ft<sup>3</sup>/s (129 m<sup>3</sup>/s) June 30.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976  
MEAN VALUES

| DAY               | OCT     | NOV    | DEC    | JAN        | FEB    | MAR        | APR     | MAY      | JUN    | JUL    | AUG    | SEP    |
|-------------------|---------|--------|--------|------------|--------|------------|---------|----------|--------|--------|--------|--------|
| 1                 | 7000    | 6930   | 11300  | 10500      | 18700  | 15000      | 36900   | 36100    | 16400  | 4710   | 11300  | 12700  |
| 2                 | 6670    | 6780   | 15300  | 9800       | 19000  | 14500      | 48700   | 34100    | 16600  | 6680   | 12300  | 11500  |
| 3                 | 6130    | 6590   | 16600  | 4200       | 20000  | 13900      | 87500   | 33600    | 15900  | 8720   | 13000  | 10200  |
| 4                 | 6050    | 5960   | 14300  | 8850       | 23900  | 13200      | 107000  | 33200    | 15000  | 10400  | 12200  | 10100  |
| 5                 | 5800    | 6070   | 12000  | 8650       | 24700  | 12800      | 102000  | 32700    | 13200  | 8510   | 11000  | 9100   |
| 6                 | 5360    | 5730   | 11800  | 8500       | 23200  | 12500      | 83600   | 29700    | 11500  | 6810   | 10200  | 8300   |
| 7                 | 5180    | 5530   | 12100  | 8300       | 22000  | 12300      | 74000   | 25500    | 10200  | 6300   | 9160   | 7120   |
| 8                 | 5390    | 5050   | 10600  | 8100       | 20000  | 12000      | 65600   | 24300    | 9450   | 6080   | 8310   | 7720   |
| 9                 | 5210    | 4960   | 10400  | 7850       | 18800  | 11800      | 57900   | 28200    | 9600   | 10100  | 8820   | 7460   |
| 10                | 5210    | 5910   | 9660   | 7600       | 17300  | 11600      | 51400   | 28000    | 9160   | 10200  | 18800  | 7650   |
| 11                | 4950    | 6340   | 12200  | 7200       | 16000  | 11800      | 46500   | 26700    | 7930   | 9110   | 38200  | 7880   |
| 12                | 4820    | 8460   | 14200  | 6950       | 14800  | 12000      | 41400   | 25000    | 7150   | 8050   | 40300  | 8160   |
| 13                | 5290    | 9260   | 11700  | 6820       | 13500  | 12200      | 36200   | 26000    | 7200   | 15400  | 34400  | 9230   |
| 14                | 6270    | 14800  | 9430   | 7000       | 12600  | 12000      | 32500   | 28100    | 7150   | 23700  | 30900  | 9700   |
| 15                | 7180    | 18500  | 10700  | 7300       | 12000  | 11700      | 30300   | 25200    | 7520   | 25100  | 29100  | 8910   |
| 16                | 7080    | 17300  | 10800  | 7800       | 11400  | 11000      | 28600   | 23500    | 7460   | 23200  | 30200  | 8910   |
| 17                | 6790    | 14300  | 8750   | 8400       | 10900  | 10700      | 30600   | 22300    | 7240   | 20700  | 30400  | 8440   |
| 18                | 6750    | 12700  | 7200   | 8700       | 10700  | 10300      | 37400   | 20500    | 7470   | 20100  | 27500  | 8240   |
| 19                | 7280    | 10700  | 7400   | 8600       | 10900  | 10200      | 43400   | 20200    | 7620   | 18600  | 23400  | 8410   |
| 20                | 8530    | 10100  | 8100   | 8050       | 11000  | 10600      | 46600   | 28800    | 7580   | 16200  | 16700  | 9080   |
| 21                | 9080    | 8790   | 9000   | 8100       | 11400  | 11000      | 47700   | 35600    | 7490   | 15000  | 14100  | 9470   |
| 22                | 9480    | 12600  | 9780   | 7800       | 12000  | 12200      | 46200   | 39300    | 7500   | 13900  | 13000  | 9110   |
| 23                | 9380    | 17300  | 10400  | 7600       | 12500  | 13800      | 45500   | 44300    | 7020   | 11200  | 13100  | 9000   |
| 24                | 8830    | 15800  | 10800  | 8100       | 13400  | 16000      | 45400   | 44600    | 6590   | 12600  | 12800  | 8470   |
| 25                | 8450    | 13800  | 10600  | 7800       | 14100  | 17500      | 41800   | 41400    | 6410   | 23400  | 11600  | 7990   |
| 26                | 7970    | 12700  | 10000  | 7400       | 14100  | 19000      | 38600   | 39100    | 6630   | 21300  | 10100  | 7740   |
| 27                | 7640    | 11600  | 9820   | 8000       | 14500  | 19500      | 39200   | 36100    | 6930   | 16900  | 9130   | 8420   |
| 28                | 7450    | 11000  | 11000  | 9200       | 15000  | 22000      | 42400   | 29200    | 6870   | 14700  | 8730   | 10200  |
| 29                | 7350    | 11000  | 13000  | 13000      | 15000  | 30700      | 41700   | 23300    | 6050   | 12900  | 8460   | 11600  |
| 30                | 7120    | 10800  | 13400  | 17800      | ---    | 35700      | 38800   | 19100    | 4570   | 12000  | 10500  | 11300  |
| 31                | 7040    | ---    | 12000  | 18700      | ---    | 37100      | ---     | 17400    | ---    | 11200  | 13700  | ---    |
| TOTAL             | 212730  | 307360 | 344340 | 277670     | 453400 | 476600     | 1515400 | 921100   | 267390 | 423770 | 541410 | 272110 |
| MEAN              | 6862    | 10250  | 11110  | 8957       | 15630  | 15370      | 50510   | 29710    | 8913   | 13670  | 17460  | 9070   |
| MAX               | 9480    | 18500  | 16600  | 18700      | 24700  | 37100      | 107000  | 44600    | 16600  | 25100  | 40300  | 12700  |
| MIN               | 4820    | 4960   | 7200   | 6820       | 10700  | 10200      | 28600   | 17400    | 4570   | 4710   | 8310   | 7120   |
| CAL YR 1975 TOTAL | 3923780 |        |        | MEAN 10750 |        | MAX 43900  |         | MIN 4190 |        |        |        |        |
| WTR YR 1976 TOTAL | 6013280 |        |        | MEAN 16430 |        | MAX 107000 |         | MIN 4570 |        |        |        |        |

WATER-QUALITY RECORDS

WATER TEMPERATURES: Maximum, 25.0°C June 23; minimum, 0.0°C on many days during winter periods.

## CHEMICAL ANALYSES, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

[illegible]



## CHEMICAL ANALYSES, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

[illegible]



01034500 PENOBSCOT RIVER AT WEST ENFIELD, ME--Continued

## CHEMICAL ANALYSES, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

| DATE      | TOTAL<br>SELE-<br>NIUM<br>(SE)<br>(UG/L) | SUS-<br>PENDE<br>SELE-<br>NIUM<br>(SE)<br>(UG/L) | DIS-<br>SOLVED<br>SELE-<br>NIUM<br>(SE)<br>(UG/L) | TOTAL<br>ZINC<br>(ZN)<br>(UG/L) | SUS-<br>PENDE<br>ZINC<br>(ZN)<br>(UG/L) | DIS-<br>SOLVED<br>ZINC<br>(ZN)<br>(UG/L) | TOTAL<br>ORGANIC<br>CARBON<br>(C)<br>(MG/L) | SUS-<br>PENDE<br>SEDI-<br>MENT<br>(MG/L) | SUS-<br>PENDE<br>SEDI-<br>MENT<br>DIS-<br>CHARGE<br>(T/DAY) |
|-----------|------------------------------------------|--------------------------------------------------|---------------------------------------------------|---------------------------------|-----------------------------------------|------------------------------------------|---------------------------------------------|------------------------------------------|-------------------------------------------------------------|
| OCT 21... | --                                       | --                                               | --                                                | --                              | --                                      | --                                       | --                                          | 9                                        | 222                                                         |
| NOV 20... | 0                                        | 0                                                | 0                                                 | 10                              | 0                                       | 10                                       | 14                                          | 5                                        | 139                                                         |
| DEC 23... | --                                       | --                                               | --                                                | --                              | --                                      | --                                       | --                                          | 4                                        | 112                                                         |
| JAN 21... | --                                       | --                                               | --                                                | --                              | --                                      | --                                       | --                                          | 5                                        | 109                                                         |
| FEB 24... | 0                                        | 0                                                | 0                                                 | 0                               | 0                                       | 10                                       | 13                                          | 8                                        | 289                                                         |
| MAR 24... | --                                       | --                                               | --                                                | --                              | --                                      | --                                       | --                                          | 7                                        | 302                                                         |
| APR 30... | --                                       | --                                               | --                                                | --                              | --                                      | --                                       | --                                          | 5                                        | 531                                                         |
| MAY 26... | 0                                        | 0                                                | 0                                                 | 10                              | 10                                      | 0                                        | 12                                          | 21                                       | 2160                                                        |
| JUL 08... | --                                       | --                                               | --                                                | --                              | --                                      | --                                       | --                                          | 11                                       | 312                                                         |
| JUL 29... | --                                       | --                                               | --                                                | --                              | --                                      | --                                       | --                                          | 10                                       | 337                                                         |
| AUG 31... | 0                                        | 0                                                | 0                                                 | 10                              | 0                                       | 10                                       | 11                                          | 2                                        | 71                                                          |
| SEP 27... | --                                       | --                                               | --                                                | --                              | --                                      | --                                       | --                                          | 3                                        | 67                                                          |

## RADIOCHEMICAL ANALYSES, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

| DATE      | DIS-<br>SOLVED<br>GROSS<br>ALPHA<br>AS<br>U-NAT.<br>(UG/L) | SUS-<br>PENDE<br>GROSS<br>ALPHA<br>AS<br>U-NAT.<br>(UG/L) | DIS-<br>SOLVED<br>GROSS<br>BETA<br>AS<br>CS-137<br>(PC/L) | SUS-<br>PENDE<br>GROSS<br>BETA<br>AS<br>CS-137<br>(PC/L) | DIS-<br>SOLVED<br>GROSS<br>BETA<br>AS<br>SK90<br>/Y90<br>(PC/L) | SUS-<br>PENDE<br>GROSS<br>BETA<br>AS<br>SK90<br>/Y90<br>(PC/L) | DIS-<br>SOLVED<br>RA-226<br>(RADON<br>METHOD)<br>(PC/L) | DIS-<br>SOLVED<br>URANIUM<br>(U)<br>(UG/L) | TOTAL<br>FILT-<br>RABLE<br>RESIDUE<br>(MG/L) | TOTAL<br>NON-<br>FILT-<br>RABLE<br>RESIDUE<br>(MG/L) |
|-----------|------------------------------------------------------------|-----------------------------------------------------------|-----------------------------------------------------------|----------------------------------------------------------|-----------------------------------------------------------------|----------------------------------------------------------------|---------------------------------------------------------|--------------------------------------------|----------------------------------------------|------------------------------------------------------|
| NOV 20... | <.6                                                        | <.4                                                       | 2.7                                                       | .4                                                       | 2.1                                                             | .4                                                             | <.01                                                    | .05                                        | 57                                           | 2                                                    |
| APR 30... | <.4                                                        | <.4                                                       | 1.6                                                       | <.4                                                      | 1.3                                                             | <.4                                                            | .02                                                     | .03                                        | 38                                           | 2                                                    |

## QUALITATIVE AND ASSOCIATED QUANTITATIVE ANALYSES OF BIOLOGICAL DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

## PHYTOPLANKTON

| DATE   | TIME | ORGANISM              | COUNT<br>(CELLS/ML) | PERCENT<br>OF TOTAL | SAMPLING<br>METHOD |
|--------|------|-----------------------|---------------------|---------------------|--------------------|
| Oct 21 | 1100 | CHLOROPHYTA           |                     |                     | DEPTH INTEGRATED   |
|        |      | ..CHLOROPHYCEAE       |                     |                     |                    |
|        |      | ...CHLOROCOCCALES     |                     |                     |                    |
|        |      | ...SCENEDESMACEAE     |                     |                     |                    |
|        |      | ....SCENEDESMUS       |                     |                     |                    |
|        |      | ...VOLVOCALES         |                     |                     |                    |
|        |      | ...VOLVOCAEAE         |                     |                     |                    |
|        |      | ...PANDORINA          |                     |                     |                    |
|        |      | CHRYSOPHYTA           |                     |                     |                    |
|        |      | ..BACILLARIOPHYCEAE   |                     |                     |                    |
|        |      | ..CENTRALES           |                     |                     |                    |
|        |      | ...COSCINODISCACEAE   |                     |                     |                    |
|        |      | ...CYCLOTELLA         |                     |                     |                    |
|        |      | ...MELOSTRA           | 55                  | 25                  |                    |
|        |      | ...PENNALS            |                     |                     |                    |
|        |      | ...ACHNANTHACEAE      |                     |                     |                    |
|        |      | ...ACHNANTHES         | 55                  | 25                  |                    |
|        |      | ...CYMBELLACEAE       |                     |                     |                    |
|        |      | ...CYMBELLA           |                     |                     |                    |
|        |      | ...RHODALONIA         | 13                  | 6                   |                    |
|        |      | ...FRAGILARIACEAE     |                     |                     |                    |
|        |      | ...ASTERIONELLA       | 13                  | 6                   |                    |
|        |      | ...SYNEDRA            |                     |                     |                    |
|        |      | ...GOMPHONEMACEAE     |                     |                     |                    |
|        |      | ...GOMPHONEMA         | 13                  | 6                   |                    |
|        |      | ...NAVICULACEAE       |                     |                     |                    |
|        |      | ...FRUSTULIA          |                     |                     |                    |
|        |      | ...NAVICULA           | 13                  | 6                   |                    |
|        |      | ...NITZSCHACEAE       |                     |                     |                    |
|        |      | ...NITZSCHIA          | 41                  | 19                  |                    |
|        |      | ...TABELLARIACEAE     |                     |                     |                    |
|        |      | ...TABELLARIA         | 13                  | 6                   |                    |
|        |      | ..CHRYSOPHYCEAE       |                     |                     |                    |
|        |      | ...CHRYSOMONADALS     |                     |                     |                    |
|        |      | ...OCHROMONADACEAE    |                     |                     |                    |
|        |      | ...DINORRYON          |                     |                     |                    |
|        |      | TOTAL                 | 220                 |                     |                    |
| Nov 20 | 1030 | CHLOROPHYTA           |                     |                     | DEPTH INTEGRATED   |
|        |      | ..CHLOROPHYCEAE       |                     |                     |                    |
|        |      | ...CHLOROCOCCALES     |                     |                     |                    |
|        |      | ...OCCYSTACEAE        |                     |                     |                    |
|        |      | ...ANKISTRODESMUS     | 11                  | 5                   |                    |
|        |      | ...VOLVOCALES         |                     |                     |                    |
|        |      | ...CHLAMYDOMONADACEAE |                     |                     |                    |
|        |      | ...CHLAMYDOMONAS      | 6                   | 2                   |                    |
|        |      | CHRYSOPHYTA           |                     |                     |                    |
|        |      | ..BACILLARIOPHYCEAE   |                     |                     |                    |
|        |      | ..CENTRALES           |                     |                     |                    |
|        |      | ...COSCINODISCACEAE   |                     |                     |                    |
|        |      | ...CYCLOTELLA         | 17                  | 7                   |                    |
|        |      | ...PENNALS            |                     |                     |                    |
|        |      | ...ACHNANTHACEAE      |                     |                     |                    |
|        |      | ...ACHNANTHES         | 11                  | 5                   |                    |
|        |      | ...FUNOTIACEAE        |                     |                     |                    |
|        |      | ...FUNOTIA            |                     | 0                   |                    |
|        |      | ...FRAGILARIACEAE     |                     |                     |                    |
|        |      | ...ASTERIONELLA       | 22                  | 10                  |                    |
|        |      | ...SYNEDRA            | 6                   | 2                   |                    |
|        |      | ...MERIDIIONACEAE     |                     |                     |                    |
|        |      | ...MERIDIION          | 6                   | 2                   |                    |
|        |      | ...NAVICULACEAE       |                     |                     |                    |
|        |      | ...FRUSTULIA          | 6                   | 2                   |                    |
|        |      | ...NAVICULA           | 17                  | 7                   |                    |
|        |      | ...PINNULARIA         |                     |                     |                    |
|        |      | ...STAUROMEDUS        | 6                   | 2                   |                    |
|        |      | ...NITZSCHACEAE       |                     |                     |                    |
|        |      | ...NITZSCHIA          | 44                  | 20                  |                    |
|        |      | ...TABELLARIACEAE     |                     |                     |                    |
|        |      | ...TABELLARIA         |                     |                     |                    |
|        |      | ..CHRYSOPHYCEAE       |                     |                     |                    |
|        |      | ...CHRYSOMONADALS     |                     |                     |                    |
|        |      | ...OCHROMONADACEAE    |                     |                     |                    |
|        |      | ...DINORRYON          | 28                  | 12                  |                    |
|        |      | CYANOPHYTA            |                     |                     |                    |
|        |      | ..MYXOPHYCEAE         |                     |                     |                    |
|        |      | ...CHROOCOCCALES      |                     |                     |                    |
|        |      | ...CHROOCOCCACEAE     |                     |                     |                    |
|        |      | ...ANACYSTIS          | 44                  | 20                  |                    |
|        |      | ...GOMPHOSPHAERIA     |                     |                     |                    |
|        |      | PYRRHOPHYTA           |                     |                     |                    |
|        |      | ..DINOPHYCEAE         |                     |                     |                    |
|        |      | ...PERIDINIALES       |                     |                     |                    |
|        |      | ...PERIDINIAEAE       |                     |                     |                    |
|        |      | ...PERIDINIUM         |                     |                     |                    |
|        |      | TOTAL                 | 220                 |                     |                    |

QUALITATIVE AND ASSOCIATED QUANTITATIVE ANALYSES OF BIOLOGICAL DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

| DATE   | TIME | ORGANISM               | COUNT<br>(CELLS/ML) | PERCENT<br>OF TOTAL | SAMPLING<br>METHOD |
|--------|------|------------------------|---------------------|---------------------|--------------------|
| Dec 23 | 1100 | CHRYSTOPHYTA           |                     |                     | DEPTH INTEGRATED   |
|        |      | .BACILLARIOPHYCEAE     |                     |                     |                    |
|        |      | ..CENTRALES            |                     |                     |                    |
|        |      | ...COSCINODISCACEAE    |                     |                     |                    |
|        |      | ....MELOSIRA           |                     |                     |                    |
|        |      | ..PENNALES             |                     |                     |                    |
|        |      | ...FRAGILARIACEAE      |                     |                     |                    |
|        |      | ....ASTERIONELLA       | 29                  | 9                   |                    |
|        |      | ...NAVICULACEAE        |                     |                     |                    |
|        |      | ....NAVICULA           | 6                   | 2                   |                    |
|        |      | ...NITZSCHACEAE        |                     |                     |                    |
|        |      | ....NITZSCHIA          | 17                  | 6                   |                    |
|        |      | CYANOPHYTA             |                     |                     |                    |
|        |      | .MYXOPHYCEAE           |                     |                     |                    |
|        |      | ..CHROOCOCCALES        |                     |                     |                    |
|        |      | ...CHROOCOCCACEAE      |                     |                     |                    |
|        |      | ....ANACYSTIS          |                     |                     |                    |
|        |      | .....ANACYSTIS INCERTA | 230                 | 75                  |                    |
|        |      | ....ANACYSTIS          |                     |                     |                    |
|        |      | ..OSCILLATORIALES      |                     |                     |                    |
|        |      | ...OSCILLATORACEAE     |                     |                     |                    |
|        |      | ....OSCILLATORIA       | 23                  | 8                   |                    |
|        |      | TOTAL                  | 310                 |                     |                    |
| Jan 21 | 1100 | CHRYSTOPHYTA           |                     |                     | DEPTH INTEGRATED   |
|        |      | .BACILLARIOPHYCEAE     |                     |                     |                    |
|        |      | ..PENNALES             |                     |                     |                    |
|        |      | ...DIATOMACEAE         |                     |                     |                    |
|        |      | ....DIATOMA            |                     |                     |                    |
|        |      | ...FRAGILARIACEAE      |                     |                     |                    |
|        |      | ....ASTERIONELLA       |                     |                     |                    |
|        |      | ...SYNEDRA             | 35                  | 1                   |                    |
|        |      | ...NAVICULACEAE        |                     |                     |                    |
|        |      | ....NAVICULA           |                     |                     |                    |
|        |      | CYANOPHYTA             |                     |                     |                    |
|        |      | .MYXOPHYCEAE           |                     |                     |                    |
|        |      | ..OSCILLATORIALES      |                     |                     |                    |
|        |      | ...OSCILLATORACEAE     |                     |                     |                    |
|        |      | ....LYNGBYA            | 3200                | 99                  |                    |
|        |      | TOTAL                  | 3200                |                     |                    |
| Feb 24 | 1200 | CHLOROPHYTA            |                     |                     | DEPTH INTEGRATED   |
|        |      | .CHLOROPHYCEAE         |                     |                     |                    |
|        |      | ..CHLOROCOCCALES       |                     |                     |                    |
|        |      | ...SCENEDESMACEAE      |                     |                     |                    |
|        |      | ....SCENEDESMUS        |                     |                     |                    |
|        |      | CHRYSTOPHYTA           |                     |                     |                    |
|        |      | .BACILLARIOPHYCEAE     |                     |                     |                    |
|        |      | ..PENNALES             |                     |                     |                    |
|        |      | ...FRAGILARIACEAE      |                     |                     |                    |
|        |      | ....ASTERIONELLA       |                     |                     |                    |
|        |      | ...SYNEDRA             |                     |                     |                    |
|        |      | ...NITZSCHACEAE        |                     |                     |                    |
|        |      | ....NITZSCHIA          |                     |                     |                    |
|        |      | CYANOPHYTA             |                     |                     |                    |
|        |      | .MYXOPHYCEAE           |                     |                     |                    |
|        |      | ..OSCILLATORIALES      |                     |                     |                    |
|        |      | ...OSCILLATORACEAE     |                     |                     |                    |
|        |      | ....LYNGBYA            |                     |                     |                    |
|        |      | ...OSCILLATORIA        | 110000              | 100                 |                    |
|        |      | TOTAL                  | 110000              |                     |                    |

## QUALITATIVE AND ASSOCIATED QUANTITATIVE ANALYSES OF BIOLOGICAL DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

## PHYTOPLANKTON

| DATE   | TIME | ORGANISM              | COUNT<br>(CELLS/ML) | PERCENT<br>OF TOTAL | SAMPLING<br>METHOD |
|--------|------|-----------------------|---------------------|---------------------|--------------------|
| Mar 24 | 1200 | CHLOROPHYTA           |                     |                     | DEPTH INTEGRATED   |
|        |      | ..CHLOROPHYCEAE       |                     |                     |                    |
|        |      | ..CHLOROCOCCALES      |                     |                     |                    |
|        |      | ...OCCYSTACEAE        |                     |                     |                    |
|        |      | ....DICTYOSPHAERIUM   | 230                 | 17                  |                    |
|        |      | CHRYSTOPHYTA          |                     |                     |                    |
|        |      | ..BACILLARIOPHYCEAE   |                     |                     |                    |
|        |      | ..CENTRALES           |                     |                     |                    |
|        |      | ...COSCINODISCACEAE   |                     |                     |                    |
|        |      | ....CYCLOTELLA        | 12                  | 1                   |                    |
|        |      | ....MELOSIRA          | 47                  | 3                   |                    |
|        |      | ..PENNALES            |                     |                     |                    |
|        |      | ...ACHNANTHACEAE      |                     |                     |                    |
|        |      | ....ACHNANTHES        | 23                  | 2                   |                    |
|        |      | ...CYMBELLACEAE       |                     |                     |                    |
|        |      | ....AMPHORA           | 12                  | 1                   |                    |
|        |      | ...DIATOMACEAE        |                     |                     |                    |
|        |      | ....DIATOMA           | 120                 | 8                   |                    |
|        |      | ...FRAGILARIACEAE     |                     |                     |                    |
|        |      | ....ASTERIONELLA      |                     |                     |                    |
|        |      | ....HANNAEA           | 12                  | 1                   |                    |
|        |      | ...GOMPHONEMACEAE     |                     |                     |                    |
|        |      | ....GOMPHONEMA        | 23                  | 2                   |                    |
|        |      | ...NAVICULACEAE       |                     |                     |                    |
|        |      | ....NAVICULA          | 23                  | 2                   |                    |
|        |      | ...NITZSCHACEAE       |                     |                     |                    |
|        |      | ....NITZSCHIA         | 23                  | 2                   |                    |
|        |      | ...TABELLARIACEAE     |                     |                     |                    |
|        |      | ....TABELLARIA        | 93                  | 7                   |                    |
|        |      | CYANOPHYTA            |                     |                     |                    |
|        |      | ..MYXOPHYCEAE         |                     |                     |                    |
|        |      | ..OSCILLATORIALES     |                     |                     |                    |
|        |      | ...OSCILLATORIAEAE    |                     |                     |                    |
|        |      | ....LYNGBYA           | 580                 | 41                  |                    |
|        |      | ....OSCILLATORIA      | 210                 | 15                  |                    |
|        |      | TOTAL                 | 1400                |                     |                    |
| Apr 30 | 1030 | CHLOROPHYTA           |                     |                     | DEPTH INTEGRATED   |
|        |      | ..CHLOROPHYCEAE       |                     |                     |                    |
|        |      | ..CHLOROCOCCALES      |                     |                     |                    |
|        |      | ...OCCYSTACEAE        |                     |                     |                    |
|        |      | ....TROCHISCA         | 4                   | 4                   |                    |
|        |      | ...VOLVOCALES         |                     |                     |                    |
|        |      | ...CHLAMYDOMONADACEAE |                     |                     |                    |
|        |      | ....CHLAMYDOMONAS     | 4                   | 4                   |                    |
|        |      | CHRYSTOPHYTA          |                     |                     |                    |
|        |      | ..BACILLARIOPHYCEAE   |                     |                     |                    |
|        |      | ..CENTRALES           |                     |                     |                    |
|        |      | ...COSCINODISCACEAE   |                     |                     |                    |
|        |      | ....CYCLOTELLA        | 4                   | 4                   |                    |
|        |      | ..PENNALES            |                     |                     |                    |
|        |      | ...ACHNANTHACEAE      |                     |                     |                    |
|        |      | ....ACHNANTHES        | 15                  | 14                  |                    |
|        |      | ...CYMBELLACEAE       |                     |                     |                    |
|        |      | ....CYMBELLA          | 4                   | 4                   |                    |
|        |      | ...EUNOTIACEAE        |                     |                     |                    |
|        |      | ....EUNOTIA           |                     |                     |                    |
|        |      | ...FRAGILARIACEAE     |                     |                     |                    |
|        |      | ....HANNAEA           | 4                   | 4                   |                    |
|        |      | ....SYNEDRA           | 4                   | 4                   |                    |
|        |      | ...MERIDIONACEAE      |                     |                     |                    |
|        |      | ....MERIDION          | 7                   | 7                   |                    |
|        |      | ...NAVICULACEAE       |                     |                     |                    |
|        |      | ....FRUSTULIA         | 4                   | 4                   |                    |
|        |      | ...NITZSCHACEAE       |                     |                     |                    |
|        |      | ....NITZSCHIA         | 15                  | 14                  |                    |
|        |      | ...TABELLARIACEAE     |                     |                     |                    |
|        |      | ....TABELLARIA        | 4                   | 4                   |                    |
|        |      | CYANOPHYTA            |                     |                     |                    |
|        |      | ..MYXOPHYCEAE         |                     |                     |                    |
|        |      | ..OSCILLATORIALES     |                     |                     |                    |
|        |      | ...OSCILLATORIAEAE    |                     |                     |                    |
|        |      | ....OSCILLATORIA      | 37                  | 36                  |                    |
|        |      | TOTAL                 | 110                 |                     |                    |

01034500 PENOBSCOT RIVER AT WEST ENFIELD, ME--Continued

QUALITATIVE AND ASSOCIATED QUANTITATIVE ANALYSES OF BIOLOGICAL DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

## PHYTOPLANKTON

| DATE   | TIME | ORGANISM              | COUNT<br>(CELLS/ML) | PERCENT<br>OF TOTAL | SAMPLING<br>METHOD |
|--------|------|-----------------------|---------------------|---------------------|--------------------|
| May 26 | 1400 | CHLOROPHYTA           |                     |                     | DEPTH INTEGRATED   |
|        |      | ..CHLOROPHYCEAE       |                     |                     |                    |
|        |      | ..CHLOCOCCALES        |                     |                     |                    |
|        |      | ...HYDRODICTYACEAE    |                     |                     |                    |
|        |      | ....PEDIASTRUM        |                     |                     |                    |
|        |      | ...OCCYSTACEAE        |                     |                     |                    |
|        |      | ....ANKISTRODESMUS    | 47                  | 6                   |                    |
|        |      | ..VOLVOCALES          |                     |                     |                    |
|        |      | ...CHLAMYDOMONADACEAE |                     |                     |                    |
|        |      | ....CHLAMYDOMONAS     | 19                  | 2                   |                    |
|        |      | CHRYSTOPHYTA          |                     |                     |                    |
|        |      | ..RACILLARIOPHYCEAE   |                     |                     |                    |
|        |      | ..CENTRALES           |                     |                     |                    |
|        |      | ...COSCINODISCEACEAE  |                     |                     |                    |
|        |      | ....CYCLOTELLA        | 33                  | 4                   |                    |
|        |      | ....MELOSIRA          | 66                  | 8                   |                    |
|        |      | ..PENNALES            |                     |                     |                    |
|        |      | ...ACHNANTHACEAE      |                     |                     |                    |
|        |      | ....ACHNANTHES        | 47                  | 6                   |                    |
|        |      | ...CYMBELLACEAE       |                     |                     |                    |
|        |      | ....CYMBELLA          | 5                   | 1                   |                    |
|        |      | ...DIATOMACEAE        |                     |                     |                    |
|        |      | ....DIATOMA           | 14                  | 2                   |                    |
|        |      | ...FUNOTIACEAE        |                     |                     |                    |
|        |      | ....FUNOTIA           | 9                   | 1                   |                    |
|        |      | ...FRAGILARIACEAE     |                     |                     |                    |
|        |      | ....SYNEDRA           | 14                  | 2                   |                    |
|        |      | ...GOMPHONEMACEAE     |                     |                     |                    |
|        |      | ....GOMPHONEMA        | 5                   | 1                   |                    |
|        |      | ...NAVICULACEAE       |                     |                     |                    |
|        |      | ....NAVICULA          | 28                  | 4                   |                    |
|        |      | ...NITZSCHACEAE       |                     |                     |                    |
|        |      | ....NITZSCHIA         | 33                  | 4                   |                    |
|        |      | ...TABELLARIACEAE     |                     |                     |                    |
|        |      | ....TABELLARIA        | 5                   | 1                   |                    |
|        |      | ..CHRYSTOPHYCEAE      |                     |                     |                    |
|        |      | ..CHRYSOMONADALES     |                     |                     |                    |
|        |      | ...OCHROMONADACEAE    |                     |                     |                    |
|        |      | ....DINOBRYON         | 14                  | 2                   |                    |
|        |      | CYANOPHYTA            |                     |                     |                    |
|        |      | ..MYXOPHYCEAE         |                     |                     |                    |
|        |      | ..CHROOCOCCALES       |                     |                     |                    |
|        |      | ...CHROOCOCCACEAE     |                     |                     |                    |
|        |      | ....ANACYSTIS         | 260                 | 33                  |                    |
|        |      | ...OSCILLATORIALES    |                     |                     |                    |
|        |      | ...OSCILLATORIA       |                     |                     |                    |
|        |      | ....OSCILLATORIA      | 190                 | 24                  |                    |
|        |      | EUGLENOPHYTA          |                     |                     |                    |
|        |      | ..EUGLENOPHYCEAE      |                     |                     |                    |
|        |      | ..EUGLENALES          |                     |                     |                    |
|        |      | ...EUGLENACEAE        |                     |                     |                    |
|        |      | ....TRACHELOMONAS     | 9                   | 1                   |                    |
|        |      | TOTAL                 | 800                 |                     |                    |

## QUALITATIVE AND ASSOCIATED QUANTITATIVE ANALYSES OF BIOLOGICAL DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

## PHYTOPLANKTON

| DATE   | TIME | ORGANISM              | COUNT<br>(CELLS/ML) | PERCENT<br>OF TOTAL | SAMPLING<br>METHOD |
|--------|------|-----------------------|---------------------|---------------------|--------------------|
| Jul 08 | 1430 | CHLOROPHYTA           |                     |                     | DEPTH INTEGRATED   |
|        |      | ..CHLOROPHYCEAE       |                     |                     |                    |
|        |      | ...CHLOROCOCCALES     |                     |                     |                    |
|        |      | ...HYDRODICTYACEAE    | 150                 | 7                   |                    |
|        |      | ....PEDIASTRUM        |                     |                     |                    |
|        |      | ...OCCYSTACEAE        | 430                 | 20                  |                    |
|        |      | ....ANKISTRODESMUS    |                     |                     |                    |
|        |      | ....DICTYOSPHAERIUM   | 18                  | 1                   |                    |
|        |      | ....KIRCHNERIELLA     | 37                  | 2                   |                    |
|        |      | ....TETRAEDRON        |                     |                     |                    |
|        |      | ...SCENEDESMACEAE     | 74                  | 4                   |                    |
|        |      | ....CRUCIGENIA        | 300                 | 14                  |                    |
|        |      | ...SCENEDESMUS        | 150                 | 7                   |                    |
|        |      | ....TETRASTRUM        |                     |                     |                    |
|        |      | CHRYSPHYTA            |                     |                     |                    |
|        |      | ..BACILLARIOPHYCEAE   |                     |                     |                    |
|        |      | ...CENTRALES          |                     |                     |                    |
|        |      | ...COSCINODISCACEAE   | 92                  | 4                   |                    |
|        |      | ....CYCLOTELLA        | 240                 | 11                  |                    |
|        |      | ....MELOSIRA          |                     |                     |                    |
|        |      | ...PENNALES           |                     |                     |                    |
|        |      | ...ACHNANTHACEAE      | 74                  | 4                   |                    |
|        |      | ....ACHNANTHES        | 18                  | 1                   |                    |
|        |      | ...COCCONEIS          |                     |                     |                    |
|        |      | ...GOMPHONEMACEAE     | 18                  | 1                   |                    |
|        |      | ....GOMPHONEMA        |                     |                     |                    |
|        |      | ...NAVICULACEAE       | 18                  | 1                   |                    |
|        |      | ....FRUSTULIA         |                     |                     |                    |
|        |      | ...NITZSCHIACEAE      | 110                 | 5                   |                    |
|        |      | ....NITZSCHIA         |                     |                     |                    |
|        |      | ...TABELLARIACEAE     | 130                 | 6                   |                    |
|        |      | ....TABELLARIA        |                     |                     |                    |
|        |      | CYANOPHYTA            |                     |                     |                    |
|        |      | ..MYXOPHYCEAE         |                     |                     |                    |
|        |      | ...CHROOCOCCALES      |                     |                     |                    |
|        |      | ...CHROOCOCCACEAE     |                     |                     |                    |
|        |      | ....AGMENELLUM        | 92                  | 4                   |                    |
|        |      | ....ANACYSTIS         |                     |                     |                    |
|        |      | ...OSCILLATORIALES    |                     |                     |                    |
|        |      | ...OSCILLATORIAEAE    | 150                 | 7                   |                    |
|        |      | ....LYNGBYA           | 18                  | 1                   |                    |
|        |      | ....SPIRULINA         |                     |                     |                    |
|        |      | TOTAL                 | 2100                |                     |                    |
| Jul 29 | 1600 | CHLOROPHYTA           |                     |                     | DEPTH INTEGRATED   |
|        |      | ..CHLOROPHYCEAE       |                     |                     |                    |
|        |      | ...CHLOROCOCCALES     |                     |                     |                    |
|        |      | ...OCCYSTACEAE        |                     |                     |                    |
|        |      | ....ANKISTRODESMUS    | 32                  | 6                   |                    |
|        |      | ....SELENASTRUM       | 4                   | 1                   |                    |
|        |      | ...VOLVOCALES         |                     |                     |                    |
|        |      | ...CHLAMYDOMONADACEAE |                     |                     |                    |
|        |      | ....CHLAMYDOMONAS     | 4                   | 1                   |                    |
|        |      | CHRYSPHYTA            |                     |                     |                    |
|        |      | ..BACILLARIOPHYCEAE   |                     |                     |                    |
|        |      | ...CENTRALES          |                     |                     |                    |
|        |      | ...COSCINODISCACEAE   |                     |                     |                    |
|        |      | ....CYCLOTELLA        | 8                   | 2                   |                    |
|        |      | ...PENNALES           |                     |                     |                    |
|        |      | ...ACHNANTHACEAE      |                     |                     |                    |
|        |      | ....COCCONEIS         | 4                   | 1                   |                    |
|        |      | ...FRAGILARIACEAE     |                     |                     |                    |
|        |      | ....SYNEDRA           | 4                   | 1                   |                    |
|        |      | ...GOMPHONEMACEAE     |                     |                     |                    |
|        |      | ....GOMPHONEMA        | 4                   | 1                   |                    |
|        |      | ...MERIDIONACEAE      |                     |                     |                    |
|        |      | ....MERIDION          |                     |                     |                    |
|        |      | ...NAVICULACEAE       |                     |                     |                    |
|        |      | ....NAVICULA          | 4                   | 1                   |                    |
|        |      | ...NITZSCHIACEAE      |                     |                     |                    |
|        |      | ....NITZSCHIA         |                     |                     |                    |
|        |      | ...TABELLARIACEAE     |                     |                     |                    |
|        |      | ....TABELLARIA        | 20                  | 4                   |                    |
|        |      | CYANOPHYTA            |                     |                     |                    |
|        |      | ..MYXOPHYCEAE         |                     |                     |                    |
|        |      | ...CHROOCOCCALES      |                     |                     |                    |
|        |      | ...CHROOCOCCACEAE     |                     |                     |                    |
|        |      | ....ANACYSTIS         | 310                 | 62                  |                    |
|        |      | ...OSCILLATORIALES    |                     |                     |                    |
|        |      | ...OSCILLATORIAEAE    |                     |                     |                    |
|        |      | ....OSCILLATORIA      | 100                 | 20                  |                    |
|        |      | EUGLENOPHYTA          |                     |                     |                    |
|        |      | ..EUGLENOPHYCEAE      |                     |                     |                    |
|        |      | ...EUGLENALES         |                     |                     |                    |
|        |      | ...EUGLENACEAE        |                     |                     |                    |
|        |      | ....TRACHELOMONAS     | 8                   | 2                   |                    |
|        |      | TOTAL                 | 500                 |                     |                    |



01034500 PENOBSCOT RIVER AT WEST ENFIELD, ME--Continued

## QUALITATIVE AND ASSOCIATED QUANTITATIVE ANALYSES OF BIOLOGICAL DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

## PHYTOPLANKTON

| DATE   | TIME | ORGANISM               | COUNT<br>(CELLS/ML) | PERCENT<br>OF TOTAL | SAMPLING<br>METHOD |
|--------|------|------------------------|---------------------|---------------------|--------------------|
| Aug 31 | 0900 | CHLOROPHYTA            |                     |                     | DEPTH INTEGRATED   |
|        |      | ..CHLOROPHYCEAE        |                     |                     |                    |
|        |      | ...CHLOPCCOCCALES      |                     |                     |                    |
|        |      | ...OCCYSTACEAE         |                     |                     |                    |
|        |      | ....ANKISTRODESMUS     | 9                   | 2                   |                    |
|        |      | ....OOCYSTIS           | 29                  | 5                   |                    |
|        |      | ....TETRAEDRON         | 6                   | 1                   |                    |
|        |      | ...SCENEDESMACEAE      |                     |                     |                    |
|        |      | ...CRUCIGENIA          | 58                  | 11                  |                    |
|        |      | ...SCENEDESMUS         | 12                  | 2                   |                    |
|        |      | ..VOLVOCALES           |                     |                     |                    |
|        |      | ...CHLAMYDOMONADACEAE  |                     |                     |                    |
|        |      | ...CHLAMYDOMONAS       | 3                   | 1                   |                    |
|        |      | CHRYSOPHYTA            |                     |                     |                    |
|        |      | ..BACILLARIOPHYCEAE    |                     |                     |                    |
|        |      | ..CENTRALES            |                     |                     |                    |
|        |      | ...COSCINODISCEACEAE   |                     |                     |                    |
|        |      | ...CYCLOTELLA          | 18                  | 3                   |                    |
|        |      | ..PENNALES             |                     |                     |                    |
|        |      | ...ACHNANTHACEAE       |                     |                     |                    |
|        |      | ...ACHNANTHES          | 3                   | 1                   |                    |
|        |      | ...COCconeIS           | 9                   | 2                   |                    |
|        |      | ...CYMBELLACEAE        |                     |                     |                    |
|        |      | ...CYMBELLA            | 3                   | 1                   |                    |
|        |      | ...FRAGILARIACEAE      |                     |                     |                    |
|        |      | ...SYNEDRA             | 6                   | 1                   |                    |
|        |      | ...GOMPHONEMACEAE      |                     |                     |                    |
|        |      | ...GOMPHONEMA          | 9                   | 2                   |                    |
|        |      | ...NAVICULACEAE        |                     |                     |                    |
|        |      | ...NAVICULA            | 9                   | 2                   |                    |
|        |      | ...PINNULARIA          | 6                   | 1                   |                    |
|        |      | ...TABELLARIACEAE      |                     |                     |                    |
|        |      | ...TABELLARIA          | 3                   | 1                   |                    |
|        |      | ..CHRYSOPHYCEAE        |                     |                     |                    |
|        |      | ...CHRYSOMONADALES     |                     |                     |                    |
|        |      | ...OCHROMONADACEAE     |                     |                     |                    |
|        |      | ...DINOBRYON           | 3                   | 1                   |                    |
|        |      | CYANOPHYTA             |                     |                     |                    |
|        |      | ..MYXOPHYCEAE          |                     |                     |                    |
|        |      | ...CHROOCOCCALES       |                     |                     |                    |
|        |      | ...CHROOCOCCACEAE      |                     |                     |                    |
|        |      | ....ANACYSTIS          |                     |                     |                    |
|        |      | .....ANACYSTIS INCERTA | 140                 | 26                  |                    |
|        |      | .....ANACYSTIS         | 12                  | 2                   |                    |
|        |      | ...OSCILLATORIALES     |                     |                     |                    |
|        |      | ...OSCILLATORIA        |                     |                     |                    |
|        |      | ...OSCILLATORIA        | 180                 | 34                  |                    |
|        |      | EUGLENOPHYTA           |                     |                     |                    |
|        |      | ..EUGLENOPHYCEAE       |                     |                     |                    |
|        |      | ...EUGLENALES          |                     |                     |                    |
|        |      | ...EUGLENACEAE         |                     |                     |                    |
|        |      | ...TRACHELOMONAS       | 20                  | 4                   |                    |
|        |      | TOTAL                  | 540                 |                     |                    |

01034500 PENOBSCOT RIVER AT WEST ENFIELD, ME--Continued

## QUALITATIVE AND ASSOCIATED QUANTITATIVE ANALYSES OF BIOLOGICAL DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

## PHYTOPLANKTON

| DATE   | TIME | ORGANISM            | COUNT<br>(CELLS/ML) | PERCENT<br>OF TOTAL | SAMPLING<br>METHOD |
|--------|------|---------------------|---------------------|---------------------|--------------------|
| Sep 27 | 1300 | CHLOROPHYTA         |                     |                     | DEPTH INTEGRATED   |
|        |      | ..CHLOROPHYCEAE     |                     |                     |                    |
|        |      | ...CHLOROCOCCALES   |                     |                     |                    |
|        |      | ...OCCYSTACEAE      |                     |                     |                    |
|        |      | ....ANKISTRODESMUS  | 48                  | 3                   |                    |
|        |      | ....QUADRIGULA      | 260                 | 14                  |                    |
|        |      | ....TETRAEDRON      | 16                  | 1                   |                    |
|        |      | CHRYSTOPHYTA        |                     |                     |                    |
|        |      | ..BACILLARIOPHYCEAE |                     |                     |                    |
|        |      | ..CENTRALES         |                     |                     |                    |
|        |      | ...COSCINOIDISCEAE  |                     |                     |                    |
|        |      | ....CYCLOTELLA      | 16                  | 1                   |                    |
|        |      | ....MELOSIRA        | 130                 | 7                   |                    |
|        |      | ..PENNALES          |                     |                     |                    |
|        |      | ...ACHNANTHACEAE    |                     |                     |                    |
|        |      | ....ACHNANTHES      | 32                  | 2                   |                    |
|        |      | ...NAVICULACEAE     |                     |                     |                    |
|        |      | ....NAVICULA        | 16                  | 1                   |                    |
|        |      | ...TARELLARIACEAE   |                     |                     |                    |
|        |      | ....TARELLARIA      | 16                  | 1                   |                    |
|        |      | ..CHRYSTOPHYCEAE    |                     |                     |                    |
|        |      | ...CHRYSONOMADALES  |                     |                     |                    |
|        |      | ...OCHROMONADACEAE  |                     |                     |                    |
|        |      | ....DINOBYRON       | 32                  | 2                   |                    |
|        |      | CYANOPHYTA          |                     |                     |                    |
|        |      | ..MYXOPHYCEAE       |                     |                     |                    |
|        |      | ...CHROOCOCCALES    |                     |                     |                    |
|        |      | ...CHROOCOCCACEAE   |                     |                     |                    |
|        |      | ...GOMPHOSPHAERIA   | 1300                | 70                  |                    |
|        |      | EUGLENOPHYTA        |                     |                     |                    |
|        |      | ..EUGLENOPHYCEAE    |                     |                     |                    |
|        |      | ...EUGLENALES       |                     |                     |                    |
|        |      | ...EUGLENACEAE      |                     |                     |                    |
|        |      | ...TRACHELOMONAS    |                     |                     |                    |
|        |      | TOTAL               | 1900                |                     |                    |

## QUALITATIVE AND QUANTITATIVE ANALYSES OF BIOLOGICAL DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

## PERIPHYTON

| DATE   | LENGTH OF<br>EXPOSURE<br>(DAYS) | BIOMASS(G/SQ M) |     | CHLOROPHYLL<br>A<br>(MG/SQ M) | CHLOROPHYLL<br>B<br>(MG/SQ M) | BIOMASS<br>PIGMENT<br>RATIO | SAMPLING<br>METHOD   |
|--------|---------------------------------|-----------------|-----|-------------------------------|-------------------------------|-----------------------------|----------------------|
| SEP 27 | 27                              | 2.0             | 1.0 | 0.5                           | 0.0                           | 2000                        | ARTIFICIAL SUBSTRATE |

## 01034500 PENOBSCOT RIVER AT WEST ENFIELD, ME--Continued

SPECIFIC CONDUCTANCE (MICROMHOS/CM AT 25 DEG. C), WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

| DAY   | OCTOBER  |     |      | NOVEMBER |     |      | DECEMBER |     |      | JANUARY |     |      |
|-------|----------|-----|------|----------|-----|------|----------|-----|------|---------|-----|------|
|       | MAX      | MIN | MEAN | MAX      | MIN | MEAN | MAX      | MIN | MEAN | MAX     | MIN | MEAN |
| 1     | ---      | --- | ---  | 78       | 53  | 73   | 72       | 57  | 66   | 54      | 51  | 52   |
| 2     | ---      | --- | ---  | 79       | 67  | 73   | 66       | 53  | 61   | 56      | 52  | 54   |
| 3     | ---      | --- | ---  | 87       | 57  | 77   | 64       | 57  | 60   | 55      | 52  | 54   |
| 4     | ---      | --- | ---  | 77       | 63  | 73   | 61       | 57  | 60   | 57      | 49  | 52   |
| 5     | ---      | --- | ---  | 75       | 60  | 70   | 63       | 55  | 59   | 61      | 54  | 58   |
| 6     | ---      | --- | ---  | 69       | 53  | 64   | 69       | 55  | 62   | 56      | 53  | 54   |
| 7     | ---      | --- | ---  | 71       | 48  | 67   | 64       | 60  | 62   | 55      | 52  | 53   |
| 8     | ---      | --- | ---  | 71       | 52  | 65   | 67       | 62  | 64   | 54      | 51  | 52   |
| 9     | ---      | --- | ---  | 89       | 53  | 74   | 63       | 59  | 61   | 55      | 51  | 52   |
| 10    | ---      | --- | ---  | 68       | 52  | 58   | 63       | 57  | 60   | 56      | 50  | 52   |
| 11    | ---      | --- | ---  | 80       | 56  | 70   | 74       | 59  | 66   | 54      | 50  | 51   |
| 12    | ---      | --- | ---  | 80       | 67  | 76   | 65       | 58  | 62   | 63      | 49  | 55   |
| 13    | ---      | --- | ---  | 78       | 55  | 65   | 66       | 53  | 63   | 58      | 49  | 55   |
| 14    | ---      | --- | ---  | 74       | 53  | 63   | 60       | 49  | 54   | 51      | 43  | 47   |
| 15    | ---      | --- | ---  | 68       | 52  | 62   | 63       | 59  | 61   | 49      | 47  | 48   |
| 16    | ---      | --- | ---  | 69       | 49  | 60   | 69       | 56  | 61   | 50      | 46  | 48   |
| 17    | ---      | --- | ---  | 70       | 55  | 66   | 67       | 54  | 60   | 53      | 45  | 49   |
| 18    | ---      | --- | ---  | 78       | 68  | 74   | 68       | 62  | 65   | 49      | 45  | 47   |
| 19    | ---      | --- | ---  | 86       | 76  | 79   | 66       | 62  | 64   | 58      | 44  | 50   |
| 20    | ---      | --- | ---  | 94       | 65  | 70   | 70       | 63  | 67   | 59      | 55  | 57   |
| 21    | ---      | --- | ---  | 68       | 57  | 59   | 77       | 70  | 74   | 57      | 50  | 56   |
| 22    | ---      | --- | ---  | 70       | 58  | 66   | 74       | 62  | 68   | 56      | 51  | 53   |
| 23    | ---      | --- | ---  | 65       | 60  | 63   | 89       | 62  | 68   | 60      | 53  | 56   |
| 24    | ---      | --- | ---  | 63       | 52  | 57   | 73       | 69  | 71   | 64      | 57  | 61   |
| 25    | ---      | --- | ---  | 55       | 51  | 53   | 68       | 61  | 63   | 65      | 57  | 63   |
| 26    | ---      | --- | ---  | 66       | 50  | 58   | 65       | 61  | 62   | 69      | 58  | 65   |
| 27    | ---      | --- | ---  | 67       | 53  | 60   | 66       | 60  | 63   | 93      | 66  | 71   |
| 28    | ---      | --- | ---  | 57       | 52  | 55   | 73       | 60  | 63   | 77      | 68  | 72   |
| 29    | ---      | --- | ---  | 68       | 54  | 62   | 71       | 58  | 62   | 78      | 56  | 67   |
| 30    | 71       | 54  | 59   | 68       | 58  | 63   | 62       | 59  | 60   | 58      | 55  | 57   |
| 31    | 84       | 55  | 73   | ---      | --- | ---  | 58       | 53  | 56   | 56      | 55  | 56   |
| MONTH | ---      | --- | ---  | 94       | 48  | 66   | 89       | 49  | 63   | 93      | 43  | 55   |
| DAY   | FEBRUARY |     |      | MARCH    |     |      | APRIL    |     |      | MAY     |     |      |
|       | MAX      | MIN | MEAN | MAX      | MIN | MEAN | MAX      | MIN | MEAN | MAX     | MIN | MEAN |
| 1     | 62       | 57  | 59   | ---      | --- | ---  | 42       | 41  | 42   | 58      | 53  | 56   |
| 2     | 69       | 48  | 60   | ---      | --- | ---  | 60       | 19  | 43   | 58      | 56  | 57   |
| 3     | 58       | 47  | 51   | ---      | --- | ---  | 66       | 60  | 64   | 59      | 57  | 58   |
| 4     | 49       | 42  | 47   | ---      | --- | ---  | 64       | 62  | 63   | 59      | 56  | 58   |
| 5     | 47       | 38  | 43   | ---      | --- | ---  | 65       | 61  | 62   | 59      | 56  | 57   |
| 6     | 48       | 41  | 45   | ---      | --- | ---  | 65       | 63  | 64   | 62      | 58  | 60   |
| 7     | 48       | 36  | 41   | ---      | --- | ---  | 63       | 62  | 63   | 71      | 58  | 63   |
| 8     | 40       | 38  | 39   | ---      | --- | ---  | ---      | --- | ---  | 100     | 58  | 79   |
| 9     | 43       | 38  | 41   | ---      | --- | ---  | ---      | --- | ---  | 62      | 57  | 60   |
| 10    | 45       | 37  | 41   | ---      | --- | ---  | ---      | --- | ---  | 64      | 59  | 61   |
| 11    | 50       | 41  | 44   | 52       | 43  | 48   | ---      | --- | ---  | 66      | 58  | 62   |
| 12    | 51       | 42  | 48   | 51       | 39  | 45   | ---      | --- | ---  | 66      | 59  | 63   |
| 13    | 56       | 46  | 50   | 53       | 46  | 50   | ---      | --- | ---  | 63      | 58  | 61   |
| 14    | 57       | 50  | 52   | 60       | 49  | 54   | ---      | --- | ---  | 59      | 55  | 57   |
| 15    | 56       | 50  | 53   | 56       | 49  | 54   | ---      | --- | ---  | 64      | 57  | 60   |
| 16    | 59       | 51  | 55   | 51       | 43  | 47   | ---      | --- | ---  | 69      | 59  | 63   |
| 17    | 60       | 58  | 59   | 60       | 51  | 56   | ---      | --- | ---  | 64      | 59  | 62   |
| 18    | 65       | 62  | 63   | 62       | 59  | 60   | ---      | --- | ---  | 65      | 61  | 63   |
| 19    | 66       | 60  | 61   | 64       | 59  | 61   | ---      | --- | ---  | 65      | 59  | 62   |
| 20    | 70       | 64  | 66   | 66       | 60  | 62   | ---      | --- | ---  | 70      | 60  | 63   |
| 21    | 72       | 69  | 71   | 67       | 62  | 64   | ---      | --- | ---  | 76      | 60  | 67   |
| 22    | 73       | 67  | 69   | 71       | 43  | 55   | ---      | --- | ---  | 62      | 58  | 60   |
| 23    | 75       | 67  | 71   | 106      | 42  | 57   | ---      | --- | ---  | 66      | 58  | 61   |
| 24    | ---      | --- | ---  | 111      | 48  | 63   | ---      | --- | ---  | 69      | 59  | 64   |
| 25    | ---      | --- | ---  | 58       | 44  | 51   | ---      | --- | ---  | 67      | 56  | 61   |
| 26    | ---      | --- | ---  | 47       | 40  | 43   | ---      | --- | ---  | 58      | 54  | 56   |
| 27    | ---      | --- | ---  | 44       | 38  | 40   | ---      | --- | ---  | 59      | 53  | 56   |
| 28    | ---      | --- | ---  | 51       | 44  | 49   | 96       | 55  | 71   | 62      | 55  | 58   |
| 29    | ---      | --- | ---  | 51       | 47  | 50   | 94       | 42  | 60   | 67      | 59  | 63   |
| 30    | ---      | --- | ---  | 46       | 43  | 44   | 81       | 38  | 48   | 75      | 66  | 70   |
| 31    | ---      | --- | ---  | 43       | 41  | 42   | ---      | --- | ---  | 85      | 68  | 72   |
| MONTH | 75       | 36  | 53   | ---      | --- | ---  | ---      | --- | ---  | 100     | 53  | 62   |

## PENOBSCOT RIVER BASIN

01034500 PENOBSCOT RIVER AT WEST ENFIELD, ME--Continued

SPECIFIC CONDUCTANCE (MICROMHOS/CM AT 25 DEG. C), WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

| DAY   | JUNE |     |      | JULY |     |      | AUGUST |     |      | SEPTEMBER |     |      |
|-------|------|-----|------|------|-----|------|--------|-----|------|-----------|-----|------|
|       | MAX  | MIN | MEAN | MAX  | MIN | MEAN | MAX    | MIN | MEAN | MAX       | MIN | MEAN |
| 1     | 70   | 67  | 68   | 74   | 69  | 80   | 61     | 58  | 60   | 67        | 63  | 64   |
| 2     | 67   | 64  | 66   | ---  | --- | ---  | 59     | 58  | 58   | 68        | 63  | 66   |
| 3     | 70   | 64  | 67   | ---  | --- | ---  | 62     | 56  | 58   | 67        | 62  | 65   |
| 4     | 77   | 62  | 69   | ---  | --- | ---  | 59     | 56  | 58   | 69        | 66  | 67   |
| 5     | 79   | 69  | 74   | ---  | --- | ---  | 59     | 53  | 55   | 67        | 64  | 66   |
| 6     | 80   | 76  | 78   | ---  | --- | ---  | 61     | 56  | 59   | 68        | 60  | 66   |
| 7     | 84   | 79  | 81   | ---  | --- | ---  | 58     | 56  | 57   | 65        | 60  | 62   |
| 8     | 89   | 81  | 85   | ---  | --- | ---  | 63     | 58  | 59   | 62        | 55  | 58   |
| 9     | 87   | 81  | 84   | 52   | 49  | 51   | 61     | 59  | 60   | 66        | 55  | 59   |
| 10    | 87   | 74  | 83   | 53   | 51  | 52   | 67     | 56  | 62   | 67        | 62  | 64   |
| 11    | 85   | 78  | 82   | 52   | 50  | 51   | 59     | 52  | 55   | 68        | 63  | 66   |
| 12    | 88   | 81  | 86   | 58   | 52  | 54   | 54     | 51  | 52   | 67        | 64  | 66   |
| 13    | 86   | 78  | 83   | 58   | 51  | 54   | 53     | 50  | 52   | 69        | 63  | 66   |
| 14    | 92   | 82  | 86   | 56   | 52  | 54   | 53     | 49  | 51   | 69        | 64  | 66   |
| 15    | 89   | 87  | 88   | 57   | 52  | 54   | 54     | 51  | 53   | 68        | 64  | 66   |
| 16    | 90   | 84  | 88   | 53   | 52  | 53   | 54     | 52  | 53   | 66        | 62  | 64   |
| 17    | 106  | 90  | 101  | 55   | 52  | 53   | 54     | 52  | 53   | 67        | 61  | 65   |
| 18    | 91   | 86  | 88   | 54   | 52  | 53   | 55     | 51  | 53   | 68        | 66  | 67   |
| 19    | 101  | 83  | 91   | 56   | 40  | 55   | 55     | 52  | 53   | 71        | 65  | 67   |
| 20    | 98   | 89  | 92   | 57   | 56  | 56   | 59     | 53  | 56   | 69        | 66  | 66   |
| 21    | 92   | 87  | 90   | 59   | 56  | 57   | 61     | 58  | 59   | 70        | 61  | 65   |
| 22    | 93   | 86  | 88   | 58   | 52  | 55   | 62     | 59  | 61   | 63        | 59  | 61   |
| 23    | 93   | 86  | 89   | 58   | 53  | 56   | 61     | 57  | 59   | 65        | 60  | 62   |
| 24    | 97   | 93  | 94   | 59   | 55  | 57   | 59     | 56  | 57   | 66        | 62  | 64   |
| 25    | 93   | 86  | 90   | 58   | 50  | 53   | 59     | 57  | 58   | 187       | 66  | 74   |
| 26    | 93   | 91  | 92   | 59   | 53  | 57   | 60     | 56  | 58   | 85        | 69  | 75   |
| 27    | 101  | 82  | 92   | 60   | 59  | 59   | 61     | 58  | 59   | ---       | --- | ---  |
| 28    | 82   | 78  | 86   | 59   | 56  | 58   | 82     | 61  | 66   | 68        | 59  | 62   |
| 29    | 81   | 79  | 80   | 60   | 58  | 59   | 82     | 68  | 71   | 61        | 55  | 58   |
| 30    | 78   | 69  | 71   | 59   | 55  | 57   | 67     | 63  | 64   | 63        | 59  | 61   |
| 31    | ---  | --- | ---  | 62   | 58  | 60   | 65     | 61  | 63   | ---       | --- | ---  |
| MONTH | 106  | 62  | 84   | ---  | --- | ---  | 82     | 49  | 58   | 187       | 55  | 65   |
| YFAP  | 187  | 19  | 62   |      |     |      |        |     |      |           |     |      |

TEMPERATURE (DEG. C) OF WATER, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

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

## 101

TEMPERATURE (DEG. C) OF WATER, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

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

## PENOBSCOT RIVER BASIN

01035000 PASSADUMKEAG RIVER AT LOWELL, ME

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

DRAINAGE AREA.--299 mi<sup>2</sup> (774 km<sup>2</sup>).

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

REVISED RECORDS.--WSP 821: Drainage area.

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.

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

AVERAGE DISCHARGE.--61 years, 501 ft<sup>3</sup>/s (14.19 m<sup>3</sup>/s), 22.75 in/yr (578 mm/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 5,680 ft<sup>3</sup>/s (161 m<sup>3</sup>/s) May 2, 1923, gage height, 9.40 ft (2.865 m); minimum, about 5 ft<sup>3</sup>/s (0.14 m<sup>3</sup>/s) several times in July and August 1921 (gates in dam closed).

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 3,660 ft<sup>3</sup>/s (104 m<sup>3</sup>/s) Apr. 5, gage height, 7.05 ft (2.149 m); minimum, 105 ft<sup>3</sup>/s (2.97 m<sup>3</sup>/s) Oct. 11, 12, gage height, 0.96 ft (0.293 m).

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976  
MEAN VALUES

| DAY         | OCT   | NOV    | DEC      | JAN      | FEB     | MAR       | APR      | MAY   | JUN   | JUL   | AUG   | SEP  |
|-------------|-------|--------|----------|----------|---------|-----------|----------|-------|-------|-------|-------|------|
| 1           | 247   | 237    | 624      | 390      | 1420    | 400       | 1560     | 1330  | 707   | 345   | 945   | 329  |
| 2           | 228   | 225    | 751      | 370      | 1410    | 390       | 2110     | 1290  | 639   | 451   | 900   | 356  |
| 3           | 204   | 215    | 827      | 345      | 1600    | 385       | 3120     | 1240  | 587   | 591   | 834   | 379  |
| 4           | 180   | 203    | 842      | 330      | 1700    | 380       | 3600     | 1190  | 543   | 698   | 756   | 389  |
| 5           | 163   | 191    | 794      | 315      | 1600    | 370       | 3640     | 1130  | 502   | 672   | 676   | 382  |
| 6           | 148   | 181    | 728      | 305      | 1400    | 365       | 3500     | 1070  | 464   | 581   | 607   | 371  |
| 7           | 135   | 171    | 715      | 300      | 1250    | 360       | 3270     | 1020  | 433   | 479   | 557   | 352  |
| 8           | 127   | 166    | 625      | 280      | 1100    | 350       | 3010     | 995   | 408   | 401   | 510   | 330  |
| 9           | 119   | 171    | 546      | 265      | 920     | 345       | 2740     | 975   | 389   | 371   | 472   | 307  |
| 10          | 113   | 179    | 533      | 250      | 800     | 340       | 2500     | 949   | 366   | 341   | 563   | 286  |
| 11          | 108   | 224    | 552      | 250      | 720     | 335       | 2310     | 914   | 344   | 312   | 710   | 295  |
| 12          | 117   | 273    | 575      | 245      | 540     | 330       | 2130     | 880   | 339   | 342   | 788   | 352  |
| 13          | 139   | 432    | 523      | 245      | 590     | 330       | 1970     | 867   | 325   | 748   | 805   | 406  |
| 14          | 167   | 744    | 482      | 240      | 540     | 325       | 1820     | 845   | 320   | 1010  | 854   | 422  |
| 15          | 189   | 913    | 466      | 255      | 510     | 320       | 1700     | 817   | 319   | 1160  | 871   | 407  |
| 16          | 198   | 980    | 474      | 255      | 480     | 325       | 1600     | 781   | 316   | 1230  | 864   | 379  |
| 17          | 197   | 974    | 420      | 250      | 470     | 350       | 1540     | 731   | 307   | 1240  | 843   | 349  |
| 18          | 225   | 918    | 370      | 245      | 450     | 375       | 1500     | 692   | 296   | 1220  | 791   | 324  |
| 19          | 289   | 828    | 325      | 240      | 430     | 370       | 1480     | 695   | 280   | 1140  | 721   | 310  |
| 20          | 386   | 720    | 315      | 235      | 420     | 365       | 1470     | 771   | 266   | 1050  | 646   | 300  |
| 21          | 482   | 626    | 330      | 230      | 410     | 410       | 1460     | 874   | 255   | 938   | 576   | 290  |
| 22          | 520   | 693    | 350      | 230      | 400     | 621       | 1440     | 1040  | 246   | 818   | 513   | 284  |
| 23          | 518   | 746    | 350      | 225      | 400     | 720       | 1430     | 1150  | 238   | 693   | 456   | 274  |
| 24          | 478   | 768    | 350      | 220      | 430     | 729       | 1400     | 1200  | 231   | 759   | 406   | 261  |
| 25          | 416   | 763    | 350      | 220      | 430     | 772       | 1360     | 1210  | 268   | 1010  | 366   | 249  |
| 26          | 368   | 717    | 360      | 230      | 425     | 867       | 1310     | 1190  | 323   | 1080  | 338   | 237  |
| 27          | 329   | 661    | 375      | 450      | 420     | 979       | 1350     | 1140  | 357   | 1110  | 317   | 246  |
| 28          | 295   | 632    | 415      | 800      | 415     | 1170      | 1370     | 1070  | 358   | 1180  | 305   | 269  |
| 29          | 266   | 611    | 435      | 1400     | 410     | 1370      | 1380     | 977   | 399   | 1150  | 299   | 292  |
| 30          | 256   | 596    | 450      | 1500     | ---     | 1450      | 1360     | 879   | 314   | 1090  | 316   | 302  |
| 31          | 248   | ---    | 420      | 1400     | ---     | 1510      | ---      | 785   | ---   | 1020  | 328   | ---  |
| TOTAL       | 7855  | 15758  | 15672    | 12515    | 22090   | 17708     | 60430    | 30697 | 11139 | 25230 | 18933 | 9729 |
| MEAN        | 253   | 525    | 506      | 404      | 762     | 571       | 2014     | 990   | 371   | 814   | 611   | 324  |
| MAX         | 520   | 980    | 842      | 1500     | 1700    | 1510      | 3640     | 1330  | 707   | 1240  | 945   | 422  |
| MIN         | 108   | 166    | 315      | 220      | 400     | 320       | 1310     | 692   | 231   | 312   | 299   | 237  |
| CFSM        | .85   | 1.76   | 1.69     | 1.35     | 2.55    | 1.91      | 6.74     | 3.31  | 1.24  | 2.72  | 2.04  | 1.08 |
| IN.         | .98   | 1.96   | 1.95     | 1.56     | 2.75    | 2.20      | 7.52     | 3.82  | 1.39  | 3.14  | 2.36  | 1.21 |
| CAL YR 1975 | TOTAL | 136357 | MEAN 374 | MAX 1350 | MIN 76  | CFSM 1.25 | IN 16.96 |       |       |       |       |      |
| WTR YR 1976 | TOTAL | 247756 | MEAN 677 | MAX 3640 | MIN 108 | CFSM 2.26 | IN 30.82 |       |       |       |       |      |



## 01036500 KENDUSKEAG STREAM NEAR KENDUSKEAG, ME

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

DRAINAGE AREA.--178 mi<sup>2</sup> (461 km<sup>2</sup>).

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.

AVERAGE DISCHARGE.--35 years, 322 ft<sup>3</sup>/s (9.119 m<sup>3</sup>/s), 24.57 in/yr (624 mm/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 6,400 ft<sup>3</sup>/s (181 m<sup>3</sup>/s) Sept. 12, 1954, gage height, 14.83 ft (4.520 m); minimum daily, 1.0 ft<sup>3</sup>/s (0.028 m<sup>3</sup>/s) Sept. 30, 1948, Aug. 8, 1965.

EXTREMES FOR CURRENT YEAR.--Peak discharges above base of 1,600 ft<sup>3</sup>/s (45.3 m<sup>3</sup>/s) and maximums (\*):

| Date    | Time | Discharge<br>(ft <sup>3</sup> /s) (m <sup>3</sup> /s) | Gage height<br>(ft) (m) | Date    | Time | Discharge<br>(ft <sup>3</sup> /s) (m <sup>3</sup> /s) | Gage height<br>(ft) (m) |
|---------|------|-------------------------------------------------------|-------------------------|---------|------|-------------------------------------------------------|-------------------------|
| Nov. 14 | 2200 | 1,880 53.2                                            | 6.57 2.003              | Apr. 4  | 1800 | *4,940 140                                            | *11.96 3.645            |
| Jan. 29 | 2300 | 2,380 67.4                                            | 7.55 2.301              | July 25 | 0800 | 2,220 62.9                                            | 7.24 2.207              |
| Feb. 2  | 1600 | 2,010 56.9                                            | 6.82 2.079              | Aug. 11 | 0300 | 3,080 87.2                                            | 8.86 2.701              |

Minimum daily discharge, 13 ft<sup>3</sup>/s (0.368 m<sup>3</sup>/s) Oct. 10, 11.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976  
MEAN VALUES

| DAY         | OCT   | NOV      | DEC      | JAN      | FEB     | MAR       | APR      | MAY   | JUN  | JUL   | AUG   | SEP  |
|-------------|-------|----------|----------|----------|---------|-----------|----------|-------|------|-------|-------|------|
| 1           | 36    | 236      | 524      | 195      | 1260    | 275       | 1800     | 321   | 144  | 350   | 463   | 137  |
| 2           | 28    | 196      | 860      | 185      | 1780    | 260       | 3180     | 346   | 133  | 653   | 640   | 182  |
| 3           | 24    | 163      | 708      | 175      | 1700    | 250       | 4220     | 489   | 115  | 712   | 524   | 253  |
| 4           | 20    | 139      | 553      | 165      | 1400    | 240       | 4720     | 495   | 106  | 392   | 356   | 178  |
| 5           | 18    | 121      | 475      | 155      | 1100    | 235       | 4020     | 432   | 104  | 541   | 252   | 130  |
| 6           | 16    | 105      | 392      | 145      | 860     | 230       | 2650     | 335   | 89   | 340   | 180   | 120  |
| 7           | 16    | 93       | 380      | 140      | 700     | 220       | 1970     | 284   | 73   | 209   | 140   | 115  |
| 8           | 15    | 105      | 402      | 135      | 570     | 215       | 1590     | 316   | 65   | 133   | 120   | 97   |
| 9           | 14    | 133      | 398      | 130      | 475     | 215       | 1290     | 325   | 61   | 125   | 115   | 81   |
| 10          | 13    | 146      | 307      | 125      | 405     | 210       | 1070     | 278   | 52   | 149   | 1890  | 67   |
| 11          | 13    | 488      | 698      | 120      | 360     | 205       | 955      | 225   | 50   | 108   | 2830  | 64   |
| 12          | 44    | 536      | 759      | 115      | 320     | 200       | 821      | 206   | 43   | 105   | 1740  | 68   |
| 13          | 277   | 801      | 638      | 115      | 285     | 195       | 666      | 479   | 37   | 443   | 983   | 62   |
| 14          | 244   | 1710     | 510      | 120      | 260     | 190       | 601      | 457   | 39   | 481   | 705   | 53   |
| 15          | 192   | 1650     | 224      | 125      | 240     | 185       | 577      | 351   | 38   | 339   | 688   | 47   |
| 16          | 143   | 1130     | 276      | 130      | 230     | 185       | 551      | 262   | 36   | 226   | 872   | 44   |
| 17          | 118   | 808      | 318      | 130      | 230     | 185       | 624      | 202   | 34   | 152   | 1140  | 40   |
| 18          | 180   | 622      | 265      | 130      | 235     | 185       | 655      | 177   | 31   | 198   | 658   | 38   |
| 19          | 468   | 496      | 250      | 130      | 235     | 190       | 624      | 306   | 29   | 202   | 423   | 39   |
| 20          | 505   | 399      | 235      | 135      | 230     | 190       | 536      | 833   | 27   | 143   | 305   | 48   |
| 21          | 907   | 342      | 225      | 135      | 225     | 285       | 441      | 880   | 27   | 99    | 231   | 51   |
| 22          | 696   | 976      | 210      | 135      | 240     | 490       | 404      | 1060  | 26   | 72    | 185   | 44   |
| 23          | 522   | 1250     | 200      | 130      | 290     | 680       | 433      | 1010  | 24   | 54    | 153   | 40   |
| 24          | 390   | 813      | 195      | 125      | 370     | 650       | 423      | 779   | 24   | 664   | 126   | 36   |
| 25          | 272   | 610      | 190      | 125      | 345     | 600       | 354      | 610   | 29   | 2080  | 106   | 32   |
| 26          | 207   | 510      | 190      | 120      | 320     | 670       | 324      | 475   | 167  | 1250  | 92    | 30   |
| 27          | 203   | 421      | 235      | 300      | 300     | 1000      | 530      | 374   | 196  | 730   | 84    | 37   |
| 28          | 176   | 423      | 255      | 1010     | 295     | 2180      | 673      | 300   | 154  | 634   | 96    | 81   |
| 29          | 153   | 420      | 240      | 2060     | 285     | 2490      | 529      | 241   | 109  | 494   | 100   | 79   |
| 30          | 188   | 375      | 225      | 1980     | ---     | 2280      | 408      | 196   | 96   | 348   | 179   | 63   |
| 31          | 277   | ---      | 210      | 1530     | ---     | 2000      | ---      | 162   | ---  | 282   | 187   | ---  |
| TOTAL       | 6375  | 16227    | 11547    | 10450    | 15545   | 17585     | 37639    | 13206 | 2158 | 13208 | 16563 | 2356 |
| MEAN        | 206   | 541      | 372      | 337      | 536     | 567       | 1255     | 426   | 71.9 | 426   | 534   | 78.5 |
| MAX         | 907   | 1710     | 860      | 2060     | 1780    | 2490      | 4720     | 1060  | 196  | 2080  | 2830  | 253  |
| MIN         | 13    | 93       | 190      | 115      | 225     | 185       | 324      | 162   | 24   | 54    | 84    | 30   |
| CFSM        | 1.16  | 3.04     | 2.09     | 1.89     | 3.01    | 3.19      | 7.05     | 2.39  | .40  | 2.39  | 3.00  | .44  |
| IN.         | 1.33  | 3.39     | 2.41     | 2.18     | 3.25    | 3.68      | 7.87     | 2.76  | .45  | 2.76  | 3.46  | .49  |
| CAL YR 1975 | TOTAL | 90242.6  | MEAN 247 | MAX 1750 | MIN 3.8 | CFSM 1.39 | IN 18.86 |       |      |       |       |      |
| WTR YR 1976 | TOTAL | 162859.0 | MEAN 445 | MAX 4720 | MIN 13  | CFSM 2.50 | IN 34.04 |       |      |       |       |      |

## PENOBSCOT RIVER BASIN

## Reservoirs in Penobscot River basin

- 01027000 CHESUNCOOK, RIPOGENUS, AND CARIBOU LAKES AND MOOSE POND in West Branch Penobscot River basin are controlled by Ripogenus Dam, Piscataquis County, Hydrologic Unit 01020001, in T. 3, R. 11, 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, 39,000,000,000 ft<sup>3</sup> (850,000,000 m<sup>3</sup>). 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, Hydrologic Unit 01020001, 3 mi (5 km) upstream from Millinocket, Maine, used for power; usable capacity of reservoir, 15,000,000,000 ft<sup>3</sup> (420,000,000 m<sup>3</sup>). 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, Piscataquis County, Hydrologic Unit 01020002, in T. 6, R. 11, Maine. Telos Dam rebuilt during 1941, used for power; usable capacity, 5,050,000,000 ft<sup>3</sup>/s (142,700,000 m<sup>3</sup>) 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, Penobscot County, Hydrologic Unit 01020002, in T. 6, R. 8, Maine, used for power; usable capacity, 1,785,000,000 ft<sup>3</sup> (50,550,000 m<sup>3</sup>) 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, Hydrologic Unit 01020004, at Sebec, Maine, used for power; usable capacity, 2,511,000,000 ft<sup>3</sup> (71,110,000 m<sup>3</sup>) 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 1975 TO SEPTEMBER 1976

| DATE           |           | CHESUNCOOK, RIPOGENUS<br>CARIBOU, AMBAJEJUS,<br>PEMADUMCOOK, NORTH TWIN<br>SOUTH TWIN, AND ELBOW<br>LAKES AND MOOSE POND* | CHAMBERLAIN,<br>TELOS, SECOND, AND<br>GRAND LAKES<br>AND<br>ROUND POND | SEBEC LAKE |
|----------------|-----------|---------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------|------------|
|                |           |                                                                                                                           |                                                                        |            |
| SEPT. 30, 1975 | . . . . . | 34,059                                                                                                                    | 1,867                                                                  | 821        |
| OCT. 31        | . . . . . | 30,472                                                                                                                    | 1,623                                                                  | 767        |
| NOV. 30        | . . . . . | 30,584                                                                                                                    | 1,765                                                                  | 1,720      |
| DEC. 31        | . . . . . | 28,043                                                                                                                    | 2,355                                                                  | 1,529      |
| JAN. 31, 1976  | . . . . . | 22,524                                                                                                                    | 2,563                                                                  | 1,896      |
| FEB. 29        | . . . . . | 20,596                                                                                                                    | 2,736                                                                  | 1,474      |
| MAR. 31        | . . . . . | 18,430                                                                                                                    | 2,176                                                                  | 1,257      |
| APR. 30        | . . . . . | 54,092                                                                                                                    | 5,418                                                                  | 1,808      |
| MAY 31         | . . . . . | 58,142                                                                                                                    | 6,283                                                                  | 1,837      |
| JUNE 30        | . . . . . | 54,527                                                                                                                    | 6,344                                                                  | 1,779      |
| JULY 31        | . . . . . | 57,794                                                                                                                    | 6,264                                                                  | 2,101      |
| AUG. 31        | . . . . . | 57,222                                                                                                                    | 5,331                                                                  | 1,984      |
| SEPT. 30       | . . . . . | 51,331                                                                                                                    | 3,933                                                                  | 1,175      |

\* Includes monthend contents of following additional reservoirs in West Branch Penobscot River basin, used for power (total capacity, approximately 12,000,000,000 ft<sup>3</sup> or 340,000,000 m<sup>3</sup>): Penobscot, Seboomook, Caucomgomoc, Loon, Shallow, Umbazooksus, Harrington, Sourdnahunk, Rainbow, Ragged, and Millinocket Lakes, Canada Falls Reservoir, Dole, and Poland Ponds.

## 01038000 SHEEPSCOT RIVER AT NORTH WHITEFIELD, ME

LOCATION.--Lat 44°13'23", long 69°35'38", Lincoln County, Hydrologic Unit 01050003, on left bank 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 mi<sup>2</sup> (383 km<sup>2</sup>).

## WATER-DISCHARGE RECORDS

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

REVISED RECORDS.--WSP 1231: 1940.

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

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

AVERAGE DISCHARGE.--38 years, 245 ft<sup>3</sup>/s (6.938 m<sup>3</sup>/s), 22.48 in/yr (571 mm/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 6,420 ft<sup>3</sup>/s (182 m<sup>3</sup>/s) Dec. 18, 1973, gage height, 12.52 ft (3.816 m), from floodmarks; minimum, 5.0 ft<sup>3</sup>/s (0.14 m<sup>3</sup>/s) Oct. 24, 1941, gage height, 1.70 ft (0.518 m).

EXTREMES FOR CURRENT YEAR.--Peak discharges above base of 1,100 ft<sup>3</sup>/s (31 m<sup>3</sup>/s) and maximums (\*):

| Date    | Time | Discharge<br>(ft <sup>3</sup> /s) (m <sup>3</sup> /s) | Gage height<br>(ft) (m) | Date    | Time | Discharge<br>(ft <sup>3</sup> /s) (m <sup>3</sup> /s) | Gage height<br>(ft) (m) |
|---------|------|-------------------------------------------------------|-------------------------|---------|------|-------------------------------------------------------|-------------------------|
| Jan. 28 | 1700 | 1,370 38.8                                            | 5.65 1.722              | Apr. 2  | 1300 | *2,750 77.9                                           | *7.78 2.371             |
| Feb. 2  | 1500 | 2,110 59.8                                            | 6.87 2.094              | Aug. 10 | 1400 | 1,450 41.1                                            | 5.78 1.762              |

Minimum discharge, 29 ft<sup>3</sup>/s (0.82 m<sup>3</sup>/s) Sept. 26, gage height, 2.01 ft (0.613 m).

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976  
MEAN VALUES

| DAY   | OCT  | NOV   | DEC   | JAN   | FEB   | MAR   | APR   | MAY   | JUN  | JUL  | AUG  | SEP  |
|-------|------|-------|-------|-------|-------|-------|-------|-------|------|------|------|------|
| 1     | 82   | 120   | 478   | 400   | 1020  | 389   | 1180  | 222   | 215  | 69   | 149  | 70   |
| 2     | 79   | 110   | 514   | 370   | 1740  | 351   | 2600  | 361   | 190  | 72   | 292  | 68   |
| 3     | 72   | 110   | 449   | 345   | 1820  | 312   | 2160  | 361   | 163  | 73   | 182  | 68   |
| 4     | 66   | 105   | 407   | 325   | 1540  | 292   | 2420  | 351   | 147  | 70   | 145  | 61   |
| 5     | 63   | 105   | 351   | 305   | 1300  | 283   | 2010  | 326   | 134  | 62   | 132  | 58   |
| 6     | 59   | 100   | 348   | 290   | 1050  | 316   | 1700  | 302   | 124  | 57   | 121  | 57   |
| 7     | 56   | 100   | 326   | 280   | 845   | 298   | 1410  | 298   | 113  | 53   | 113  | 54   |
| 8     | 53   | 110   | 274   | 265   | 690   | 260   | 1130  | 309   | 106  | 50   | 110  | 50   |
| 9     | 52   | 135   | 258   | 260   | 564   | 237   | 875   | 283   | 98   | 54   | 112  | 48   |
| 10    | 49   | 160   | 490   | 260   | 474   | 225   | 739   | 260   | 89   | 50   | 1240 | 46   |
| 11    | 48   | 400   | 658   | 255   | 407   | 215   | 645   | 242   | 83   | 46   | 685  | 50   |
| 12    | 56   | 360   | 519   | 255   | 354   | 197   | 550   | 277   | 80   | 50   | 442  | 52   |
| 13    | 72   | 600   | 470   | 245   | 319   | 207   | 474   | 372   | 73   | 283  | 400  | 46   |
| 14    | 62   | 880   | 461   | 240   | 295   | 240   | 424   | 319   | 70   | 195  | 386  | 43   |
| 15    | 52   | 630   | 442   | 240   | 286   | 235   | 383   | 302   | 69   | 113  | 379  | 41   |
| 16    | 52   | 500   | 435   | 235   | 250   | 220   | 351   | 286   | 63   | 91   | 386  | 40   |
| 17    | 56   | 420   | 365   | 230   | 250   | 207   | 330   | 268   | 61   | 82   | 330  | 39   |
| 18    | 126  | 360   | 348   | 230   | 237   | 215   | 305   | 260   | 58   | 80   | 277  | 38   |
| 19    | 302  | 315   | 309   | 225   | 240   | 200   | 286   | 428   | 54   | 75   | 240  | 39   |
| 20    | 180  | 300   | 283   | 220   | 247   | 205   | 262   | 568   | 53   | 65   | 212  | 37   |
| 21    | 232  | 320   | 265   | 220   | 235   | 333   | 235   | 506   | 54   | 59   | 190  | 35   |
| 22    | 165  | 900   | 265   | 220   | 326   | 550   | 222   | 627   | 55   | 55   | 170  | 34   |
| 23    | 137  | 620   | 260   | 215   | 532   | 438   | 255   | 564   | 53   | 50   | 147  | 33   |
| 24    | 122  | 502   | 271   | 210   | 445   | 438   | 240   | 514   | 50   | 139  | 122  | 31   |
| 25    | 119  | 494   | 289   | 210   | 414   | 514   | 222   | 466   | 76   | 212  | 105  | 30   |
| 26    | 190  | 460   | 277   | 205   | 403   | 609   | 237   | 421   | 105  | 108  | 91   | 29   |
| 27    | 170  | 442   | 537   | 358   | 435   | 681   | 274   | 379   | 83   | 89   | 89   | 36   |
| 28    | 150  | 506   | 532   | 1140  | 482   | 1060  | 262   | 333   | 73   | 134  | 101  | 45   |
| 29    | 140  | 453   | 500   | 1160  | 421   | 1120  | 250   | 289   | 69   | 108  | 88   | 39   |
| 30    | 130  | 424   | 460   | 1200  | ---   | 1080  | 235   | 257   | 68   | 89   | 91   | 35   |
| 31    | 125  | ---   | 425   | 1130  | ---   | 1050  | ---   | 232   | ---  | 91   | 82   | ---  |
| TOTAL | 3317 | 11041 | 12266 | 11743 | 17621 | 12977 | 22666 | 10983 | 2729 | 2824 | 7609 | 1352 |
| MEAN  | 107  | 368   | 396   | 379   | 608   | 419   | 756   | 354   | 91.0 | 91.1 | 245  | 45.1 |
| MAX   | 302  | 900   | 658   | 1200  | 1820  | 1120  | 2600  | 627   | 215  | 283  | 1240 | 70   |
| MIN   | 48   | 100   | 258   | 205   | 235   | 197   | 222   | 222   | 50   | 46   | 82   | 29   |
| CFSM  | .72  | 2.49  | 2.68  | 2.56  | 4.11  | 2.83  | 5.11  | 2.39  | .61  | .62  | 1.66 | .30  |
| IN.   | .83  | 2.78  | 3.08  | 2.95  | 4.43  | 3.26  | 5.70  | 2.76  | .69  | .71  | 1.91 | .34  |

| CAL YR 1975 | TOTAL | 90599  | MEAN 248 | MAX 1100 | MIN 19 | CFSM 1.68 | IN 22.77 |
|-------------|-------|--------|----------|----------|--------|-----------|----------|
| WTR YR 1976 | TOTAL | 117128 | MEAN 320 | MAX 2600 | MIN 29 | CFSM 2.16 | IN 29.44 |

## SHEEPSCOT RIVER BASIN

01038000 SHEEPSCOT RIVER AT NORTH WHITEFIELD, ME--Continued

## WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 1957-71; 1974 to current year (discontinued).

PERIOD OF DAILY RECORD.--

SPECIFIC CONDUCTANCE: July 1974 to current year.

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

INSTRUMENTATION.--Water-quality monitor since July 1974.

REMARKS.--Water-quality monitor discontinued September 1976. Interruptions in the record were due to malfunctions of the monitor.

EXTREMES FOR PERIOD OF DAILY RECORD.--

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

WATER TEMPERATURES: Maximum, 31.5°C Aug. 2, 1975; minimum, 0.0°C on many days during winter periods.

EXTREMES FOR CURRENT YEAR.--

SPECIFIC CONDUCTANCE: Maximum, 77 micromhos Sept. 28; minimum, 29 micromhos Nov. 26.

WATER TEMPERATURES: Maximum, 25.0°C Aug. 22; minimum, 0.0°C on many days during winter periods.

## SPECIFIC CONDUCTANCE (MICROMHOS/CM AT 25 DEG. C), WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

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

SPECIFIC CONDUCTANCE (MICROMHOS/CM AT 25 DEG. C), WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

|        | FEBRUARY |      |      | MARCH |      |      | APRIL |        |      | MAY |           |      |
|--------|----------|------|------|-------|------|------|-------|--------|------|-----|-----------|------|
| DAY    | MAX      | MIN  | MEAN | MAX   | MIN  | MEAN | MAX   | MIN    | MEAN | MAX | MIN       | MEAN |
| 1      | ---      | ---  | ---  | ---   | ---  | ---  | 48    | 44     | 45   | 45  | 44        | 45   |
| 2      | ---      | ---  | ---  | ---   | ---  | ---  | 46    | 43     | 44   | 51  | 45        | 48   |
| 3      | ---      | ---  | ---  | ---   | ---  | ---  | 43    | 42     | 43   | 49  | 45        | 47   |
| 4      | ---      | ---  | ---  | ---   | ---  | ---  | 43    | 42     | 43   | 45  | 45        | 45   |
| 5      | ---      | ---  | ---  | ---   | ---  | ---  | 43    | 42     | 42   | 45  | 44        | 44   |
| 6      | ---      | ---  | ---  | ---   | ---  | ---  | 43    | 42     | 43   | 44  | 43        | 43   |
| 7      | ---      | ---  | ---  | ---   | ---  | ---  | 43    | 42     | 43   | 45  | 43        | 44   |
| 8      | ---      | ---  | ---  | ---   | ---  | ---  | 43    | 41     | 42   | 46  | 45        | 46   |
| 9      | ---      | ---  | ---  | ---   | ---  | ---  | 43    | 41     | 42   | 46  | 44        | 45   |
| 10     | ---      | ---  | ---  | ---   | ---  | ---  | 43    | 42     | 43   | 44  | 44        | 44   |
| 11     | ---      | ---  | ---  | ---   | ---  | ---  | 43    | 42     | 43   | 45  | 44        | 44   |
| 12     | ---      | ---  | ---  | ---   | ---  | ---  | 44    | 42     | 43   | 50  | 44        | 46   |
| 13     | ---      | ---  | ---  | ---   | ---  | ---  | 45    | 44     | 44   | 49  | 45        | 48   |
| 14     | ---      | ---  | ---  | ---   | ---  | ---  | 45    | 44     | 44   | 45  | 44        | 44   |
| 15     | ---      | ---  | ---  | ---   | ---  | ---  | 45    | 44     | 45   | 44  | 43        | 44   |
| 16     | ---      | ---  | ---  | ---   | ---  | ---  | 46    | 44     | 45   | 44  | 43        | 43   |
| 17     | ---      | ---  | ---  | ---   | ---  | ---  | 45    | 44     | 44   | 44  | 43        | 44   |
| 18     | ---      | ---  | ---  | ---   | ---  | ---  | 44    | 44     | 44   | --- | ---       | ---  |
| 19     | ---      | ---  | ---  | ---   | ---  | ---  | 45    | 44     | 44   | --- | ---       | ---  |
| 20     | ---      | ---  | ---  | ---   | ---  | ---  | 45    | 44     | 44   | --- | ---       | ---  |
| 21     | ---      | ---  | ---  | ---   | ---  | ---  | 44    | 43     | 44   | --- | ---       | ---  |
| 22     | ---      | ---  | ---  | ---   | ---  | ---  | 45    | 44     | 44   | --- | ---       | ---  |
| 23     | ---      | ---  | ---  | 56    | 52   | 53   | 48    | 46     | 48   | --- | ---       | ---  |
| 24     | ---      | ---  | ---  | 53    | 52   | 53   | 49    | 46     | 48   | --- | ---       | ---  |
| 25     | ---      | ---  | ---  | 53    | 52   | 52   | 46    | 45     | 46   | --- | ---       | ---  |
| 26     | ---      | ---  | ---  | 52    | 51   | 51   | 48    | 46     | 47   | --- | ---       | ---  |
| 27     | ---      | ---  | ---  | 50    | 49   | 50   | 49    | 49     | 49   | --- | ---       | ---  |
| 28     | ---      | ---  | ---  | 50    | 47   | 49   | 48    | 47     | 47   | --- | ---       | ---  |
| 29     | ---      | ---  | ---  | 47    | 44   | 45   | 47    | 45     | 46   | --- | ---       | ---  |
| 30     | ---      | ---  | ---  | 45    | 44   | 44   | 46    | 45     | 45   | --- | ---       | ---  |
| 31     | ---      | ---  | ---  | 45    | 44   | 44   | ---   | ---    | ---  | --- | ---       | ---  |
| MONTH  | ---      | ---  | ---  | ---   | ---  | ---  | 49    | 41     | 44   | --- | ---       | ---  |
|        |          | JUNE |      |       | JULY |      |       | AUGUST |      |     | SEPTEMBER |      |
| DAY    | MAX      | MIN  | MEAN | MAX   | MIN  | MEAN | MAX   | MIN    | MEAN | MAX | MIN       | MEAN |
| 1      | ---      | ---  | ---  | ---   | ---  | ---  | 62    | 51     | 55   | 66  | 64        | 65   |
| 2      | ---      | ---  | ---  | ---   | ---  | ---  | 62    | 52     | 56   | 65  | 63        | 64   |
| 3      | ---      | ---  | ---  | ---   | ---  | ---  | 51    | 47     | 49   | 66  | 63        | 64   |
| 4      | ---      | ---  | ---  | ---   | ---  | ---  | 47    | 45     | 46   | 65  | 64        | 65   |
| 5      | ---      | ---  | ---  | ---   | ---  | ---  | 47    | 44     | 45   | 66  | 64        | 65   |
| 6      | ---      | ---  | ---  | ---   | ---  | ---  | 49    | 47     | 48   | 67  | 65        | 66   |
| 7      | ---      | ---  | ---  | ---   | ---  | ---  | 51    | 49     | 50   | 67  | 65        | 66   |
| 8      | ---      | ---  | ---  | ---   | ---  | ---  | 53    | 51     | 52   | 67  | 64        | 65   |
| 9      | ---      | ---  | ---  | ---   | ---  | ---  | 56    | 54     | 55   | 66  | 64        | 65   |
| 10     | ---      | ---  | ---  | ---   | ---  | ---  | 60    | 51     | 53   | 67  | 64        | 65   |
| 11     | ---      | ---  | ---  | ---   | ---  | ---  | 55    | 52     | 53   | 67  | 66        | 66   |
| 12     | ---      | ---  | ---  | ---   | ---  | ---  | 53    | 50     | 52   | 68  | 67        | 68   |
| 13     | ---      | ---  | ---  | ---   | ---  | ---  | 50    | 49     | 50   | 68  | 66        | 67   |
| 14     | ---      | ---  | ---  | ---   | ---  | ---  | 51    | 49     | 50   | 67  | 65        | 66   |
| 15     | ---      | ---  | ---  | ---   | ---  | ---  | 53    | 50     | 51   | 68  | 65        | 66   |
| 16     | ---      | ---  | ---  | 49    | 46   | 48   | 55    | 53     | 54   | 68  | 66        | 67   |
| 17     | ---      | ---  | ---  | 49    | 46   | 47   | 53    | 52     | 53   | 68  | 66        | 67   |
| 18     | ---      | ---  | ---  | 51    | 46   | 48   | 52    | 51     | 51   | 69  | 67        | 68   |
| 19     | ---      | ---  | ---  | 60    | 50   | 53   | 51    | 50     | 51   | 70  | 68        | 69   |
| 20     | ---      | ---  | ---  | 56    | 52   | 54   | 52    | 50     | 51   | 70  | 68        | 69   |
| 21     | ---      | ---  | ---  | 60    | 52   | 53   | 53    | 52     | 52   | 71  | 68        | 70   |
| 22     | ---      | ---  | ---  | 59    | 53   | 55   | 53    | 52     | 53   | 71  | 68        | 69   |
| 23     | ---      | ---  | ---  | 63    | 53   | 57   | 53    | 52     | 53   | 71  | 68        | 69   |
| 24     | ---      | ---  | ---  | 64    | 49   | 55   | 53    | 53     | 53   | 71  | 68        | 70   |
| 25     | ---      | ---  | ---  | 57    | 50   | 54   | 55    | 53     | 54   | 72  | 68        | 70   |
| 26     | ---      | ---  | ---  | 50    | 47   | 48   | 55    | 54     | 55   | 72  | 69        | 71   |
| 27     | ---      | ---  | ---  | 48    | 47   | 47   | 59    | 55     | 57   | 73  | 70        | 72   |
| 28     | ---      | ---  | ---  | 56    | 47   | 53   | 66    | 59     | 64   | 77  | 73        | 75   |
| 29     | ---      | ---  | ---  | 56    | 50   | 53   | 65    | 64     | 64   | 76  | 71        | 75   |
| 30     | ---      | ---  | ---  | 50    | 48   | 49   | 68    | 64     | 66   | 75  | 72        | 74   |
| 31     | ---      | ---  | ---  | 51    | 49   | 49   | 67    | 65     | 66   | --- | ---       | ---  |
| MONTH  | ---      | ---  | ---  | ---   | ---  | ---  | 68    | 44     | 54   | 77  | 63        | 68   |
| PERIOD | 77       | 30   | 49   |       |      |      |       |        |      |     |           |      |

## SHEEPSCOT RIVER BASIN

01038000 SHEEPSCOT RIVER AT NORTH WHITEFIELD, ME--Continued

## TEMPERATURE (DEG. C) OF WATER, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

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



TEMPERATURE (DEG. C) OF WATER, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

[illegible]

## KENNEBEC RIVER BASIN

01040500 MOOSEHEAD LAKE AT EAST OUTLET, ME

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

DRAINAGE AREA.--1,266 mi<sup>2</sup> (3,279 km<sup>2</sup>).

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 ft<sup>3</sup> (672,200,000 m<sup>3</sup>) 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 1976, is given below:

|                    |    |                    |    |                     |    |
|--------------------|----|--------------------|----|---------------------|----|
| October . . . . .  | 20 | February . . . . . | 30 | June . . . . .      | 70 |
| November . . . . . | 20 | March . . . . .    | 30 | July . . . . .      | 70 |
| December . . . . . | 30 | April . . . . .    | 45 | August . . . . .    | 70 |
| January . . . . .  | 30 | May . . . . .      | 20 | September . . . . . | 70 |

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

EXTREMES FOR CURRENT YEAR.--Maximum gage height observed, 17.94 ft (5.468 m) July 8; minimum observed, 11.80 ft (3.597 m) Oct. 11.

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

|      |        |      |        |
|------|--------|------|--------|
| 11.0 | 3,110  | 15.0 | 15,713 |
| 12.0 | 6,237  | 16.0 | 18,908 |
| 13.0 | 9,379  | 17.0 | 22,121 |
| 14.0 | 12,537 | 18.0 | 25,355 |

GAGE HEIGHT, IN FEET, AT 0700, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

| DAY | OCT   | NOV    | DEC    | JAN    | FEB    | MAR    | APR    | MAY    | JUN    | JUL    | AUG    | SEP    |
|-----|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 1   | 12.82 | 12.99  | 14.32  | 14.88  | 14.85  | 15.31  | 15.08  | 17.66  | 17.65  | 17.65  | 17.68  | 17.63  |
| 2   | 12.78 | 12.98  | 14.35  | 14.88  | 14.94  | 15.31  | 15.25  | 17.64  | 17.64  | 17.67  | 17.76  | 17.63  |
| 3   | 12.72 | 12.98  | 14.39  | 14.90  | 14.98  | 15.31  | 15.38  | 17.61  | 17.60  | 17.70  | 17.76  | 17.62  |
| 4   | 12.67 | 13.01  | 14.45  | 14.95  | 15.02  | 15.31  | 15.63  | 17.62  | 17.56  | 17.77  | 17.74  | 17.60  |
| 5   | 12.62 | 13.02  | 14.52  | 14.96  | 15.04  | 15.33  | 15.75  | 17.60  | 17.48  | 17.78  | 17.72  | 17.60  |
| 6   | 12.56 | 13.05  | 14.56  | 14.96  | 15.06  | 15.32  | 15.88  | 17.56  | 17.49  | 17.78  | 17.70  | 17.64  |
| 7   | 12.48 | 13.06  | 14.61  | 14.93  | 15.08  | 15.32  | 16.00  | 17.53  | 17.51  | 17.77  | 17.68  | 17.64  |
| 8   | 12.21 | 13.08  | 14.65  | 14.93  | 15.10  | 15.32  | 16.04  | 17.55  | 17.56  | 17.75  | 17.65  | 17.61  |
| 9   | 12.05 | 13.10  | 14.68  | 14.92  | 15.10  | 15.30  | 16.04  | 17.54  | 17.56  | 17.78  | 17.67  | 17.52  |
| 10  | 11.94 | 13.12  | 14.74  | 14.92  | 15.12  | 15.25  | 16.04  | 17.54  | 17.56  | 17.78  | 17.78  | 17.42  |
| 11  | 11.80 | 13.15  | 14.80  | 14.91  | 15.15  | 15.20  | 16.08  | 17.51  | 17.54  | 17.78  | 17.84  | 17.38  |
| 12  | 12.00 | 13.20  | 14.84  | 14.90  | 15.17  | 15.14  | 16.11  | 17.51  | 17.54  | 17.79  | 17.82  | 17.32  |
| 13  | 12.08 | 13.27  | 14.84  | 14.88  | 15.17  | 15.10  | 16.13  | 17.62  | 17.52  | 17.94  | 17.78  | 17.30  |
| 14  | 12.10 | 13.37  | 14.81  | 14.88  | 15.17  | 15.10  | 16.15  | 17.59  | 17.50  | 17.90  | 17.74  | 17.22  |
| 15  | 12.10 | 13.45  | 14.81  | 14.85  | 15.17  | 15.09  | 16.16  | 17.60  | 17.44  | 17.80  | 17.74  | 17.13  |
| 16  | 12.12 | 13.55  | 14.86  | 14.82  | 15.20  | 15.06  | 16.19  | 17.64  | 17.39  | 17.72  | 17.74  | 17.08  |
| 17  | 12.16 | 13.63  | 14.88  | 14.80  | 15.21  | 15.02  | 16.28  | 17.66  | 17.38  | 17.60  | 17.73  | 17.06  |
| 18  | 12.21 | 13.70  | 14.88  | 14.80  | 15.28  | 15.02  | 16.46  | 17.67  | 17.38  | 17.52  | 17.70  | 17.04  |
| 19  | 12.29 | 13.75  | 14.85  | 14.80  | 15.38  | 15.00  | 16.68  | 17.65  | 17.38  | 17.50  | 17.69  | 17.04  |
| 20  | 12.34 | 13.78  | 14.85  | 14.79  | 15.36  | 14.95  | 16.92  | 17.70  | 17.39  | 17.55  | 17.68  | 17.04  |
| 21  | 12.42 | 13.80  | 14.85  | 14.76  | 15.34  | 14.90  | 17.18  | 17.60  | 17.44  | 17.55  | 17.66  | 17.04  |
| 22  | 12.48 | 13.90  | 14.85  | 14.72  | 15.34  | 14.87  | 17.30  | 17.53  | 17.42  | 17.54  | 17.65  | 17.04  |
| 23  | 12.53 | 14.00  | 14.83  | 14.66  | 15.35  | 14.83  | 17.45  | 17.57  | 17.40  | 17.52  | 17.67  | 17.05  |
| 24  | 12.58 | 14.06  | 14.81  | 14.62  | 15.35  | 14.75  | 17.56  | 17.62  | 17.36  | 17.52  | 17.66  | 17.04  |
| 25  | 12.65 | 14.09  | 14.78  | 14.62  | 15.34  | 14.74  | 17.66  | 17.65  | 17.44  | 17.56  | 17.64  | 17.00  |
| 26  | 12.75 | 14.11  | 14.75  | 14.63  | 15.33  | 14.78  | 17.62  | 17.65  | 17.52  | 17.58  | 17.58  | 16.98  |
| 27  | 12.82 | 14.13  | 14.80  | 14.64  | 15.31  | 14.80  | 17.64  | 17.65  | 17.54  | 17.58  | 17.56  | 17.06  |
| 28  | 12.86 | 14.16  | 14.80  | 14.78  | 15.30  | 14.85  | 17.64  | 17.65  | 17.60  | 17.59  | 17.55  | 17.06  |
| 29  | 12.90 | 14.20  | 14.84  | 14.79  | 15.30  | 14.95  | 17.65  | 17.62  | 17.66  | 17.60  | 17.54  | 17.04  |
| 30  | 12.94 | 14.22  | 14.86  | 14.81  | -----  | 15.02  | 17.66  | 17.63  | 17.65  | 17.61  | 17.60  | 17.02  |
| 31  | 12.99 | -----  | 14.86  | 14.83  | -----  | 15.08  | -----  | 17.64  | -----  | 17.64  | 17.63  | -----  |
| MAX | 12.99 | 14.22  | 14.88  | 14.96  | 15.38  | 15.33  | 17.66  | 17.70  | 17.66  | 17.94  | 17.84  | 17.64  |
| MIN | 11.80 | 12.98  | 14.32  | 14.62  | 14.85  | 14.74  | 15.08  | 17.51  | 17.36  | 17.50  | 17.54  | 16.98  |
| †   | 9,347 | 13,234 | 15,268 | 15,172 | 16,670 | 15,968 | 24,253 | 24,189 | 24,221 | 24,189 | 24,156 | 22,185 |
| ‡   | +409  | +3,887 | +2,034 | -96    | +1,498 | -702   | +8,285 | -64    | +32    | -32    | -33    | -1,971 |

CAL YR: . . . . . ‡ -3,608

WTR YR: . . . . . ‡ +13,247

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

‡ Change in contents, in millions of cubic feet.

## KENNEBEC RIVER BASIN

111

## 01041000 KENNEBEC RIVER AT MOOSEHEAD, ME

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

DRAINAGE AREA.--1,266 mi<sup>2</sup> (3,279 km<sup>2</sup>).

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

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

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

REMARKS.--Records good. Some water diverted down west channel through gates in dam at West Outlet. Flow regulated by Moosehead Lake (station 01040500) and by Brassua Lake and First Roach Pond (Reservoirs in Kennebec River basin).

AVERAGE DISCHARGE.--57 years, 1,942 ft<sup>3</sup>/s (55.00 m<sup>3</sup>/s).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 16,700 ft<sup>3</sup>/s (473 m<sup>3</sup>/s) May 3, 1974, gage height, 9.74 ft (2.969 m); minimum, about 62 ft<sup>3</sup>/s (1.76 m<sup>3</sup>/s) Apr. 7-15, 1923.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 11,200 ft<sup>3</sup>/s (317 m<sup>3</sup>/s) Apr. 26, gage height, 8.26 ft (2.518 m); minimum, 235 ft<sup>3</sup>/s (6.66 m<sup>3</sup>/s) Oct. 13-15, Apr. 3, gage height, 2.40 ft (0.732 m).

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976  
MEAN VALUES

| DAY         | OCT   | NOV    | DEC   | JAN   | FEB   | MAR   | APR   | MAY    | JUN   | JUL   | AUG   | SEP   |
|-------------|-------|--------|-------|-------|-------|-------|-------|--------|-------|-------|-------|-------|
| 1           | 1960  | 1700   | 968   | 1450  | 455   | 804   | 1450  | 8320   | 3840  | 2300  | 610   | 1940  |
| 2           | 1960  | 1720   | 352   | 1450  | 467   | 1600  | 410   | 8370   | 4860  | 1740  | 1750  | 2240  |
| 3           | 1920  | 1720   | 352   | 970   | 472   | 1590  | 238   | 7830   | 4680  | 2260  | 2260  | 2230  |
| 4           | 1890  | 1740   | 357   | 650   | 465   | 1580  | 245   | 7710   | 4520  | 2450  | 2260  | 1640  |
| 5           | 2000  | 1740   | 356   | 1710  | 462   | 1920  | 246   | 7660   | 2160  | 2220  | 2220  | 926   |
| 6           | 3150  | 1740   | 352   | 2630  | 462   | 1480  | 590   | 7650   | 606   | 3060  | 2210  | 734   |
| 7           | 4110  | 1750   | 352   | 2160  | 462   | 922   | 1400  | 7020   | 856   | 2210  | 2200  | 1900  |
| 8           | 4130  | 1760   | 939   | 1420  | 462   | 2150  | 2210  | 6620   | 1750  | 2220  | 1220  | 3100  |
| 9           | 4510  | 1530   | 1330  | 1430  | 465   | 2760  | 2210  | 5420   | 1750  | 2240  | 1830  | 3820  |
| 10          | 4300  | 946    | 764   | 1440  | 465   | 2730  | 2220  | 5730   | 1910  | 1710  | 5080  | 3910  |
| 11          | 2580  | 960    | 385   | 1430  | 1090  | 2710  | 2230  | 3620   | 2130  | 822   | 7050  | 3900  |
| 12          | 586   | 966    | 1690  | 2040  | 1550  | 2690  | 2240  | 1750   | 2130  | 1660  | 7820  | 2730  |
| 13          | 240   | 589    | 1850  | 2590  | 1540  | 2020  | 2250  | 3970   | 1170  | 5710  | 6900  | 3270  |
| 14          | 235   | 314    | 1370  | 2580  | 1170  | 1500  | 2260  | 4260   | 2160  | 7790  | 4500  | 3820  |
| 15          | 235   | 314    | 788   | 2580  | 629   | 2240  | 2260  | 4260   | 3080  | 7640  | 3610  | 3770  |
| 16          | 240   | 316    | 392   | 2560  | 455   | 2650  | 2280  | 4450   | 2470  | 7430  | 3600  | 2430  |
| 17          | 240   | 320    | 1650  | 1920  | 458   | 2660  | 2310  | 4450   | 1750  | 7400  | 3590  | 2040  |
| 18          | 246   | 588    | 2600  | 1430  | 1160  | 2870  | 1220  | 4940   | 1570  | 5790  | 3360  | 1320  |
| 19          | 246   | 966    | 2120  | 1920  | 1570  | 3030  | 476   | 5700   | 1160  | 2180  | 2900  | 960   |
| 20          | 252   | 1090   | 1400  | 2530  | 1580  | 2990  | 483   | 8040   | 728   | 1550  | 2790  | 1670  |
| 21          | 252   | 1690   | 1400  | 2510  | 1570  | 2970  | 3000  | 9490   | 1150  | 1530  | 2780  | 1760  |
| 22          | 252   | 1140   | 2090  | 2080  | 1170  | 2950  | 4940  | 7560   | 1930  | 1520  | 1750  | 1590  |
| 23          | 252   | 346    | 2590  | 1370  | 1170  | 2920  | 5600  | 3490   | 2840  | 1190  | 1920  | 1590  |
| 24          | 252   | 824    | 2580  | 1370  | 1590  | 2440  | 5700  | 4890   | 3260  | 1200  | 2230  | 1590  |
| 25          | 257   | 1170   | 2560  | 1370  | 1570  | 921   | 7560  | 5920   | 2060  | 841   | 2230  | 1590  |
| 26          | 262   | 1170   | 2570  | 1990  | 1570  | 346   | 9840  | 4200   | 505   | 1410  | 2210  | 1090  |
| 27          | 506   | 1180   | 2580  | 1830  | 1250  | 349   | 8800  | 4660   | 357   | 2180  | 2210  | 1160  |
| 28          | 1390  | 896    | 1930  | 458   | 553   | 352   | 8560  | 4900   | 344   | 1740  | 2200  | 1380  |
| 29          | 1680  | 741    | 365   | 455   | 469   | 358   | 7990  | 3970   | 1920  | 514   | 1240  | 1840  |
| 30          | 1100  | 786    | 971   | 455   | ---   | 520   | 8400  | 3090   | 2970  | 1270  | 1120  | 2030  |
| 31          | 1080  | ---    | 1750  | 455   | ---   | 1390  | ---   | 2280   | ---   | 750   | 1220  | ---   |
| TOTAL       | 42313 | 32712  | 41753 | 51233 | 26751 | 58412 | 99618 | 172220 | 62616 | 84527 | 88870 | 63970 |
| MEAN        | 1365  | 1090   | 1347  | 1653  | 922   | 1884  | 3321  | 5555   | 2087  | 2727  | 2867  | 2132  |
| MAX         | 4510  | 1760   | 2600  | 2630  | 1590  | 3030  | 9840  | 9490   | 4860  | 7790  | 7820  | 3910  |
| MIN         | 235   | 314    | 352   | 455   | 455   | 346   | 238   | 1750   | 344   | 514   | 610   | 734   |
| CAL YR 1975 | TOTAL | 745769 | MEAN  | 2043  | MAX   | 5810  | MIN   | 235    |       |       |       |       |
| WTR YR 1976 | TOTAL | 824995 | MEAN  | 2254  | MAX   | 9840  | MIN   | 235    |       |       |       |       |

## KENNEBEC RIVER BASIN

01042500 KENNEBEC RIVER AT THE FORKS, ME

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

DRAINAGE AREA.--1,589 mi<sup>2</sup> (4,116 km<sup>2</sup>).

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

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

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

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

AVERAGE DISCHARGE.--75 years, 2,593 ft<sup>3</sup>/s (73.4 m<sup>3</sup>/s).

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

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 14,800 ft<sup>3</sup>/s (419 m<sup>3</sup>/s) Aug. 11, gage height, 8.17 ft (2.490 m); minimum daily, 305 ft<sup>3</sup>/s (8.64 m<sup>3</sup>/s) Jan. 25.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976  
MEAN VALUES

| DAY               | OCT     | NOV   | DEC   | JAN   | FEB   | MAR   | APR    | MAY    | JUN   | JUL    | AUG    | SEP   |
|-------------------|---------|-------|-------|-------|-------|-------|--------|--------|-------|--------|--------|-------|
| 1                 | 2990    | 720   | 1410  | 1180  | 586   | 1600  | 4200   | 11300  | 5170  | 2890   | 573    | 2370  |
| 2                 | 3560    | 714   | 970   | 1380  | 1950  | 2380  | 2740   | 11300  | 5980  | 3010   | 2820   | 2280  |
| 3                 | 3530    | 4090  | 952   | 758   | 1180  | 2850  | 3930   | 10900  | 5570  | 4060   | 2710   | 1910  |
| 4                 | 2470    | 1870  | 1900  | 322   | 820   | 1820  | 3960   | 10400  | 6230  | 5640   | 2520   | 1600  |
| 5                 | 1350    | 2290  | 2400  | 2950  | 1260  | 2800  | 4850   | 10600  | 1630  | 2990   | 2710   | 1230  |
| 6                 | 3750    | 2360  | 846   | 2790  | 1360  | 689   | 5280   | 10300  | 681   | 3990   | 2880   | 702   |
| 7                 | 3960    | 2500  | 469   | 2740  | 1170  | 782   | 4740   | 9900   | 2360  | 2750   | 2340   | 2630  |
| 8                 | 4030    | 500   | 1340  | 2210  | 1130  | 3300  | 4360   | 9120   | 1340  | 4040   | 1760   | 3410  |
| 9                 | 3940    | 422   | 1320  | 2300  | 1480  | 3590  | 5920   | 8990   | 1680  | 2710   | 2710   | 4190  |
| 10                | 3440    | 1850  | 1600  | 1740  | 1780  | 3500  | 3560   | 5990   | 2720  | 1560   | 6440   | 4160  |
| 11                | 1800    | 846   | 1810  | 1320  | 1560  | 2380  | 1560   | 6510   | 2370  | 896    | 10700  | 4300  |
| 12                | 1020    | 1910  | 1860  | 3340  | 2140  | 2830  | 4830   | 4090   | 2300  | 3620   | 10500  | 2670  |
| 13                | 1370    | 578   | 1250  | 3720  | 1590  | 2380  | 2830   | 4760   | 737   | 8220   | 9170   | 4280  |
| 14                | 1320    | 641   | 868   | 2320  | 1330  | 730   | 3210   | 5660   | 3990  | 11600  | 6580   | 4180  |
| 15                | 755     | 687   | 1070  | 1230  | 936   | 3370  | 4480   | 7570   | 2710  | 10700  | 5050   | 4230  |
| 16                | 2420    | 1220  | 1800  | 2550  | 1230  | 3960  | 5370   | 4450   | 2390  | 9540   | 5350   | 3230  |
| 17                | 1220    | 1420  | 2310  | 2290  | 1360  | 3730  | 5630   | 6940   | 2310  | 8600   | 4640   | 3210  |
| 18                | 923     | 2010  | 2310  | 751   | 1780  | 4480  | 2900   | 6710   | 1700  | 9460   | 4670   | 1630  |
| 19                | 601     | 1890  | 2330  | 2870  | 2170  | 4030  | 3170   | 7470   | 1260  | 3530   | 4280   | 669   |
| 20                | 969     | 2510  | 1830  | 2920  | 2380  | 2410  | 6700   | 10700  | 509   | 1610   | 3680   | 2370  |
| 21                | 741     | 2500  | 1240  | 2150  | 1530  | 1250  | 7000   | 11100  | 2520  | 1830   | 2730   | 1890  |
| 22                | 930     | 655   | 2830  | 1760  | 750   | 3420  | 6990   | 10900  | 3290  | 1830   | 1510   | 2260  |
| 23                | 779     | 620   | 2760  | 3240  | 2370  | 3160  | 8930   | 6450   | 3370  | 2610   | 2410   | 2700  |
| 24                | 1860    | 1880  | 3380  | 2090  | 2200  | 2700  | 9230   | 6500   | 3470  | 1100   | 2710   | 2740  |
| 25                | 1190    | 922   | 2550  | 305   | 1380  | 1690  | 10800  | 7720   | 2390  | 443    | 2540   | 1690  |
| 26                | 350     | 949   | 3570  | 2180  | 1370  | 2190  | 10700  | 7220   | 1960  | 2470   | 2860   | 709   |
| 27                | 2210    | 953   | 2330  | 2370  | 1520  | 1220  | 10800  | 5340   | 797   | 2840   | 2840   | 2510  |
| 28                | 1350    | 801   | 1350  | 380   | 913   | 1530  | 11100  | 5750   | 2110  | 1630   | 2570   | 2590  |
| 29                | 685     | 828   | 1790  | 1340  | 564   | 2220  | 10900  | 5750   | 2820  | 1530   | 740    | 2460  |
| 30                | 637     | 441   | 1660  | 876   | ---   | 1830  | 11000  | 3230   | 3900  | 1880   | 1950   | 2380  |
| 31                | 1670    | ---   | 1640  | 530   | ---   | 2950  | ---    | 2140   | ---   | 1470   | 2130   | ---   |
| TOTAL             | 57810   | 41577 | 55745 | 58902 | 41789 | 77771 | 181670 | 235760 | 80264 | 121049 | 117073 | 77180 |
| MEAN              | 1865    | 1386  | 1798  | 1900  | 1441  | 2509  | 6056   | 7605   | 2675  | 3905   | 3777   | 2573  |
| MAX               | 4030    | 4090  | 3570  | 3720  | 2380  | 4480  | 11100  | 11300  | 6230  | 11600  | 10700  | 4300  |
| MIN               | 350     | 422   | 469   | 305   | 564   | 689   | 1560   | 2140   | 509   | 443    | 573    | 669   |
| CAL YR 1975 TOTAL | 889525  |       | MEAN  | 2437  | MAX   | 8630  | MIN    | 217    |       |        |        |       |
| WTR YR 1976 TOTAL | 1146590 |       | MEAN  | 3133  | MAX   | 11600 | MIN    | 305    |       |        |        |       |

## 01043500 DEAD RIVER NEAR DEAD RIVER, ME

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

DRAINAGE AREA.--520 mi<sup>2</sup> (1,347 km<sup>2</sup>).

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 (Reservoirs in Kennebec River basin).

AVERAGE DISCHARGE.--37 years, 852 ft<sup>3</sup>/s (24.1 m<sup>3</sup>/s), 22.25 in/yr (565 mm/yr), unadjusted.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 18,000 ft<sup>3</sup>/s (510 m<sup>3</sup>/s) Sept. 12, 1954, gage height, 11.50 ft (3.505 m); no flow part of July 31, 1949, when flow was completely shut off by cofferdam during construction of Flagstaff Lake Dam.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 9,280 ft<sup>3</sup>/s (263 m<sup>3</sup>/s) May 20, gage height, 9.62 ft (2.932 m); minimum daily, 5.0 ft<sup>3</sup>/s (0.142 m<sup>3</sup>/s) Mar. 12-25.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976  
MEAN VALUES

| DAY   | OCT   | NOV   | DEC   | JAN   | FEB   | MAR    | APR   | MAY   | JUN   | JUL   | AUG   | SEP   |
|-------|-------|-------|-------|-------|-------|--------|-------|-------|-------|-------|-------|-------|
| 1     | 136   | 1230  | 1560  | 926   | 465   | 985    | 56    | 2230  | 1070  | 33    | 368   | 527   |
| 2     | 136   | 1140  | 660   | 924   | 198   | 765    | 50    | 2390  | 1330  | 160   | 1340  | 574   |
| 3     | 127   | 1330  | 415   | 917   | 32    | 765    | 36    | 3420  | 1590  | 730   | 1630  | 866   |
| 4     | 138   | 1430  | 432   | 915   | 13    | 640    | 33    | 4260  | 912   | 67    | 1110  | 941   |
| 5     | 136   | 1380  | 1290  | 910   | 11    | 460    | 26    | 3430  | 83    | 84    | 8270  | 1060  |
| 6     | 135   | 1400  | 1730  | 907   | 13    | 360    | 24    | 2680  | 102   | 40    | 421   | 613   |
| 7     | 135   | 2120  | 1640  | 901   | 16    | 365    | 277   | 2020  | 1450  | 65    | 695   | 69    |
| 8     | 133   | 2690  | 1560  | 898   | 31    | 370    | 454   | 1740  | 2720  | 100   | 629   | 67    |
| 9     | 133   | 1980  | 1490  | 893   | 133   | 370    | 454   | 1710  | 1990  | 171   | 75    | 67    |
| 10    | 560   | 1390  | 600   | 888   | 374   | 370    | 454   | 1510  | 498   | 156   | 2180  | 83    |
| 11    | 1010  | 1360  | 99    | 884   | 629   | 135    | 454   | 938   | 492   | 179   | 4180  | 86    |
| 12    | 883   | 1410  | 892   | 1100  | 936   | 5.0    | 455   | 903   | 487   | 336   | 2560  | 86    |
| 13    | 879   | 727   | 2130  | 1220  | 1080  | 5.0    | 454   | 2690  | 481   | 3030  | 1720  | 101   |
| 14    | 1030  | 39    | 2100  | 1210  | 1070  | 5.0    | 454   | 4820  | 932   | 3940  | 850   | 338   |
| 15    | 1300  | 18    | 1230  | 1200  | 1060  | 5.0    | 454   | 4200  | 1340  | 2060  | 666   | 474   |
| 16    | 1380  | 14    | 747   | 1190  | 1050  | 5.0    | 498   | 1330  | 1300  | 1730  | 1330  | 465   |
| 17    | 1310  | 12    | 747   | 1180  | 1040  | 5.0    | 567   | 660   | 1300  | 1120  | 1940  | 714   |
| 18    | 550   | 12    | 747   | 1170  | 1030  | 5.0    | 374   | 639   | 1490  | 810   | 1640  | 1200  |
| 19    | 17    | 11    | 746   | 1160  | 1020  | 5.0    | 189   | 1150  | 1790  | 338   | 1350  | 1210  |
| 20    | 55    | 11    | 745   | 1150  | 1020  | 5.0    | 177   | 4820  | 213   | 59    | 1310  | 1200  |
| 21    | 20    | 862   | 739   | 1130  | 1010  | 5.0    | 116   | 5910  | 214   | 73    | 742   | 1200  |
| 22    | 16    | 707   | 739   | 1120  | 1000  | 5.0    | 113   | 4040  | 214   | 64    | 215   | 1190  |
| 23    | 15    | 18    | 891   | 1110  | 995   | 5.0    | 117   | 3880  | 179   | 309   | 198   | 1180  |
| 24    | 562   | 16    | 956   | 1090  | 987   | 5.0    | 2460  | 2260  | 200   | 819   | 557   | 1160  |
| 25    | 864   | 572   | 955   | 1080  | 983   | 5.0    | 4220  | 1340  | 1640  | 294   | 1020  | 1150  |
| 26    | 872   | 1580  | 948   | 1070  | 976   | 7.0    | 1690  | 1380  | 620   | 48    | 1130  | 1150  |
| 27    | 1380  | 1880  | 946   | 555   | 974   | 11     | 1030  | 1410  | 673   | 156   | 1120  | 813   |
| 28    | 1360  | 1770  | 945   | 25    | 973   | 17     | 1850  | 1390  | 22    | 112   | 484   | 383   |
| 29    | 1390  | 1740  | 940   | 15    | 990   | 204    | 2060  | 1370  | 22    | 403   | 117   | 382   |
| 30    | 1430  | 1640  | 936   | 149   | ---   | 378    | 2090  | 1150  | 23    | 530   | 167   | 380   |
| 31    | 1320  | ---   | 929   | 462   | ---   | 19     | ---   | 1050  | ---   | 541   | 390   | ---   |
| TOTAL | 19412 | 30489 | 31484 | 28349 | 20109 | 6291.0 | 21686 | 72720 | 25377 | 18557 | 40404 | 19729 |
| MEAN  | 626   | 1016  | 1016  | 914   | 693   | 203    | 723   | 2346  | 846   | 599   | 1303  | 658   |
| MAX   | 1430  | 2690  | 2130  | 1220  | 1080  | 985    | 4220  | 5910  | 2720  | 3940  | 8270  | 1210  |
| MIN   | 15    | 11    | 99    | 15    | 11    | 5.0    | 24    | 639   | 22    | 33    | 75    | 67    |
| MEAN‡ | 683   | 692   | 485   | 309   | 525   | 1479   | 3412  | 2316  | 601   | 928   | 1242  | 381   |
| CFSM‡ | 1.31  | 1.33  | .93   | .59   | 1.01  | 2.84   | 6.56  | 4.45  | 1.16  | 1.78  | 2.39  | .73   |
| IN.‡  | 1.51  | 1.48  | 1.08  | .68   | 1.09  | 3.27   | 7.32  | 5.13  | 1.29  | 2.05  | 2.76  | .82   |

CAL YR 1975 TOTAL 290538.4 MEAN 796 MAX 3070 MIN 5.4 MEAN‡ 783 CFSM‡ 1.51 IN.‡ 20.45  
WTR YR 1976 TOTAL 334607.0 MEAN 914 MAX 8270 MIN 5.0 MEAN‡ 1088 CFSM‡ 2.09 IN.‡ 28.48

‡ Adjusted for change in contents in Flagstaff Lake.



## KENNEBEC RIVER BASIN

01045000 DEAD RIVER AT THE FORKS, ME

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

DRAINAGE AREA.--872 mi<sup>2</sup> (2,258 km<sup>2</sup>).

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

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

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

REMARKS.--Records good except those for winter period, which are fair. Flow regulated by Flagstaff Lake (Reservoirs in Kennebec River basin).

AVERAGE DISCHARGE.--71 years (water years 1902-6, 1911-76), 1,446 ft<sup>3</sup>/s (40.95 m<sup>3</sup>/s).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 28,700 ft<sup>3</sup>/s (813 m<sup>3</sup>/s) Mar. 20, 1936, gage height, 10.54 ft (3.213 m) from rating curve extended above 15,000 ft<sup>3</sup>/s (425 m<sup>3</sup>/s); minimum daily since September 1923, 61 ft<sup>3</sup>/s (1.73 m<sup>3</sup>/s) Dec. 23, 1968.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 9,720 ft<sup>3</sup>/s (275 m<sup>3</sup>/s) May 20, gage height, 6.32 ft (1.926 m); minimum daily, 222 ft<sup>3</sup>/s (6.29 m<sup>3</sup>/s) Oct. 9.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976  
MEAN VALUES

| DAY               | OCT    | NOV   | DEC   | JAN   | FEB      | MAR     | APR   | MAY    | JUN   | JUL   | AUG   | SEP   |
|-------------------|--------|-------|-------|-------|----------|---------|-------|--------|-------|-------|-------|-------|
| 1                 | 346    | 1460  | 1650  | 1220  | 1300     | 1260    | 2200  | 3780   | 1830  | 659   | 1330  | 833   |
| 2                 | 314    | 1370  | 1410  | 1210  | 1100     | 1180    | 3220  | 3850   | 1970  | 996   | 2530  | 854   |
| 3                 | 291    | 1430  | 828   | 1200  | 980      | 1120    | 3610  | 4870   | 2180  | 3260  | 3010  | 1080  |
| 4                 | 268    | 1620  | 797   | 1190  | 880      | 831     | 3330  | 6310   | 1830  | 2220  | 2480  | 1190  |
| 5                 | 261    | 1530  | 1160  | 1180  | 830      | 770     | 2710  | 5430   | 648   | 1240  | 1720  | 1270  |
| 6                 | 246    | 1560  | 2110  | 1180  | 780      | 593     | 2120  | 4120   | 526   | 835   | 1050  | 1120  |
| 7                 | 234    | 1970  | 1850  | 1170  | 750      | 658     | 2000  | 3580   | 1080  | 648   | 1190  | 416   |
| 8                 | 228    | 2980  | 1730  | 1160  | 725      | 687     | 2110  | 3110   | 3150  | 614   | 1470  | 298   |
| 9                 | 222    | 2500  | 1780  | 1150  | 710      | 677     | 1910  | 2940   | 2590  | 725   | 656   | 275   |
| 10                | 228    | 1570  | 1330  | 1140  | 700      | 672     | 1810  | 2640   | 1560  | 728   | 2760  | 267   |
| 11                | 1120   | 1580  | 475   | 1130  | 860      | 555     | 1820  | 2060   | 799   | 649   | 8330  | 327   |
| 12                | 1040   | 1600  | 613   | 1290  | 1180     | 343     | 1630  | 1940   | 767   | 1100  | 5730  | 404   |
| 13                | 1630   | 1570  | 2480  | 1640  | 1530     | 265     | 1520  | 4370   | 751   | 4150  | 3590  | 388   |
| 14                | 1480   | 831   | 2420  | 1630  | 1510     | 286     | 1480  | 6000   | 917   | 7490  | 2830  | 403   |
| 15                | 1540   | 1010  | 1800  | 1620  | 1480     | 247     | 1560  | 6190   | 1560  | 4260  | 2210  | 682   |
| 16                | 1690   | 755   | 1020  | 1610  | 1470     | 267     | 1900  | 3010   | 1550  | 3180  | 3060  | 663   |
| 17                | 1760   | 597   | 990   | 1600  | 1430     | 302     | 3920  | 1600   | 1550  | 2520  | 3780  | 681   |
| 18                | 1480   | 506   | 980   | 1600  | 1400     | 362     | 5790  | 1490   | 1590  | 1830  | 3250  | 1300  |
| 19                | 989    | 450   | 970   | 1600  | 1390     | 554     | 6740  | 1970   | 2070  | 1420  | 2470  | 1480  |
| 20                | 1070   | 409   | 960   | 1590  | 1370     | 576     | 6500  | 6080   | 1540  | 670   | 2280  | 1530  |
| 21                | 2130   | 647   | 955   | 1580  | 1350     | 382     | 5040  | 8730   | 547   | 579   | 1790  | 1490  |
| 22                | 1590   | 1750  | 960   | 1570  | 1340     | 549     | 3770  | 6080   | 520   | 512   | 923   | 1420  |
| 23                | 997    | 723   | 1180  | 1570  | 1330     | 706     | 3560  | 5630   | 514   | 482   | 584   | 1380  |
| 24                | 943    | 550   | 1300  | 1560  | 1320     | 779     | 4600  | 4690   | 733   | 1420  | 962   | 1340  |
| 25                | 1400   | 595   | 1290  | 1550  | 1300     | 752     | 6670  | 2940   | 2680  | 1190  | 1220  | 1300  |
| 26                | 1330   | 1680  | 1280  | 1540  | 1300     | 789     | 4560  | 2540   | 1610  | 478   | 1370  | 1290  |
| 27                | 1560   | 2270  | 1270  | 1200  | 1300     | 1010    | 2490  | 2360   | 1840  | 711   | 1420  | 1410  |
| 28                | 1790   | 2150  | 1260  | 763   | 1300     | 1550    | 3630  | 2190   | 984   | 706   | 1220  | 981   |
| 29                | 1580   | 2050  | 1250  | 637   | 1270     | 1990    | 3930  | 2050   | 578   | 914   | 532   | 805   |
| 30                | 1710   | 1850  | 1240  | 729   | ---      | 2420    | 3860  | 1830   | 478   | 991   | 559   | 717   |
| 31                | 1570   | ---   | 1230  | 1100  | ---      | 1860    | ---   | 1600   | ---   | 1270  | 596   | ---   |
| TOTAL             | 33037  | 41563 | 40568 | 40909 | 34185    | 24992   | 99990 | 115980 | 40942 | 48447 | 66902 | 27594 |
| MEAN              | 1066   | 1385  | 1309  | 1320  | 1179     | 806     | 3333  | 3741   | 1365  | 1563  | 2158  | 920   |
| MAX               | 2130   | 2980  | 2480  | 1640  | 1530     | 2420    | 6740  | 8730   | 3150  | 7490  | 8330  | 1530  |
| MIN               | 222    | 409   | 475   | 637   | 700      | 247     | 1480  | 1490   | 478   | 478   | 532   | 267   |
| CAL YR 1975 TOTAL | 481680 |       |       | 1320  | MAX 4390 | MIN 219 |       |        |       |       |       |       |
| WTR YR 1976 TOTAL | 615109 |       |       | 1641  | MAX 8730 | MIN 222 |       |        |       |       |       |       |



## KENNEBEC RIVER BASIN

115

01046500 KENNEBEC RIVER AT BINGHAM, ME  
(National stream-quality accounting network station)

LOCATION.--Lat 45°03'06", long 69°53'12", Somerset County, Hydrologic Unit 01030003, on right bank at Bingham 200 ft (60 m) downstream from highway bridge, 0.4 mi (0.6 km) downstream from Austin Stream, and 1.6 mi (2.6 km) downstream from Wyman Dam.

DRAINAGE AREA.--2,720 mi<sup>2</sup> (7,045 km<sup>2</sup>).

## WATER-DISCHARGE RECORDS

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

REVISED RECORDS.--WSP 1271: 1951(M). WSP 1301: 1936(M). WSP 1901: Drainage area.

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

REMARKS.--Records good. Flow regulated by Moosehead Lake (station 01040500), Brassua and Flagstaff Lakes, First Roach, Indian, Moxie, and Wyman Ponds (Reservoirs in Kennebec River basin). Considerable diurnal fluctuation caused by powerplant above station.

AVERAGE DISCHARGE.--48 years (water years 1908-9, 1931-76), 4,423 ft<sup>3</sup>/s (125 m<sup>3</sup>/s).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 58,800 ft<sup>3</sup>/s (1,670 m<sup>3</sup>/s) Mar. 20, 1936, gage height, 14.44 ft (4.401 m), from rating curve extended above 30,000 ft<sup>3</sup>/s (850 m<sup>3</sup>/s) on basis of computations of flow at Wyman Dam plus inflow; minimum daily, 110 ft<sup>3</sup>/s (3.12 m<sup>3</sup>/s) Dec. 25, 1947.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 25,600 ft<sup>3</sup>/s (725 m<sup>3</sup>/s) July 14, gage height, 11.59 ft (3.533 m); minimum daily, 1,990 ft<sup>3</sup>/s (56.4 m<sup>3</sup>/s) Feb. 1.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976  
MEAN VALUES

| DAY               | OCT     | NOV   | DEC   | JAN   | FEB   | MAR    | APR    | MAY    | JUN    | JUL    | AUG    | SEP    |
|-------------------|---------|-------|-------|-------|-------|--------|--------|--------|--------|--------|--------|--------|
| 1                 | 3300    | 3300  | 3140  | 2800  | 1990  | 3030   | 9270   | 14700  | 5120   | 4680   | 3130   | 3070   |
| 2                 | 3310    | 3230  | 3070  | 2400  | 2020  | 3530   | 10600  | 15400  | 7360   | 4840   | 5310   | 3010   |
| 3                 | 3330    | 3360  | 2820  | 2800  | 2250  | 3450   | 11000  | 16300  | 8610   | 8970   | 6850   | 3180   |
| 4                 | 3100    | 3280  | 2940  | 2900  | 2210  | 3270   | 10300  | 17700  | 8430   | 8660   | 6040   | 3200   |
| 5                 | 3270    | 3690  | 3140  | 3100  | 3120  | 3340   | 9610   | 16900  | 3460   | 7890   | 4860   | 3120   |
| 6                 | 3500    | 3480  | 3010  | 3150  | 2420  | 3150   | 9160   | 14000  | 3170   | 5260   | 4400   | 3430   |
| 7                 | 3600    | 3540  | 3300  | 3100  | 2550  | 3380   | 8990   | 13900  | 4040   | 4030   | 3720   | 4080   |
| 8                 | 3500    | 3730  | 3180  | 3250  | 2800  | 3530   | 8880   | 12400  | 4190   | 3220   | 3840   | 4120   |
| 9                 | 3500    | 3410  | 3570  | 3450  | 2500  | 3460   | 8520   | 11100  | 4240   | 3620   | 4150   | 4120   |
| 10                | 3600    | 3460  | 3290  | 3400  | 2900  | 3360   | 7130   | 9470   | 3880   | 3160   | 9000   | 4020   |
| 11                | 3550    | 3270  | 3100  | 3350  | 2650  | 3320   | 7150   | 8930   | 3780   | 3080   | 20000  | 3490   |
| 12                | 3400    | 3150  | 2750  | 3400  | 2800  | 3740   | 6940   | 7100   | 3590   | 4380   | 16000  | 3450   |
| 13                | 2950    | 3140  | 3050  | 3550  | 2650  | 3490   | 5620   | 10400  | 3630   | 14300  | 13000  | 4050   |
| 14                | 2700    | 2600  | 2990  | 3500  | 3000  | 3580   | 6400   | 11500  | 3650   | 21700  | 9900   | 4120   |
| 15                | 3300    | 2120  | 3020  | 3400  | 2900  | 3530   | 5690   | 14500  | 3770   | 15600  | 8410   | 3950   |
| 16                | 2800    | 2140  | 3250  | 3600  | 3200  | 3860   | 5670   | 9740   | 3490   | 12300  | 8350   | 4080   |
| 17                | 3300    | 2390  | 3330  | 3550  | 3100  | 3820   | 6890   | 7990   | 3670   | 11600  | 9180   | 4010   |
| 18                | 3000    | 2600  | 3130  | 3450  | 3250  | 3820   | 10500  | 8590   | 3730   | 11500  | 8420   | 3470   |
| 19                | 2300    | 2950  | 3290  | 3350  | 3080  | 3560   | 13400  | 9270   | 3630   | 6050   | 8240   | 3380   |
| 20                | 2300    | 3040  | 3400  | 3300  | 3410  | 3600   | 14600  | 18300  | 3470   | 3250   | 6340   | 3610   |
| 21                | 3400    | 3280  | 3600  | 3350  | 3210  | 3550   | 13400  | 22300  | 3650   | 3250   | 4860   | 3430   |
| 22                | 2600    | 3370  | 3400  | 3360  | 3260  | 3500   | 12000  | 18100  | 3800   | 3220   | 4690   | 3520   |
| 23                | 2500    | 3090  | 3600  | 3550  | 3100  | 3500   | 13800  | 12900  | 3760   | 3240   | 2960   | 3330   |
| 24                | 2900    | 2860  | 3670  | 3190  | 3000  | 3500   | 13300  | 12600  | 3740   | 2930   | 3470   | 4150   |
| 25                | 3050    | 2750  | 3340  | 3310  | 3250  | 3460   | 18500  | 11000  | 3720   | 2350   | 3710   | 3400   |
| 26                | 3150    | 3080  | 3280  | 3250  | 2990  | 3600   | 15700  | 10000  | 4320   | 3310   | 3720   | 3550   |
| 27                | 2950    | 2960  | 3400  | 3270  | 3070  | 3480   | 13000  | 8590   | 4850   | 3130   | 3840   | 3700   |
| 28                | 3070    | 2890  | 3300  | 2780  | 3320  | 5390   | 14900  | 8510   | 3780   | 3030   | 3450   | 3400   |
| 29                | 3170    | 2990  | 2800  | 2650  | 3030  | 8720   | 15300  | 8480   | 3530   | 3230   | 3400   | 3270   |
| 30                | 3260    | 3010  | 3100  | 2500  | ---   | 9310   | 15000  | 5920   | 3410   | 3130   | 3040   | 3530   |
| 31                | 3110    | ---   | 3000  | 2420  | ---   | 9080   | ---    | 5090   | ---    | 3170   | 2990   | ---    |
| TOTAL             | 96770   | 92160 | 99260 | 98430 | 83030 | 126910 | 321220 | 371680 | 127470 | 192080 | 199270 | 108240 |
| MEAN              | 3122    | 3072  | 3202  | 3175  | 2863  | 4094   | 10710  | 11990  | 4249   | 6196   | 6428   | 3608   |
| MAX               | 3600    | 3730  | 3670  | 3600  | 3410  | 9310   | 18500  | 22300  | 8610   | 21700  | 20000  | 4150   |
| MIN               | 2300    | 2120  | 2750  | 2400  | 1990  | 3030   | 5620   | 5090   | 3170   | 2350   | 2960   | 3010   |
| CAL YR 1975 TOTAL | 1543240 | MEAN  | 4228  | MAX   | 13900 | MIN    | 2120   |        |        |        |        |        |
| WTR YR 1976 TOTAL | 1916520 | MEAN  | 5236  | MAX   | 22300 | MIN    | 1990   |        |        |        |        |        |

01046500 KENNEBEC RIVER AT BINGHAM, ME--Continued

## WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 1966 to current year.

PERIOD OF DAILY RECORD. --

SPECIFIC CONDUCTANCE: Current year.

WATER TEMPERATURE: Current year.

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

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

EXTREMES FOR CURRENT YEAR. - -

SPECIFIC CONDUCTANCE: Maximum, 53 micromhos Feb. 2, 27, June 19; minimum, 22 micromhos Dec. 22, 23.

WATER TEMPERATURES: Maximum, 22.0°C July 18; minimum, 0.0°C on many days during winter periods.

## CHEMICAL ANALYSES, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

| DATE         | TIME | INSTAN-<br>TANEOUS<br>DIS-<br>CHARGE<br>(CFS) | SPE-<br>CIFIC<br>CON-<br>DUCT-<br>ANCE<br>(MICRO-<br>MHOS) | PH<br><br>(UNITS) | TEMPER-<br>ATURE<br>(DEG C) | TUR-<br>BID-<br>ITY<br>(JTU) | DIS-<br>SOLVED<br>OXYGEN<br>(MG/L) | PER-<br>CENT<br>SATUR-<br>ATION | FECAL<br>COLI-<br>FORM<br>(COL.<br>PER<br>100 ML) | STREP-<br>TOCOCCI<br>(COL-<br>ONIES<br>PER<br>100 ML) | HARD-<br>NESS<br>(CA,MG)<br>(MG/L) | NON-<br>CAR-<br>BONATE<br>HARD-<br>NESS<br>(MG/L) |
|--------------|------|-----------------------------------------------|------------------------------------------------------------|-------------------|-----------------------------|------------------------------|------------------------------------|---------------------------------|---------------------------------------------------|-------------------------------------------------------|------------------------------------|---------------------------------------------------|
| OCT<br>21... | 1500 | 4420                                          | 38                                                         | 6.6               | 12.0                        | --                           | 9.2                                | 85                              | 82                                                | 84                                                    | --                                 | --                                                |
| NOV<br>20... | 1430 | 682                                           | 37                                                         | 6.5               | 7.5                         | 1                            | 10.0                               | 83                              | 82                                                | 82                                                    | 10                                 | 3                                                 |
| DEC<br>23... | 1400 | 2640                                          | 40                                                         | 6.5               | 1.0                         | --                           | 11.8                               | 83                              | 82                                                | 81                                                    | --                                 | --                                                |
| JAN<br>21... | 1415 | 892                                           | 42                                                         | 6.7               | .0                          | --                           | 12.0                               | 82                              | <1                                                | <1                                                    | --                                 | --                                                |
| FEB<br>24... | 1545 | 2260                                          | 42                                                         | 6.7               | .5                          | 1                            | 12.6                               | 88                              | <1                                                | 81                                                    | 17                                 | 6                                                 |
| MAR<br>24... | 1500 | 2390                                          | 42                                                         | 6.7               | 1.0                         | --                           | 13.0                               | 92                              | <1                                                | <1                                                    | --                                 | --                                                |
| APR<br>30... | 1330 | 15200                                         | 32                                                         | 6.7               | 5.5                         | --                           | 12.4                               | 98                              | <1                                                | <1                                                    | --                                 | --                                                |
| JUN<br>04... | 1300 | 7210                                          | 34                                                         | 6.7               | 12.5                        | 1                            | 9.2                                | 86                              | 81                                                | 81                                                    | 32                                 | 20                                                |
| JUL<br>29... | 1800 | 4140                                          | 37                                                         | 6.6               | 19.0                        | --                           | 8.3                                | 88                              | 81                                                | 85                                                    | --                                 | --                                                |
| AUG<br>25... | 1500 | 6320                                          | 34                                                         | 6.7               | 19.5                        | 1                            | 7.9                                | 85                              | 82                                                | 82                                                    | 12                                 | 0                                                 |
| SEP<br>27... | 1600 | 6390                                          | 36                                                         | 6.6               | 15.5                        | --                           | 8.4                                | 83                              | 81                                                | 83                                                    | --                                 | --                                                |

[illegible]

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

[illegible]

[illegible]

01046500 KENNEBEC RIVER AT BINGHAM, ME--Continued

## QUALITATIVE AND ASSOCIATED QUANTITATIVE ANALYSES OF BIOLOGICAL DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

## PHYTOPLANKTON

| DATE   | TIME | ORGANISM            | COUNT<br>(CELLS/ML) | PERCENT<br>OF TOTAL | SAMPLING<br>METHOD |
|--------|------|---------------------|---------------------|---------------------|--------------------|
| Oct 21 | 1500 | CHLOROPHYTA         |                     |                     | DEPTH INTEGRATED   |
|        |      | ..CHLOROPHYCEAE     |                     |                     |                    |
|        |      | ...CHLOROCOCCALES   |                     |                     |                    |
|        |      | ...OCCYSTACEAE      |                     |                     |                    |
|        |      | ....OCCYSTIS        | 42                  | 5                   |                    |
|        |      | ....TETRAEDRON      |                     |                     |                    |
|        |      | CHRYSOPHYTA         |                     |                     |                    |
|        |      | ..BACILLARIOPHYCEAE |                     |                     |                    |
|        |      | ..CENTRALES         |                     |                     |                    |
|        |      | ...COSCINODISCACEAE |                     |                     |                    |
|        |      | ...MELOSIRA         |                     |                     |                    |
|        |      | ...RHIZOSOLENIACEAE | 640                 | 79                  |                    |
|        |      | ...RHIZOSOLENIA     |                     |                     |                    |
|        |      | ..PENNALES          |                     |                     |                    |
|        |      | ...ACHNANTHACEAE    | 85                  | 11                  |                    |
|        |      | ...ACHNANTHES       |                     |                     |                    |
|        |      | ...FRAGILARIACEAE   |                     |                     |                    |
|        |      | ...ASTERIONELLA     |                     |                     |                    |
|        |      | ...NITZSCHACEAE     | 42                  | 5                   |                    |
|        |      | ...NITZSCHIA        |                     |                     |                    |
|        |      | TOTAL               | 810                 |                     |                    |
| Nov 20 | 1430 | CHLOROPHYTA         |                     |                     | DEPTH INTEGRATED   |
|        |      | ..CHLOROPHYCEAE     |                     |                     |                    |
|        |      | ...CHLOROCOCCALES   |                     |                     |                    |
|        |      | ...CHLORACIACEAE    |                     |                     |                    |
|        |      | ...SCHROEDERIA      |                     |                     |                    |
|        |      | ...OCCYSTACEAE      | 8                   | 6                   |                    |
|        |      | ...ANKISTRODESMUS   |                     |                     |                    |
|        |      | ...SCENEDESMACEAE   |                     |                     |                    |
|        |      | ...CHUCIGENIA       | 17                  | 12                  |                    |
|        |      | ...SCENEDESMUS      |                     |                     |                    |
|        |      | ..ZYGNEMATALES      |                     |                     |                    |
|        |      | ...DESMIDIACEAE     |                     |                     |                    |
|        |      | ...ARTHRODESMUS     | 4                   | 3                   |                    |
|        |      | ...STAUROSTHUM      | 4                   | 3                   |                    |
|        |      | CHRYSOPHYTA         |                     |                     |                    |
|        |      | ..BACILLARIOPHYCEAE |                     |                     |                    |
|        |      | ..CENTRALES         |                     |                     |                    |
|        |      | ...COSCINODISCACEAE |                     |                     |                    |
|        |      | ...CYCLOTELLA       | 17                  | 12                  |                    |
|        |      | ...MELOSIRA         |                     |                     |                    |
|        |      | ...RHIZOSOLENIACEAE |                     |                     |                    |
|        |      | ...RHIZOSOLENIA     |                     |                     |                    |
|        |      | ..PENNALES          |                     |                     |                    |
|        |      | ...ACHNANTHACEAE    |                     |                     |                    |
|        |      | ...ACHNANTHES       | 4                   | 3                   |                    |
|        |      | ...FRAGILARIACEAE   |                     |                     |                    |
|        |      | ...ASTERIONELLA     | 51                  | 37                  |                    |
|        |      | ...SYNEDRA          |                     |                     |                    |
|        |      | ...GOMPHONEMATACEAE |                     |                     |                    |
|        |      | ...GOMPHONEMA       |                     |                     |                    |
|        |      | ...NITZSCHACEAE     |                     |                     |                    |
|        |      | ...NITZSCHIA        | 8                   | 6                   |                    |
|        |      | ...TABELLARIACEAE   |                     |                     |                    |
|        |      | ...TABELLARIA       | 4                   | 3                   |                    |
|        |      | ..CHRYSOPHYCEAE     |                     |                     |                    |
|        |      | ...CHRYSOMONADALES  |                     |                     |                    |
|        |      | ...OCHROMONADACEAE  |                     |                     |                    |
|        |      | ...DINOBRYON        | 17                  | 12                  |                    |
|        |      | CYANOPHYTA          |                     |                     |                    |
|        |      | ..MYXOPHYCEAE       |                     |                     |                    |
|        |      | ...CHROOCOCCALES    |                     |                     |                    |
|        |      | ...CHROOCOCCACEAE   |                     |                     |                    |
|        |      | ...ANACYSTIS        |                     |                     |                    |
|        |      | TOTAL               | 130                 |                     |                    |

| DATE   | TIME | ORGANISM            | COUNT<br>(CELLS/ML) | PERCENT<br>OF TOTAL | SAMPLING<br>METHOD |
|--------|------|---------------------|---------------------|---------------------|--------------------|
| Dec 23 | 1400 | CHLOROPHYTA         |                     |                     | DEPTH INTEGRATED   |
|        |      | ..CHLOROPHYCEAE     |                     |                     |                    |
|        |      | ...CHLOROCOCCALES   |                     |                     |                    |
|        |      | ...OCCYSTACEAE      |                     |                     |                    |
|        |      | ....ANKISTRODESMUS  | 12                  | 6                   |                    |
|        |      | ...SCENEDESMACEAE   |                     |                     |                    |
|        |      | ....CRUCIGENIA      |                     |                     |                    |
|        |      | CHRYCOPHYTA         |                     |                     |                    |
|        |      | ..BACILLARIOPHYCEAE |                     |                     |                    |
|        |      | ..CENTRALES         |                     |                     |                    |
|        |      | ...COSGINODISCACEAE |                     |                     |                    |
|        |      | ....CYCLOTETLA      | 12                  | 6                   |                    |
|        |      | ....MELOSIRA        |                     |                     |                    |
|        |      | ...RHIZOSOLENIACEAE |                     |                     |                    |
|        |      | ....RHIZOSOLENIA    | 87                  | 41                  |                    |
|        |      | ..PENNALES          |                     |                     |                    |
|        |      | ...ACHNANTHACEAE    |                     |                     |                    |
|        |      | ....ACHNANTHES      | 12                  | 6                   |                    |
|        |      | ...FRAGILARIACEAE   |                     |                     |                    |
|        |      | ....ASTERIONELLA    | 62                  | 29                  |                    |
|        |      | ....FRAGILARIA      |                     |                     |                    |
|        |      | ...NITZSCHIA        |                     |                     |                    |
|        |      | ....NITZSCHIA       | 12                  | 6                   |                    |
|        |      | ...TABELLARIA       |                     |                     |                    |
|        |      | ....TABELLARIA      |                     |                     |                    |
|        |      | ..CHRYCOPHYCEAE     |                     |                     |                    |
|        |      | ...CHRYCOPHYCEAE    |                     |                     |                    |
|        |      | ....CHROMONADACEAE  |                     |                     |                    |
|        |      | ....DINORRYON       | 12                  | 6                   |                    |
|        |      | TOTAL               | 210                 |                     |                    |
| Jan 21 | 1415 | CHLOROPHYTA         |                     |                     | DEPTH INTEGRATED   |
|        |      | ..CHLOROPHYCEAE     |                     |                     |                    |
|        |      | ...CHLOROCOCCALES   |                     |                     |                    |
|        |      | ...OCCYSTACEAE      |                     |                     |                    |
|        |      | ....ANKISTRODESMUS  |                     |                     |                    |
|        |      | CHRYCOPHYTA         |                     |                     |                    |
|        |      | ..BACILLARIOPHYCEAE |                     |                     |                    |
|        |      | ..CENTRALES         |                     |                     |                    |
|        |      | ...COSGINODISCACEAF |                     |                     |                    |
|        |      | ....CYCLOTETLA      |                     |                     |                    |
|        |      | ...RHIZOSOLENIACEAE |                     |                     |                    |
|        |      | ....RHIZOSOLENIA    | 100                 | 43                  |                    |
|        |      | ..PENNALES          |                     |                     |                    |
|        |      | ...ACHNANTHACEAE    |                     |                     |                    |
|        |      | ....ACHNANTHES      | 42                  | 17                  |                    |
|        |      | ...FRAGILARIACEAE   |                     |                     |                    |
|        |      | ....ASTERIONELLA    | 21                  | 9                   |                    |
|        |      | ....FRAGILARIA      |                     |                     |                    |
|        |      | ...SYNEDRA          | 10                  | 4                   |                    |
|        |      | ...NAVICULACEAE     |                     |                     |                    |
|        |      | ....NAVICULA        | 10                  | 4                   |                    |
|        |      | ...NITZSCHIA        |                     |                     |                    |
|        |      | ....NITZSCHIA       | 10                  | 4                   |                    |
|        |      | ..CHRYCOPHYCEAE     |                     |                     |                    |
|        |      | ...CHRYCOPHYCEAE    |                     |                     |                    |
|        |      | ....CHROMONADACEAE  |                     |                     |                    |
|        |      | ....DINORRYON       | 42                  | 17                  |                    |
|        |      | CYANOPHYTA          |                     |                     |                    |
|        |      | ..MYXOPHYCEAE       |                     |                     |                    |
|        |      | ...CHROOCOCCALES    |                     |                     |                    |
|        |      | ...CHROOCOCCACEAE   |                     |                     |                    |
|        |      | ...GOMPHOSPHAERIA   |                     |                     |                    |
|        |      | TOTAL               | 240                 |                     |                    |
| Feb 24 | 1545 | CHRYCOPHYTA         |                     |                     | DEPTH INTEGRATED   |
|        |      | ..BACILLARIOPHYCEAE |                     |                     |                    |
|        |      | ..CENTRALES         |                     |                     |                    |
|        |      | ...COSGINODISCACEAE |                     |                     |                    |
|        |      | ....CYCLOTETLA      |                     |                     |                    |
|        |      | ..PENNALES          |                     |                     |                    |
|        |      | ...ACHNANTHACEAE    |                     |                     |                    |
|        |      | ....ACHNANTHES      |                     |                     |                    |
|        |      | ...FRAGILARIACEAE   |                     |                     |                    |
|        |      | ....ASTERIONELLA    |                     |                     |                    |
|        |      | ....FRAGILARIA      | 120                 | 1                   |                    |
|        |      | ..MERIDIONACEAE     |                     |                     |                    |
|        |      | ...MERIDION         |                     |                     |                    |
|        |      | CYANOPHYTA          |                     |                     |                    |
|        |      | ..MYXOPHYCEAE       |                     |                     |                    |
|        |      | ...OSCILLATORIALES  |                     |                     |                    |
|        |      | ...OSCILLATORIA     | 7800                | 99                  |                    |
|        |      | TOTAL               | 7900                |                     |                    |



01046500 KENNEBEC RIVER AT BINGHAM, ME--Continued

QUALITATIVE AND ASSOCIATED QUANTITATIVE ANALYSES OF BIOLOGICAL DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

## PHYTOPLANKTON

| DATE   | TIME | ORGANISM                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | COUNT<br>(CELLS/ML)                                                         | PERCENT<br>OF TOTAL                                                         | SAMPLING<br>METHOD |
|--------|------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------|-----------------------------------------------------------------------------|--------------------|
| Mar 24 | 1500 | CHLOROPHYTA<br>..CHLOROPHYCEAE<br>..CHLOCOCCALES<br>...OCCYSTACEAE<br>....TETRAEDRON<br>CHRYSTOPHYTA<br>..BACILLARIOPHYCEAE<br>..CENTRALES<br>...COSGINODISCACEAE<br>....MELOSIRA<br>..PENNALES<br>....ACHNANTHACEAE<br>....ACHNANTHES<br>...DIATOMACEAE<br>....DIATOMA<br>...FRAGILARIACEAE<br>....ASTERIONELLA<br>....FRAGILARIA<br>....HANNAEA<br>...NAVICULACEAE<br>....NAVICULA<br>...NITZSCHACEAE<br>....NITZSCHIA<br>...TABELLARIACEAE<br>....TABELLARIA<br>TOTAL                                           | 5<br><br><br><br>16<br><br><br>16<br><br><br><br>5<br>5<br>5<br>5<br>5<br>5 | 8<br><br><br><br>25<br><br><br>25<br><br><br><br>8<br>8<br>8<br>8<br>8<br>8 | DEPTH INTEGRATED   |
| Apr 30 | 1330 | CHLOROPHYTA<br>..CHLOROPHYCEAE<br>..VOLVOCALES<br>...CHLAMYDOMONADACEAE<br>....CHLAMYDOMONAS<br>CHRYSTOPHYTA<br>..BACILLARIOPHYCEAE<br>..CENTRALES<br>...COSGINODISCACEAE<br>....CYCLOTELLA<br>....MELOSIRA<br>..PENNALES<br>....ACHNANTHACEAE<br>....ACHNANTHES<br>...GOMPHONEMACEAE<br>....GOMPHONEMA<br>...NAVICULACEAE<br>....NAVICULA<br>...NITZSCHACEAE<br>....NITZSCHIA<br>...TABELLARIACEAE<br>....TABELLARIA<br>..CHRYSTOPHYCEAE<br>...CHRYSONOMADALES<br>...CHROMULINACEAE<br>....CHRYSOCOCCLUS<br>TOTAL | 13<br><br><br><br>3<br>10<br><br><br>7<br>3<br>7<br>13<br>3<br>7            | 20<br><br><br><br>5<br>15<br><br><br>10<br>5<br>10<br>20<br>5<br>10         | DEPTH INTEGRATED   |

## QUALITATIVE AND ASSOCIATED QUANTITATIVE ANALYSES OF BIOLOGICAL DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

## PHYTOPLANKTON

| DATE   | TIME | ORGANISM               | COUNT<br>(CELLS/ML) | PERCENT<br>OF TOTAL | SAMPLING<br>METHOD |
|--------|------|------------------------|---------------------|---------------------|--------------------|
| Jun 04 | 1300 | CHLOROPHYTA            |                     |                     | DEPTH INTEGRATED   |
|        |      | ..CHLOROPHYCEAE        |                     |                     |                    |
|        |      | ..CHLOROCOCCALES       |                     |                     |                    |
|        |      | ...OCCYSTACEAE         |                     |                     |                    |
|        |      | ....CHLORELLA          | 11                  | 2                   |                    |
|        |      | ...VOLVOCALES          |                     |                     |                    |
|        |      | ...CHLAMYDOMONADACEAE  |                     |                     |                    |
|        |      | ....CHLAMYDOMONAS      | 15                  | 3                   |                    |
|        |      | CHRYSTOPHYTA           |                     |                     |                    |
|        |      | ..BACILLARIOPHYCEAE    |                     |                     |                    |
|        |      | ..CENTRALES            |                     |                     |                    |
|        |      | ...COSCINODISCACEAE    |                     |                     |                    |
|        |      | ....CYCLOTELLA         | 30                  | 5                   |                    |
|        |      | ....MELOSIRA           | 41                  | 7                   |                    |
|        |      | ..PENNALES             |                     |                     |                    |
|        |      | ...ACHNANTHACEAE       |                     |                     |                    |
|        |      | ....ACHNANTHES         | 26                  | 5                   |                    |
|        |      | ...EUNOTIACEAE         |                     |                     |                    |
|        |      | ....EUNOTIA            | 4                   | 1                   |                    |
|        |      | ...FRAGILARIACEAE      |                     |                     |                    |
|        |      | ....ASTERIONELLA       | 19                  | 3                   |                    |
|        |      | ....HANNAEA            | 4                   | 1                   |                    |
|        |      | ...GOMPHONEMACEAE      |                     |                     |                    |
|        |      | ....GOMPHONEMA         | 4                   | 1                   |                    |
|        |      | ...NAVICULACEAE        |                     |                     |                    |
|        |      | ....NAVICULA           | 19                  | 3                   |                    |
|        |      | ...NITZSCHACEAE        |                     |                     |                    |
|        |      | ....NITZSCHIA          | 23                  | 4                   |                    |
|        |      | ...TABELLARIACEAE      |                     |                     |                    |
|        |      | ....TABELLARIA         | 23                  | 4                   |                    |
|        |      | ..CHRYSTOPHYCEAE       |                     |                     |                    |
|        |      | ...CHRYDOMONADALES     |                     |                     |                    |
|        |      | ...CHROMULINACEAE      |                     |                     |                    |
|        |      | ....CHRYSOCOCCLUS      | 4                   | 1                   |                    |
|        |      | ...OCHROMONADACEAE     |                     |                     |                    |
|        |      | ....DINOBRYON          | 23                  | 4                   |                    |
|        |      | CYANOPHYTA             |                     |                     |                    |
|        |      | ..MYXOPHYCEAE          |                     |                     |                    |
|        |      | ...CHROOCOCCALES       |                     |                     |                    |
|        |      | ...CHROOCOCCACEAE      |                     |                     |                    |
|        |      | ....ANACYSTIS          | 270                 | 47                  |                    |
|        |      | ...OSCILLATORIALES     |                     |                     |                    |
|        |      | ...NOSTOCACEAE         |                     |                     |                    |
|        |      | ....ANABAENA           | 53                  | 9                   |                    |
|        |      | TOTAL                  | 570                 |                     |                    |
| Jul 29 | 1800 | CHLOROPHYTA            |                     |                     | DEPTH INTEGRATED   |
|        |      | ..CHLOROPHYCEAE        |                     |                     |                    |
|        |      | ..CHLOROCOCCALES       |                     |                     |                    |
|        |      | ...HYDRODICTYACEAE     |                     |                     |                    |
|        |      | ....PEDIASTRUM         | 40                  | 3                   |                    |
|        |      | ...SCENEDESMACEAE      |                     |                     |                    |
|        |      | ....SCENEDESMUS        | 20                  | 2                   |                    |
|        |      | ...TETRASPORALES       |                     |                     |                    |
|        |      | ...COCCOMYXACEAE       |                     |                     |                    |
|        |      | ....ELAKATOTHRIX       | 20                  | 2                   |                    |
|        |      | ...ZYGNEMATALES        |                     |                     |                    |
|        |      | ...DESMIDIACEAE        |                     |                     |                    |
|        |      | ....EUASTRUM           | 20                  | 2                   |                    |
|        |      | CHRYSTOPHYTA           |                     |                     |                    |
|        |      | ..BACILLARIOPHYCEAE    |                     |                     |                    |
|        |      | ..CENTRALES            |                     |                     |                    |
|        |      | ...COSCINODISCACEAE    |                     |                     |                    |
|        |      | ....MELOSIRA           | 50                  | 4                   |                    |
|        |      | ..PENNALES             |                     |                     |                    |
|        |      | ...ACHNANTHACEAE       |                     |                     |                    |
|        |      | ....ACHNANTHES         | 10                  | 1                   |                    |
|        |      | ...FRAGILARIACEAE      |                     |                     |                    |
|        |      | ....FRAGILARIA         | 10                  | 1                   |                    |
|        |      | ...NITZSCHACEAE        |                     |                     |                    |
|        |      | ....NITZSCHIA          | 20                  | 2                   |                    |
|        |      | CYANOPHYTA             |                     |                     |                    |
|        |      | ..MYXOPHYCEAE          |                     |                     |                    |
|        |      | ...CHROOCOCCALES       |                     |                     |                    |
|        |      | ...CHROOCOCCACEAE      |                     |                     |                    |
|        |      | ....ANACYSTIS          |                     |                     |                    |
|        |      | .....ANACYSTIS INCERTA | 1100                | 85                  |                    |
|        |      | TOTAL                  | 1300                |                     |                    |

QUALITATIVE AND ASSOCIATED QUANTITATIVE ANALYSES OF BIOLOGICAL DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

| DATE   | TIME | ORGANISM            | COUNT<br>(CELLS/ML) | PERCENT<br>OF TOTAL | SAMPLING<br>METHOD |
|--------|------|---------------------|---------------------|---------------------|--------------------|
| Aug 25 | 1500 | CHLOROPHYTA         |                     |                     | DEPTH INTEGRATED   |
|        |      | ..CHLOROPHYCEAE     |                     |                     |                    |
|        |      | ...CHLOROCOCCALES   |                     |                     |                    |
|        |      | ...HYDRODICTYACEAE  |                     |                     |                    |
|        |      | ....PEDIASTRUM      | 34                  | 8                   |                    |
|        |      | ...OCCYSTACEAE      |                     |                     |                    |
|        |      | ....ANKISTRODESMUS  | 12                  | 3                   |                    |
|        |      | ....QUADRIGULA      | 6                   | 1                   |                    |
|        |      | ...SCENEDESMACEAE   |                     |                     |                    |
|        |      | ....CRUCIGENIA      | 25                  | 6                   |                    |
|        |      | ....SCENEDESMUS     | 19                  | 4                   |                    |
|        |      | ..TFTRASPOHALES     |                     |                     |                    |
|        |      | ...COCCOMYXACEAE    |                     |                     |                    |
|        |      | ....ELAKATOTHRIX    | 6                   | 1                   |                    |
|        |      | CHRYSOPHYTA         |                     |                     |                    |
|        |      | ..BACILLARIOPHYCEAE |                     |                     |                    |
|        |      | ..CENTRALES         |                     |                     |                    |
|        |      | ...COSCINODISCEAE   |                     |                     |                    |
|        |      | ....CYCLOTELLA      | 12                  | 3                   |                    |
|        |      | ...PENNALES         |                     |                     |                    |
|        |      | ....ACHNANTHACEAE   |                     |                     |                    |
|        |      | ....ACHNANTHES      | 16                  | 3                   |                    |
|        |      | ...FRAGILARIACEAE   |                     |                     |                    |
|        |      | ....ASTERIONELLA    | 16                  | 3                   |                    |
|        |      | ....SYNEDRA         | 3                   | 1                   |                    |
|        |      | ...NITZSCHIACEAE    |                     |                     |                    |
|        |      | ....NITZSCHIA       | 6                   | 1                   |                    |
|        |      | ..CHRYSOPHYCEAE     |                     |                     |                    |
|        |      | ...CHRYSOMONADALES  |                     |                     |                    |
|        |      | ...OCHROMONADACEAE  |                     |                     |                    |
|        |      | ....DINOBRYON       | 3                   | 1                   |                    |
|        |      | ...SYNURACEAE       |                     |                     |                    |
|        |      | ....SYNURA          | 22                  | 5                   |                    |
|        |      | CYANOPHYTA          |                     |                     |                    |
|        |      | ..MYXOPHYCEAE       |                     |                     |                    |
|        |      | ...CHROOCOCCALES    |                     |                     |                    |
|        |      | ...CHROOCOCCACEAE   |                     |                     |                    |
|        |      | ....AGMENELLUM      | 210                 | 47                  |                    |
|        |      | ....ANACYSTIS       | 47                  | 10                  |                    |
|        |      | PYRRHOPHYTA         |                     |                     |                    |
|        |      | ..DINOPHYCEAE       |                     |                     |                    |
|        |      | ...PERIDINIALES     |                     |                     |                    |
|        |      | ...GLENODINIACEAE   |                     |                     |                    |
|        |      | ....GLENODINIUM     | 9                   | 2                   |                    |
|        |      | TOTAL               | 450                 |                     |                    |
| Sep 27 | 1600 | CHLOROPHYTA         |                     |                     | DEPTH INTEGRATED   |
|        |      | ..CHLOROPHYCEAE     |                     |                     |                    |
|        |      | ...CHLOROCOCCALES   |                     |                     |                    |
|        |      | ...SCENEDESMACEAE   |                     |                     |                    |
|        |      | ....CRUCIGENIA      | 83                  | 46                  |                    |
|        |      | CHRYSOPHYTA         |                     |                     |                    |
|        |      | ..BACILLARIOPHYCEAE |                     |                     |                    |
|        |      | ..CENTRALES         |                     |                     |                    |
|        |      | ...COSCINODISCEAE   |                     |                     |                    |
|        |      | ....CYCLOTELLA      | 31                  | 17                  |                    |
|        |      | ...PENNALES         |                     |                     |                    |
|        |      | ....ACHNANTHACEAE   |                     |                     |                    |
|        |      | ....ACHNANTHES      | 10                  | 6                   |                    |
|        |      | ...DIATOMACEAE      |                     |                     |                    |
|        |      | ....DIATOMA         | 41                  | 23                  |                    |
|        |      | ...FRAGILARIACEAE   |                     |                     |                    |
|        |      | ....ASTERIONELLA    |                     |                     |                    |
|        |      | ...NITZSCHIACEAE    |                     |                     |                    |
|        |      | ....NITZSCHIA       | 10                  | 6                   |                    |
|        |      | ...TABELLARIACEAE   |                     |                     |                    |
|        |      | ....TABELLARIA      | 5                   | 3                   |                    |
|        |      | TOTAL               | 180                 |                     |                    |

QUALITATIVE AND QUANTITATIVE ANALYSES OF BIOLOGICAL DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

| DATE   |    | LENGTH OF EXPOSURE (DAYS) | BIOMASS (G/SQ M) |            | PERIPHYTON    |               | BIOMASS PIGMENT RATIO | SAMPLING METHOD |  |
|--------|----|---------------------------|------------------|------------|---------------|---------------|-----------------------|-----------------|--|
|        |    |                           | DRY WEIGHT       | ASH WEIGHT | CHLOROPHYLL A | CHLOROPHYLL B |                       |                 |  |
|        |    |                           |                  |            | (MG/SQ M)     | (MG/SQ M)     |                       |                 |  |
| AUG 25 | 27 | 3.9                       | 2.8              | 0.7        | 0.1           | 1600          | ARTIFICIAL            | SUBSTRATE       |  |
| SEP 27 | 33 | 5.1                       | 3.0              | 3.0        | 0.5           | 700           | ARTIFICIAL            | SUBSTRATE       |  |

## KENNEBEC RIVER BASIN

01046500 KENNEBEC RIVER AT BINGHAM, ME--Continued

SPECIFIC CONDUCTANCE (MICROMHOS/CM AT 25 DEG. C) • WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

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

## KENNEBEC RIVER BASIN

125

01046500 KENNEBEC RIVER AT RINGHAM, ME--Continued

SPECIFIC CONDUCTANCE (MICROMHOS/CM AT 25 DEG. C), WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

| DAY   | JUNE |     |      | JULY |     |      | AUGUST |     |      | SEPTEMBER |     |      |
|-------|------|-----|------|------|-----|------|--------|-----|------|-----------|-----|------|
|       | MAX  | MIN | MEAN | MAX  | MIN | MEAN | MAX    | MIN | MEAN | MAX       | MIN | MEAN |
| 1     | 41   | 39  | 40   | 48   | 41  | 43   | 40     | 38  | 39   | 44        | 42  | 43   |
| 2     | 41   | 39  | 40   | 42   | 40  | 41   | 39     | 38  | 39   | 45        | 42  | 44   |
| 3     | 41   | 39  | 40   | 41   | 41  | 41   | 40     | 39  | 40   | 44        | 43  | 43   |
| 4     | 44   | 41  | 42   | 46   | 41  | 43   | 41     | 39  | 40   | 44        | 39  | 42   |
| 5     | 43   | 38  | 40   | 46   | 42  | 44   | 41     | 39  | 39   | 44        | 42  | 43   |
| 6     | 42   | 38  | 40   | 47   | 42  | 44   | 41     | 36  | 37   | 44        | 42  | 43   |
| 7     | 42   | 39  | 40   | 48   | 41  | 44   | 37     | 36  | 36   | 45        | 43  | 44   |
| 8     | 44   | 39  | 41   | 53   | 41  | 45   | 37     | 36  | 36   | 45        | 44  | 44   |
| 9     | 42   | 39  | 41   | 49   | 41  | 44   | 36     | 36  | 36   | 45        | 43  | 44   |
| 10    | 44   | 39  | 41   | 49   | 41  | 44   | 36     | 35  | 36   | 44        | 43  | 44   |
| 11    | 45   | 39  | 41   | 51   | 42  | 45   | 40     | 35  | 37   | 44        | 43  | 43   |
| 12    | 41   | 40  | 40   | 48   | 42  | 43   | 42     | 36  | 39   | 44        | 44  | 44   |
| 13    | 47   | 40  | 42   | 42   | 42  | 42   | 44     | 36  | 41   | 45        | 44  | 44   |
| 14    | 44   | 40  | 41   | 43   | 42  | 42   | 46     | 41  | 74   | 45        | 44  | 44   |
| 15    | 46   | 41  | 42   | 42   | 42  | 42   | 47     | 41  | 45   | 45        | 45  | 45   |
| 16    | 43   | 41  | 42   | 43   | 41  | 42   | 45     | 37  | 41   | 50        | 45  | 47   |
| 17    | 44   | 41  | 42   | 43   | 41  | 42   | ---    | --- | ---  | ---       | --- | ---  |
| 18    | 46   | 41  | 42   | 46   | 42  | 43   | ---    | --- | ---  | ---       | --- | ---  |
| 19    | 53   | 41  | 45   | ---  | --- | ---  | ---    | --- | ---  | ---       | --- | ---  |
| 20    | 52   | 41  | 45   | ---  | --- | ---  | ---    | --- | ---  | ---       | --- | ---  |
| 21    | 52   | 41  | 44   | ---  | --- | ---  | ---    | --- | ---  | ---       | --- | ---  |
| 22    | 51   | 42  | 44   | ---  | --- | ---  | ---    | --- | ---  | ---       | --- | ---  |
| 23    | 51   | 42  | 44   | ---  | --- | ---  | ---    | --- | ---  | ---       | --- | ---  |
| 24    | 51   | 42  | 44   | ---  | --- | ---  | ---    | --- | ---  | ---       | --- | ---  |
| 25    | 50   | 41  | 44   | ---  | --- | ---  | ---    | --- | ---  | ---       | --- | ---  |
| 26    | 42   | 42  | 42   | ---  | --- | ---  | 39     | 36  | 37   | ---       | --- | ---  |
| 27    | 43   | 42  | 42   | ---  | --- | ---  | 41     | 40  | 41   | ---       | --- | ---  |
| 28    | 50   | 42  | 44   | ---  | --- | ---  | 43     | 40  | 41   | 38        | 35  | 36   |
| 29    | 49   | 42  | 43   | ---  | --- | ---  | 43     | 41  | 42   | 37        | 35  | 36   |
| 30    | 49   | 41  | 43   | 42   | 39  | 40   | 44     | 41  | 42   | 37        | 35  | 36   |
| 31    | ---  | --- | ---  | 42   | 37  | 39   | 44     | 41  | 43   | ---       | --- | ---  |
| MONTH | 53   | 38  | 42   | ---  | --- | ---  | ---    | --- | ---  | ---       | --- | ---  |
| YEAR  | 217  | 24  | 38   |      |     |      |        |     |      |           |     |      |

TEMPERATURE (DEG. C) OF WATER, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

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

TEMPERATURE (DEG. C) OF WATER, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

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



01047000 CARRABASSETT RIVER NEAR NORTH ANSON, ME

LOCATION.--Lat 44°52'09", long 69°57'20", Somerset County, Hydrologic Unit 01030003, on left bank 3.4 mi (5.5 km) upstream from Mill Stream and North Anson.

DRAINAGE AREA.--354 mi<sup>2</sup> (917 km<sup>2</sup>).

PERIOD OF RECORD.--November and December 1901, June 1902 to May 1907, August 1925 to current year. Monthly discharge only for some periods, published in WSP 1301.

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

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

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

AVERAGE DISCHARGE.--55 years (water years 1902-06, 1926-76), 713 ft<sup>3</sup>/s (20.19 m<sup>3</sup>/s), 27.34 in/yr (694 mm/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 30,800 ft<sup>3</sup>/s (872 m<sup>3</sup>/s) Mar. 19, 1936, gage height, 21.17 ft (6.453 m); minimum, 18 ft<sup>3</sup>/s (0.51 m<sup>3</sup>/s) Oct. 29, 1929, gage height, 2.02 ft (0.616 m).

EXTREMES FOR CURRENT YEAR.--Peak discharges above base of 6,000 ft<sup>3</sup>/s (170 m<sup>3</sup>/s) and maximums (\*):

| Date    | Time | Discharge<br>(ft <sup>3</sup> /s)<br>(m <sup>3</sup> /s) | Gage height<br>(ft)<br>(m) | Date    | Time | Discharge<br>(ft <sup>3</sup> /s)<br>(m <sup>3</sup> /s) | Gage height<br>(ft)<br>(m) |
|---------|------|----------------------------------------------------------|----------------------------|---------|------|----------------------------------------------------------|----------------------------|
| Mar. 29 | 0200 | 7,530 213                                                | 9.91 3.021                 | July 13 | 1600 | 8,320 236                                                | 10.38 3.164                |
| Apr. 2  | 0300 | *18,000 510                                              | *15.46 4.712               | Aug. 10 | 2200 | 9,990 283                                                | 11.33 3.453                |

Minimum discharge, 90 ft<sup>3</sup>/s (2.55 m<sup>3</sup>/s) Oct. 11, gage height, 2.80 ft (0.853 m).

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976  
MEAN VALUES

| DAY         | OCT   | NOV    | DEC      | JAN       | FEB    | MAR       | APR      | MAY   | JUN   | JUL   | AUG   | SEP  |
|-------------|-------|--------|----------|-----------|--------|-----------|----------|-------|-------|-------|-------|------|
| 1           | 201   | 229    | 583      | 310       | 600    | 430       | 6760     | 1190  | 591   | 1840  | 1630  | 407  |
| 2           | 176   | 220    | 1070     | 290       | 920    | 400       | 11300    | 1940  | 660   | 1660  | 2250  | 416  |
| 3           | 154   | 213    | 790      | 280       | 1400   | 380       | 6570     | 2090  | 502   | 1970  | 1440  | 362  |
| 4           | 138   | 202    | 617      | 270       | 1110   | 360       | 5190     | 2770  | 469   | 1940  | 1040  | 309  |
| 5           | 124   | 194    | 484      | 260       | 920    | 360       | 3730     | 1860  | 416   | 1220  | 768   | 291  |
| 6           | 116   | 177    | 486      | 250       | 770    | 370       | 2850     | 1460  | 364   | 828   | 553   | 278  |
| 7           | 111   | 170    | 572      | 240       | 680    | 365       | 2760     | 1310  | 333   | 612   | 439   | 251  |
| 8           | 106   | 170    | 475      | 235       | 590    | 370       | 2420     | 1560  | 328   | 559   | 378   | 223  |
| 9           | 100   | 179    | 425      | 225       | 530    | 355       | 1970     | 1370  | 305   | 660   | 322   | 204  |
| 10          | 95    | 190    | 520      | 220       | 485    | 350       | 1830     | 1110  | 268   | 516   | 3910  | 192  |
| 11          | 92    | 425    | 800      | 215       | 460    | 330       | 1910     | 956   | 239   | 403   | 5130  | 323  |
| 12          | 152   | 453    | 600      | 215       | 435    | 320       | 1550     | 1520  | 221   | 1460  | 2310  | 446  |
| 13          | 801   | 815    | 510      | 220       | 400    | 320       | 1330     | 3270  | 207   | 5460  | 1540  | 322  |
| 14          | 470   | 1320   | 450      | 220       | 385    | 315       | 1420     | 1890  | 195   | 4210  | 1230  | 265  |
| 15          | 317   | 1100   | 400      | 220       | 370    | 305       | 1650     | 1450  | 186   | 2300  | 1380  | 228  |
| 16          | 259   | 820    | 360      | 215       | 360    | 290       | 2020     | 1060  | 171   | 1360  | 1800  | 208  |
| 17          | 282   | 670    | 325      | 210       | 355    | 300       | 4170     | 718   | 172   | 1020  | 1430  | 196  |
| 18          | 447   | 560    | 295      | 200       | 350    | 310       | 4900     | 838   | 178   | 1280  | 1060  | 194  |
| 19          | 1000  | 485    | 270      | 195       | 360    | 310       | 4530     | 3330  | 159   | 1030  | 821   | 229  |
| 20          | 823   | 430    | 250      | 190       | 380    | 410       | 3670     | 5780  | 149   | 829   | 686   | 230  |
| 21          | 1450  | 480    | 260      | 185       | 360    | 720       | 2570     | 3530  | 242   | 661   | 550   | 208  |
| 22          | 904   | 1290   | 280      | 185       | 350    | 1300      | 1960     | 3010  | 259   | 551   | 381   | 191  |
| 23          | 644   | 960    | 295      | 180       | 390    | 1150      | 2620     | 2200  | 202   | 449   | 338   | 181  |
| 24          | 507   | 650    | 290      | 180       | 500    | 1000      | 2020     | 1740  | 196   | 558   | 307   | 173  |
| 25          | 429   | 525    | 280      | 180       | 485    | 1150      | 1560     | 1420  | 394   | 702   | 287   | 161  |
| 26          | 414   | 490    | 280      | 175       | 450    | 1450      | 1410     | 1170  | 820   | 445   | 209   | 155  |
| 27          | 389   | 463    | 360      | 230       | 455    | 2250      | 1570     | 976   | 752   | 323   | 293   | 503  |
| 28          | 339   | 442    | 400      | 900       | 455    | 5540      | 1580     | 842   | 543   | 938   | 445   | 621  |
| 29          | 305   | 428    | 380      | 1200      | 450    | 7010      | 1510     | 690   | 405   | 646   | 560   | 412  |
| 30          | 283   | 379    | 355      | 1020      | ---    | 5910      | 1380     | 475   | 507   | 544   | 830   | 330  |
| 31          | 254   | ---    | 330      | 760       | ---    | 5540      | ---      | 424   | ---   | 1140  | 530   | ---  |
| TOTAL       | 11882 | 15129  | 13792    | 9875      | 15755  | 39970     | 90710    | 53949 | 10433 | 38114 | 34847 | 8509 |
| MEAN        | 383   | 504    | 445      | 319       | 543    | 1289      | 3024     | 1740  | 348   | 1229  | 1124  | 284  |
| MAX         | 1450  | 1320   | 1070     | 1200      | 1400   | 7010      | 11300    | 5780  | 820   | 5460  | 5130  | 621  |
| MIN         | 92    | 170    | 250      | 175       | 350    | 290       | 1330     | 424   | 149   | 323   | 209   | 155  |
| CFSM        | 1.08  | 1.42   | 1.26     | .90       | 1.53   | 3.64      | 8.54     | 4.92  | .98   | 3.47  | 3.18  | .80  |
| IN.         | 1.25  | 1.59   | 1.45     | 1.04      | 1.66   | 4.20      | 9.53     | 5.67  | 1.10  | 4.01  | 3.66  | .89  |
| CAL YR 1975 | TOTAL | 224850 | MEAN 616 | MAX 4500  | MIN 55 | CFSM 1.74 | IN 23.63 |       |       |       |       |      |
| WTR YR 1976 | TOTAL | 342965 | MEAN 937 | MAX 11300 | MIN 92 | CFSM 2.65 | IN 36.04 |       |       |       |       |      |

## KENNEBEC RIVER BASIN

01048000 SANDY RIVER NEAR MERCER, ME

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

DRAINAGE AREA.--514 mi<sup>2</sup> (1,331 km<sup>2</sup>).

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

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

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

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

AVERAGE DISCHARGE.--48 years, 960 ft<sup>3</sup>/s (27.19 m<sup>3</sup>/s), 25.36 in/yr (644 mm/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 38,600 ft<sup>3</sup>/s (1,090 m<sup>3</sup>/s) Mar. 19, 1936, gage height, 16.75 ft (5.105 m), from rating curve extended above 13,000 ft<sup>3</sup>/s (368 m<sup>3</sup>/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 ft<sup>3</sup>/s (0.91 m<sup>3</sup>/s) Sept. 22-26, 1939, gage height, 2.15 ft (0.655 m).

EXTREMES FOR CURRENT YEAR.--Peak discharges above base of 6,000 ft<sup>3</sup>/s (170 m<sup>3</sup>/s) and maximums (\*):

| Date    | Time | Discharge<br>(ft <sup>3</sup> /s) (m <sup>3</sup> /s) | Gage height<br>(ft) (m) | Date    | Time | Discharge<br>(ft <sup>3</sup> /s) (m <sup>3</sup> /s) | Gage height<br>(ft) (m) |
|---------|------|-------------------------------------------------------|-------------------------|---------|------|-------------------------------------------------------|-------------------------|
| Mar. 29 | -    | 7,200 204                                             | - -                     | May 20  | 0500 | 10,200 289                                            | 8.99 2.740              |
| Apr. 2  | 1000 | *18,700 530                                           | *11.90 3.627            | Aug. 11 | 0600 | 8,470 240                                             | 8.36 2.548              |
| Apr. 18 | 0800 | 7,000 198                                             | 7.77 2.368              |         |      |                                                       |                         |

Minimum discharge, 133 ft<sup>3</sup>/s (3.77 m<sup>3</sup>/s) Oct. 11, gage height, 2.88 ft (0.878 m).

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976  
MEAN VALUES

| DAY               | OCT    | NOV   | DEC   | JAN   | FEB   | MAR   | APR       | MAY      | JUN   | JUL   | AUG   | SEP   |
|-------------------|--------|-------|-------|-------|-------|-------|-----------|----------|-------|-------|-------|-------|
| 1                 | 352    | 404   | 1020  | 510   | 950   | 630   | 6500      | 1400     | 774   | 1180  | 2220  | 636   |
| 2                 | 288    | 377   | 1860  | 480   | 1200  | 600   | 14300     | 2280     | 985   | 1560  | 3050  | 747   |
| 3                 | 246    | 359   | 1700  | 460   | 1600  | 570   | 10000     | 3110     | 767   | 1010  | 1650  | 721   |
| 4                 | 211    | 346   | 1020  | 440   | 1800  | 560   | 7720      | 3580     | 663   | 871   | 1070  | 573   |
| 5                 | 183    | 336   | 736   | 415   | 1550  | 560   | 5700      | 2450     | 594   | 652   | 817   | 508   |
| 6                 | 167    | 323   | 743   | 400   | 1350  | 560   | 4540      | 1850     | 517   | 476   | 660   | 473   |
| 7                 | 156    | 295   | 790   | 385   | 1200  | 560   | 4630      | 1640     | 468   | 372   | 564   | 416   |
| 8                 | 148    | 297   | 586   | 375   | 1050  | 570   | 4120      | 2080     | 427   | 327   | 518   | 363   |
| 9                 | 142    | 388   | 538   | 360   | 930   | 560   | 3350      | 1860     | 409   | 598   | 525   | 319   |
| 10                | 139    | 433   | 800   | 350   | 860   | 560   | 3080      | 1460     | 364   | 578   | 3230  | 289   |
| 11                | 135    | 1020  | 1700  | 340   | 800   | 540   | 3200      | 1240     | 325   | 375   | 6550  | 314   |
| 12                | 195    | 993   | 1260  | 335   | 760   | 520   | 2520      | 1380     | 293   | 586   | 2610  | 652   |
| 13                | 800    | 1850  | 850   | 330   | 720   | 520   | 2090      | 4180     | 272   | 3290  | 1590  | 497   |
| 14                | 679    | 3130  | 705   | 325   | 700   | 520   | 2240      | 2230     | 258   | 3610  | 1200  | 388   |
| 15                | 456    | 3020  | 630   | 320   | 670   | 520   | 2520      | 1640     | 250   | 1840  | 1440  | 326   |
| 16                | 377    | 1760  | 570   | 315   | 640   | 510   | 2750      | 1360     | 234   | 1210  | 3580  | 288   |
| 17                | 350    | 1310  | 535   | 310   | 625   | 515   | 5370      | 1160     | 280   | 897   | 2390  | 269   |
| 18                | 634    | 1070  | 490   | 300   | 610   | 530   | 6210      | 1140     | 322   | 1060  | 1440  | 274   |
| 19                | 1530   | 922   | 465   | 295   | 600   | 530   | 5570      | 3720     | 260   | 883   | 1080  | 274   |
| 20                | 1300   | 813   | 445   | 290   | 605   | 520   | 4240      | 8080     | 226   | 657   | 884   | 351   |
| 21                | 2710   | 791   | 440   | 285   | 600   | 730   | 3010      | 4610     | 216   | 519   | 754   | 311   |
| 22                | 1540   | 2830  | 445   | 280   | 590   | 1020  | 2290      | 3660     | 283   | 416   | 658   | 272   |
| 23                | 1050   | 2040  | 460   | 270   | 620   | 1700  | 3300      | 2710     | 338   | 342   | 573   | 247   |
| 24                | 812    | 1380  | 460   | 265   | 660   | 1520  | 2550      | 2120     | 274   | 924   | 482   | 235   |
| 25                | 676    | 1140  | 470   | 260   | 680   | 1350  | 1910      | 1790     | 266   | 1480  | 418   | 223   |
| 26                | 698    | 999   | 480   | 260   | 680   | 1590  | 1750      | 1540     | 357   | 821   | 369   | 214   |
| 27                | 674    | 899   | 530   | 430   | 680   | 2400  | 2250      | 1350     | 681   | 650   | 384   | 435   |
| 28                | 576    | 845   | 580   | 1010  | 670   | 5300  | 2070      | 1210     | 576   | 941   | 780   | 1030  |
| 29                | 524    | 830   | 590   | 1400  | 660   | 6900  | 1820      | 1050     | 444   | 853   | 735   | 623   |
| 30                | 483    | 752   | 570   | 1250  | ---   | 6320  | 1590      | 909      | 359   | 602   | 1500  | 454   |
| 31                | 446    | ---   | 535   | 1100  | ---   | 6020  | ---       | 802      | ---   | 1290  | 889   | ---   |
| TOTAL             | 18677  | 31952 | 22603 | 14145 | 25060 | 45805 | 123190    | 69591    | 12482 | 30870 | 44610 | 12722 |
| MEAN              | 602    | 1065  | 729   | 456   | 864   | 1478  | 4106      | 2245     | 416   | 996   | 1439  | 424   |
| MAX               | 2710   | 3130  | 1860  | 1400  | 1800  | 6900  | 14300     | 8080     | 985   | 3610  | 6550  | 1030  |
| MIN               | 135    | 295   | 440   | 260   | 590   | 510   | 1590      | 802      | 216   | 327   | 369   | 214   |
| CFSM              | 1.17   | 2.07  | 1.42  | .89   | 1.68  | 2.88  | 7.99      | 4.37     | .81   | 1.94  | 2.80  | .82   |
| IN.               | 1.35   | 2.31  | 1.64  | 1.02  | 1.81  | 3.32  | 8.92      | 5.04     | .90   | 2.23  | 3.23  | .92   |
| CAL YR 1975 TOTAL | 338940 |       |       | 929   | 6940  | 73    | CFSM 1.81 | IN 24.53 |       |       |       |       |
| WTR YR 1976 TOTAL | 451707 |       |       | 1234  | 14300 | 135   | CFSM 2.40 | IN 32.69 |       |       |       |       |

## 01049000 SEBASTICOOK RIVER NEAR PITTSFIELD, ME

LOCATION.--Lat 44°43'00", long 69°24'56", Somerset County, Hydrologic Unit 01030003, on right bank 1.7 mi (2.7 km) upstream from Twentyfivemile Stream and 5.0 mi (8.0 km) south of Pittsfield.

DRAINAGE AREA.--579 mi<sup>2</sup> (1,500 km<sup>2</sup>).

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

REVISED RECORDS.--WSP 1271: Drainage area.

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

REMARKS.--Records good except those for winter period and period of no gage-height record, 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 ft<sup>3</sup> (66,410,000 m<sup>3</sup>).

AVERAGE DISCHARGE.--47 years (water years 1930-76), 951 ft<sup>3</sup>/s (26.93 m<sup>3</sup>/s), 22.30 in/yr (566 mm/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 14,400 ft<sup>3</sup>/s (408 m<sup>3</sup>/s) Mar. 22, 1936, gage height, 13.18 ft (4.017 m); minimum daily, 4.5 ft<sup>3</sup>/s (0.13 m<sup>3</sup>/s) Nov. 10, 1956.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 9,160 ft<sup>3</sup>/s (259 m<sup>3</sup>/s) Apr. 5, gage height, 10.33 ft (3.149 m); minimum daily, 100 ft<sup>3</sup>/s (2.83 m<sup>3</sup>/s) June 24.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976  
MEAN VALUES

| DAY               | OCT    | NOV   | DEC   | JAN   | FEB   | MAR   | APR    | MAY   | JUN  | JUL   | AUG   | SEP   |
|-------------------|--------|-------|-------|-------|-------|-------|--------|-------|------|-------|-------|-------|
| 1                 | 168    | 589   | 1810  | 675   | 2980  | 1280  | 4480   | 1280  | 570  | 258   | 1700  | 344   |
| 2                 | 155    | 554   | 1930  | 675   | 3200  | 1200  | 5590   | 1450  | 510  | 300   | 1800  | 465   |
| 3                 | 144    | 519   | 1980  | 670   | 3730  | 1120  | 6790   | 1600  | 440  | 399   | 1850  | 508   |
| 4                 | 138    | 513   | 1950  | 665   | 4060  | 1090  | 8280   | 1650  | 390  | 536   | 1790  | 475   |
| 5                 | 133    | 496   | 1840  | 665   | 4370  | 1160  | 9120   | 1600  | 360  | 733   | 1660  | 504   |
| 6                 | 127    | 448   | 1730  | 660   | 4210  | 1180  | 9010   | 1550  | 320  | 869   | 1490  | 639   |
| 7                 | 127    | 403   | 1650  | 660   | 3760  | 1190  | 8220   | 1450  | 290  | 893   | 1330  | 623   |
| 8                 | 125    | 397   | 1520  | 660   | 3000  | 1170  | 7540   | 1400  | 270  | 861   | 1180  | 565   |
| 9                 | 121    | 415   | 1400  | 660   | 2500  | 1120  | 6580   | 1300  | 250  | 839   | 1080  | 519   |
| 10                | 119    | 394   | 1400  | 660   | 2100  | 1100  | 5680   | 1250  | 225  | 894   | 1920  | 702   |
| 11                | 117    | 539   | 1520  | 660   | 1800  | 1050  | 4890   | 1200  | 210  | 927   | 2730  | 901   |
| 12                | 133    | 700   | 1430  | 655   | 1600  | 995   | 4260   | 1350  | 195  | 750   | 3090  | 925   |
| 13                | 204    | 1100  | 1210  | 655   | 1500  | 1000  | 3740   | 1400  | 180  | 751   | 3140  | 879   |
| 14                | 238    | 1770  | 1060  | 650   | 1350  | 995   | 3300   | 1450  | 170  | 844   | 3020  | 830   |
| 15                | 241    | 2140  | 965   | 650   | 1250  | 968   | 2910   | 1400  | 155  | 897   | 2780  | 782   |
| 16                | 244    | 2250  | 914   | 665   | 1150  | 959   | 2640   | 1350  | 150  | 894   | 2680  | 743   |
| 17                | 247    | 2170  | 856   | 680   | 1110  | 950   | 2500   | 1300  | 140  | 893   | 2700  | 711   |
| 18                | 302    | 2010  | 823   | 685   | 1060  | 968   | 2200   | 1250  | 143  | 808   | 2530  | 678   |
| 19                | 415    | 1840  | 780   | 685   | 1050  | 914   | 2050   | 1350  | 133  | 690   | 2270  | 629   |
| 20                | 570    | 1690  | 759   | 685   | 1020  | 905   | 1900   | 1550  | 123  | 627   | 2090  | 571   |
| 21                | 1040   | 1540  | 740   | 680   | 972   | 1040  | 1800   | 1900  | 113  | 565   | 1970  | 551   |
| 22                | 1150   | 1820  | 730   | 670   | 971   | 1530  | 1600   | 2050  | 108  | 505   | 1790  | 513   |
| 23                | 1050   | 2040  | 720   | 650   | 1140  | 1670  | 1500   | 1900  | 104  | 436   | 1610  | 465   |
| 24                | 932    | 2080  | 710   | 635   | 1240  | 1710  | 1450   | 1700  | 100  | 745   | 1250  | 393   |
| 25                | 812    | 2030  | 705   | 625   | 1280  | 1940  | 1400   | 1500  | 116  | 1590  | 886   | 350   |
| 26                | 735    | 1950  | 700   | 625   | 1260  | 2100  | 1400   | 1350  | 154  | 1790  | 664   | 321   |
| 27                | 684    | 1920  | 700   | 720   | 1240  | 2330  | 1400   | 1200  | 176  | 1710  | 481   | 336   |
| 28                | 635    | 1940  | 690   | 1100  | 1340  | 2900  | 1350   | 1050  | 179  | 1600  | 391   | 335   |
| 29                | 590    | 1890  | 685   | 2000  | 1310  | 3500  | 1320   | 920   | 190  | 1620  | 342   | 312   |
| 30                | 590    | 1800  | 680   | 2820  | ---   | 3950  | 1290   | 770   | 202  | 1680  | 382   | 288   |
| 31                | 609    | ---   | 680   | 3110  | ---   | 4250  | ---    | 690   | ---  | 1680  | 359   | ---   |
| TOTAL             | 12895  | 39947 | 35267 | 26955 | 57553 | 48234 | 116190 | 43160 | 6666 | 28584 | 52955 | 16857 |
| MEAN              | 416    | 1332  | 1138  | 870   | 1985  | 1556  | 3873   | 1392  | 222  | 922   | 1708  | 562   |
| MAX               | 1150   | 2250  | 1980  | 3110  | 4370  | 4250  | 9120   | 2050  | 570  | 1790  | 3140  | 925   |
| MTN               | 117    | 394   | 680   | 625   | 971   | 905   | 1290   | 690   | 100  | 258   | 342   | 288   |
| CAL YR 1975 TOTAL | 311667 | MEAN  | 854   | MAX   | 4240  | MIN   | 27     |       |      |       |       |       |
| WTR YR 1976 TOTAL | 485263 | MEAN  | 1326  | MAX   | 9120  | MIN   | 100    |       |      |       |       |       |

## KENNEBEC RIVER BASIN

01049300 NORTH BRANCH TANNING BROOK NEAR MANCHESTER, ME

LOCATION.--Lat 44°21'00", long 69°51'07", Kennebec County, Hydrologic Unit 01030003, on right bank 28 ft (8.5 m) upstream from culvert under road between U.S. Highway 202 and State Highway 135, 1,800 ft (550 m) upstream from mouth, and 1.8 mi (2.9 km) north of Manchester.

DRAINAGE AREA.--0.93 mi<sup>2</sup> (2.41 km<sup>2</sup>).

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.--12 years (water years 1965-76), 2.05 ft<sup>3</sup>/s (0.0581 m<sup>3</sup>/s), 29.93 in/yr (760 mm/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 195 ft<sup>3</sup>/s (5.52 m<sup>3</sup>/s) Dec. 17, 1973; minimum, 0.05 ft<sup>3</sup>/s (0.001 m<sup>3</sup>/s) Aug. 21, 1970, Aug. 2, 16, 1975.

EXTREMES FOR CURRENT YEAR.--Peak discharges above base of 30 ft<sup>3</sup>/s (0.85 m<sup>3</sup>/s) and maximums (\*):

| Date   | Time | Discharge<br>(ft <sup>3</sup> /s) (m <sup>3</sup> /s) | Gage height<br>(ft) (m) | Date   | Time | Discharge<br>(ft <sup>3</sup> /s) (m <sup>3</sup> /s) | Gage height<br>(ft) (m) |
|--------|------|-------------------------------------------------------|-------------------------|--------|------|-------------------------------------------------------|-------------------------|
| Feb. 2 | 0815 | 43 1.22                                               | 4.83 1.472              | May 19 | 1330 | 35 0.99                                               | 4.71 1.436              |
| Apr. 1 | 2300 | *87 2.46                                              | *5.29 1.612             | Aug. 9 | 2345 | 85 2.41                                               | 2.41 1.606              |

Minimum discharge, 0.18 ft<sup>3</sup>/s (0.005 m<sup>3</sup>/s) all or part of each day, June 19-21, gage height, 3.53 ft (1.076 m).

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976  
MEAN VALUES

| DAY   | OCT   | NOV   | DEC   | JAN   | FEB   | MAR    | APR   | MAY    | JUN   | JUL   | AUG   | SEP   |
|-------|-------|-------|-------|-------|-------|--------|-------|--------|-------|-------|-------|-------|
| 1     | 1.0   | .42   | 3.2   | .89   | 1.4   | 1.4    | 25    | 1.2    | .66   | 1.7   | 6.8   | .70   |
| 2     | .72   | .72   | 2.6   | .86   | 25    | 1.2    | 29    | 7.5    | .58   | .92   | 5.3   | .66   |
| 3     | .62   | .74   | 2.0   | .84   | 17    | 1.2    | 14    | 3.6    | .50   | .75   | 2.1   | .86   |
| 4     | .50   | .70   | 1.6   | .61   | 6.2   | 1.0    | 12    | 2.7    | .42   | .80   | 1.2   | .75   |
| 5     | .44   | .68   | 1.4   | .78   | 2.7   | 1.2    | 8.0   | 1.4    | .38   | .54   | .92   | .70   |
| 6     | .39   | .64   | 1.5   | .76   | 2.1   | 1.4    | 6.4   | 1.7    | .33   | .42   | .75   | .66   |
| 7     | .34   | .64   | 1.2   | .74   | 1.8   | 1.7    | 5.7   | 2.0    | .30   | .33   | .70   | .62   |
| 8     | .31   | 1.0   | 1.0   | .72   | 1.5   | 1.1    | 4.8   | 2.6    | .30   | .42   | .66   | .58   |
| 9     | .29   | .92   | 1.5   | .70   | 1.3   | 1.1    | 3.9   | 1.4    | .30   | .70   | 9.9   | .58   |
| 10    | .22   | 2.4   | 2.4   | .68   | 1.1   | .86    | 3.3   | 1.6    | .30   | .58   | 27    | .54   |
| 11    | .93   | 3.4   | 1.4   | .66   | 1.1   | .90    | 3.0   | 1.5    | .30   | .46   | 6.7   | .66   |
| 12    | 1.9   | 5.4   | 1.5   | .64   | 1.0   | .86    | 2.5   | 3.9    | .24   | .42   | 3.0   | .70   |
| 13    | 1.2   | 2.8   | 1.2   | .63   | 1.1   | 1.1    | 2.2   | 3.9    | .24   | .50   | 2.1   | .66   |
| 14    | .88   | 7.4   | 1.3   | .62   | 1.1   | 1.5    | 2.2   | 2.3    | .24   | .65   | 1.8   | .62   |
| 15    | .64   | 5.4   | 1.3   | .62   | 1.2   | 1.3    | 2.1   | 2.0    | .24   | .49   | 2.8   | .58   |
| 16    | .81   | 3.4   | 1.2   | .61   | 1.2   | 1.1    | 2.0   | 1.6    | .30   | .60   | 3.6   | .54   |
| 17    | 2.0   | 2.4   | .92   | .60   | 1.1   | 1.4    | 1.9   | 1.2    | .35   | .51   | 2.2   | .47   |
| 18    | 3.5   | 2.0   | .82   | .60   | .92   | .89    | 1.8   | 2.4    | .35   | .44   | 2.0   | .48   |
| 19    | 4.2   | 1.7   | .70   | .59   | 1.6   | .97    | 1.7   | 15     | .27   | .36   | 1.6   | .50   |
| 20    | 5.8   | 1.8   | .64   | .58   | 1.5   | 1.6    | 1.7   | 9.3    | .18   | .47   | 1.4   | .54   |
| 21    | 3.4   | 6.4   | .71   | .54   | 1.1   | 5.3    | 1.9   | 5.7    | .30   | .40   | 1.2   | .42   |
| 22    | 2.4   | 3.5   | .77   | .57   | 4.3   | 7.6    | 3.0   | 11     | .50   | .35   | .95   | .33   |
| 23    | 1.8   | 2.0   | .74   | .57   | 4.9   | 2.3    | 2.2   | 7.3    | .35   | .27   | .80   | .30   |
| 24    | 1.5   | 1.9   | .72   | .58   | 1.7   | 4.1    | 1.3   | 4.2    | .27   | .70   | .67   | .30   |
| 25    | 1.3   | 1.8   | .77   | .59   | 1.4   | 5.9    | 1.2   | 1.6    | 1.3   | 1.4   | .55   | .30   |
| 26    | 1.5   | 1.6   | 1.3   | .60   | 1.6   | 7.9    | 2.1   | 1.2    | 2.0   | 1.0   | .38   | .30   |
| 27    | 1.3   | 1.6   | 1.4   | 3.6   | 3.6   | 9.4    | 2.6   | 1.0    | 1.0   | .75   | .62   | .86   |
| 28    | 1.2   | 1.5   | 1.2   | 1.8   | 3.3   | 19     | 2.1   | 1.0    | .70   | 1.2   | .80   | .75   |
| 29    | 1.1   | 1.4   | 1.1   | 4.9   | 1.7   | 12     | 1.7   | .92    | .58   | .92   | .92   | .50   |
| 30    | .95   | 2.0   | 1.0   | 4.9   | ---   | 9.7    | 1.4   | .80    | .62   | 1.0   | 1.0   | .42   |
| 31    | .89   | ---   | .95   | 2.6   | ---   | 8.7    | ---   | .70    | ---   | 2.2   | .86   | ---   |
| TOTAL | 44.35 | 75.32 | 40.64 | 56.42 | 96.08 | 116.18 | 152.7 | 105.22 | 14.40 | 22.31 | 91.28 | 16.88 |
| MEAN  | 1.43  | 2.51  | 1.31  | 1.82  | 3.31  | 3.75   | 5.09  | 3.39   | .48   | .72   | 2.94  | .56   |
| MAX   | 5.8   | 8.8   | 3.2   | 18    | 25    | 19     | 29    | 15     | 2.0   | 2.2   | 27    | .86   |
| MIN   | .28   | .64   | .68   | .57   | .98   | .86    | 1.2   | .70    | .18   | .27   | .38   | .30   |
| CFSM  | 1.54  | 2.70  | 1.41  | 1.96  | 3.56  | 4.03   | 5.47  | 3.65   | .52   | .77   | 3.16  | .60   |
| IN.   | 1.77  | 3.01  | 1.62  | 2.25  | 3.84  | 4.64   | 6.10  | 4.20   | .58   | .89   | 3.65  | .67   |

CAL YR 1975 TOTAL 671.45 MEAN 1.84 MAX 20 MIN .07 CFSM 1.98 IN 26.83  
WTR YR 1976 TOTAL 831.78 MEAN 2.27 MAX 29 MIN .18 CFSM 2.44 IN 33.24

NOTE.--No gage-height record Oct. 1 to Nov. 11, Nov 15 to Jan. 21.

## 01049400 COBBOSSEECONTEE LAKE AT EAST WINTHROP, ME

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

DRAINAGE AREA.--131 mi<sup>2</sup> (339 km<sup>2</sup>).

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

GAGE.--Water-stage recorder. Datum of gage is 160.00 ft (48.768 m).

REMARKS.--Records fair.

EXTREMES FOR PERIOD OF RECORD.--Maximum gage height, 168.20 ft (51.267 m) Apr. 4, 5; minimum, 162.90 ft (49.652 m) Nov. 5.

ELEVATION, IN FEET ABOVE MEAN SEA LEVEL, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976  
MEAN VALUES

| DAY  | OCT    | NOV    | DEC    | JAN    | FEB    | MAR    | APR    | MAY    | JUN    | JUL    | AUG    | SEP    |
|------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 1    | 165.33 | 163.02 | 164.89 | 164.68 | 164.65 | 164.56 | 167.56 | 167.22 | 167.19 | 167.59 | 167.63 | 167.45 |
| 2    | 165.14 | 162.98 | 164.93 | 164.66 | 164.80 | 164.54 | 167.95 | 167.32 | 167.22 | 167.59 | 167.73 | 167.40 |
| 3    | 164.97 | 162.95 | 164.96 | 164.64 | 164.94 | 164.49 | 168.11 | 167.40 | 167.25 | 167.58 | 167.77 | 167.36 |
| 4    | 164.77 | 162.94 | 164.96 | 164.64 | 164.97 | 164.45 | 168.20 | 167.49 | 167.27 | 167.56 | 167.79 | 167.31 |
| 5    | 164.59 | 162.90 | 164.96 | 164.60 | 164.98 | 164.39 | 168.25 | 167.51 | 167.31 | 167.58 | 167.79 | 167.25 |
| 6    | 164.36 | 162.91 | 164.95 | 164.57 | 164.98 | 164.38 | 168.10 | 167.52 | 167.33 | 167.60 | 167.73 | 167.20 |
| 7    | 164.24 | 162.92 | 164.94 | 164.53 | 164.98 | 164.39 | 168.06 | 167.57 | 167.35 | 167.61 | 167.64 | 167.14 |
| 8    | 164.08 | 162.98 | 164.93 | 164.51 | 164.97 | 164.40 | 167.94 | 167.63 | 167.37 | 167.61 | 167.56 | 167.10 |
| 9    | 163.97 | 163.05 | 164.91 | 164.48 | 164.95 | 164.39 | 167.78 | 167.66 | 167.38 | 167.62 | 167.50 | 167.09 |
| 10   | 163.86 | 163.09 | 165.00 | 164.47 | 164.91 | 164.38 | 167.61 | 167.68 | 167.39 | 167.62 | 167.64 | 167.10 |
| 11   | 163.76 | 163.22 | 165.07 | 164.46 | 164.86 | 164.41 | 167.43 | 167.71 | 167.41 | 167.62 | 167.60 | 167.13 |
| 12   | 163.68 | 163.28 | 165.05 | 164.46 | 164.81 | 164.46 | 167.24 | 167.74 | 167.39 | 167.62 | 167.57 | 167.13 |
| 13   | 163.62 | 163.42 | 165.00 | 164.46 | 164.75 | 164.55 | 167.07 | 167.75 | 167.42 | 167.62 | 167.54 | 167.12 |
| 14   | 163.54 | 163.64 | 164.97 | 164.55 | 164.69 | 164.61 | 166.89 | 167.70 | 167.42 | 167.62 | 167.48 | 167.12 |
| 15   | 163.44 | 163.73 | 164.93 | 164.56 | 164.62 | 164.66 | 166.78 | 167.65 | 167.43 | 167.61 | 167.42 | 167.13 |
| 16   | 163.37 | 163.79 | 164.88 | 164.57 | 164.57 | 164.72 | 166.73 | 167.66 | 167.44 | 167.61 | 167.39 | 167.12 |
| 17   | 163.29 | 163.86 | 164.84 | 164.61 | 164.56 | 164.86 | 166.72 | 167.68 | 167.46 | 167.61 | 167.32 | 167.12 |
| 18   | 163.30 | 163.93 | 164.83 | 164.62 | 164.56 | 164.91 | 166.74 | 167.71 | 167.46 | 167.61 | 167.30 | 167.14 |
| 19   | 163.30 | 163.99 | 164.79 | 164.61 | 164.60 | 164.97 | 166.80 | 167.87 | 167.46 | 167.61 | 167.31 | 167.14 |
| 20   | 163.32 | 164.04 | 164.73 | 164.60 | 164.57 | 165.04 | 166.85 | 167.85 | 167.46 | 167.61 | 167.30 | 167.12 |
| 21   | 163.35 | 164.12 | 164.71 | 164.58 | 164.55 | 165.11 | 166.88 | 167.71 | 167.48 | 167.61 | 167.28 | 166.94 |
| 22   | 163.31 | 164.32 | 164.72 | 164.58 | 164.57 | 165.26 | 166.91 | 167.59 | 167.55 | 167.60 | 167.31 | 166.80 |
| 23   | 163.26 | 164.42 | 164.71 | 164.57 | 164.60 | 165.38 | 166.97 | 167.46 | 167.55 | 167.60 | 167.33 | 166.59 |
| 24   | 163.21 | 164.49 | 164.68 | 164.54 | 164.59 | 165.52 | 167.00 | 167.40 | 167.56 | 167.60 | 167.34 | 166.37 |
| 25   | 163.16 | 164.57 | 164.64 | 164.53 | 164.59 | 165.62 | 167.02 | 167.33 | 167.69 | 167.61 | 167.37 | 166.17 |
| 26   | 163.14 | 164.65 | 164.67 | 164.52 | 164.58 | 165.79 | 167.05 | 167.26 | 167.72 | 167.61 | 167.38 | 165.97 |
| 27   | 163.10 | 164.72 | 164.76 | 164.56 | 164.58 | 165.98 | 167.11 | 167.24 | 167.62 | 167.60 | 167.42 | 165.83 |
| 28   | 163.07 | 164.82 | 164.74 | 164.70 | 164.59 | 166.32 | 167.15 | 167.23 | 167.58 | 167.58 | 167.44 | 165.65 |
| 29   | 163.05 | 164.84 | 164.73 | 164.73 | 164.60 | 166.70 | 167.17 | 167.23 | 167.55 | 167.56 | 167.47 | 165.46 |
| 30   | 163.05 | 164.85 | 164.71 | 164.72 | ---    | 167.06 | 167.19 | 167.22 | 167.56 | 167.55 | 167.49 | 165.25 |
| 31   | 163.03 | ---    | 164.71 | 164.69 | ---    | 167.35 | ---    | 167.21 | ---    | 167.57 | 167.49 | ---    |
| MEAN | 163.70 | 163.75 | 164.85 | 164.58 | 164.72 | 165.09 | 167.31 | 167.52 | 167.44 | 167.60 | 167.49 | 166.82 |
| MAX  | 165.33 | 164.85 | 165.07 | 164.73 | 164.98 | 167.35 | 168.20 | 167.87 | 167.72 | 167.62 | 167.79 | 167.45 |
| MIN  | 163.03 | 162.90 | 164.64 | 164.46 | 164.55 | 164.38 | 166.72 | 167.21 | 167.19 | 167.55 | 167.28 | 165.25 |

WTR YR 1976 MEAN 165.91 MAX 168.20 MIN 162.90



## KENNEBEC RIVER BASIN

## Reservoirs in Kennebec River basin

- 01038500 BRASSUA LAKE on Moose River, Somerset County, Hydrologic Unit 01030001, 4 mi (6 km) southwest of Rockwood, Maine, completed in 1928, for power, has usable capacity of 8,560,000 ft<sup>3</sup> (242,400,000 m<sup>3</sup>) 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, Somerset County, Hydrologic Unit 01030001, at Kokadjo, Maine, used for power, has usable capacity of 938,000,000 ft<sup>3</sup> (26,560,000 m<sup>3</sup>) 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.110).
- 01041500 INDIAN POND on Kennebec River, Somerset County, Hydrologic Unit 01030001, 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 ft<sup>3</sup> (23,510,000 m<sup>3</sup>) 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 ft<sup>3</sup> or 89,210,000 m<sup>3</sup> below elevation 955.0 ft or 291.08 m). Elevation record furnished by Central Maine Power Co.
- 01042000 MOXIE POND on Moxie Stream, Somerset County, Hydrologic Unit 01030001, 4.8 mi (7.7 km) east of The Forks, Maine, used for power, has usable capacity of 640,000,000 ft<sup>3</sup> (18,120,000 m<sup>3</sup>) 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, Somerset County, Hydrologic Unit 01030002, 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 ft<sup>3</sup> (341,300,000 m<sup>3</sup>) 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, Somerset County, Hydrologic Unit 01030003, 1.5 mi (2.4 km) upstream from Bingham, Maine, completed in 1930 for power, has capacity of 2,630,000,000 ft<sup>3</sup> (74,480,000 m<sup>3</sup>) 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 ft<sup>3</sup> or 257,100,000 m<sup>3</sup> 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 1975 TO SEPTEMBER 1976

| DATE           | BRASSUA<br>LAKE | FIRST<br>ROACH<br>POND | INDIAN<br>POND | MOXIE<br>POND | FLAGSTAFF<br>LAKE | WYMAN<br>POND |
|----------------|-----------------|------------------------|----------------|---------------|-------------------|---------------|
| SEPT. 30, 1975 | 7,669           | 396                    | 3,096          | 210           | 5,896             | 8,890         |
| OCT. 31        | 7,274           | 0                      | 2,885          | 0             | 6,049             | 8,870         |
| NOV. 30        | 4,429           | 0                      | 3,312          | 0             | 5,209             | 8,920         |
| DEC. 31        | 2,180           | 0                      | 2,970          | 0             | 3,786             | 9,020         |
| JAN. 31, 1976  | 487             | 0                      | 3,114          | 0             | 2,165             | 8,820         |
| FEB. 29        | 199             | 0                      | 3,186          | 0             | 1,745             | 8,920         |
| MAR. 31        | 1,854           | 396                    | 3,186          | 150           | 5,162             | 8,290         |
| APR. 30        | 9,152           | 883                    | 3,420          | 685           | 12,131            | 9,080         |
| MAY 31         | 9,186           | 897                    | 3,348          | 685           | 12,050            | 8,890         |
| JUNE 30        | 8,913           | 938                    | 3,258          | 730           | 11,414            | 9,040         |
| JULY 31        | 9,221           | 938                    | 3,276          | 730           | 12,295            | 9,080         |
| AUG. 31        | 9,088           | 897                    | 3,258          | 694           | 12,131            | 8,890         |
| SEPT. 30       | 8,479           | 705                    | 3,024          | 532           | 11,414            | 8,960         |

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

133

01052500 DIAMOND RIVER NEAR WENTWORTH LOCATION, NH

LOCATION.--Lat 44°52'40", long 71°03'25", Coos County, Hydrologic Unit 01040001, on left bank 1.0 mi (1.6 km) upstream from mouth and 1.6 mi (2.6 km) north of Wentworth Location.

DRAINAGE AREA.--153 mi<sup>2</sup> (396 km<sup>2</sup>).

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 good except those for winter period, which are fair.

AVERAGE DISCHARGE.--35 years, 349 ft<sup>3</sup>/s (9.884 m<sup>3</sup>/s), 30.98 in/yr (787 mm/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 8,630 ft<sup>3</sup>/s (244 m<sup>3</sup>/s) June 16, 1943, gage height, 10.66 ft (3.249 m), from rating curve extended above 3,900 ft<sup>3</sup>/s (110 m<sup>3</sup>/s); minimum, 6.8 ft<sup>3</sup>/s (0.19 m<sup>3</sup>/s) Aug. 27, 28, 1949, Sept. 1, 1952, gage height, 0.81 ft (0.247 m).

EXTREMES FOR CURRENT YEAR.--Peak discharges above base of 3,600 ft<sup>3</sup>/s (102 m<sup>3</sup>/s) and maximums (\*):

| Date    | Time | Discharge<br>(ft <sup>3</sup> /s) (m <sup>3</sup> /s) | Gage height<br>(ft) (m) | Date    | Time | Discharge<br>(ft <sup>3</sup> /s) (m <sup>3</sup> /s) | Gage height<br>(ft) (m) |
|---------|------|-------------------------------------------------------|-------------------------|---------|------|-------------------------------------------------------|-------------------------|
| Oct. 20 | 1400 | 3,640 103                                             | 7.41 2.259              | Apr. 18 | 2000 | *5,200 147                                            | *8.57 2.612             |
| Apr. 2  | 1100 | 3,930 111                                             | 7.64 2.329              |         |      |                                                       |                         |

Minimum discharge, 32 ft<sup>3</sup>/s (0.91 m<sup>3</sup>/s) July 23, 24, gage height, 1.42 ft (0.433 m).

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976  
MEAN VALUES

| DAY               | OCT      | NOV   | DEC  | JAN      | FEB      | MAR   | APR   | MAY       | JUN      | JUL  | AUG   | SEP  |
|-------------------|----------|-------|------|----------|----------|-------|-------|-----------|----------|------|-------|------|
| 1                 | 236      | 177   | 290  | 150      | 885      | 275   | 2330  | 599       | 548      | 172  | 332   | 179  |
| 2                 | 197      | 181   | 352  | 135      | 1020     | 220   | 3650  | 1160      | 371      | 145  | 769   | 202  |
| 3                 | 190      | 181   | 270  | 125      | 1510     | 200   | 2500  | 1240      | 267      | 106  | 316   | 170  |
| 4                 | 170      | 215   | 178  | 120      | 1450     | 190   | 1570  | 1710      | 234      | 92   | 185   | 138  |
| 5                 | 166      | 221   | 144  | 115      | 1150     | 200   | 1070  | 925       | 195      | 75   | 137   | 129  |
| 6                 | 143      | 170   | 203  | 110      | 800      | 240   | 840   | 747       | 166      | 58   | 126   | 161  |
| 7                 | 128      | 154   | 237  | 105      | 584      | 230   | 815   | 798       | 151      | 48   | 131   | 148  |
| 8                 | 113      | 155   | 183  | 100      | 462      | 210   | 738   | 860       | 168      | 46   | 117   | 114  |
| 9                 | 102      | 252   | 163  | 95       | 337      | 190   | 639   | 660       | 163      | 106  | 127   | 95   |
| 10                | 94       | 208   | 183  | 92       | 262      | 285   | 637   | 541       | 144      | 90   | 891   | 83   |
| 11                | 91       | 426   | 237  | 89       | 214      | 125   | 706   | 484       | 117      | 56   | 1530  | 342  |
| 12                | 538      | 304   | 169  | 88       | 193      | 170   | 501   | 1160      | 144      | 66   | 578   | 288  |
| 13                | 549      | 602   | 121  | 84       | 171      | 170   | 469   | 1630      | 118      | 104  | 319   | 177  |
| 14                | 316      | 1100  | 139  | 80       | 164      | 165   | 494   | 799       | 96       | 186  | 310   | 129  |
| 15                | 255      | 900   | 195  | 79       | 154      | 165   | 660   | 764       | 81       | 146  | 459   | 104  |
| 16                | 484      | 515   | 270  | 77       | 166      | 160   | 1900  | 617       | 70       | 96   | 2150  | 92   |
| 17                | 482      | 400   | 205  | 76       | 202      | 175   | 3700  | 484       | 86       | 77   | 961   | 87   |
| 18                | 924      | 375   | 165  | 75       | 191      | 210   | 4500  | 471       | 84       | 75   | 502   | 90   |
| 19                | 928      | 361   | 145  | 71       | 188      | 180   | 4480  | 1150      | 64       | 63   | 334   | 112  |
| 20                | 2170     | 310   | 130  | 68       | 194      | 200   | 3730  | 1720      | 58       | 55   | 251   | 121  |
| 21                | 2550     | 321   | 130  | 68       | 175      | 400   | 2440  | 1120      | 89       | 44   | 200   | 107  |
| 22                | 961      | 734   | 140  | 67       | 236      | 880   | 1730  | 977       | 94       | 38   | 167   | 102  |
| 23                | 582      | 465   | 155  | 67       | 300      | 775   | 1590  | 835       | 94       | 34   | 142   | 100  |
| 24                | 444      | 320   | 170  | 65       | 350      | 695   | 1220  | 1080      | 71       | 79   | 120   | 93   |
| 25                | 368      | 289   | 175  | 62       | 295      | 660   | 868   | 766       | 73       | 115  | 101   | 81   |
| 26                | 332      | 242   | 155  | 62       | 270      | 695   | 732   | 586       | 245      | 65   | 86    | 75   |
| 27                | 288      | 184   | 165  | 223      | 330      | 800   | 677   | 486       | 190      | 174  | 287   | 534  |
| 28                | 252      | 233   | 190  | 1920     | 380      | 1880  | 735   | 405       | 167      | 593  | 226   | 493  |
| 29                | 229      | 206   | 215  | 1620     | 300      | 1590  | 697   | 338       | 105      | 222  | 402   | 256  |
| 30                | 223      | 194   | 185  | 1430     | ---      | 1250  | 667   | 291       | 122      | 150  | 404   | 184  |
| 31                | 198      | ---   | 160  | 1150     | ---      | 1430  | ---   | 256       | ---      | 180  | 232   | ---  |
| TOTAL             | 14703    | 10395 | 5819 | 8668     | 12933    | 15015 | 47285 | 25659     | 4575     | 3556 | 12892 | 4986 |
| MEAN              | 474      | 347   | 188  | 280      | 446      | 484   | 1576  | 828       | 153      | 115  | 416   | 166  |
| MAX               | 2550     | 1100  | 352  | 1920     | 1510     | 1880  | 4500  | 1720      | 548      | 593  | 2150  | 534  |
| MIN               | 91       | 154   | 121  | 62       | 154      | 125   | 469   | 256       | 58       | 34   | 86    | 75   |
| CFSM              | 3.10     | 2.27  | 1.23 | 1.83     | 2.92     | 3.16  | 10.3  | 5.41      | 1.00     | .75  | 2.72  | 1.08 |
| IN.               | 3.57     | 2.53  | 1.41 | 2.11     | 3.14     | 3.65  | 11.50 | 6.24      | 1.11     | .86  | 3.13  | 1.21 |
| CAL YR 1975 TOTAL | 120801.5 |       |      | MEAN 331 | MAX 2690 | MIN   | 9.5   | CFSM 2.16 | IN 29.37 |      |       |      |
| WTR YR 1976 TOTAL | 166486.0 |       |      | MEAN 455 | MAX 4500 | MIN   | 34'   | CFSM 2.97 | IN 40.48 |      |       |      |

## ANDROSCOGGIN RIVER BASIN

01053500 ANDROSCOGGIN RIVER AT ERROL, NH

LOCATION.--Lat 44°46'57", long 71°07'46", Coos County, Hydrologic Unit 01040001, on right bank 0.4 mi (0.6 km) downstream from Errol Dam, 0.4 mi (0.6 km) northeast of Errol, and 0.6 mi (1.0 km) upstream from Clear Stream.

DRAINAGE AREA.--1,045 mi<sup>2</sup> (2.707 km<sup>2</sup>).

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."

REVISED RECORDS.--WSP 1001: Drainage area.

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.

REMARKS.--Records good. Flow regulated by Rangeley, Mooselookmeguntic, Richardson, Azischohos, and Umbagog Lakes (Reservoirs in Androscoggin River basin), with final regulation at Errol Dam.

AVERAGE DISCHARGE.--71 years, 1,899 ft<sup>3</sup>/s (53.78 m<sup>3</sup>/s).

EXTREMES FOR PERIOD OF RECORD.--Maximum daily discharge, 16,100 ft<sup>3</sup>/s (456 m<sup>3</sup>/s) May 22, 1969; minimum daily, leakage only at various times when gates in dam were closed.

EXTREMES OUTSIDE PERIOD OF RECORD.--Instantaneous maximum discharge not available prior to Dec. 9, 1943.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 6,950 ft<sup>3</sup>/s (197 m<sup>3</sup>/s) May 20, gage height, 5.82 ft (1.774 m); minimum daily, 734 ft<sup>3</sup>/s (20.8 m<sup>3</sup>/s) Oct. 19.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976  
MEAN VALUES

| DAY   | OCT   | NOV   | DEC   | JAN   | FEB   | MAR   | APR    | MAY    | JUN   | JUL   | AUG   | SEP   |
|-------|-------|-------|-------|-------|-------|-------|--------|--------|-------|-------|-------|-------|
| 1     | 1560  | 1760  | 1670  | 1840  | 1430  | 1510  | 3790   | 4480   | 1830  | 1640  | 1550  | 2020  |
| 2     | 1600  | 1760  | 1450  | 1870  | 1340  | 1570  | 4390   | 4470   | 1720  | 1550  | 1270  | 1980  |
| 3     | 1630  | 1770  | 1440  | 1860  | 1370  | 1550  | 4880   | 4520   | 1760  | 1640  | 1550  | 1960  |
| 4     | 1700  | 1760  | 1600  | 1860  | 1400  | 1460  | 4880   | 4600   | 1830  | 1720  | 1700  | 1980  |
| 5     | 1710  | 1770  | 1800  | 1880  | 1420  | 1400  | 3350   | 4980   | 1810  | 1770  | 1790  | 2050  |
| 6     | 1670  | 1800  | 1840  | 1920  | 1470  | 1440  | 2670   | 5000   | 1880  | 1800  | 1810  | 2110  |
| 7     | 1620  | 1780  | 1760  | 1900  | 1580  | 1590  | 3380   | 5330   | 1960  | 1860  | 1800  | 2090  |
| 8     | 1620  | 1760  | 1780  | 1920  | 1570  | 1550  | 4270   | 5310   | 1970  | 1840  | 1810  | 2080  |
| 9     | 1630  | 1710  | 1800  | 1930  | 1590  | 1580  | 4030   | 4960   | 1950  | 1760  | 1810  | 2090  |
| 10    | 1660  | 1650  | 1730  | 1940  | 1630  | 1640  | 3720   | 4200   | 1980  | 1750  | 1540  | 2090  |
| 11    | 1680  | 1500  | 1680  | 1940  | 1620  | 1670  | 3510   | 2470   | 1850  | 1840  | 1080  | 1990  |
| 12    | 1440  | 1450  | 1740  | 1940  | 1620  | 1660  | 3470   | 3720   | 1950  | 1880  | 1640  | 1960  |
| 13    | 1350  | 1230  | 1780  | 1940  | 1620  | 1730  | 3280   | 5940   | 1990  | 1880  | 1500  | 2030  |
| 14    | 1480  | 1040  | 1790  | 1930  | 1640  | 1800  | 3080   | 6240   | 1980  | 1830  | 1590  | 2060  |
| 15    | 1560  | 848   | 1780  | 1930  | 1680  | 1730  | 2550   | 6430   | 2000  | 1860  | 1670  | 2090  |
| 16    | 1420  | 1090  | 1790  | 1930  | 1660  | 1800  | 1050   | 6310   | 2010  | 1890  | 1410  | 2130  |
| 17    | 1240  | 1450  | 1800  | 1930  | 1630  | 1850  | 3410   | 5870   | 2010  | 1880  | 1630  | 2130  |
| 18    | 876   | 1520  | 1760  | 1930  | 1630  | 1850  | 4900   | 5690   | 2020  | 1870  | 1720  | 2110  |
| 19    | 734   | 1560  | 1850  | 1930  | 1620  | 1850  | 5600   | 5560   | 2040  | 1890  | 1690  | 2130  |
| 20    | 1190  | 1590  | 1890  | 1920  | 1610  | 1850  | 5200   | 6680   | 2030  | 1920  | 1740  | 2140  |
| 21    | 1670  | 1600  | 1910  | 1900  | 1570  | 1860  | 4850   | 6880   | 1960  | 1920  | 1780  | 2150  |
| 22    | 845   | 1600  | 1860  | 1880  | 1400  | 1860  | 4660   | 6850   | 1790  | 1920  | 1790  | 2150  |
| 23    | 1240  | 1610  | 1850  | 1910  | 1350  | 1950  | 6330   | 6830   | 1960  | 1920  | 1880  | 2160  |
| 24    | 1270  | 1610  | 1890  | 1920  | 1310  | 2450  | 5790   | 6360   | 1960  | 1790  | 1970  | 2160  |
| 25    | 1360  | 1560  | 1870  | 1930  | 1330  | 2200  | 5180   | 5940   | 1890  | 1600  | 1950  | 2170  |
| 26    | 1470  | 1590  | 1870  | 1840  | 1350  | 1690  | 5660   | 4540   | 1740  | 1820  | 2000  | 2160  |
| 27    | 1510  | 1690  | 1850  | 1580  | 1350  | 1710  | 5790   | 3290   | 1770  | 1770  | 2000  | 1850  |
| 28    | 1530  | 1710  | 1840  | 1160  | 1360  | 2590  | 5320   | 3570   | 1890  | 1380  | 1990  | 1970  |
| 29    | 1580  | 1700  | 1920  | 1430  | 1410  | 3130  | 4890   | 2460   | 1840  | 1700  | 1990  | 1960  |
| 30    | 1630  | 1690  | 1920  | 1470  | ---   | 3370  | 4510   | 1910   | 1810  | 1730  | 1990  | 2030  |
| 31    | 1710  | ---   | 1840  | 1420  | ---   | 3620  | ---    | 1900   | ---   | 1630  | 1990  | ---   |
| TOTAL | 45185 | 47158 | 55350 | 56680 | 43560 | 59510 | 128390 | 153290 | 57180 | 55250 | 53630 | 61980 |
| MEAN  | 1458  | 1572  | 1785  | 1828  | 1502  | 1920  | 4280   | 4945   | 1906  | 1782  | 1730  | 2066  |
| MAX   | 1710  | 1800  | 1920  | 1940  | 1680  | 3620  | 6330   | 6880   | 2040  | 1920  | 2000  | 2170  |
| MIN   | 734   | 848   | 1440  | 1160  | 1310  | 1400  | 1050   | 1900   | 1720  | 1380  | 1080  | 1850  |

CAL YR 1975 TOTAL 614253 MEAN 1683 MAX 4250 MIN 664

WTR YR 1976 TOTAL 817163 MEAN 2233 MAX 6880 MIN 734

## ANDROSCOGGIN RIVER BASIN

135

01054000 ANDROSCOGGIN RIVER NEAR GORHAM, NH

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

DRAINAGE AREA.--1,363 mi<sup>2</sup> (3,530 km<sup>2</sup>).

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.

REMARKS.--Records good. Flow regulated by Rangeley, Mooselookmeguntic, Richardson, Aziscohos, and Umbagog Lakes (Reservoirs in Androscoggin River basin), 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.--63 years, 2,457 ft<sup>3</sup>/s (69.58 m<sup>3</sup>/s).

EXTREMES FOR PERIOD OF RECORD.--Maximum daily discharge, 20,000 ft<sup>3</sup>/s (566 m<sup>3</sup>/s) June 18, 1917, Apr. 30, 1923; minimum daily, 795 ft<sup>3</sup>/s (22.5 m<sup>3</sup>/s) Mar. 15, 1948.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 10,400 ft<sup>3</sup>/s (295 m<sup>3</sup>/s) Apr. 2, gage height, 7.70 ft (2.347 m); minimum daily, 1,730 ft<sup>3</sup>/s (49.0 m<sup>3</sup>/s) Oct. 11.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976  
MEAN VALUES

| DAY         | OCT   | NOV     | DEC   | JAN   | FEB   | MAR   | APR    | MAY    | JUN   | JUL   | AUG   | SEP   |
|-------------|-------|---------|-------|-------|-------|-------|--------|--------|-------|-------|-------|-------|
| 1           | 1770  | 2040    | 2220  | 2120  | 2160  | 2120  | 7630   | 5370   | 2430  | 2230  | 2260  | 2190  |
| 2           | 1770  | 2080    | 2370  | 2080  | 2230  | 2070  | 9980   | 5540   | 2450  | 2110  | 2640  | 2290  |
| 3           | 1810  | 2060    | 2040  | 2120  | 2100  | 2100  | 8750   | 5690   | 2100  | 1940  | 1980  | 2190  |
| 4           | 1840  | 2070    | 1940  | 2140  | 2220  | 2150  | 7910   | 6140   | 2220  | 1980  | 2030  | 2100  |
| 5           | 1900  | 2050    | 1970  | 2040  | 2140  | 2240  | 6890   | 5920   | 2170  | 2070  | 1990  | 2200  |
| 6           | 1870  | 2050    | 2250  | 2070  | 2020  | 2630  | 4800   | 5980   | 2130  | 2080  | 2010  | 2240  |
| 7           | 1760  | 2070    | 2170  | 2110  | 2010  | 2620  | 4790   | 6140   | 2230  | 1900  | 2000  | 2230  |
| 8           | 1780  | 2090    | 2040  | 2170  | 2020  | 2420  | 5640   | 6680   | 2290  | 2000  | 1990  | 2190  |
| 9           | 1780  | 2150    | 2090  | 2060  | 2070  | 2370  | 5590   | 6190   | 2240  | 2030  | 2030  | 2190  |
| 10          | 1740  | 2120    | 2170  | 2080  | 2040  | 2290  | 5220   | 5560   | 2210  | 1890  | 2860  | 2180  |
| 11          | 1730  | 2270    | 2140  | 2060  | 2060  | 2250  | 5070   | 4290   | 2240  | 1850  | 3230  | 2440  |
| 12          | 2200  | 2140    | 2060  | 2160  | 2070  | 2200  | 4630   | 3520   | 2080  | 2010  | 2380  | 2390  |
| 13          | 2100  | 2390    | 2020  | 2140  | 2040  | 2280  | 4300   | 7870   | 2220  | 2060  | 2160  | 2240  |
| 14          | 1950  | 3010    | 2120  | 2150  | 2030  | 2240  | 4160   | 7640   | 2200  | 2090  | 1970  | 2260  |
| 15          | 2000  | 2970    | 2150  | 2120  | 2020  | 2240  | 4200   | 7930   | 2190  | 2070  | 1990  | 2220  |
| 16          | 2200  | 1980    | 2280  | 2060  | 2070  | 2340  | 3950   | 7800   | 2190  | 2050  | 2780  | 2220  |
| 17          | 2000  | 2140    | 2230  | 2070  | 2110  | 2260  | 5010   | 7060   | 2260  | 2050  | 2360  | 2250  |
| 18          | 2450  | 2200    | 2120  | 2020  | 2060  | 2230  | 8430   | 6690   | 2230  | 2020  | 2180  | 2240  |
| 19          | 2200  | 2150    | 1880  | 2080  | 2090  | 2310  | 9210   | 6790   | 2190  | 2000  | 2030  | 2220  |
| 20          | 4300  | 2140    | 1980  | 2130  | 2090  | 2370  | 8890   | 8810   | 2190  | 2010  | 1960  | 2260  |
| 21          | 4900  | 2150    | 2160  | 2190  | 2070  | 2770  | 7010   | 8570   | 2320  | 2000  | 1970  | 2240  |
| 22          | 2600  | 2630    | 2160  | 2130  | 2200  | 3630  | 6720   | 8410   | 2360  | 1990  | 1960  | 2250  |
| 23          | 2200  | 2550    | 2080  | 2080  | 2300  | 3880  | 7240   | 8100   | 2180  | 2000  | 1970  | 2230  |
| 24          | 2030  | 2300    | 2050  | 2080  | 2370  | 4150  | 7940   | 7860   | 2170  | 2200  | 2040  | 2250  |
| 25          | 1950  | 2170    | 2100  | 2140  | 2230  | 4070  | 6900   | 7120   | 2280  | 2070  | 2100  | 2240  |
| 26          | 2100  | 2050    | 2110  | 2190  | 2160  | 3790  | 6940   | 6380   | 2370  | 1910  | 2070  | 2260  |
| 27          | 2200  | 2070    | 2210  | 2260  | 2180  | 3730  | 7180   | 4460   | 2200  | 2260  | 2210  | 2460  |
| 28          | 2000  | 2150    | 2070  | 2490  | 2250  | 5360  | 7180   | 3740   | 2210  | 2620  | 2290  | 2550  |
| 29          | 1950  | 2130    | 2070  | 2300  | 2180  | 6190  | 6290   | 4390   | 2160  | 2120  | 2310  | 2340  |
| 30          | 1960  | 2090    | 2140  | 2490  | ---   | 5920  | 5770   | 2060   | 2090  | 2180  | 2490  | 2200  |
| 31          | 1980  | ---     | 2170  | 2250  | ---   | 6350  | ---    | 2440   | ---   | 2120  | 2300  | ---   |
| TOTAL       | 67020 | 66460   | 65560 | 66580 | 61590 | 95570 | 194220 | 191140 | 66800 | 63910 | 68540 | 67760 |
| MEAN        | 2162  | 2215    | 2115  | 2148  | 2124  | 3083  | 6474   | 6166   | 2227  | 2062  | 2211  | 2259  |
| MAX         | 4900  | 3010    | 2370  | 2490  | 2370  | 6350  | 9980   | 8810   | 2450  | 2620  | 3230  | 2550  |
| MIN         | 1730  | 1980    | 1880  | 2020  | 2010  | 2070  | 3950   | 2060   | 2080  | 1850  | 1960  | 2100  |
| CAL YR 1975 | TOTAL | 808780  | MEAN  | 2216  | MAX   | 6950  | MIN    | 1670   |       |       |       |       |
| WTR YR 1976 | TOTAL | 1075150 | MEAN  | 2938  | MAX   | 9980  | MIN    | 1730   |       |       |       |       |

## ANDROSCOGGIN RIVER BASIN

01054200 WILD RIVER AT GILEAD, ME  
(Hydrologic bench-mark station)

LOCATION.--Lat 44°23'25", long 70°58'53", Oxford County, Hydrologic Unit 01040002, 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 mi<sup>2</sup> (180 km<sup>2</sup>).

## 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 good except those for winter period, which are fair.

AVERAGE DISCHARGE.--12 years, 177 ft<sup>3</sup>/s (5.013 m<sup>3</sup>/s), 34.58 in/yr (879 mm/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 12,500 ft<sup>3</sup>/s (354 m<sup>3</sup>/s) Nov. 3, 1966, gage height, 12.49 ft (3.807 m); minimum, 7.6 ft<sup>3</sup>/s (0.22 m<sup>3</sup>/s) July 16, 1971, gage height, 1.89 (0.576 m).

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood of Oct. 24, 1959 reached a stage of 15.6 ft (4.755 m), from floodmarks, discharge, 18,100 ft<sup>3</sup>/s (513 m<sup>3</sup>/s).

EXTREMES FOR CURRENT YEAR.--Peak discharges above base of 1,500 ft<sup>3</sup>/s (42.5 m<sup>3</sup>/s) and maximums (\*):

| Date    | Time | Discharge<br>(ft <sup>3</sup> /s) (m <sup>3</sup> /s) | Gage height<br>(ft) (m) | Date    | Time | Discharge<br>(ft <sup>3</sup> /s) (m <sup>3</sup> /s) | Gage height<br>(ft) (m) |
|---------|------|-------------------------------------------------------|-------------------------|---------|------|-------------------------------------------------------|-------------------------|
| Oct. 20 | 1315 | 2,240 63.4                                            | 5.93 1.807              | May 12  | 1315 | 2,620 74.2                                            | 6.27 1.911              |
| Nov. 14 | 1045 | 2,940 83.3                                            | 6.53 1.990              | May 19  | 1545 | 2,860 81.0                                            | 6.47 1.972              |
| Apr. 1  | 2030 | *7,280 206                                            | *9.52 2.902             | Aug. 10 | 1400 | 4,840 137                                             | 7.89 2.405              |
| May 2   | 0600 | 2,890 81.8                                            | 6.49 1.978              | Aug. 16 | 0115 | 2,430 68.8                                            | 6.10 1.859              |

Minimum discharge, 25 ft<sup>3</sup>/s (0.71 m<sup>3</sup>/s) July 23, 24, gage height, 2.21 ft (0.674 m).

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976  
MEAN VALUES

| DAY   | OCT  | NOV  | DEC  | JAN  | FEB  | MAR  | APR   | MAY   | JUN  | JUL  | AUG  | SEP  |
|-------|------|------|------|------|------|------|-------|-------|------|------|------|------|
| 1     | 67   | 89   | 180  | 82   | 230  | 150  | 2360  | 222   | 170  | 480  | 150  | 51   |
| 2     | 59   | 88   | 284  | 78   | 260  | 130  | 1760  | 1320  | 140  | 225  | 190  | 140  |
| 3     | 51   | 86   | 185  | 75   | 540  | 120  | 818   | 575   | 113  | 137  | 86   | 75   |
| 4     | 46   | 86   | 150  | 72   | 425  | 115  | 575   | 511   | 106  | 97   | 57   | 57   |
| 5     | 44   | 78   | 130  | 70   | 340  | 120  | 421   | 331   | 97   | 75   | 46   | 51   |
| 6     | 40   | 70   | 120  | 68   | 260  | 150  | 363   | 272   | 86   | 62   | 38   | 46   |
| 7     | 40   | 70   | 115  | 67   | 215  | 160  | 367   | 358   | 80   | 54   | 35   | 40   |
| 8     | 37   | 72   | 110  | 65   | 180  | 130  | 322   | 413   | 78   | 60   | 39   | 35   |
| 9     | 35   | 91   | 105  | 64   | 160  | 120  | 260   | 280   | 70   | 75   | 48   | 33   |
| 10    | 35   | 88   | 100  | 64   | 140  | 110  | 239   | 228   | 62   | 60   | 1870 | 32   |
| 11    | 35   | 284  | 200  | 63   | 130  | 105  | 264   | 204   | 57   | 48   | 565  | 367  |
| 12    | 516  | 165  | 180  | 63   | 120  | 99   | 204   | 1080  | 65   | 57   | 210  | 130  |
| 13    | 345  | 560  | 145  | 65   | 110  | 96   | 183   | 624   | 59   | 60   | 137  | 80   |
| 14    | 175  | 1460 | 125  | 67   | 105  | 93   | 204   | 363   | 53   | 54   | 145  | 60   |
| 15    | 127  | 525  | 110  | 68   | 100  | 90   | 256   | 292   | 50   | 53   | 619  | 50   |
| 16    | 140  | 300  | 135  | 63   | 98   | 88   | 755   | 235   | 43   | 44   | 1370 | 47   |
| 17    | 122  | 222  | 110  | 61   | 96   | 86   | 1070  | 210   | 60   | 46   | 304  | 47   |
| 18    | 703  | 190  | 90   | 60   | 94   | 85   | 900   | 216   | 57   | 65   | 180  | 50   |
| 19    | 399  | 170  | 80   | 58   | 110  | 84   | 660   | 1460  | 44   | 44   | 345  | 59   |
| 20    | 892  | 152  | 72   | 57   | 120  | 95   | 498   | 1130  | 42   | 37   | 111  | 51   |
| 21    | 507  | 204  | 79   | 57   | 110  | 200  | 336   | 624   | 113  | 30   | 91   | 44   |
| 22    | 276  | 565  | 94   | 56   | 125  | 340  | 327   | 516   | 165  | 27   | 76   | 40   |
| 23    | 198  | 256  | 90   | 56   | 165  | 280  | 498   | 381   | 76   | 26   | 65   | 40   |
| 24    | 165  | 192  | 79   | 56   | 150  | 235  | 300   | 296   | 54   | 62   | 59   | 38   |
| 25    | 150  | 170  | 74   | 56   | 135  | 310  | 222   | 253   | 192  | 73   | 53   | 34   |
| 26    | 183  | 152  | 78   | 70   | 130  | 450  | 213   | 222   | 201  | 42   | 47   | 34   |
| 27    | 152  | 148  | 100  | 150  | 140  | 850  | 225   | 198   | 108  | 44   | 47   | 264  |
| 28    | 130  | 150  | 120  | 410  | 155  | 1640 | 300   | 180   | 86   | 67   | 53   | 135  |
| 29    | 118  | 130  | 110  | 500  | 180  | 654  | 300   | 160   | 75   | 42   | 68   | 78   |
| 30    | 108  | 130  | 97   | 370  | ---  | 530  | 260   | 145   | 76   | 47   | 68   | 62   |
| 31    | 95   | ---  | 88   | 275  | ---  | 555  | ---   | 135   | ---  | 160  | 53   | ---  |
| TOTAL | 5990 | 6943 | 3735 | 3386 | 5123 | 8270 | 15460 | 13434 | 2678 | 2453 | 7225 | 2270 |
| MEAN  | 193  | 231  | 120  | 109  | 177  | 267  | 515   | 433   | 89.3 | 79.1 | 233  | 75.7 |
| MAX   | 892  | 1460 | 284  | 500  | 540  | 1640 | 2360  | 1460  | 201  | 480  | 1870 | 367  |
| MIN   | 35   | 70   | 72   | 56   | 94   | 84   | 183   | 135   | 42   | 26   | 35   | 32   |
| CFSM  | 2.78 | 3.32 | 1.73 | 1.57 | 2.55 | 3.84 | 7.41  | 6.23  | 1.28 | 1.14 | 3.35 | 1.09 |
| IN.   | 3.21 | 3.72 | 2.00 | 1.81 | 2.74 | 4.43 | 8.27  | 7.19  | 1.43 | 1.31 | 3.87 | 1.22 |

| CAL YR 1975 | TOTAL | 63967 | MEAN 175 | MAX | 2160 | MIN 12 | CFSM 2.52 | IN 34.24 |
|-------------|-------|-------|----------|-----|------|--------|-----------|----------|
| WTR YR 1976 | TOTAL | 76967 | MEAN 210 | MAX | 2360 | MIN 26 | CFSM 3.02 | IN 41.20 |

01054200 WILD RIVER AT GILEAD, ME--Continued

## WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 1964 to current year.

PERIOD OF DAILY RECORD.--

WATER TEMPERATURES: July 1964 to current year.

INSTRUMENTATION.--Temperature recorder.

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

EXTREMES FOR PERIOD OF DAILY RECORD.--

WATER TEMPERATURES: Maximum, 30.0°C Aug. 2, 1975; minimum, 0.0°C on many days during winter periods.

EXTREMES FOR CURRENT YEAR.--

WATER TEMPERATURES: Maximum, 26.0°C June 20; minimum, 0.0°C on many days during winter periods.

## CHEMICAL ANALYSES, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

| DATE  | TIME | INSTAN-<br>TANEOUS<br>DIS-<br>CHARGE<br>(CFS) | SPE-<br>CIFIC<br>CON-<br>DUCT-<br>ANCE<br>(MICRO-<br>MHOS) | PH<br>(UNITS) | TEMPER-<br>ATURE<br>(DEG C) | DIS-<br>SOLVED<br>OXYGEN<br>(MG/L) | IMME-<br>DIATE<br>COLI-<br>FORM<br>(COL.<br>PER<br>100 ML) | FECAL<br>COLI-<br>FORM<br>(COL.<br>PER<br>100 ML) | STREP-<br>TOCOCCI<br>(COL-<br>ONIES<br>PER<br>100 ML) | HARD-<br>NESS<br>(CA+MG)<br>(MG/L) | NON-<br>CAR-<br>BONATE<br>HARD-<br>NESS<br>(MG/L) |
|-------|------|-----------------------------------------------|------------------------------------------------------------|---------------|-----------------------------|------------------------------------|------------------------------------------------------------|---------------------------------------------------|-------------------------------------------------------|------------------------------------|---------------------------------------------------|
| OCT   |      |                                               |                                                            |               |                             |                                    |                                                            |                                                   |                                                       |                                    |                                                   |
| 31... | 1115 | 91                                            | 24                                                         | 6.3           | 3.5                         | 13.0                               | --                                                         | --                                                | --                                                    | --                                 | --                                                |
| NOV   |      |                                               |                                                            |               |                             |                                    |                                                            |                                                   |                                                       |                                    |                                                   |
| 25... | 1130 | 165                                           | 22                                                         | 6.2           | 1.0                         | 14.0                               | 87                                                         | 81                                                | 81                                                    | 7                                  | 0                                                 |
| DEC   |      |                                               |                                                            |               |                             |                                    |                                                            |                                                   |                                                       |                                    |                                                   |
| 30... | 1115 | 97                                            | 22                                                         | 6.4           | .0                          | 13.4                               | --                                                         | --                                                | --                                                    | --                                 | --                                                |
| JAN   |      |                                               |                                                            |               |                             |                                    |                                                            |                                                   |                                                       |                                    |                                                   |
| 22... | 1130 | 56                                            | 25                                                         | 6.6           | .0                          | 13.4                               | 27                                                         | <1                                                | <1                                                    | 8                                  | 0                                                 |
| FEB   |      |                                               |                                                            |               |                             |                                    |                                                            |                                                   |                                                       |                                    |                                                   |
| 27... | 1100 | 140                                           | 22                                                         | 6.6           | .0                          | 13.4                               | --                                                         | --                                                | --                                                    | --                                 | --                                                |
| MAR   |      |                                               |                                                            |               |                             |                                    |                                                            |                                                   |                                                       |                                    |                                                   |
| 29... | 1030 | 586                                           | 19                                                         | 6.2           | 1.0                         | 13.6                               | 7                                                          | 81                                                | <1                                                    | 13                                 | 0                                                 |
| APR   |      |                                               |                                                            |               |                             |                                    |                                                            |                                                   |                                                       |                                    |                                                   |
| 29... | 1000 | 280                                           | 18                                                         | 6.5           | 5.5                         | 11.2                               | --                                                         | --                                                | --                                                    | --                                 | --                                                |
| MAY   |      |                                               |                                                            |               |                             |                                    |                                                            |                                                   |                                                       |                                    |                                                   |
| 27... | 1030 | 192                                           | 19                                                         | 6.4           | 8.0                         | 10.8                               | 36                                                         | <1                                                | 81                                                    | 30                                 | 16                                                |
| JUL   |      |                                               |                                                            |               |                             |                                    |                                                            |                                                   |                                                       |                                    |                                                   |
| 30... | 1200 | 38                                            | 22                                                         | 6.8           | 16.0                        | 10.0                               | 827                                                        | 10                                                | 84                                                    | 8                                  | 3                                                 |
| SEP   |      |                                               |                                                            |               |                             |                                    |                                                            |                                                   |                                                       |                                    |                                                   |
| 28... | 1130 | 120                                           | 22                                                         | 6.5           | 9.5                         | 11.4                               | 42                                                         | 10                                                | 10                                                    | 14                                 | 3                                                 |

| DATE  | DIS-<br>SOLVED<br>CAL-<br>CIUM<br>(CA)<br>(MG/L) | DIS-<br>SOLVED<br>MAG-<br>NE-<br>SIUM<br>(MG)<br>(MG/L) | DIS-<br>SOLVED<br>SODIUM<br>(NA)<br>(MG/L) | PERCENT<br>SODIUM | SODIUM<br>AD-<br>SORP-<br>TION<br>RATIO | DIS-<br>SOLVED<br>PO-<br>TAS-<br>SIUM<br>(K)<br>(MG/L) | DIS-<br>SOLVED<br>SULFATE<br>(SO4)<br>(MG/L) | DIS-<br>SOLVED<br>CHLO-<br>RIDE<br>(CL)<br>(MG/L) | DIS-<br>SOLVED<br>FLUO-<br>RIDE<br>(F)<br>(MG/L) | DIS-<br>SOLVED<br>SILICA<br>(SI02)<br>(MG/L) | BICAR-<br>BONATE<br>(HC03)<br>(MG/L) |
|-------|--------------------------------------------------|---------------------------------------------------------|--------------------------------------------|-------------------|-----------------------------------------|--------------------------------------------------------|----------------------------------------------|---------------------------------------------------|--------------------------------------------------|----------------------------------------------|--------------------------------------|
| OCT   |                                                  |                                                         |                                            |                   |                                         |                                                        |                                              |                                                   |                                                  |                                              |                                      |
| 31... | --                                               | --                                                      | --                                         | --                | --                                      | --                                                     | --                                           | --                                                | --                                               | --                                           | --                                   |
| NOV   |                                                  |                                                         |                                            |                   |                                         |                                                        |                                              |                                                   |                                                  |                                              |                                      |
| 25... | 2.5                                              | .3                                                      | 1.0                                        | 21                | .2                                      | .4                                                     | 5.2                                          | 1.3                                               | .0                                               | 6.1                                          | 12                                   |
| DEC   |                                                  |                                                         |                                            |                   |                                         |                                                        |                                              |                                                   |                                                  |                                              |                                      |
| 30... | --                                               | --                                                      | --                                         | --                | --                                      | --                                                     | --                                           | --                                                | --                                               | --                                           | --                                   |
| JAN   |                                                  |                                                         |                                            |                   |                                         |                                                        |                                              |                                                   |                                                  |                                              |                                      |
| 22... | 2.5                                              | .5                                                      | 1.1                                        | 22                | .2                                      | .3                                                     | 4.5                                          | 1.4                                               | .2                                               | 7.2                                          | 16                                   |
| FEB   |                                                  |                                                         |                                            |                   |                                         |                                                        |                                              |                                                   |                                                  |                                              |                                      |
| 27... | --                                               | --                                                      | --                                         | --                | --                                      | --                                                     | --                                           | --                                                | --                                               | --                                           | --                                   |
| MAR   |                                                  |                                                         |                                            |                   |                                         |                                                        |                                              |                                                   |                                                  |                                              |                                      |
| 29... | 4.4                                              | .6                                                      | 1.0                                        | 14                | .1                                      | .1                                                     | 5.9                                          | 1.3                                               | .1                                               | 4.2                                          | 18                                   |
| APR   |                                                  |                                                         |                                            |                   |                                         |                                                        |                                              |                                                   |                                                  |                                              |                                      |
| 29... | --                                               | --                                                      | --                                         | --                | --                                      | --                                                     | --                                           | --                                                | --                                               | --                                           | --                                   |
| MAY   |                                                  |                                                         |                                            |                   |                                         |                                                        |                                              |                                                   |                                                  |                                              |                                      |
| 27... | 11                                               | .7                                                      | 1.2                                        | 8                 | .1                                      | .4                                                     | 4.0                                          | .8                                                | .1                                               | 5.8                                          | 17                                   |
| JUL   |                                                  |                                                         |                                            |                   |                                         |                                                        |                                              |                                                   |                                                  |                                              |                                      |
| 30... | 1.5                                              | 1.0                                                     | 1.3                                        | 25                | .2                                      | .4                                                     | 7.0                                          | 1.1                                               | .1                                               | 7.1                                          | 6                                    |
| SEP   |                                                  |                                                         |                                            |                   |                                         |                                                        |                                              |                                                   |                                                  |                                              |                                      |
| 28... | 4.3                                              | .8                                                      | .9                                         | 12                | .1                                      | .4                                                     | 6.0                                          | 2.7                                               | .1                                               | 6.8                                          | 14                                   |

## ANDROSCOGGIN RIVER BASIN

01054200 WILD RIVER AT GILEAD, ME--Continued

## CHEMICAL ANALYSES, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

| DATE      | CAR-<br>BONATE<br>(CO3)<br>(MG/L) | ALKA-<br>LITY<br>AS<br>CACO3<br>(MG/L) | CARBON<br>DIOXIDE<br>(CO2)<br>(MG/L) | DIS-<br>SOLVED<br>SOLIDS<br>(RESI-<br>DUE AT<br>180 C)<br>(MG/L) | DIS-<br>SOLVED<br>SOLIDS<br>(SUM OF<br>CONSTI-<br>TUENTS)<br>(MG/L) | DIS-<br>SOLVED<br>SOLIDS<br>(TONS<br>PER<br>DAY) | TOTAL<br>NITRITE<br>PLUS<br>NITRATE<br>(N)<br>(MG/L) | TOTAL<br>PHOS-<br>PHORUS<br>(P)<br>(MG/L) | TOTAL<br>ARSENIC<br>(AS)<br>(UG/L) | TOTAL<br>BARIUM<br>(BA)<br>(UG/L) | TOTAL<br>CAD-<br>MIUM<br>(CD)<br>(UG/L) |
|-----------|-----------------------------------|----------------------------------------|--------------------------------------|------------------------------------------------------------------|---------------------------------------------------------------------|--------------------------------------------------|------------------------------------------------------|-------------------------------------------|------------------------------------|-----------------------------------|-----------------------------------------|
| OCT 31... | --                                | --                                     | --                                   | --                                                               | --                                                                  | --                                               | --                                                   | --                                        | --                                 | --                                | --                                      |
| NOV 25... | 0                                 | 10                                     | 12                                   | 33                                                               | 23                                                                  | 14.7                                             | .03                                                  | .04                                       | --                                 | --                                | --                                      |
| DEC 30... | --                                | --                                     | --                                   | --                                                               | --                                                                  | --                                               | --                                                   | --                                        | --                                 | --                                | --                                      |
| JAN 22... | 0                                 | 13                                     | 6.4                                  | 27                                                               | 26                                                                  | 4.08                                             | .08                                                  | .01                                       | --                                 | --                                | --                                      |
| FEB 27... | --                                | --                                     | --                                   | --                                                               | --                                                                  | --                                               | --                                                   | --                                        | --                                 | --                                | --                                      |
| MAR 29... | 0                                 | 15                                     | 18                                   | 24                                                               | 26                                                                  | 38.0                                             | .16                                                  | .01                                       | 0                                  | 0                                 | 0                                       |
| APR 29... | --                                | --                                     | --                                   | --                                                               | --                                                                  | --                                               | --                                                   | --                                        | --                                 | --                                | --                                      |
| MAY 27... | 0                                 | 14                                     | 11                                   | 28                                                               | 32                                                                  | 14.5                                             | .02                                                  | .01                                       | --                                 | --                                | --                                      |
| JUL 30... | 0                                 | 5                                      | 1.5                                  | 14                                                               | 22                                                                  | 1.44                                             | .00                                                  | .01                                       | --                                 | --                                | --                                      |
| SEP 28... | 0                                 | 11                                     | 7.1                                  | 24                                                               | 29                                                                  | 7.78                                             | .05                                                  | .04                                       | 0                                  | 100                               | 1                                       |

| DATE      | TOTAL<br>COPPER<br>(CU)<br>(UG/L) | TOTAL<br>IRON<br>(FE)<br>(UG/L) | TOTAL<br>LEAD<br>(PB)<br>(UG/L) | TOTAL<br>MAN-<br>GANESE<br>(MN)<br>(UG/L) | TOTAL<br>MERCURY<br>(HG)<br>(UG/L) | TOTAL<br>SELE-<br>NIUM<br>(SE)<br>(UG/L) | TOTAL<br>SILVER<br>(AG)<br>(UG/L) | TOTAL<br>ZINC<br>(ZN)<br>(UG/L) | CYANIDE<br>(CN)<br>(MG/L) | SUS-<br>PENDE<br>SEDI-<br>MENT<br>(MG/L) |
|-----------|-----------------------------------|---------------------------------|---------------------------------|-------------------------------------------|------------------------------------|------------------------------------------|-----------------------------------|---------------------------------|---------------------------|------------------------------------------|
| OCT 31... | --                                | --                              | --                              | --                                        | --                                 | --                                       | --                                | --                              | --                        | 1                                        |
| NOV 25... | --                                | --                              | --                              | --                                        | --                                 | --                                       | --                                | --                              | --                        | 1                                        |
| DEC 30... | --                                | --                              | --                              | --                                        | --                                 | --                                       | --                                | --                              | --                        | 3                                        |
| JAN 22... | --                                | --                              | --                              | --                                        | --                                 | --                                       | --                                | --                              | --                        | 17                                       |
| FEB 27... | --                                | --                              | --                              | --                                        | --                                 | --                                       | --                                | --                              | --                        | --                                       |
| MAR 29... | 10                                | 90                              | 10                              | 20                                        | <.5                                | 0                                        | 0                                 | 20                              | .00                       | 5                                        |
| APR 29... | --                                | --                              | --                              | --                                        | --                                 | --                                       | --                                | --                              | --                        | 2                                        |
| MAY 27... | --                                | --                              | --                              | --                                        | --                                 | --                                       | --                                | --                              | --                        | 5                                        |
| JUL 30... | --                                | --                              | --                              | --                                        | --                                 | --                                       | --                                | --                              | --                        | --                                       |
| SEP 28... | 0                                 | 130                             | 0                               | 20                                        | <.5                                | 0                                        | 0                                 | 10                              | .00                       | --                                       |

## RADIOCHEMICAL ANALYSES, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

| DATE      | DIS-<br>SOLVED<br>GROSS<br>ALPHA<br>AS<br>U-NAT.<br>(UG/L) | SUS-<br>PENDE<br>GROSS<br>ALPHA<br>AS<br>U-NAT.<br>(UG/L) | DIS-<br>SOLVED<br>GROSS<br>BETA<br>AS<br>CS-137<br>(PC/L) | SUS-<br>PENDE<br>GROSS<br>BETA<br>AS<br>CS-137<br>(PC/L) | DIS-<br>SOLVED<br>GROSS<br>BETA<br>AS SR90<br>/Y90<br>(PC/L) | SUS-<br>PENDE<br>GROSS<br>BETA<br>AS SR90<br>/Y90<br>(PC/L) | DIS-<br>SOLVED<br>RA-226<br>(RADON<br>METHOD)<br>(PC/L) | DIS-<br>SOLVED<br>URANIUM<br>(U)<br>(UG/L) | TOTAL<br>NON-<br>FILT-<br>RABLE<br>RESIDUE<br>(MG/L) |
|-----------|------------------------------------------------------------|-----------------------------------------------------------|-----------------------------------------------------------|----------------------------------------------------------|--------------------------------------------------------------|-------------------------------------------------------------|---------------------------------------------------------|--------------------------------------------|------------------------------------------------------|
| SEP 28... | <.4                                                        | <.4                                                       | 1.6                                                       | <.4                                                      | 1.4                                                          | <.4                                                         | .06                                                     | .04                                        | <1                                                   |



01054200 WILD RIVER AT GILEAD, ME--Continued

## PESTICIDE ANALYSES, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

| DATE         | TOTAL<br>FILT-<br>RABLE<br>RESIDUE<br>(MG/L) | TOTAL<br>PCB<br>(UG/L) | POLY-<br>CHLO-<br>RINATED<br>NAPH-<br>THA-<br>LENES<br>(UG/L) | PCB<br>IN<br>BOTTOM<br>MA-<br>TERIAL<br>(UG/KG) | TOTAL<br>ALDRIN<br>(UG/L) | ALDRIN<br>IN<br>BOTTOM<br>MA-<br>TERIAL<br>(UG/KG) | TOTAL<br>CHLOR-<br>DANE<br>(UG/L) | CHLOR-<br>DANE<br>IN<br>BOTTOM<br>MA-<br>TERIAL<br>(UG/KG) | TOTAL<br>DDD<br>(UG/L) | DDD<br>IN<br>BOTTOM<br>MA-<br>TERIAL<br>(UG/KG) | TOTAL<br>DDE<br>(UG/L) | DDE<br>IN<br>BOTTOM<br>MA-<br>TERIAL<br>(UG/KG) |
|--------------|----------------------------------------------|------------------------|---------------------------------------------------------------|-------------------------------------------------|---------------------------|----------------------------------------------------|-----------------------------------|------------------------------------------------------------|------------------------|-------------------------------------------------|------------------------|-------------------------------------------------|
| SEP<br>28... | 30                                           | .0                     | .00                                                           | 0                                               | .00                       | .0                                                 | .0                                | 0                                                          | .00                    | .0                                              | .00                    | .0                                              |

| DATE         | TOTAL<br>DDT<br>(UG/L) | DDT<br>IN<br>BOTTOM<br>MA-<br>TERIAL<br>(UG/KG) | TOTAL<br>DI-<br>AZINON<br>(UG/L) | TOTAL<br>DI-<br>ELDRIN<br>(UG/L) | DI-<br>ELDRIN<br>IN<br>BOTTOM<br>MA-<br>TERIAL<br>(UG/KG) | TOTAL<br>ENDRIN<br>(UG/L) | ENDRIN<br>IN<br>BOTTOM<br>MA-<br>TERIAL<br>(UG/KG) | TOTAL<br>ETHION<br>(UG/L) | TOTAL<br>HEPTA-<br>CHLOR<br>(UG/L) | HEPTA-<br>CHLOR<br>IN<br>BOTTOM<br>MA-<br>TERIAL<br>(UG/KG) | TOTAL<br>HEPTA-<br>CHLOR<br>EPOXIDE<br>(UG/L) | HEPTA-<br>CHLOR<br>EPOXIDE<br>IN BOT-<br>TOM MA-<br>TERIAL<br>(UG/KG) |
|--------------|------------------------|-------------------------------------------------|----------------------------------|----------------------------------|-----------------------------------------------------------|---------------------------|----------------------------------------------------|---------------------------|------------------------------------|-------------------------------------------------------------|-----------------------------------------------|-----------------------------------------------------------------------|
| SEP<br>28... | .00                    | .0                                              | .00                              | .00                              | .0                                                        | .00                       | .0                                                 | .00                       | .00                                | .0                                                          | .00                                           | .0                                                                    |

| DATE         | TOTAL<br>LINDANE<br>(UG/L) | LINDANE<br>IN<br>BOTTOM<br>MA-<br>TERIAL<br>(UG/KG) | TOTAL<br>MALA-<br>THION<br>(UG/L) | TOTAL<br>METHYL<br>PARA-<br>THION<br>(UG/L) | TOTAL<br>METHYL<br>TRI-<br>THION<br>(UG/L) | TOTAL<br>PARA-<br>THION<br>(UG/L) | TOTAL<br>TOX-<br>APHENE<br>(UG/L) | TOTAL<br>TRI-<br>THION<br>(UG/L) | TOTAL<br>2,4-D<br>(UG/L) | TOTAL<br>2,4,5-T<br>(UG/L) | TOTAL<br>SILVEX<br>(UG/L) |
|--------------|----------------------------|-----------------------------------------------------|-----------------------------------|---------------------------------------------|--------------------------------------------|-----------------------------------|-----------------------------------|----------------------------------|--------------------------|----------------------------|---------------------------|
| SEP<br>28... | .00                        | .0                                                  | .00                               | .00                                         | .00                                        | .00                               | 0                                 | .00                              | .00                      | .00                        | .00                       |

01054200 WILD RIVER AT GILEAD, ME--Continued

TEMPERATURE (DEG. C) OF WATER, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

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

## 01054300 ELLIS RIVER AT SOUTH ANDOVER, ME

LOCATION.--Lat 44°35'37", long 70°44'01", Oxford County, Hydrologic Unit 01040002, on left bank 100 ft (30 m) upstream from covered bridge at South Andover.

DRAINAGE AREA.--131 mi<sup>2</sup> (339 km<sup>2</sup>).

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 good except those for winter period and period of no gage-height record, which are fair.

AVERAGE DISCHARGE.--13 years, 252 ft<sup>3</sup>/s (7.137 m<sup>3</sup>/s), 26.12 in/yr (663 mm/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 5,630 ft<sup>3</sup>/s (159 m<sup>3</sup>/s) Dec. 29, 1969, gage height, 19.23 ft (5.861 m); minimum, 12 ft<sup>3</sup>/s (0.34 m<sup>3</sup>/s) part or all of each day Aug. 20-22, 1975.

EXTREMES FOR CURRENT YEAR.--Peak discharges above base of 2,000 ft<sup>3</sup>/s (56.64 m<sup>3</sup>/s) and maximums (\*):

| Date    | Time | Discharge<br>(ft <sup>3</sup> /s) (m <sup>3</sup> /s) | Gage height<br>(ft) (m) | Date    | Time | Discharge<br>(ft <sup>3</sup> /s) (m <sup>3</sup> /s) | Gage height<br>(ft) (m) |
|---------|------|-------------------------------------------------------|-------------------------|---------|------|-------------------------------------------------------|-------------------------|
| Mar. 29 | -    | 2,200 20.8                                            | - -                     | Apr. 18 | -    | 2,400 68.0                                            | - -                     |
| Apr. 2  | -    | *5,000 142                                            | - -                     | May 13  | 0100 | 2,340 66.3                                            | 14.33 4.368             |

Minimum discharge, 49 ft<sup>3</sup>/s (1.39 m<sup>3</sup>/s) Oct. 11.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976  
MEAN VALUES

| DAY   | OCT  | NOV   | DEC  | JAN  | FEB  | MAR   | APR   | MAY   | JUN  | JUL  | AUG  | SEP  |
|-------|------|-------|------|------|------|-------|-------|-------|------|------|------|------|
| 1     | 96   | 121   | 310  | 140  | 375  | 300   | 1300  | 364   | 189  | 380  | 409  | 92   |
| 2     | 84   | 115   | 380  | 135  | 452  | 290   | 4500  | 522   | 180  | 301  | 542  | 220  |
| 3     | 75   | 110   | 238  | 130  | 620  | 275   | 3100  | 540   | 162  | 204  | 307  | 140  |
| 4     | 67   | 106   | 189  | 125  | 597  | 265   | 2000  | 691   | 168  | 155  | 207  | 110  |
| 5     | 60   | 106   | 185  | 120  | 542  | 260   | 1350  | 500   | 150  | 126  | 155  | 92   |
| 6     | 58   | 96    | 186  | 115  | 481  | 275   | 1000  | 411   | 124  | 106  | 120  | 84   |
| 7     | 53   | 93    | 166  | 110  | 439  | 290   | 840   | 406   | 112  | 95   | 106  | 74   |
| 8     | 52   | 94    | 153  | 110  | 399  | 280   | 760   | 479   | 111  | 95   | 103  | 66   |
| 9     | 51   | 119   | 135  | 105  | 372  | 250   | 690   | 410   | 103  | 105  | 109  | 61   |
| 10    | 51   | 118   | 163  | 100  | 330  | 235   | 650   | 351   | 95   | 94   | 795  | 55   |
| 11    | 49   | 190   | 297  | 97   | 300  | 220   | 610   | 315   | 87   | 80   | 1370 | 500  |
| 12    | 168  | 275   | 263  | 95   | 275  | 205   | 580   | 817   | 86   | 103  | 508  | 260  |
| 13    | 272  | 450   | 248  | 95   | 255  | 200   | 560   | 1750  | 82   | 126  | 471  | 150  |
| 14    | 167  | 800   | 235  | 96   | 235  | 200   | 550   | 803   | 77   | 154  | 244  | 100  |
| 15    | 126  | 960   | 181  | 96   | 220  | 195   | 650   | 581   | 74   | 132  | 263  | 75   |
| 16    | 147  | 810   | 177  | 91   | 210  | 190   | 1000  | 468   | 69   | 105  | 686  | 67   |
| 17    | 168  | 600   | 164  | 86   | 205  | 180   | 1900  | 396   | 69   | 104  | 442  | 63   |
| 18    | 339  | 460   | 160  | 82   | 200  | 190   | 2200  | 358   | 73   | 153  | 291  | 61   |
| 19    | 495  | 390   | 120  | 81   | 210  | 180   | 1500  | 678   | 68   | 105  | 221  | 61   |
| 20    | 635  | 310   | 124  | 80   | 230  | 200   | 1060  | 1350  | 61   | 87   | 179  | 62   |
| 21    | 1060 | 350   | 131  | 80   | 225  | 300   | 821   | 865   | 69   | 77   | 146  | 59   |
| 22    | 520  | 490   | 136  | 79   | 230  | 600   | 656   | 715   | 130  | 69   | 123  | 56   |
| 23    | 368  | 600   | 138  | 78   | 260  | 480   | 825   | 568   | 94   | 62   | 110  | 54   |
| 24    | 288  | 550   | 131  | 77   | 290  | 390   | 696   | 466   | 76   | 116  | 95   | 53   |
| 25    | 242  | 480   | 132  | 76   | 275  | 460   | 539   | 396   | 74   | 156  | 83   | 52   |
| 26    | 218  | 410   | 140  | 75   | 260  | 580   | 492   | 345   | 118  | 99   | 76   | 80   |
| 27    | 189  | 350   | 172  | 74   | 250  | 730   | 505   | 307   | 154  | 140  | 78   | 450  |
| 28    | 171  | 320   | 181  | 343  | 285  | 1300  | 498   | 272   | 118  | 260  | 85   | 280  |
| 29    | 158  | 295   | 172  | 496  | 310  | 2000  | 468   | 241   | 97   | 131  | 110  | 190  |
| 30    | 145  | 280   | 167  | 478  | ---  | 1350  | 410   | 211   | 125  | 126  | 110  | 130  |
| 31    | 133  | ---   | 150  | 408  | ---  | 1150  | ---   | 189   | ---  | 287  | 97   | ---  |
| TOTAL | 6705 | 10448 | 5724 | 4353 | 9332 | 14020 | 32710 | 16765 | 3195 | 4333 | 8641 | 3797 |
| MEAN  | 216  | 348   | 185  | 140  | 322  | 452   | 1090  | 541   | 107  | 140  | 279  | 127  |
| MAX   | 1060 | 960   | 380  | 496  | 620  | 2000  | 4500  | 1750  | 189  | 380  | 1370 | 500  |
| MIN   | 49   | 93    | 120  | 74   | 200  | 180   | 410   | 189   | 61   | 62   | 76   | 52   |
| CFSM  | 1.65 | 2.66  | 1.41 | 1.07 | 2.46 | 3.45  | 8.32  | 4.13  | .82  | 1.07 | 2.13 | .97  |
| IN.   | 1.90 | 2.97  | 1.63 | 1.24 | 2.65 | 3.98  | 9.29  | 4.76  | .91  | 1.23 | 2.45 | 1.08 |

CAL YR 1975 TOTAL 82314 MEAN 226 MAX 2160 MIN 12 CFMS 1.73 IN 23.37  
WTR YR 1976 TOTAL 120023 MEAN 328 MAX 4500 MIN 49 CFMS 2.50 IN 34.08

NOTE.--No gage-height record Mar. 22 to Apr. 19, Aug. 23 to Sept. 30.

## ANDROSCOGGIN RIVER BASIN

01054500 ANDROSCOGGIN RIVER AT RUMFORD, ME

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

DRAINAGE AREA.--2,067 mi<sup>2</sup> (5,354 km<sup>2</sup>).

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

REVISED RECORDS.--WSP 1001: Drainage area.

GAGE.--Nonrecording gages in pond above dam in tailrace of upper plant. Prior to Aug. 1, 1937, nonrecording gages in pond and tailrace of middle plant.

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

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

AVERAGE DISCHARGE.--84 years, 3,704 ft<sup>3</sup>/s (105 m<sup>3</sup>/s).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 74,000 ft<sup>3</sup>/s (2,096 m<sup>3</sup>/s) Mar. 20, 1936; minimum daily, 625 ft<sup>3</sup>/s (17.7 m<sup>3</sup>/s) Mar. 27, 1911.

EXTREMES FOR CURRENT YEAR.--Maximum daily discharge, 28,500 ft<sup>3</sup>/s (807 m<sup>3</sup>/s) Apr. 2; minimum daily, 1,730 ft<sup>3</sup>/s (49.0 m<sup>3</sup>/s) Dec. 20.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976  
MEAN VALUES

| DAY               | OCT     | NOV    | DEC   | JAN       | FEB       | MAR      | APR    | MAY    | JUN   | JUL   | AUG    | SEP   |
|-------------------|---------|--------|-------|-----------|-----------|----------|--------|--------|-------|-------|--------|-------|
| 1                 | 2210    | 2600   | 3510  | 2600      | 3350      | 3330     | 18600  | 7050   | 3310  | 3840  | 3790   | 2660  |
| 2                 | 2280    | 2580   | 3950  | 2500      | 4320      | 2920     | 28500  | 10800  | 3160  | 3570  | 4890   | 3040  |
| 3                 | 2160    | 2670   | 3510  | 2520      | 5130      | 2970     | 20300  | 9770   | 3010  | 3000  | 3380   | 2750  |
| 4                 | 2080    | 2660   | 2380  | 2560      | 3970      | 2980     | 15700  | 9870   | 2980  | 2670  | 2670   | 2580  |
| 5                 | 2130    | 2620   | 2140  | 2430      | 3650      | 3240     | 13000  | 8320   | 2930  | 2600  | 2600   | 2510  |
| 6                 | 2150    | 2500   | 2810  | 2340      | 3340      | 5680     | 10300  | 7770   | 2770  | 2600  | 2550   | 2530  |
| 7                 | 2110    | 2500   | 2810  | 2420      | 3160      | 4900     | 9380   | 8150   | 2620  | 2250  | 2440   | 2630  |
| 8                 | 2050    | 2600   | 2490  | 2530      | 3040      | 3910     | 9230   | 9190   | 2760  | 2310  | 2490   | 2560  |
| 9                 | 2010    | 2770   | 2550  | 2440      | 2960      | 3300     | 9040   | 8250   | 2830  | 2540  | 2630   | 2560  |
| 10                | 2090    | 2900   | 3230  | 2370      | 2950      | 3410     | 8470   | 7260   | 2660  | 2550  | 9590   | 2570  |
| 11                | 2020    | 3410   | 3950  | 2340      | 2900      | 3170     | 8170   | 6210   | 2640  | 2300  | 9290   | 4420  |
| 12                | 3250    | 3340   | 3010  | 2340      | 2880      | 2970     | 7230   | 9530   | 2600  | 2450  | 4900   | 3840  |
| 13                | 3890    | 4840   | 2630  | 2430      | 2810      | 3080     | 6470   | 13200  | 2500  | 2630  | 3600   | 3120  |
| 14                | 3080    | 6940   | 2930  | 2440      | 2750      | 3100     | 6290   | 11400  | 2540  | 2680  | 2940   | 2940  |
| 15                | 2670    | 7430   | 3250  | 2490      | 2640      | 3010     | 6660   | 10200  | 2540  | 2580  | 4350   | 2710  |
| 16                | 3070    | 4420   | 3400  | 2380      | 2630      | 2940     | 9130   | 9760   | 2550  | 2460  | 7860   | 2610  |
| 17                | 3160    | 3520   | 2690  | 2330      | 2690      | 2640     | 12200  | 8950   | 2660  | 2610  | 5320   | 2770  |
| 18                | 4650    | 3500   | 2710  | 2270      | 2640      | 2730     | 15000  | 8250   | 2580  | 2700  | 3580   | 2630  |
| 19                | 5450    | 3370   | 1990  | 2240      | 2650      | 2750     | 15200  | 13000  | 2440  | 2500  | 3290   | 2620  |
| 20                | 6870    | 3220   | 1730  | 2320      | 2710      | 2950     | 13800  | 15700  | 2400  | 2370  | 2790   | 2700  |
| 21                | 9160    | 3390   | 2280  | 2430      | 2640      | 4780     | 10900  | 13600  | 2560  | 2320  | 2700   | 2690  |
| 22                | 6210    | 5010   | 2540  | 2500      | 2730      | 9290     | 9760   | 12300  | 3100  | 2280  | 2610   | 2660  |
| 23                | 3710    | 4290   | 2540  | 2290      | 4030      | 7260     | 10800  | 11100  | 2640  | 2230  | 2550   | 2640  |
| 24                | 3330    | 3600   | 2340  | 2230      | 3570      | 6820     | 10900  | 10300  | 2460  | 2780  | 2490   | 2610  |
| 25                | 3010    | 3360   | 2370  | 2360      | 3330      | 7450     | 9250   | 9250   | 2760  | 3090  | 2500   | 2590  |
| 26                | 3040    | 3170   | 2410  | 2440      | 3370      | 8360     | 8840   | 8380   | 3580  | 2390  | 2350   | 2600  |
| 27                | 2910    | 3050   | 2530  | 2790      | 3310      | 8650     | 9250   | 6570   | 3260  | 2750  | 2400   | 3500  |
| 28                | 2850    | 3070   | 2650  | 7640      | 3570      | 14000    | 9360   | 5140   | 2980  | 3420  | 2710   | 3560  |
| 29                | 2580    | 3000   | 2490  | 6180      | 3400      | 15300    | 8550   | 5220   | 2760  | 2840  | 2910   | 3050  |
| 30                | 2680    | 2930   | 2520  | 4240      | ---       | 14100    | 7620   | 4140   | 2790  | 2760  | 2970   | 2750  |
| 31                | 2550    | ---    | 2610  | 3710      | ---       | 13100    | ---    | 3200   | ---   | 3420  | 2750   | ---   |
| TOTAL             | 101410  | 105260 | 84950 | 87100     | 93120     | 175090   | 337900 | 281830 | 83370 | 83490 | 113890 | 85400 |
| MEAN              | 3271    | 3509   | 2740  | 2810      | 3211      | 5648     | 11260  | 9091   | 2779  | 2693  | 3674   | 2847  |
| MAX               | 9160    | 7430   | 3950  | 7640      | 5130      | 15300    | 28500  | 15700  | 3580  | 3840  | 9590   | 4420  |
| MIN               | 2010    | 2500   | 1730  | 2230      | 2630      | 2640     | 6290   | 3200   | 2400  | 2230  | 2350   | 2510  |
| CAL YR 1975 TOTAL | 1193700 |        |       | MEAN 3270 | MAX 13900 | MIN 1730 |        |        |       |       |        |       |
| WTR YR 1976 TOTAL | 1632810 |        |       | MEAN 4461 | MAX 28500 | MIN 1730 |        |        |       |       |        |       |

01055000 SWIFT RIVER NEAR ROXBURY, ME

LOCATION.--Lat 44°38'32", long 70°35'17", Oxford County, Hydrologic Unit 01040002, on left bank 0.2 mi (0.3 km) downstream from Philbrick Brook, 2.1 mi (3.4 km) downstream from Roxbury, and 7.2 mi (11.6 km) upstream from mouth.

DRAINAGE AREA.--95.8 mi<sup>2</sup> (248 km<sup>2</sup>).

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

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

GAGE.--Water-stage recorder. Datum of gage is 615.67 ft (187.656 m) above mean sea level.

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

AVERAGE DISCHARGE.--47 years, 255 ft<sup>3</sup>/s (7.22 m<sup>3</sup>/s), 28.08 in/yr (713 mm/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 16,800 ft<sup>3</sup>/s (476 m<sup>3</sup>/s) Oct. 24, 1959, gage height, 12.87 ft (3.923 m), from rating curve extended above 7,000 ft<sup>3</sup>/s (198 m<sup>3</sup>/s); minimum, 3.8 ft<sup>3</sup>/s (0.11 m<sup>3</sup>/s) Sept. 16, 17, 1948, gage height, 0.93 ft (0.283 m).

EXTREMES FOR CURRENT YEAR.--Peak discharges above base of 2,400 ft<sup>3</sup>/s (68.0 m<sup>3</sup>/s) and maximums (\*):

| Date    | Time | Discharge<br>(ft <sup>3</sup> /s) (m <sup>3</sup> /s) | Gage height<br>(ft) (m) | Date    | Time | Discharge<br>(ft <sup>3</sup> /s) (m <sup>3</sup> /s) | Gage height<br>(ft) (m) |
|---------|------|-------------------------------------------------------|-------------------------|---------|------|-------------------------------------------------------|-------------------------|
| Mar. 28 | 1100 | 2,900 82.1                                            | 6.01 1.832              | May 12  | 1000 | 3,900 110                                             | 6.79 2.070              |
| Apr. 1  | 2400 | *4,860 138                                            | *7.43 2.265             | May 19  | 1500 | 3,120 88.4                                            | 6.19 1.887              |
| Apr. 18 | 1900 | 2,730 77.3                                            | 5.86 1.786              | Aug. 10 | 1900 | 2,740 77.6                                            | 5.87 1.789              |

Minimum discharge, 27 ft<sup>3</sup>/s (0.76 m<sup>3</sup>/s) July 24.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976  
MEAN VALUES

| DAY         | OCT   | NOV     | DEC      | JAN      | FEB     | MAR       | APR      | MAY   | JUN  | JUL  | AUG  | SEP  |
|-------------|-------|---------|----------|----------|---------|-----------|----------|-------|------|------|------|------|
| 1           | 67    | 105     | 282      | 76       | 549     | 168       | 1530     | 315   | 172  | 392  | 593  | 76   |
| 2           | 58    | 98      | 263      | 69       | 1270    | 135       | 2670     | 722   | 138  | 223  | 483  | 107  |
| 3           | 51    | 96      | 182      | 67       | 1320    | 125       | 1200     | 689   | 113  | 130  | 196  | 82   |
| 4           | 46    | 95      | 139      | 67       | 750     | 120       | 819      | 547   | 105  | 98   | 122  | 64   |
| 5           | 40    | 92      | 100      | 63       | 550     | 120       | 595      | 358   | 87   | 68   | 89   | 62   |
| 6           | 39    | 80      | 149      | 60       | 425     | 145       | 537      | 318   | 76   | 49   | 74   | 58   |
| 7           | 38    | 79      | 133      | 56       | 350     | 150       | 563      | 403   | 70   | 39   | 68   | 51   |
| 8           | 36    | 83      | 96       | 54       | 290     | 140       | 478      | 417   | 75   | 42   | 74   | 43   |
| 9           | 34    | 113     | 121      | 52       | 240     | 125       | 400      | 292   | 61   | 68   | 100  | 39   |
| 10          | 32    | 99      | 188      | 50       | 210     | 120       | 405      | 246   | 52   | 42   | 1320 | 37   |
| 11          | 31    | 240     | 229      | 50       | 190     | 115       | 425      | 229   | 45   | 31   | 849  | 420  |
| 12          | 201   | 151     | 132      | 48       | 175     | 110       | 307      | 1720  | 42   | 152  | 299  | 205  |
| 13          | 275   | 507     | 108      | 48       | 160     | 110       | 281      | 762   | 41   | 157  | 179  | 117  |
| 14          | 138   | 937     | 124      | 47       | 150     | 110       | 314      | 425   | 39   | 225  | 153  | 79   |
| 15          | 96    | 536     | 144      | 47       | 135     | 107       | 398      | 337   | 35   | 123  | 247  | 62   |
| 16          | 143   | 288     | 177      | 47       | 130     | 108       | 1040     | 269   | 31   | 76   | 701  | 56   |
| 17          | 141   | 216     | 118      | 47       | 125     | 121       | 1890     | 238   | 45   | 117  | 288  | 54   |
| 18          | 379   | 183     | 105      | 47       | 120     | 133       | 2040     | 267   | 42   | 164  | 176  | 65   |
| 19          | 342   | 160     | 90       | 47       | 120     | 115       | 1590     | 1490  | 32   | 82   | 132  | 154  |
| 20          | 912   | 147     | 75       | 46       | 120     | 122       | 1260     | 1020  | 31   | 56   | 107  | 96   |
| 21          | 658   | 172     | 74       | 45       | 117     | 250       | 675      | 622   | 93   | 41   | 90   | 74   |
| 22          | 302   | 532     | 76       | 45       | 147     | 520       | 532      | 526   | 125  | 33   | 76   | 63   |
| 23          | 212   | 260     | 80       | 45       | 230     | 435       | 744      | 381   | 63   | 29   | 65   | 57   |
| 24          | 162   | 189     | 82       | 45       | 210     | 385       | 526      | 308   | 43   | 119  | 56   | 51   |
| 25          | 141   | 164     | 77       | 46       | 185     | 499       | 387      | 260   | 52   | 113  | 50   | 46   |
| 26          | 155   | 144     | 76       | 44       | 170     | 641       | 368      | 228   | 177  | 60   | 44   | 45   |
| 27          | 134   | 133     | 177      | 102      | 205     | 850       | 327      | 204   | 150  | 111  | 175  | 493  |
| 28          | 115   | 134     | 121      | 1280     | 256     | 1710      | 386      | 178   | 96   | 195  | 151  | 250  |
| 29          | 105   | 121     | 89       | 796      | 199     | 951       | 365      | 152   | 62   | 91   | 138  | 142  |
| 30          | 115   | 116     | 82       | 481      | ---     | 738       | 328      | 134   | 75   | 116  | 161  | 107  |
| 31          | 110   | ---     | 80       | 450      | ---     | 743       | ---      | 123   | ---  | 382  | 98   | ---  |
| TOTAL       | 5308  | 6270    | 3969     | 4467     | 9098    | 10221     | 23380    | 14180 | 2268 | 3624 | 7354 | 3255 |
| MEAN        | 171   | 209     | 128      | 144      | 314     | 330       | 779      | 457   | 75.6 | 117  | 237  | 109  |
| MAX         | 912   | 937     | 282      | 1280     | 1320    | 1710      | 2670     | 1720  | 177  | 392  | 1320 | 493  |
| MIN         | 31    | 79      | 74       | 44       | 117     | 107       | 281      | 123   | 31   | 29   | 44   | 37   |
| CFSM        | 1.78  | 2.18    | 1.34     | 1.50     | 3.28    | 3.44      | 8.13     | 4.77  | .79  | 1.22 | 2.47 | 1.14 |
| IN.         | 2.06  | 2.43    | 1.54     | 1.73     | 3.53    | 3.97      | 9.08     | 5.51  | .88  | 1.41 | 2.86 | 1.26 |
| CAL YR 1975 | TOTAL | 67460.4 | MEAN 185 | MAX 1410 | MIN 7.9 | CFSM 1.93 | IN 26.20 |       |      |      |      |      |
| WTR YR 1976 | TOTAL | 93394.0 | MEAN 255 | MAX 2670 | MIN 29  | CFSM 2.66 | IN 36.27 |       |      |      |      |      |

## ANDROSCOGGIN RIVER BASIN

01055500 NEZINSCOT RIVER AT TURNER CENTER, ME

LOCATION.--Lat 44°16'10", long 70°13'49", Androscoggin County, Hydrologic Unit 01040002, on left bank 500 ft (150 m) upstream from upper highway bridge at Turner Center and 3.6 mi (5.8 km) upstream from mouth.

DRAINAGE AREA.--171 mi<sup>2</sup> (443 km<sup>2</sup>).

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.

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

AVERAGE DISCHARGE.--35 years, 303 ft<sup>3</sup>/s (8.581 m<sup>3</sup>/s), 24.06 in/yr (611 mm/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 13,900 ft<sup>3</sup>/s (394 m<sup>3</sup>/s) Mar. 27, 1953, gage height, 11.18 ft (3.408 m); minimum, 5.6 ft<sup>3</sup>/s (0.16 m<sup>3</sup>/s) Aug. 29, 1956, gage height, 0.72 ft (0.219 m).

EXTREMES FOR CURRENT YEAR.--Peak discharges above base of 1,700 ft<sup>3</sup>/s (48.1 m<sup>3</sup>/s) and maximums (\*):

| Date    | Time | Discharge<br>(ft <sup>3</sup> /s) (m <sup>3</sup> /s) | Gage height<br>(ft) (m) | Date   | Time | Discharge<br>(ft <sup>3</sup> /s) (m <sup>3</sup> /s) | Gage height<br>(ft) (m) |
|---------|------|-------------------------------------------------------|-------------------------|--------|------|-------------------------------------------------------|-------------------------|
| Mar. 29 | 2200 | 2,530 71.6                                            | 5.11 1.558              | Apr. 2 | 1900 | *4,280 121                                            | *6.33 1.929             |

Minimum discharge, 50 ft<sup>3</sup>/s (1.42 m<sup>3</sup>/s) Oct. 11, Sept. 26.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976  
MEAN VALUES

| DAY         | OCT   | NOV    | DEC  | JAN  | FEB   | MAR   | APR   | MAY   | JUN  | JUL  | AUG   | SEP   |
|-------------|-------|--------|------|------|-------|-------|-------|-------|------|------|-------|-------|
| 1           | 132   | 190    | 363  | 145  | 765   | 375   | 2160  | 273   | 189  | 483  | 630   | 119   |
| 2           | 107   | 172    | 562  | 140  | 840   | 330   | 3850  | 581   | 181  | 592  | 832   | 135   |
| 3           | 92    | 159    | 495  | 135  | 940   | 305   | 3560  | 827   | 162  | 432  | 649   | 183   |
| 4           | 81    | 151    | 376  | 130  | 940   | 305   | 2470  | 797   | 148  | 326  | 452   | 152   |
| 5           | 73    | 143    | 279  | 130  | 810   | 320   | 1860  | 653   | 134  | 222  | 323   | 128   |
| 6           | 68    | 131    | 272  | 125  | 700   | 305   | 1430  | 495   | 123  | 165  | 230   | 116   |
| 7           | 66    | 122    | 260  | 125  | 610   | 305   | 1240  | 413   | 115  | 134  | 180   | 106   |
| 8           | 59    | 131    | 220  | 120  | 560   | 285   | 1100  | 434   | 112  | 120  | 169   | 94    |
| 9           | 55    | 185    | 185  | 120  | 500   | 310   | 939   | 409   | 106  | 156  | 185   | 86    |
| 10          | 52    | 203    | 260  | 115  | 410   | 300   | 809   | 343   | 95   | 185  | 745   | 81    |
| 11          | 52    | 363    | 370  | 115  | 430   | 295   | 736   | 301   | 87   | 138  | 1270  | 89    |
| 12          | 101   | 363    | 380  | 110  | 385   | 290   | 645   | 376   | 82   | 131  | 966   | 107   |
| 13          | 199   | 599    | 300  | 110  | 370   | 285   | 560   | 748   | 76   | 277  | 599   | 100   |
| 14          | 188   | 1100   | 265  | 110  | 350   | 280   | 528   | 652   | 71   | 446  | 423   | 87    |
| 15          | 164   | 1130   | 253  | 105  | 330   | 280   | 510   | 486   | 70   | 432  | 346   | 81    |
| 16          | 159   | 789    | 280  | 105  | 320   | 275   | 504   | 365   | 66   | 332  | 1170  | 75    |
| 17          | 157   | 570    | 225  | 105  | 315   | 276   | 533   | 296   | 72   | 239  | 1200  | 73    |
| 18          | 261   | 447    | 200  | 105  | 315   | 313   | 534   | 289   | 88   | 183  | 718   | 76    |
| 19          | 461   | 368    | 190  | 105  | 315   | 303   | 473   | 664   | 79   | 151  | 495   | 79    |
| 20          | 586   | 312    | 180  | 100  | 315   | 310   | 410   | 1300  | 71   | 125  | 375   | 82    |
| 21          | 943   | 309    | 170  | 100  | 325   | 462   | 350   | 1240  | 106  | 107  | 284   | 70    |
| 22          | 707   | 744    | 165  | 100  | 345   | 757   | 322   | 1070  | 231  | 91   | 210   | 62    |
| 23          | 502   | 823    | 160  | 100  | 370   | 776   | 444   | 834   | 175  | 80   | 172   | 58    |
| 24          | 388   | 591    | 170  | 100  | 380   | 674   | 447   | 634   | 121  | 168  | 145   | 54    |
| 25          | 318   | 466    | 165  | 100  | 355   | 704   | 362   | 498   | 143  | 382  | 126   | 51    |
| 26          | 303   | 394    | 160  | 100  | 335   | 855   | 351   | 404   | 256  | 298  | 112   | 50    |
| 27          | 279   | 347    | 210  | 180  | 330   | 1100  | 423   | 343   | 277  | 201  | 109   | 195   |
| 28          | 243   | 320    | 190  | 380  | 350   | 1760  | 404   | 299   | 238  | 266  | 118   | 210   |
| 29          | 217   | 303    | 175  | 740  | 370   | 2360  | 352   | 258   | 172  | 233  | 119   | 185   |
| 30          | 219   | 281    | 160  | 900  | ---   | 2350  | 305   | 224   | 191  | 183  | 138   | 140   |
| 31          | 213   | ---    | 155  | 820  | ---   | 2120  | ---   | 199   | ---  | 315  | 143   | ---   |
| TOTAL       | 7445  | 12206  | 7795 | 5975 | 13680 | 19965 | 28611 | 16705 | 4037 | 7593 | 13633 | 3124  |
| MEAN        | 240   | 407    | 251  | 193  | 472   | 644   | 954   | 539   | 135  | 245  | 440   | 104   |
| MAX         | 943   | 1130   | 562  | 900  | 940   | 2360  | 3850  | 1300  | 277  | 592  | 1270  | 210   |
| MIN         | 52    | 122    | 155  | 100  | 315   | 275   | 305   | 199   | 66   | 80   | 109   | 50    |
| CFSM        | 1.40  | 2.38   | 1.47 | 1.13 | 2.76  | 3.77  | 5.58  | 3.15  | .79  | 1.43 | 2.57  | .61   |
| IN.         | 1.62  | 2.66   | 1.70 | 1.30 | 2.98  | 4.34  | 6.22  | 3.63  | .88  | 1.65 | 2.97  | .68   |
| CAL YR 1975 | TOTAL | 107229 | MEAN | 294  | MAX   | 2080  | MIN   | 23    | CFSM | 1.72 | IN    | 23.33 |
| WTR YR 1976 | TOTAL | 140769 | MEAN | 385  | MAX   | 3850  | MIN   | 50    | CFSM | 2.25 | IN    | 30.62 |



## 01057000 LITTLE ANDROSCOGGIN RIVER NEAR SOUTH PARIS, ME

LOCATION.--Lat 44°17'08", long 70°32'16", Oxford County, Hydrologic Unit 01040002, on right bank 30 ft (9 m) upstream from Biscoe Falls and 5 mi (8 km) upstream from South Paris.

DRAINAGE AREA.--76.2 mi<sup>2</sup> (197 km<sup>2</sup>).

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

REVISED RECORDS.--WSP 726: Drainage area. WSP 1301: 1915-23(M).

GAGE.--Water-stage recorder and concrete control. Datum of gage is 394.48 ft (120.238 m) above mean sea level. Prior to Apr. 30, 1924, nonrecording gage at same site and datum.

REMARKS.--Records good.

AVERAGE DISCHARGE.--55 years (water years 1914-23, 1932-76), 139 ft<sup>3</sup>/s (3.936 m<sup>3</sup>/s), 24.77 in/yr (629 mm/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 8,000 ft<sup>3</sup>/s (227 m<sup>3</sup>/s) Mar. 27, 1953, gage height, 12.41 ft (3.783 m), from rating curve extended above 2,800 ft<sup>3</sup>/s (79.3 m<sup>3</sup>/s), verified by computation of flow over dam at South Paris; minimum, 1 ft<sup>3</sup>/s (0.028 m<sup>3</sup>/s) Aug. 16, 1914, Feb. 22 to Mar. 5, 1920.

EXTREMES FOR CURRENT YEAR.--Peak discharges above base of 1,000 ft<sup>3</sup>/s (28.32 m<sup>3</sup>/s) and maximums (\*):

| Date    | Time | Discharge<br>(ft <sup>3</sup> /s) (m <sup>3</sup> /s) | Gage height<br>(ft) (m) | Date   | Time | Discharge<br>(ft <sup>3</sup> /s) (m <sup>3</sup> /s) | Gage height<br>(ft) (m) |
|---------|------|-------------------------------------------------------|-------------------------|--------|------|-------------------------------------------------------|-------------------------|
| Mar. 29 | 0100 | 1,510 42.8                                            | 6.56 1.999              | Apr. 2 | 0700 | *2,880 81.6                                           | *8.24 2.512             |

Minimum discharge, 20 ft<sup>3</sup>/s (0.57 m<sup>3</sup>/s) Sept. 25, 26, gage height, 1.98 ft (0.604 m).

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976  
MEAN VALUES

| DAY   | OCT  | NOV  | DEC  | JAN  | FEB  | MAR  | APR   | MAY  | JUN  | JUL  | AUG  | SEP  |
|-------|------|------|------|------|------|------|-------|------|------|------|------|------|
| 1     | 78   | 75   | 188  | 78   | 235  | 159  | 970   | 150  | 96   | 263  | 323  | 46   |
| 2     | 62   | 70   | 264  | 75   | 383  | 141  | 2480  | 518  | 84   | 198  | 333  | 117  |
| 3     | 51   | 67   | 220  | 72   | 552  | 129  | 1560  | 459  | 73   | 106  | 200  | 86   |
| 4     | 42   | 65   | 165  | 70   | 419  | 125  | 1090  | 493  | 67   | 81   | 134  | 62   |
| 5     | 37   | 61   | 120  | 68   | 317  | 127  | 773   | 318  | 62   | 63   | 98   | 55   |
| 6     | 34   | 57   | 115  | 65   | 264  | 174  | 622   | 271  | 57   | 49   | 76   | 47   |
| 7     | 31   | 52   | 120  | 62   | 220  | 174  | 600   | 268  | 55   | 40   | 63   | 40   |
| 8     | 28   | 57   | 100  | 60   | 194  | 151  | 520   | 306  | 66   | 77   | 67   | 35   |
| 9     | 26   | 87   | 85   | 58   | 165  | 129  | 438   | 244  | 55   | 234  | 91   | 32   |
| 10    | 23   | 83   | 123  | 57   | 148  | 123  | 388   | 202  | 41   | 108  | 441  | 30   |
| 11    | 22   | 194  | 206  | 55   | 139  | 115  | 376   | 177  | 32   | 78   | 617  | 86   |
| 12    | 75   | 150  | 155  | 54   | 122  | 107  | 310   | 462  | 33   | 177  | 308  | 81   |
| 13    | 161  | 370  | 120  | 53   | 116  | 107  | 268   | 715  | 30   | 138  | 188  | 56   |
| 14    | 103  | 647  | 103  | 52   | 112  | 110  | 268   | 388  | 28   | 199  | 143  | 44   |
| 15    | 73   | 521  | 104  | 51   | 100  | 106  | 280   | 283  | 27   | 103  | 163  | 37   |
| 16    | 70   | 303  | 112  | 50   | 106  | 97   | 306   | 223  | 26   | 111  | 678  | 35   |
| 17    | 69   | 220  | 91   | 50   | 102  | 94   | 372   | 183  | 30   | 92   | 420  | 34   |
| 18    | 167  | 176  | 85   | 49   | 100  | 103  | 346   | 187  | 36   | 83   | 243  | 35   |
| 19    | 259  | 148  | 63   | 49   | 112  | 88   | 283   | 500  | 32   | 64   | 169  | 37   |
| 20    | 347  | 128  | 53   | 48   | 134  | 100  | 222   | 747  | 30   | 72   | 126  | 34   |
| 21    | 483  | 145  | 53   | 48   | 117  | 178  | 182   | 545  | 29   | 66   | 99   | 30   |
| 22    | 284  | 611  | 58   | 47   | 129  | 333  | 196   | 438  | 100  | 49   | 80   | 27   |
| 23    | 206  | 376  | 66   | 47   | 179  | 303  | 338   | 327  | 62   | 36   | 66   | 27   |
| 24    | 155  | 259  | 61   | 47   | 163  | 259  | 254   | 258  | 44   | 185  | 55   | 23   |
| 25    | 129  | 214  | 59   | 49   | 144  | 310  | 226   | 217  | 56   | 270  | 47   | 21   |
| 26    | 152  | 180  | 65   | 53   | 139  | 399  | 238   | 192  | 125  | 134  | 41   | 21   |
| 27    | 131  | 161  | 109  | 107  | 157  | 545  | 256   | 170  | 100  | 102  | 42   | 122  |
| 28    | 104  | 155  | 116  | 450  | 194  | 1110 | 225   | 148  | 80   | 130  | 49   | 98   |
| 29    | 93   | 142  | 100  | 506  | 172  | 1250 | 192   | 126  | 71   | 84   | 56   | 64   |
| 30    | 92   | 128  | 88   | 387  | ---  | 1000 | 167   | 109  | 73   | 78   | 95   | 50   |
| 31    | 85   | ---  | 82   | 284  | ---  | 924  | ---   | 96   | ---  | 302  | 60   | ---  |
| TOTAL | 3672 | 5902 | 3449 | 3201 | 5434 | 9070 | 14746 | 9720 | 1700 | 3772 | 5571 | 1512 |
| MEAN  | 118  | 197  | 111  | 103  | 187  | 293  | 492   | 314  | 56.7 | 122  | 180  | 50.4 |
| MAX   | 483  | 647  | 264  | 506  | 552  | 1250 | 2480  | 747  | 125  | 302  | 678  | 122  |
| MIN   | 22   | 52   | 53   | 47   | 100  | 88   | 167   | 96   | 26   | 36   | 41   | 21   |
| CFSM  | 1.55 | 2.59 | 1.46 | 1.35 | 2.45 | 3.85 | 6.46  | 4.12 | .74  | 1.60 | 2.36 | .66  |
| IN.   | 1.79 | 2.88 | 1.68 | 1.56 | 2.65 | 4.43 | 7.20  | 4.75 | .83  | 1.84 | 2.72 | .74  |

| CAL YR 1975 | TOTAL | 48584.5 | MEAN 133 | MAX 1150 | MIN 4.5 | CFSM 1.75 | IN 23.72 |
|-------------|-------|---------|----------|----------|---------|-----------|----------|
| WTR YR 1976 | TOTAL | 67749.0 | MEAN 185 | MAX 2480 | MIN 21  | CFSM 2.43 | IN 33.07 |

## ANDROSCOGGIN RIVER BASIN

01058005 THOMPSON LAKE OUTLET AT OXFORD, ME

LOCATION.--Lat 44°08'07", long 70°29'28", Oxford County, Hydrologic Unit 01040002, on left bank about 50 ft (15.2 m) upstream from bridge on State Highway 121, at Oxford, Maine.

DRAINAGE.--47.3 mi<sup>2</sup> (123 km<sup>2</sup>).

PERIOD OF RECORD.--June 19, 1975 to current year (seasonal records only).

GAGE.--Water-stage recorder. Altitude of gage is 320 ft (97.5 m) from topographic map.

REMARKS.--Records fair.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 305 ft<sup>3</sup>/s (8.64 m<sup>3</sup>/s) Apr. 3, 1976, gage height, 11.14 ft (3.395 m); minimum, 16 ft<sup>3</sup>/s (0.453 m<sup>3</sup>/s) Aug. 29, 1976, gage height, 8.13 ft (2.478 m).

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 305 ft<sup>3</sup>/s (8.64 m<sup>3</sup>/s) Apr. 3, gage height, 11.14 ft (3.395 m); minimum, 16 ft<sup>3</sup>/s (0.453 m<sup>3</sup>/s) Aug. 29, gage height, 8.13 ft (2.478 m).

## DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

| DAY   | OCT  | NOV   | DEC | JAN | FEB   | MAR  | APR   | MAY  | JUN   | JUL  | AUG  | SEP   |
|-------|------|-------|-----|-----|-------|------|-------|------|-------|------|------|-------|
| 1     | 159  | 132   | 152 |     |       | 206  | 226   | 52   | 62    | 22   | 23   | 28    |
| 2     | 156  | 125   | 150 |     |       | 204  | 280   | 60   | 22    | 22   | 23   | 35    |
| 3     | 147  | 121   | 146 |     |       | 200  | 294   | 94   | 21    | 22   | 23   | 34    |
| 4     | 137  | 115   | 143 |     |       | 194  | 292   | 117  | 21    | 22   | 24   | 35    |
| 5     | 134  | 114   | 140 |     |       | 193  | 288   | 118  | 21    | 21   | 23   | 33    |
| 6     | 127  | 110   | 135 |     |       | 188  | 281   | 114  | 21    | 21   | 23   | 31    |
| 7     | 119  | 109   | 132 |     |       | 183  | 245   | 148  | 21    | 21   | 23   | 55    |
| 8     | 96   | 108   | 130 |     |       | 83   | 102   | 167  | 21    | 22   | 22   | 65    |
| 9     | 69   | 120   | 110 |     |       | 54   | 39    | 164  | 21    | 24   | 25   | 64    |
| 10    | 68   | 140   | 86  |     |       | 54   | 39    | 162  | 21    | 24   | 112  | 63    |
| 11    | 68   | 150   | 87  |     |       | 54   | 40    | 159  | 22    | 24   | 111  | 62    |
| 12    | 70   | 145   | 87  |     |       | 54   | 41    | 157  | 20    | 24   | 111  | 60    |
| 13    | 70   | 144   | 87  |     | 145   | 55   | 42    | 159  | 20    | 24   | 110  | 60    |
| 14    | 68   | 142   | 87  |     | 144   | 57   | 43    | 156  | 20    | 24   | 110  | 59    |
| 15    | 61   | 138   | 87  |     | 142   | 57   | 44    | 155  | 20    | 23   | 110  | 57    |
| 16    | 60   | 135   | 85  |     | 141   | 58   | 46    | 155  | 20    | 22   | 110  | 56    |
| 17    | 60   | 132   | 85  |     | 95    | 60   | 46    | 154  | 20    | 21   | 109  | 56    |
| 18    | 65   | 130   | 85  |     | 87    | 60   | 46    | 151  | 21    | 20   | 109  | 54    |
| 19    | 63   | 130   | 84  |     | 102   | 62   | 47    | 155  | 18    | 21   | 109  | 54    |
| 20    | 69   | 163   |     |     | 101   | 62   | 47    | 158  | 18    | 21   | 105  | 53    |
| 21    | 93   | 168   |     |     | 100   | 65   | 46    | 160  | 19    | 20   | 103  | 30    |
| 22    | 119  | 167   |     |     | 102   | 69   | 47    | 163  | 19    | 19   | 99   | 18    |
| 23    | 115  | 166   |     |     | 103   | 71   | 48    | 161  | 19    | 19   | 96   | 17    |
| 24    | 113  | 164   |     |     | 103   | 73   | 48    | 157  | 19    | 20   | 94   | 17    |
| 25    | 110  | 164   |     |     | 69    | 77   | 48    | 155  | 20    | 19   | 90   | 17    |
| 26    | 109  | 161   |     |     | 38    | 83   | 49    | 154  | 21    | 19   | 85   | 17    |
| 27    | 82   | 158   |     |     | 98    | 93   | 50    | 150  | 21    | 20   | 83   | 69    |
| 28    | 160  | 156   |     |     | 200   | 109  | 52    | 145  | 21    | 19   | 40   | 69    |
| 29    | 159  | 154   |     |     | 210   | 156  | 52    | 142  | 21    | 20   | 17   | 69    |
| 30    | 157  | 153   |     |     | ----- | 185  | 52    | 136  | 21    | 20   | 18   | 69    |
| 31    | 140  | ----- |     |     | ----- | 192  | ----- | 133  | ----- | 21   | 17   | ----- |
| TOTAL | 3223 | 4214  |     |     |       | 3311 | 3020  | 4411 | 652   | 661  | 2157 | 1406  |
| MEAN  | 104  | 140   |     |     |       | 107  | 101   | 142  | 21.7  | 21.3 | 69.6 | 46.9  |
| MAX   | 160  | 168   |     |     |       | 206  | 294   | 167  | 62    | 24   | 112  | 69    |
| MIN   | 60   | 108   |     |     |       | 54   | 39    | 52   | 18    | 19   | 17   | 17    |
| CFSM  | 2.18 | 2.95  |     |     |       | 2.24 | 2.11  | 2.99 | .46   | .45  | 1.46 | .98   |
| IN.   | 2.52 | 3.29  |     |     |       | 2.59 | 2.36  | 3.45 | .51   | .52  | 1.69 | 1.10  |

## 01058500 LITTLE ANDROSCOGGIN RIVER NEAR AUBURN, ME

LOCATION.--Lat 44°03'49", long 70°16'28", Androscoggin County, Hydrologic Unit 01040002, on right bank 100 ft (30 m) upstream from highway bridge at Littlefields, 3 mi (5 km) southwest of Auburn, and 4.6 mi (3.4 km) upstream from mouth.

DRAINAGE AREA.--328 mi<sup>2</sup> (850 km<sup>2</sup>).

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

GAGE.--Water-stage recorder. Altitude of gage is 215 ft (65.5 m), from topographic map.

REMARKS.--Records good except those for winter period, which are fair. Flow regulated by Thompson Lake (Reservoirs in Androscoggin River basin) and several powerplants above station.

AVERAGE DISCHARGE.--36 years, 571 ft<sup>3</sup>/s (16.17 m<sup>3</sup>/s).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 16,500 ft<sup>3</sup>/s (467 m<sup>3</sup>/s) Mar. 28, 1953, gage height, 14.76 ft (4.499 m); minimum daily, 14 ft<sup>3</sup>/s (0.40 m<sup>3</sup>/s) Oct. 14, 1949.

EXTREMES OUTSIDE PERIOD OF RECORD.--Maximum discharge known, 16,800 ft<sup>3</sup>/s (476 m<sup>3</sup>/s) Mar. 20, 1936, at mouth of river.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 5,930 ft<sup>3</sup>/s (168 m<sup>3</sup>/s) Apr. 3, gage height, 8.82 ft (2.688 m); minimum daily, 100 ft<sup>3</sup>/s (2.83 m<sup>3</sup>/s) Sept. 26.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976  
MEAN VALUES

| DAY         | OCT   | NOV    | DEC      | JAN      | FEB     | MAR   | APR   | MAY   | JUN  | JUL   | AUG   | SEP  |
|-------------|-------|--------|----------|----------|---------|-------|-------|-------|------|-------|-------|------|
| 1           | 388   | 338    | 722      | 425      | 1210    | 840   | 3490  | 650   | 546  | 445   | 556   | 219  |
| 2           | 374   | 310    | 901      | 405      | 1380    | 740   | 4840  | 863   | 429  | 614   | 855   | 222  |
| 3           | 333   | 273    | 977      | 385      | 1670    | 695   | 5740  | 1140  | 398  | 612   | 868   | 238  |
| 4           | 293   | 245    | 873      | 370      | 1900    | 660   | 5060  | 1310  | 392  | 502   | 701   | 267  |
| 5           | 253   | 213    | 699      | 350      | 1710    | 640   | 3920  | 1310  | 320  | 368   | 518   | 240  |
| 6           | 264   | 188    | 606      | 340      | 1390    | 720   | 3130  | 1150  | 282  | 300   | 408   | 214  |
| 7           | 250   | 201    | 549      | 330      | 1180    | 760   | 2600  | 1020  | 272  | 249   | 340   | 192  |
| 8           | 219   | 187    | 495      | 320      | 1000    | 700   | 2240  | 993   | 253  | 201   | 303   | 185  |
| 9           | 177   | 219    | 459      | 310      | 870     | 630   | 1860  | 983   | 227  | 193   | 293   | 189  |
| 10          | 149   | 264    | 585      | 305      | 780     | 600   | 1590  | 917   | 195  | 299   | 912   | 201  |
| 11          | 142   | 500    | 793      | 300      | 700     | 553   | 1430  | 818   | 190  | 284   | 1270  | 192  |
| 12          | 178   | 614    | 830      | 295      | 640     | 515   | 1290  | 844   | 158  | 247   | 1310  | 238  |
| 13          | 247   | 855    | 727      | 290      | 580     | 507   | 1140  | 1120  | 164  | 414   | 1050  | 301  |
| 14          | 314   | 1380   | 621      | 280      | 550     | 529   | 1030  | 1360  | 169  | 578   | 852   | 280  |
| 15          | 332   | 1610   | 571      | 280      | 520     | 531   | 982   | 1250  | 145  | 533   | 823   | 247  |
| 16          | 287   | 1520   | 562      | 275      | 510     | 503   | 950   | 1090  | 141  | 427   | 1310  | 196  |
| 17          | 238   | 1250   | 500      | 270      | 500     | 459   | 940   | 956   | 120  | 347   | 1780  | 186  |
| 18          | 358   | 1030   | 464      | 270      | 490     | 500   | 960   | 831   | 140  | 317   | 1590  | 181  |
| 19          | 578   | 848    | 456      | 265      | 550     | 506   | 923   | 1100  | 146  | 265   | 1230  | 164  |
| 20          | 761   | 726    | 385      | 260      | 590     | 460   | 846   | 1560  | 111  | 230   | 978   | 167  |
| 21          | 1060  | 709    | 367      | 285      | 570     | 608   | 774   | 1800  | 145  | 212   | 775   | 183  |
| 22          | 1110  | 1080   | 372      | 362      | 599     | 1020  | 736   | 1840  | 186  | 185   | 611   | 170  |
| 23          | 916   | 1340   | 378      | 381      | 724     | 1120  | 811   | 1610  | 301  | 166   | 518   | 149  |
| 24          | 739   | 1280   | 371      | 386      | 740     | 1170  | 888   | 1380  | 275  | 210   | 444   | 121  |
| 25          | 606   | 1100   | 361      | 358      | 660     | 1280  | 835   | 1140  | 255  | 383   | 386   | 115  |
| 26          | 541   | 926    | 374      | 345      | 640     | 1450  | 789   | 984   | 347  | 518   | 342   | 100  |
| 27          | 539   | 809    | 473      | 421      | 650     | 1720  | 777   | 873   | 396  | 446   | 326   | 113  |
| 28          | 534   | 726    | 529      | 840      | 730     | 2360  | 759   | 789   | 358  | 371   | 302   | 200  |
| 29          | 489   | 683    | 523      | 1280     | 780     | 2890  | 722   | 708   | 297  | 322   | 262   | 335  |
| 30          | 463   | 651    | 485      | 1460     | ---     | 3410  | 691   | 633   | 291  | 252   | 251   | 322  |
| 31          | 387   | ---    | 450      | 1400     | ---     | 3370  | ---   | 576   | ---  | 308   | 240   | ---  |
| TOTAL       | 13519 | 22075  | 17458    | 13843    | 24813   | 32446 | 52743 | 33598 | 7649 | 10798 | 22404 | 6127 |
| MEAN        | 436   | 736    | 563      | 447      | 856     | 1047  | 1758  | 1084  | 255  | 348   | 723   | 204  |
| MAX         | 1110  | 1610   | 977      | 1460     | 1900    | 3410  | 5740  | 1840  | 546  | 614   | 1780  | 335  |
| MIN         | 142   | 187    | 361      | 260      | 490     | 459   | 691   | 576   | 111  | 166   | 240   | 100  |
| CAL YR 1975 | TOTAL | 200908 | MEAN 550 | MAX 2760 | MIN 66  |       |       |       |      |       |       |      |
| WTR YR 1976 | TOTAL | 257473 | MEAN 703 | MAX 5740 | MIN 100 |       |       |       |      |       |       |      |

## ANDROSCOGGIN RIVER BASIN

01059000 ANDROSCOGGIN RIVER NEAR AUBURN, ME

LOCATION.--Lat 44°04'20", long 70°12'31", Androscoggin County, Hydrologic Unit 01040002, on right bank 1.5 mi (2.4 km) downstream from Little Androscoggin River and 2.1 mi (3.4 km) downstream from north bridge between Auburn and Lewiston.

DRAINAGE AREA.--3,257 mi<sup>2</sup> (8,436 km<sup>2</sup>).

PERIOD OF RECORD.--October 1928 to current year. Monthly discharge only for October 1928, published in WSP 1301.

REVISED RECORDS.--WSP 781: 1930, 1933-34. WSP 1301: 1932-36.

GAGE.--Water-stage recorder. Datum of gage is 109.18 ft (33.278 m) above mean sea level.

REMARKS.--Records good. Considerable diurnal fluctuation and some regulation by powerplants above station. Flow regulation by Rangeley, Mooselookmeguntic, Richardson, Umbagog, Aziscohos, Auburn, and Thompson Lakes, and Gulf Island Pond (Reservoirs in Androscoggin River basin) with major regulation at Errol Dam 136 mi (219 km) upstream.

AVERAGE DISCHARGE.--48 years, 6,130 ft<sup>3</sup>/s (173.6 m<sup>3</sup>/s).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 135,000 ft<sup>3</sup>/s (3,820 m<sup>3</sup>/s) Mar. 20, 1936, gage height, 27.57 ft (8.403 m), from rating curve extended above 76,000 ft<sup>3</sup>/s (2,150 m<sup>3</sup>/s) on basis of slope-area measurement of peak flow and computation of flow over dam; minimum daily, 340 ft<sup>3</sup>/s (9.63 m<sup>3</sup>/s) Sept. 28, 1941.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 47,700 ft<sup>3</sup>/s (1,350 m<sup>3</sup>/s) Apr. 3, gage height, 14.12 ft (4.304 m); minimum daily, 813 ft<sup>3</sup>/s (23.0 m<sup>3</sup>/s) Oct. 5.

DISCHARGE. IN CUBIC FEET PER SECOND. WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976  
MEAN VALUES

| DAY               | OCT     | NOV    | DEC    | JAN       | FEB       | MAR     | APR    | MAY    | JUN    | JUL    | AUG    | SEP    |
|-------------------|---------|--------|--------|-----------|-----------|---------|--------|--------|--------|--------|--------|--------|
| 1                 | 4630    | 3870   | 5890   | 3910      | 7960      | 6440    | 26100  | 11500  | 6280   | 5990   | 6370   | 5160   |
| 2                 | 4890    | 2540   | 7770   | 4840      | 8760      | 6170    | 41700  | 12900  | 6140   | 6280   | 8350   | 5000   |
| 3                 | 3920    | 4470   | 8050   | 4300      | 10800     | 5970    | 44700  | 17200  | 6080   | 6690   | 8860   | 5090   |
| 4                 | 2280    | 4950   | 6940   | 3470      | 11600     | 6080    | 35700  | 16500  | 5850   | 6620   | 7220   | 5170   |
| 5                 | 813     | 4950   | 6160   | 4440      | 9840      | 6070    | 30400  | 15400  | 4100   | 1890   | 5510   | 3100   |
| 6                 | 2900    | 4910   | 5370   | 4840      | 8830      | 6050    | 24900  | 13700  | 3440   | 3650   | 5100   | 2400   |
| 7                 | 2910    | 4090   | 4050   | 4680      | 8220      | 6590    | 21200  | 12500  | 4790   | 4020   | 5130   | 4090   |
| 8                 | 2890    | 2680   | 4730   | 4620      | 7340      | 7720    | 19400  | 13100  | 5070   | 4260   | 2940   | 4640   |
| 9                 | 3360    | 2100   | 4680   | 4520      | 6230      | 6540    | 17900  | 13900  | 3890   | 4970   | 4590   | 4490   |
| 10                | 3540    | 2860   | 6030   | 3250      | 6430      | 6060    | 16500  | 12200  | 4430   | 3570   | 7930   | 4270   |
| 11                | 2880    | 5280   | 6480   | 2570      | 6480      | 6070    | 15600  | 11100  | 5060   | 2070   | 19100  | 4110   |
| 12                | 933     | 6190   | 6250   | 3870      | 6370      | 6180    | 14600  | 10400  | 4820   | 4440   | 14900  | 1920   |
| 13                | 4670    | 7060   | 6570   | 4320      | 6150      | 5970    | 12800  | 18100  | 1430   | 5220   | 9420   | 6570   |
| 14                | 6030    | 12100  | 4350   | 4420      | 5810      | 3940    | 12000  | 18600  | 3850   | 5980   | 7580   | 4870   |
| 15                | 5610    | 17400  | 4810   | 4420      | 3960      | 5040    | 11900  | 15500  | 4570   | 5900   | 6800   | 4070   |
| 16                | 5550    | 12700  | 5370   | 4080      | 5190      | 5620    | 12300  | 14300  | 3710   | 5390   | 10800  | 4330   |
| 17                | 4840    | 9060   | 5510   | 3020      | 5320      | 5530    | 16200  | 13400  | 3380   | 4920   | 14800  | 4850   |
| 18                | 5070    | 7740   | 5400   | 2500      | 5200      | 5540    | 19500  | 12900  | 3960   | 2490   | 10500  | 4960   |
| 19                | 5900    | 7060   | 5320   | 3690      | 5590      | 5550    | 21700  | 14300  | 3490   | 4080   | 8260   | 1280   |
| 20                | 8890    | 6130   | 4400   | 3980      | 5500      | 3890    | 20900  | 24300  | 2020   | 4800   | 7680   | 3710   |
| 21                | 14100   | 6530   | 3230   | 3850      | 4340      | 4400    | 18400  | 24000  | 2920   | 4670   | 7080   | 4120   |
| 22                | 13400   | 8280   | 4140   | 3850      | 3420      | 7730    | 15400  | 20600  | 4250   | 3860   | 3460   | 4280   |
| 23                | 9110    | 10800  | 4690   | 4560      | 5560      | 12500   | 15700  | 18400  | 4480   | 3320   | 4910   | 4370   |
| 24                | 7040    | 8950   | 3910   | 3420      | 6460      | 11400   | 16200  | 16500  | 4510   | 2490   | 4240   | 3720   |
| 25                | 5840    | 7900   | 2080   | 2630      | 7080      | 11300   | 15200  | 15000  | 5410   | 3790   | 4650   | 2890   |
| 26                | 5260    | 6700   | 3700   | 3730      | 6960      | 12800   | 13700  | 13500  | 3980   | 5400   | 4020   | 1120   |
| 27                | 5290    | 6560   | 3110   | 4400      | 6680      | 15100   | 13900  | 12400  | 4250   | 5240   | 4620   | 3730   |
| 28                | 5190    | 6080   | 3520   | 7100      | 5810      | 20400   | 13800  | 10400  | 4530   | 5140   | 4640   | 4800   |
| 29                | 5000    | 5930   | 4800   | 8060      | 6470      | 28400   | 13600  | 8700   | 5480   | 4860   | 2510   | 6270   |
| 30                | 5260    | 5400   | 5520   | 10700     | ---       | 27200   | 12300  | 8580   | 5490   | 5380   | 4670   | 5670   |
| 31                | 4380    | ---    | 5370   | 8810      | ---       | 25700   | ---    | 7440   | ---    | 5480   | 6090   | ---    |
| TOTAL             | 162376  | 201270 | 158200 | 140850    | 194360    | 293950  | 584200 | 447320 | 131660 | 142860 | 222730 | 125050 |
| MEAN              | 5238    | 6709   | 5103   | 4544      | 6702      | 9482    | 19470  | 14430  | 4389   | 4608   | 7185   | 4168   |
| MAX               | 14100   | 17400  | 8050   | 10700     | 11600     | 28400   | 44700  | 24300  | 6280   | 6690   | 19100  | 6570   |
| MIN               | 813     | 2100   | 2080   | 2500      | 3420      | 3890    | 11900  | 7440   | 1430   | 1890   | 2510   | 1120   |
| CAL YR 1975 TOTAL | 2128387 |        |        | MEAN 5831 | MAX 25700 | MIN 711 |        |        |        |        |        |        |
| WTR YR 1976 TOTAL | 2804826 |        |        | MEAN 7663 | MAX 44700 | MIN 813 |        |        |        |        |        |        |

## ANDROSCOGGIN RIVER BASIN

149

01059160 SABATTUS RIVER NEAR LISBON CENTER, ME

LOCATION.--Lat 44°01'13", long 70°05'27", Androscoggin County, Hydrologic Unit 01040002, on left bank about 600 ft (183 m) downstream from Mill Street Bridge, near Lisbon Center, Maine.

DRAINAGE AREA.--72.3 mi<sup>2</sup> (187 km<sup>2</sup>).

PERIOD OF RECORD.--June 20, 1975 to current year (seasonal records only).

GAGE.--Water-stage recorder. Altitude of gage is 140 ft (42.7 m) from topographic map.

REMARKS.--Records fair.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 5,400 ft<sup>3</sup>/s (153 m<sup>3</sup>/s) Apr. 2, 1976, gage height, 3.65 ft (2.637 m); minimum, 22 ft<sup>3</sup>/s (0.623 m<sup>3</sup>/s) Aug. 24, 28, 1975, gage height, 3.64 ft (1.110 m).

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 5,400 ft<sup>3</sup>/s (153 m<sup>3</sup>/s) Apr. 2, gage height, 865 ft (2.637 m); minimum, 24 ft (0.680 m<sup>3</sup>/s) June 13, gage height, 3.70 ft (1.128 m).

## DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

| DAY   | OCT  | NOV   | DEC | JAN | FEB   | MAR  | APR   | MAY  | JUN   | JUL  | AUG  | SEP   |
|-------|------|-------|-----|-----|-------|------|-------|------|-------|------|------|-------|
| 1     | 140  | 104   | 323 |     |       |      | 1320  | 195  | 52    | 43   | 180  | 46    |
| 2     | 134  | 98    | 271 |     |       |      | 3380  | 132  | 48    | 46   | 277  | 46    |
| 3     | 128  | 91    | 193 |     |       |      | 890   | 109  | 43    | 40   | 113  | 45    |
| 4     | 122  | 96    | 158 |     |       |      | 610   | 77   | 40    | 37   | 67   | 43    |
| 5     | 117  | 113   | 128 |     |       |      | 456   | 64   | 38    | 36   | 51   | 42    |
| 6     | 113  | 113   | 132 |     |       |      | 382   | 69   | 36    | 33   | 45   | 42    |
| 7     | 103  | 101   | 128 |     |       |      | 260   | 99   | 35    | 33   | 43   | 41    |
| 8     | 104  | 104   | 111 |     |       |      | 193   | 70   | 35    | 37   | 43   | 40    |
| 9     | 99   | 120   |     |     |       |      | 178   | 59   | 34    | 90   | 84   | 39    |
| 10    | 96   | 130   |     |     |       |      | 163   | 50   | 32    | 51   | 1640 | 39    |
| 11    | 93   | 315   |     |     |       |      | 99    | 84   | 32    | 40   | 430  | 41    |
| 12    | 113  | 170   |     |     |       |      | 78    | 150  | 48    | 52   | 136  | 41    |
| 13    | 128  | 520   |     |     |       |      | 77    | 100  | 32    | 118  | 101  | 39    |
| 14    | 108  | 624   |     |     |       |      | 74    | 72   | 30    | 68   | 101  | 39    |
| 15    | 96   | 294   |     |     |       |      | 70    | 62   | 31    | 52   | 176  | 39    |
| 16    | 94   | 214   |     |     |       |      | 68    | 51   | 30    | 44   | 220  | 39    |
| 17    | 91   | 182   |     |     |       |      | 64    | 48   | 29    | 43   | 126  | 39    |
| 18    | 178  | 170   |     |     |       |      | 60    | 105  | 30    | 47   | 91   | 42    |
| 19    | 244  | 156   |     |     |       |      | 57    | 581  | 30    | 41   | 77   | 41    |
| 20    | 243  | 142   |     |     |       |      | 51    | 425  | 30    | 38   | 68   | 43    |
| 21    | 265  | 180   |     |     |       |      | 52    | 235  | 34    | 37   | 62   | 81    |
| 22    | 149  | 536   |     |     |       |      | 72    | 226  | 36    | 36   | 58   | 199   |
| 23    | 122  | 256   |     |     |       |      | 64    | 134  | 34    | 33   | 54   | 199   |
| 24    | 113  | 196   |     |     |       |      | 54    | 98   | 31    | 93   | 50   | 193   |
| 25    | 108  | 185   |     |     |       |      | 66    | 82   | 43    | 140  | 48   | 185   |
| 26    | 132  | 170   |     |     |       |      | 78    | 74   | 64    | 60   | 47   | 182   |
| 27    | 117  | 170   |     |     |       | 760  | 66    | 68   | 46    | 48   | 48   | 223   |
| 28    | 102  | 202   |     |     |       | 1380 | 56    | 61   | 40    | 50   | 50   | 205   |
| 29    | 98   | 178   |     |     |       | 1080 | 51    | 54   | 37    | 43   | 50   | 185   |
| 30    | 134  | 170   |     |     | ----- | 854  | 48    | 50   | 36    | 43   | 54   | 175   |
| 31    | 120  | ----- |     |     | ----- | 645  | ----- | 47   | ----- | 93   | 48   | ----- |
| TOTAL | 4009 | 6100  |     |     |       |      | 9137  | 3731 | 1116  | 1665 | 4638 | 2653  |
| MEAN  | 129  | 203   |     |     |       |      | 305   | 120  | 37    | 54   | 150  | 88    |
| MAX   | 265  | 624   |     |     |       |      | 3380  | 581  | 64    | 140  | 1640 | 223   |
| MIN   | 91   | 91    |     |     |       |      | 48    | 47   | 29    | 33   | 43   | 39    |
| CFSM  | 1.78 | 2.81  |     |     |       |      | 4.22  | 1.66 | .51   | .75  | 2.07 | 1.22  |
| IN.   | 2.06 | 3.14  |     |     |       |      | 4.70  | 1.92 | .57   | .86  | 2.39 | 1.37  |

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

LOCATION.--Lat 43°55'03", long 69°58'25", Cumberland County, Hydrologic Unit 01060001, on right bank at cable suspended footbridge, 530 ft (161 m), downstream from railroad bridge at Brunswick.

DRAINAGE AREA. -- 3,410 mi<sup>2</sup> (8,832 km<sup>2</sup>).

PERIOD OF RECORD.--Current year.

PERIOD OF DAILY RECORD. - -

SPECIFIC CONDUCTANCE: Current year.

WATER TEMPERATURES: Current year.

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

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

EXTREMES FOR CURRENT YEAR. - -

SPECIFIC CONDUCTANCE: Maximum, 180 micromhos Jan. 28; minimum, 36 micromhos Apr. 4.

WATER TEMPERATURES: Maximum, 25.5°C June 23, 24; minimum, 0.0°C on many days during winter periods.

## CHEMICAL ANALYSES, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

| DATE      | TIME | INSTANTANEOUS DIS-CHARGE (CFS) | SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS) | PH (UNITS) | TEMPER-ATURE (DEG C) | TUR-BID-ITY (JTU) | DIS-SOLVED OXYGEN (MG/L) | PER-CENT SATUR-ATION | FECAL COLI-FORM (COL. PER 100 ML) | STREP-TOCOCCI (COL-ONIES PER 100 ML) | HARD-NESS (CA.MG/L) | NON-CAR-BONATE HARD-NESS (MG/L) |
|-----------|------|--------------------------------|--------------------------------------|------------|----------------------|-------------------|--------------------------|----------------------|-----------------------------------|--------------------------------------|---------------------|---------------------------------|
| OCT 22... | 1400 | 4820                           | 70                                   | 6.5        | 10.0                 | --                | 11.2                     | 99                   | 8280                              | 867                                  | --                  | --                              |
| NOV 18... | 1430 | 8260                           | 65                                   | 6.6        | 6.0                  | 5                 | 12.6                     | 101                  | 370                               | 200                                  | 15                  | 6                               |
| DEC 24... | 1330 | 4700                           | 110                                  | 6.8        | .0                   | --                | 12.6                     | 86                   | 8200                              | 8130                                 | --                  | --                              |
| JAN 20... | 1400 | 4580                           | 120                                  | 6.8        | .0                   | --                | 13.6                     | 93                   | 850                               | 8130                                 | --                  | --                              |
| FEB 23... | 1400 | 5550                           | 125                                  | 6.8        | .0                   | 7                 | 13.6                     | 93                   | 8230                              | 8200                                 | 22                  | 8                               |
| MAR 29... | 1530 | 28200                          | 65                                   | 6.7        | 1.0                  | --                | 13.4                     | 94                   | 875                               | 550                                  | --                  | --                              |
| APR 29... | 1500 | 13700                          | 55                                   | 6.7        | 8.5                  | --                | 12.0                     | 102                  | 827                               | 840                                  | --                  | --                              |
| JUN 03... | 1630 | 6200                           | 68                                   | 6.8        | 17.5                 | 3                 | 8.2                      | 85                   | 875                               | 8100                                 | 20                  | 7                               |
| 30...     | 1500 | 5550                           | 115                                  | 6.7        | 22.5                 | --                | 7.9                      | 90                   | 270                               | 40                                   | --                  | --                              |
| AUG 04... | 1030 | 7530                           | 100                                  | 6.9        | 19.0                 | --                | 9.2                      | 98                   | 220                               | 8100                                 | --                  | --                              |
| 26...     | 1030 | 4400                           | 75                                   | 6.7        | 21.5                 | 2                 | 9.0                      | 101                  | 390                               | 240                                  | 15                  | 1                               |
| SEP 28... | 1700 | 3900                           | 125                                  | 6.9        | 16.5                 | --                | 9.2                      | 93                   | 1200                              | 270                                  | --                  | --                              |

[illegible]



CHEMICAL ANALYSES, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

[illegible]

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

[illegible]

01059400 ANDROSCOGGIN RIVER AT BRUNSWICK, ME--Continued

## QUALITATIVE AND ASSOCIATED QUANTITATIVE ANALYSES OF BIOLOGICAL DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

## PHYTOPLANKTON

| DATE   | TIME | ORGANISM            | COUNT<br>(CELLS/ML) | PERCENT<br>OF TOTAL | SAMPLING<br>METHOD |
|--------|------|---------------------|---------------------|---------------------|--------------------|
| Oct 28 | 1400 | CHLOROPHYTA         |                     |                     | DEPTH INTEGRATED   |
|        |      | ..CHLOROPHYCEAE     |                     |                     |                    |
|        |      | ...CHLOROCOCCALES   |                     |                     |                    |
|        |      | ...OCCYSTACEAE      |                     |                     |                    |
|        |      | ....NITZSCHIA       | 120                 |                     |                    |
|        |      | ...SCENEDESMUS      | 120                 |                     |                    |
|        |      | CHRYSOPHYTA         |                     |                     |                    |
|        |      | ..BACILLARIOPHYCEAE |                     |                     |                    |
|        |      | ..CENTRALES         |                     |                     |                    |
|        |      | ...COSCINODISCAEAE  |                     |                     |                    |
|        |      | ....CYCLOTELLA      | 45                  |                     |                    |
|        |      | ....MELOSIRA        | 30                  |                     |                    |
|        |      | ..PENNALES          |                     |                     |                    |
|        |      | ...ACHNANTHACEAE    |                     |                     |                    |
|        |      | ....ACHNANTHES      | 15                  |                     |                    |
|        |      | ...CYMBELLACEAE     |                     |                     |                    |
|        |      | ....CYMBELLA        | 30                  |                     |                    |
|        |      | ...FRAGILARIACEAE   |                     |                     |                    |
|        |      | ....ASTERIONELLA    | 15                  |                     |                    |
|        |      | ....FRAGILARIA      | 60                  |                     |                    |
|        |      | ...GOMPHONEMACEAE   |                     |                     |                    |
|        |      | ....GOMPHONEMA      | 30                  |                     |                    |
|        |      | ...NAVICULACEAE     |                     |                     |                    |
|        |      | ....NAVICULA        | 75                  |                     |                    |
|        |      | ...NITZSCHIAEAE     |                     |                     |                    |
|        |      | ....NITZSCHIA       | 90                  |                     |                    |
|        |      | ...TABELLARIACEAE   |                     |                     |                    |
|        |      | ....TABELLARIA      | 15                  |                     |                    |
|        |      | CYANOPHYTA          |                     |                     |                    |
|        |      | ..MYXOPHYCEAE       |                     |                     |                    |
|        |      | ...OSCILLATORIALES  |                     |                     |                    |
|        |      | ...OSCILLATORIAEAE  |                     |                     |                    |
|        |      | ....OSCILLATORIA    | 40000               | 98                  |                    |
|        |      | EUGLENOPHYTA        |                     |                     |                    |
|        |      | ..EUGLENOPHYCEAE    |                     |                     |                    |
|        |      | ...EUGLENALES       |                     |                     |                    |
|        |      | ...EUGLENACEAE      |                     |                     |                    |
|        |      | ....EUGLENA         | 15                  |                     |                    |
|        |      | TOTAL               | 41000               |                     |                    |
| Nov 18 | 1430 | CHRYSOPHYTA         |                     |                     | DEPTH INTEGRATED   |
|        |      | ..BACILLARIOPHYCEAE |                     |                     |                    |
|        |      | ..CENTRALES         |                     |                     |                    |
|        |      | ...COSCINODISCAEAE  |                     |                     |                    |
|        |      | ....MELOSIRA        |                     |                     |                    |
|        |      | ..PENNALES          |                     |                     |                    |
|        |      | ...ACHNANTHACEAE    |                     |                     |                    |
|        |      | ....ACHNANTHES      |                     |                     |                    |
|        |      | ...NAVICULACEAE     |                     |                     |                    |
|        |      | ....NAVICULA        |                     |                     |                    |
|        |      | ...NITZSCHIAEAE     |                     |                     |                    |
|        |      | ....NITZSCHIA       |                     |                     |                    |
|        |      | CYANOPHYTA          |                     |                     |                    |
|        |      | ..MYXOPHYCEAE       |                     |                     |                    |
|        |      | ...CHLOROCOCCALES   |                     |                     |                    |
|        |      | ...CHLOROCOCCACEAE  |                     |                     |                    |
|        |      | ....GOMPHOSPHERIA   |                     |                     |                    |
|        |      | ...OSCILLATORIALES  |                     |                     |                    |
|        |      | ...OSCILLATORIAEAE  |                     |                     |                    |
|        |      | ....OSCILLATORIA    | 730000              | 100                 |                    |
|        |      | TOTAL               | 730000              |                     |                    |
| Dec 24 | 1330 | CHLOROPHYTA         |                     |                     | DEPTH INTEGRATED   |
|        |      | ..CHLOROPHYCEAE     |                     |                     |                    |
|        |      | ...CHLOROCOCCALES   |                     |                     |                    |
|        |      | ...SCENEDESMUS      |                     |                     |                    |
|        |      | ...SCENEDESMUS      |                     |                     |                    |
|        |      | CHRYSOPHYTA         |                     |                     |                    |
|        |      | ..BACILLARIOPHYCEAE |                     |                     |                    |
|        |      | ..PENNALES          |                     |                     |                    |
|        |      | ...FRAGILARIACEAE   |                     |                     |                    |
|        |      | ....ASTERIONELLA    |                     |                     |                    |
|        |      | ...NITZSCHIAEAE     |                     |                     |                    |
|        |      | ....NITZSCHIA       |                     |                     |                    |
|        |      | ...TABELLARIACEAE   |                     |                     |                    |
|        |      | ....TABELLARIA      |                     |                     |                    |
|        |      | ..CHRYSOPHYCEAE     |                     |                     |                    |
|        |      | ...CHRYSONOMADALES  |                     |                     |                    |
|        |      | ...OCHROMONADACEAE  |                     |                     |                    |
|        |      | ....DINORRYON       |                     |                     |                    |
|        |      | CYANOPHYTA          |                     |                     |                    |
|        |      | ..MYXOPHYCEAE       |                     |                     |                    |
|        |      | ...OSCILLATORIALES  |                     |                     |                    |
|        |      | ...OSCILLATORIAEAE  |                     |                     |                    |
|        |      | ....OSCILLATORIA    | 76000               | 100                 |                    |
|        |      | TOTAL               | 76000               |                     |                    |



01059400 ANDROSCOGGIN RIVER AT BRUNSWICK, ME--Continued

## QUALITATIVE AND ASSOCIATED QUANTITATIVE ANALYSES OF BIOLOGICAL DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

## PHYTOPLANKTON

| DATE   | TIME | ORGANISM              | COUNT<br>(CELLS/ML) | PERCENT<br>OF TOTAL | SAMPLING<br>METHOD |
|--------|------|-----------------------|---------------------|---------------------|--------------------|
| Apr 29 | 1500 | CHLOROPHYTA           |                     |                     | DEPTH INTEGRATED   |
|        |      | ..CHLOROPHYCEAE       |                     |                     |                    |
|        |      | ...VOLVOCALES         |                     |                     |                    |
|        |      | ...CHLAMYDOMONADACEAE |                     |                     |                    |
|        |      | ....CHLAMYDOMONAS     | 8                   | 1                   |                    |
|        |      | CHRYSOPHYTA           |                     |                     |                    |
|        |      | ..BACILLARIOPHYCEAE   |                     |                     |                    |
|        |      | ...PENNALES           |                     |                     |                    |
|        |      | ...ACHNANTHACEAE      |                     |                     |                    |
|        |      | ....ACHNANTHES        | 17                  | 2                   |                    |
|        |      | ...EUNOTIACEAE        |                     |                     |                    |
|        |      | ....EUNOTIA           |                     |                     |                    |
|        |      | ...NAVICULACEAE       |                     |                     |                    |
|        |      | ....NAVICULA          |                     |                     |                    |
|        |      | ...TABELLARIACEAE     |                     |                     |                    |
|        |      | ....TABELLARIA        | 8                   | 1                   |                    |
|        |      | CYANOPHYTA            |                     |                     |                    |
|        |      | ..MYXOPHYCEAE         |                     |                     |                    |
|        |      | ...OSCILLATORIALES    |                     |                     |                    |
|        |      | ....OSCILLATORIA      | 42                  | 5                   |                    |
|        |      | ....LYNGBYA           | 820                 | 91                  |                    |
|        |      | TOTAL                 | 900                 |                     |                    |
| Jun 03 | 1630 | CHLOROPHYTA           |                     |                     | DEPTH INTEGRATED   |
|        |      | ..CHLOROPHYCEAE       |                     |                     |                    |
|        |      | ...CHLOROCOCCALES     |                     |                     |                    |
|        |      | ...OCCYSTACEAE        |                     |                     |                    |
|        |      | ....DICTYOSPHAERIUM   | 120                 | 7                   |                    |
|        |      | ....WESTELLA          | 44                  | 3                   |                    |
|        |      | ...SCENEDESMACEAE     |                     |                     |                    |
|        |      | ....CRUCIGENIA        | 120                 | 7                   |                    |
|        |      | CHRYSOPHYTA           |                     |                     |                    |
|        |      | ..BACILLARIOPHYCEAE   |                     |                     |                    |
|        |      | ...CENTRALES          |                     |                     |                    |
|        |      | ...COSCINODISCACEAE   |                     |                     |                    |
|        |      | ....MELOSIRA          | 59                  | 4                   |                    |
|        |      | ...PENNALES           |                     |                     |                    |
|        |      | ...CYMBELLACEAE       |                     |                     |                    |
|        |      | ....CYMBELLA          | 15                  | 1                   |                    |
|        |      | ...EUNOTIACEAE        |                     |                     |                    |
|        |      | ....EUNOTIA           | 15                  | 1                   |                    |
|        |      | ...FRAGILARIACEAE     |                     |                     |                    |
|        |      | ....ASTERIONELLA      | 120                 | 7                   |                    |
|        |      | ....FRAGILARIA        | 44                  | 3                   |                    |
|        |      | ....SYNEDRA           | 73                  | 5                   |                    |
|        |      | ...GOMPHONEMACEAE     |                     |                     |                    |
|        |      | ....GOMPHONEMA        | 29                  | 2                   |                    |
|        |      | ...MERIDIONACEAE      |                     |                     |                    |
|        |      | ....MERIDION          | 15                  | 1                   |                    |
|        |      | ...NAVICULACEAE       |                     |                     |                    |
|        |      | ....NAVICULA          | 15                  | 1                   |                    |
|        |      | ...NITZSCHIACEAE      |                     |                     |                    |
|        |      | ....NITZSCHIA         | 73                  | 5                   |                    |
|        |      | CHRYSOPHYCEAE         |                     |                     |                    |
|        |      | ..CHRYSOMONADALES     |                     |                     |                    |
|        |      | ...MALLOMONADACEAE    |                     |                     |                    |
|        |      | ....MALLOMONAS        | 15                  | 1                   |                    |
|        |      | ...OCHROMONADACEAE    |                     |                     |                    |
|        |      | ....DINOBRYON         | 440                 | 28                  |                    |
|        |      | CYANOPHYTA            |                     |                     |                    |
|        |      | ..MYXOPHYCEAE         |                     |                     |                    |
|        |      | ...CHROOCOCCALES      |                     |                     |                    |
|        |      | ...CHROOCOCCACEAE     |                     |                     |                    |
|        |      | ....ANACYSTIS         | 29                  | 2                   |                    |
|        |      | ...OSCILLATORIALES    |                     |                     |                    |
|        |      | ....OSCILLATORIA      | 340                 | 21                  |                    |
|        |      | PYRRHOPHYTA           |                     |                     |                    |
|        |      | ..DINOPHYCEAE         |                     |                     |                    |
|        |      | ...PERIDINIALES       |                     |                     |                    |
|        |      | ...GLENODINIACEAE     |                     |                     |                    |
|        |      | ....GLENODINIUM       | 15                  | 1                   |                    |
|        |      | TOTAL                 | 1600                |                     |                    |

## QUALITATIVE AND ASSOCIATED QUANTITATIVE ANALYSES OF BIOLOGICAL DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

## PHYTOPLANKTON

| DATE   | TIME | ORGANISM              | COUNT<br>(CELLS/ML) | PERCENT<br>OF TOTAL | SAMPLING<br>METHOD |
|--------|------|-----------------------|---------------------|---------------------|--------------------|
| Jun 30 | 1500 | CHLOROPHYTA           |                     |                     | DEPTH INTEGRATED   |
|        |      | ..CHLOROPHYCEAE       |                     |                     |                    |
|        |      | ..CHLOROCOCCALES      |                     |                     |                    |
|        |      | ...COELASTRACEAE      |                     |                     |                    |
|        |      | ....COELASTRUM        | 270                 | 3                   |                    |
|        |      | ...OCCYSTACEAE        |                     |                     |                    |
|        |      | ....ANKISTRODESMUS    | 240                 | 3                   |                    |
|        |      | ....KIRCHNERIELLA     | 89                  | 1                   |                    |
|        |      | ...SCENEDESMACEAE     |                     |                     |                    |
|        |      | ....SCENEDESMUS       |                     |                     |                    |
|        |      | ..VOLVOCALES          |                     |                     |                    |
|        |      | ...CHLAMYDOMONADACEAE |                     |                     |                    |
|        |      | ....CHLAMYDOMONAS     | 66                  | 1                   |                    |
|        |      | CHRYSOPHYTA           |                     |                     |                    |
|        |      | ..BACILLARIOPHYCEAE   |                     |                     |                    |
|        |      | ..CENTRALES           |                     |                     |                    |
|        |      | ...COSCINODISCACEAE   |                     |                     |                    |
|        |      | ....CYCLOTELLA        |                     |                     |                    |
|        |      | ..PENNALES            |                     |                     |                    |
|        |      | ...ACHNANTHACEAE      |                     |                     |                    |
|        |      | ....ACHNANTHES        |                     |                     |                    |
|        |      | ...NAVICULACEAE       |                     |                     |                    |
|        |      | ....CALONEIS          |                     |                     |                    |
|        |      | ....NAVICULA          | 110                 | 1                   |                    |
|        |      | ...NITZSCHIACEAE      |                     |                     |                    |
|        |      | ....NITZSCHIA         | 240                 | 3                   |                    |
|        |      | ...TABELLARIACEAE     |                     |                     |                    |
|        |      | ....TABELLARIA        |                     |                     |                    |
|        |      | ..CHRYSOPHYCEAE       |                     |                     |                    |
|        |      | ..CHRYSONOMADALES     |                     |                     |                    |
|        |      | ..CHROMULINACEAE      |                     |                     |                    |
|        |      | ....CHRYSOCCUS        |                     |                     |                    |
|        |      | CYANOPHYTA            |                     |                     |                    |
|        |      | ..MYXOPHYCEAE         |                     |                     |                    |
|        |      | ..CHROOCOCCALES       |                     |                     |                    |
|        |      | ...CHROOCOCCACEAE     |                     |                     |                    |
|        |      | ....ANACYSTIS         | 240                 | 3                   |                    |
|        |      | ...OSCILLATORIALES    |                     |                     |                    |
|        |      | ...OSCILLATORIA       | 7600                | 83                  |                    |
|        |      | EUGLENOPHYTA          |                     |                     |                    |
|        |      | ..EUGLENOPHYCEAE      |                     |                     |                    |
|        |      | ..EUGLENALES          |                     |                     |                    |
|        |      | ...EUGLENACEAE        |                     |                     |                    |
|        |      | ....TRACHELOMONAS     | 160                 | 2                   |                    |
|        |      | TOTAL                 | 9000                |                     |                    |
| Aug 04 | 1030 | CHLOROPHYTA           |                     |                     | DEPTH INTEGRATED   |
|        |      | ..CHLOROPHYCEAE       |                     |                     |                    |
|        |      | ..CHLOROCOCCALES      |                     |                     |                    |
|        |      | ...OCCYSTACEAE        |                     |                     |                    |
|        |      | ....ANKISTRODESMUS    | 14                  | 1                   |                    |
|        |      | ....KIRCHNERIELLA     | 110                 | 7                   |                    |
|        |      | ....QUADRIGULA        | 220                 | 15                  |                    |
|        |      | ...SCENEDESMACEAE     |                     |                     |                    |
|        |      | ....SCENEDESMUS       | 120                 | 8                   |                    |
|        |      | ..VOLVOCALES          |                     |                     |                    |
|        |      | ...VOLVOCAEAE         |                     |                     |                    |
|        |      | ....PANDORINA         | 220                 | 15                  |                    |
|        |      | ..ZYGNEMATALES        |                     |                     |                    |
|        |      | ...DESMIDIACEAE       |                     |                     |                    |
|        |      | ....ARTHRODESMUS      | 27                  | 2                   |                    |
|        |      | CHRYSOPHYTA           |                     |                     |                    |
|        |      | ..BACILLARIOPHYCEAE   |                     |                     |                    |
|        |      | ..CENTRALES           |                     |                     |                    |
|        |      | ...COSCINODISCACEAE   |                     |                     |                    |
|        |      | ....CYCLOTELLA        | 82                  | 6                   |                    |
|        |      | ..PENNALES            |                     |                     |                    |
|        |      | ...ACHNANTHACEAE      |                     |                     |                    |
|        |      | ....ACHNANTHES        | 27                  | 2                   |                    |
|        |      | ...FRAGILARIACEAE     |                     |                     |                    |
|        |      | ....ASTERIONELLA      | 55                  | 4                   |                    |
|        |      | ....FRAGILARIA        | 27                  | 2                   |                    |
|        |      | ...GOMPHONEMACEAE     |                     |                     |                    |
|        |      | ....GOMPHONEMA        | 14                  | 1                   |                    |
|        |      | ...NAVICULACEAE       |                     |                     |                    |
|        |      | ....NAVICULA          | 55                  | 4                   |                    |
|        |      | ....PINNULARIA        | 14                  | 1                   |                    |
|        |      | ...NITZSCHIACEAE      |                     |                     |                    |
|        |      | ....NITZSCHIA         | 14                  | 1                   |                    |
|        |      | CYANOPHYTA            |                     |                     |                    |
|        |      | ..MYXOPHYCEAE         |                     |                     |                    |
|        |      | ..CHROOCOCCALES       |                     |                     |                    |
|        |      | ...CHROOCOCCACEAE     |                     |                     |                    |
|        |      | ....AGMENELLUM        | 220                 | 15                  |                    |
|        |      | ...OSCILLATORIALES    |                     |                     |                    |
|        |      | ...OSCILLATORIA       | 270                 | 18                  |                    |
|        |      | TOTAL                 | 1500                |                     |                    |



01059400 ANDROSCOGGIN RIVER AT BRUNSWICK, ME--Continued

## QUALITATIVE AND ASSOCIATED QUANTITATIVE ANALYSES OF BIOLOGICAL DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

| PHYTOPLANKTON |      |                       |                     |                     |                    |  |
|---------------|------|-----------------------|---------------------|---------------------|--------------------|--|
| DATE          | TIME | ORGANISM              | COUNT<br>(CELLS/ML) | PERCENT<br>OF TOTAL | SAMPLING<br>METHOD |  |
| Aug 26        | 1030 | CHLOROPHYTA           |                     |                     | DEPTH INTEGRATED   |  |
|               |      | ..CHLOROPHYCEAE       |                     |                     |                    |  |
|               |      | ...CHLOROCOCCALES     |                     |                     |                    |  |
|               |      | ...HYDRODICTYACEAE    |                     |                     |                    |  |
|               |      | ....PEDIASTRUM        | 28                  | 3                   |                    |  |
|               |      | ...OCCYSTACEAE        |                     |                     |                    |  |
|               |      | ....ANKISTRODESMUS    | 14                  | 1                   |                    |  |
|               |      | ...DICTYOSPHAERIUM    | 28                  | 3                   |                    |  |
|               |      | ...SCENEDESMACEAE     |                     |                     |                    |  |
|               |      | ....CRUCIGENIA        | 170                 | 16                  |                    |  |
|               |      | ....SCENEDESMUS       | 42                  | 4                   |                    |  |
|               |      | CHRYSOPHYTA           |                     |                     |                    |  |
|               |      | ..BACILLARIOPHYCEAE   |                     |                     |                    |  |
|               |      | ...CENTRALES          |                     |                     |                    |  |
|               |      | ...COSCINODISCACEAE   |                     |                     |                    |  |
|               |      | ....CYCLOTELLA        |                     |                     |                    |  |
|               |      | ...PENNALES           |                     |                     |                    |  |
|               |      | ...FRAGILARIACEAE     |                     |                     |                    |  |
|               |      | ....ASTERIONELLA      | 28                  | 3                   |                    |  |
|               |      | ....FRAGILARIA        | 63                  | 6                   |                    |  |
|               |      | ...NAVICULACEAE       |                     |                     |                    |  |
|               |      | ....NAVICULA          | 35                  | 3                   |                    |  |
|               |      | ...NITZSCHIACEAE      |                     |                     |                    |  |
|               |      | ....NITZSCHIA         | 21                  | 2                   |                    |  |
|               |      | ...TABELLARIACEAE     |                     |                     |                    |  |
|               |      | ....TABELLARIA        | 7                   | 1                   |                    |  |
|               |      | ..CHRYSOPHYCEAE       |                     |                     |                    |  |
|               |      | ...CHRYDOMONADALES    |                     |                     |                    |  |
|               |      | ....OCHROMONADACEAE   |                     |                     |                    |  |
|               |      | ....DINOBYRON         | 260                 | 24                  |                    |  |
|               |      | CYANOPHYTA            |                     |                     |                    |  |
|               |      | ..MYXOPHYCEAE         |                     |                     |                    |  |
|               |      | ...CHROOCOCCALES      |                     |                     |                    |  |
|               |      | ...CHROOCOCCACEAE     |                     |                     |                    |  |
|               |      | ....AGMENELLUM        | 230                 | 21                  |                    |  |
|               |      | ...OSCILLATORIALES    |                     |                     |                    |  |
|               |      | ...OSCILLATORIA       |                     |                     |                    |  |
|               |      | ....OSCILLATORIA      | 140                 | 13                  |                    |  |
|               |      | EUGLENOPHYTA          |                     |                     |                    |  |
|               |      | ..EUGLENOPHYCEAE      |                     |                     |                    |  |
|               |      | ...EUGLENALES         |                     |                     |                    |  |
|               |      | ...EUGLENACEAE        |                     |                     |                    |  |
|               |      | ....TRACHELOMONAS     | 14                  | 1                   |                    |  |
|               |      | TOTAL                 | 1100                |                     |                    |  |
| Sep 28        | 1700 | CHLOROPHYTA           |                     |                     | DEPTH INTEGRATED   |  |
|               |      | ..CHLOROPHYCEAE       |                     |                     |                    |  |
|               |      | ...CHLOROCOCCALES     |                     |                     |                    |  |
|               |      | ...OCCYSTACEAE        |                     |                     |                    |  |
|               |      | ....ANKISTRODESMUS    |                     |                     |                    |  |
|               |      | ....OOCYSTIS          |                     |                     |                    |  |
|               |      | ...SCENEDESMACEAE     |                     |                     |                    |  |
|               |      | ....CRUCIGENIA        |                     |                     |                    |  |
|               |      | ...SCENEDESMUS        | 250                 | 1                   |                    |  |
|               |      | ...VOLVOCALES         |                     |                     |                    |  |
|               |      | ...CHLAMYDOMONADACEAE |                     |                     |                    |  |
|               |      | ...CHLAMYDOMONAS      |                     |                     |                    |  |
|               |      | CHRYSOPHYTA           |                     |                     |                    |  |
|               |      | ..BACILLARIOPHYCEAE   |                     |                     |                    |  |
|               |      | ...PENNALES           |                     |                     |                    |  |
|               |      | ...NAVICULACEAE       |                     |                     |                    |  |
|               |      | ....NAVICULA          |                     |                     |                    |  |
|               |      | ...NITZSCHIACEAE      |                     |                     |                    |  |
|               |      | ....NITZSCHIA         |                     |                     |                    |  |
|               |      | CYANOPHYTA            |                     |                     |                    |  |
|               |      | ..MYXOPHYCEAE         |                     |                     |                    |  |
|               |      | ...OSCILLATORIALES    |                     |                     |                    |  |
|               |      | ...NOSTOCACEAE        |                     |                     |                    |  |
|               |      | ....ANABAENA          |                     |                     |                    |  |
|               |      | ...APHANIZOMENON      | 5300                | 12                  |                    |  |
|               |      | ...OSCILLATORIA       | 40000               | 87                  |                    |  |
|               |      | TOTAL                 | 46000               |                     |                    |  |

## QUALITATIVE AND QUANTITATIVE ANALYSES OF BIOLOGICAL DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

| PERIPHYTON |                                 |                 |            |                               |                               |                             |                      |
|------------|---------------------------------|-----------------|------------|-------------------------------|-------------------------------|-----------------------------|----------------------|
| DATE       | LENGTH OF<br>EXPOSURE<br>(DAYS) | BIOMASS(G/SQ M) |            | CHLOROPHYLL<br>A<br>(MG/SQ M) | CHLOROPHYLL<br>B<br>(MG/SQ M) | BIOMASS<br>PIGMENT<br>RATIO | SAMPLING<br>METHOD   |
|            |                                 | DRY WEIGHT      | ASH WEIGHT |                               |                               |                             |                      |
| AUG 04     | 35                              | 5.9             | 3.5        | 21                            | 2.5                           | 120                         | ARTIFICIAL SUBSTRATE |

SPECIFIC CONDUCTANCE (MICROMHOS/CM AT 25 DEG. C), WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

| DAY   | NOVEMBER |     |      | DECEMBER |     |      | JANUARY |     |      |
|-------|----------|-----|------|----------|-----|------|---------|-----|------|
|       | MAX      | MIN | MEAN | MAX      | MIN | MEAN | MAX     | MIN | MEAN |
| 1     | ---      | --- | ---  | 79       | 75  | 77   | 125     | 122 | 123  |
| 2     | ---      | --- | ---  | 85       | 79  | 83   | 123     | 114 | 119  |
| 3     | 91       | 87  | 89   | 84       | 82  | 83   | 113     | 109 | 110  |
| 4     | 97       | 92  | 95   | 87       | 84  | 85   | 112     | 110 | 111  |
| 5     | 102      | 98  | 100  | 90       | 86  | 89   | 111     | 110 | 111  |
| 6     | 104      | 101 | 103  | 93       | 90  | 91   | 112     | 110 | 111  |
| 7     | 102      | 100 | 101  | 95       | 94  | 94   | 112     | 112 | 112  |
| 8     | 105      | 102 | 103  | 95       | 93  | 94   | 112     | 112 | 112  |
| 9     | 107      | 106 | 106  | 95       | 92  | 93   | 113     | 111 | 112  |
| 10    | 108      | 106 | 106  | 93       | 87  | 90   | 114     | 112 | 113  |
| 11    | 108      | 106 | 107  | 98       | 87  | 94   | 117     | 113 | 115  |
| 12    | 112      | 108 | 111  | 98       | 92  | 95   | 118     | 116 | 118  |
| 13    | 113      | 103 | 109  | 104      | 98  | 102  | 115     | 114 | 114  |
| 14    | 103      | 101 | 102  | 104      | 101 | 102  | 123     | 114 | 119  |
| 15    | 104      | 94  | 101  | 106      | 101 | 102  | 154     | 119 | 131  |
| 16    | 93       | 76  | 84   | 117      | 108 | 114  | 153     | 124 | 135  |
| 17    | 75       | 67  | 71   | 113      | 109 | 110  | 124     | 120 | 122  |
| 18    | 67       | 62  | 65   | 110      | 105 | 107  | 120     | 117 | 119  |
| 19    | 62       | 60  | 61   | 114      | 106 | 110  | 121     | 117 | 119  |
| 20    | 60       | 57  | 58   | 108      | 106 | 107  | 123     | 120 | 122  |
| 21    | 58       | 57  | 57   | 111      | 109 | 110  | 126     | 122 | 124  |
| 22    | 66       | 58  | 63   | 111      | 111 | 111  | 128     | 125 | 127  |
| 23    | 69       | 66  | 68   | 112      | 109 | 112  | 127     | 126 | 127  |
| 24    | 74       | 70  | 73   | 110      | 107 | 109  | 130     | 126 | 127  |
| 25    | 78       | 74  | 76   | 111      | 107 | 109  | 134     | 130 | 132  |
| 26    | 90       | 79  | 86   | 115      | 111 | 113  | 134     | 132 | 133  |
| 27    | 88       | 80  | 82   | 114      | 111 | 112  | 143     | 133 | 138  |
| 28    | 80       | 77  | 78   | 121      | 111 | 115  | 180     | 141 | 156  |
| 29    | 84       | 79  | 83   | 138      | 122 | 132  | 164     | 127 | 142  |
| 30    | 82       | 75  | 79   | 124      | 120 | 121  | 128     | 123 | 126  |
| 31    | ---      | --- | ---  | 126      | 121 | 124  | 123     | 121 | 122  |
| MONTH | 113      | 57  | 86   | 138      | 75  | 103  | 180     | 109 | 123  |

| DAY   | FEBRUARY |     |      | MARCH |     |      | APRIL |     |      | MAY |     |      |
|-------|----------|-----|------|-------|-----|------|-------|-----|------|-----|-----|------|
|       | MAX      | MIN | MEAN | MAX   | MIN | MEAN | MAX   | MIN | MEAN | MAX | MIN | MEAN |
| 1     | 122      | 118 | 120  | 119   | 115 | 117  | 57    | 49  | 55   | 58  | 56  | 57   |
| 2     | 119      | 110 | 113  | 116   | 109 | 112  | 58    | 57  | 58   | 59  | 57  | 58   |
| 3     | 113      | 100 | 109  | 109   | 107 | 107  | 57    | 40  | 50   | 58  | 56  | 57   |
| 4     | 99       | 92  | 96   | 107   | 106 | 107  | 42    | 36  | 39   | 61  | 57  | 59   |
| 5     | 92       | 90  | 91   | 113   | 107 | 109  | 44    | 40  | 42   | 58  | 54  | 57   |
| 6     | 94       | 92  | 93   | 119   | 114 | 116  | 47    | 44  | 45   | 54  | 53  | 54   |
| 7     | 94       | 89  | 92   | 117   | 110 | 112  | 50    | 47  | 48   | 53  | 53  | 53   |
| 8     | 90       | 84  | 87   | 110   | 108 | 109  | 54    | 50  | 53   | 55  | 53  | 54   |
| 9     | 86       | 83  | 84   | 109   | 108 | 108  | 56    | 54  | 55   | 56  | 54  | 56   |
| 10    | 89       | 85  | 87   | 109   | 108 | 108  | 58    | 56  | 57   | 59  | 56  | 58   |
| 11    | 92       | 88  | 90   | 112   | 108 | 110  | 60    | 58  | 59   | 59  | 57  | 58   |
| 12    | 93       | 89  | 91   | 116   | 112 | 113  | 62    | 60  | 61   | 58  | 56  | 57   |
| 13    | 106      | 92  | 99   | 114   | 106 | 109  | 63    | 62  | 63   | 57  | 54  | 55   |
| 14    | 101      | 96  | 98   | 106   | 102 | 104  | 65    | 63  | 64   | 59  | 55  | 57   |
| 15    | 109      | 99  | 102  | 108   | 105 | 107  | 66    | 65  | 65   | 57  | 49  | 53   |
| 16    | 110      | 104 | 106  | 108   | 106 | 107  | 68    | 66  | 67   | 49  | 46  | 47   |
| 17    | 113      | 105 | 109  | 107   | 104 | 106  | ---   | --- | ---  | 48  | 45  | 46   |
| 18    | 112      | 108 | 109  | 109   | 104 | 106  | ---   | --- | ---  | 51  | 48  | 50   |
| 19    | 115      | 110 | 112  | 109   | 107 | 108  | ---   | --- | ---  | 54  | 51  | 53   |
| 20    | 143      | 112 | 122  | 112   | 107 | 109  | ---   | --- | ---  | 54  | 53  | 54   |
| 21    | 140      | 123 | 129  | 114   | 112 | 112  | ---   | --- | ---  | 54  | 50  | 52   |
| 22    | 124      | 120 | 122  | 140   | 115 | 131  | ---   | --- | ---  | 49  | 44  | 46   |
| 23    | 130      | 120 | 122  | 115   | 110 | 113  | ---   | --- | ---  | 45  | 43  | 44   |
| 24    | 130      | 121 | 126  | 118   | 112 | 115  | ---   | --- | ---  | 46  | 44  | 45   |
| 25    | 121      | 117 | 119  | 112   | 92  | 108  | ---   | --- | ---  | 48  | 45  | 47   |
| 26    | 121      | 121 | 121  | 104   | 91  | 99   | ---   | --- | ---  | 50  | 47  | 49   |
| 27    | 120      | 115 | 118  | 90    | 81  | 84   | ---   | --- | ---  | 52  | 48  | 50   |
| 28    | 126      | 120 | 123  | 81    | 76  | 79   | ---   | --- | ---  | 52  | 48  | 50   |
| 29    | 126      | 117 | 123  | 76    | 67  | 71   | ---   | --- | ---  | 54  | 50  | 52   |
| 30    | ---      | --- | ---  | 67    | 58  | 62   | 58    | 56  | 57   | 57  | 53  | 56   |
| 31    | ---      | --- | ---  | 58    | 55  | 56   | ---   | --- | ---  | 56  | 55  | 56   |
| MONTH | 143      | 83  | 107  | 140   | 55  | 104  | ---   | --- | ---  | 61  | 43  | 53   |

## ANDROSCOGGIN RIVER BASIN

159

01059400 ANDROSCOGGIN RIVER AT BRUNSWICK, ME--Continued

SPECIFIC CONDUCTANCE (MICROMHOS/CM AT 25 DEG. C), WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

| DAY   | JUNE |     |      | JULY |     |      | AUGUST |     |      | SEPTEMBER |     |      |
|-------|------|-----|------|------|-----|------|--------|-----|------|-----------|-----|------|
|       | MAX  | MIN | MEAN | MAX  | MIN | MEAN | MAX    | MIN | MEAN | MAX       | MIN | MEAN |
| 1     | 59   | 56  | 58   | 120  | 117 | 118  | 115    | 113 | 114  | 113       | 107 | 110  |
| 2     | 61   | 59  | 60   | 119  | 114 | 116  | 114    | 105 | 111  | 119       | 113 | 116  |
| 3     | 64   | 61  | 62   | 114  | 109 | 111  | 104    | 100 | 102  | 122       | 119 | 121  |
| 4     | 68   | 63  | 65   | 108  | 101 | 104  | 102    | 97  | 100  | 121       | 119 | 120  |
| 5     | 70   | 68  | 69   | 105  | 100 | 102  | 97     | 92  | 95   | 121       | 117 | 120  |
| 6     | 72   | 69  | 71   | 103  | 101 | 101  | 92     | 89  | 91   | 116       | 110 | 113  |
| 7     | 76   | 73  | 75   | 103  | 102 | 102  | 89     | 84  | 87   | 116       | 113 | 114  |
| 8     | 81   | 74  | 76   | 101  | 96  | 98   | 91     | 87  | 89   | 122       | 117 | 121  |
| 9     | 88   | 81  | 86   | 95   | 92  | 94   | 89     | 81  | 87   | 121       | 118 | 119  |
| 10    | 90   | 87  | 89   | 93   | 91  | 92   | 80     | 75  | 77   | 120       | 118 | 119  |
| 11    | 94   | 89  | 92   | 97   | 91  | 94   | 94     | 81  | 87   | 118       | 116 | 117  |
| 12    | 95   | 88  | 92   | 95   | 90  | 91   | 101    | 96  | 99   | 116       | 107 | 114  |
| 13    | 96   | 88  | 93   | 94   | 91  | 93   | 97     | 83  | 90   | 114       | 106 | 111  |
| 14    | 99   | 89  | 95   | 93   | 89  | 92   | 88     | 79  | 84   | 115       | 113 | 114  |
| 15    | 97   | 87  | 93   | 88   | 83  | 86   | 88     | 71  | 82   | 119       | 115 | 117  |
| 16    | 109  | 95  | 103  | 85   | 81  | 83   | 72     | 66  | 69   | 123       | 119 | 121  |
| 17    | 118  | 101 | 110  | 82   | 76  | 79   | 68     | 64  | 66   | 123       | 121 | 122  |
| 18    | 124  | 109 | 120  | 89   | 75  | 78   | 74     | 69  | 72   | 123       | 120 | 122  |
| 19    | 117  | 105 | 110  | 90   | 71  | 78   | 76     | 75  | 76   | 131       | 121 | 124  |
| 20    | 123  | 112 | 118  | 76   | 69  | 72   | 76     | 72  | 75   | 138       | 128 | 134  |
| 21    | 117  | 104 | 112  | 69   | 66  | 67   | 75     | 71  | 73   | 127       | 122 | 123  |
| 22    | 118  | 110 | 115  | 78   | 67  | 71   | 82     | 73  | 78   | 126       | 123 | 124  |
| 23    | 119  | 107 | 111  | 82   | 76  | 79   | 80     | 73  | 75   | 124       | 118 | 121  |
| 24    | 118  | 114 | 116  | 102  | 84  | 97   | 77     | 74  | 76   | 122       | 118 | 119  |
| 25    | 119  | 113 | 116  | 112  | 94  | 104  | 78     | 76  | 77   | 130       | 123 | 125  |
| 26    | 116  | 109 | 114  | 102  | 99  | 101  | 81     | 78  | 79   | 138       | 130 | 134  |
| 27    | 120  | 106 | 112  | 117  | 99  | 109  | 86     | 80  | 83   | 140       | 126 | 132  |
| 28    | 126  | 121 | 124  | 119  | 98  | 109  | 91     | 86  | 89   | 129       | 125 | 127  |
| 29    | 124  | 120 | 122  | 125  | 107 | 113  | 98     | 92  | 95   | 132       | 130 | 131  |
| 30    | 131  | 117 | 123  | 125  | 123 | 124  | 102    | 98  | 100  | 135       | 131 | 133  |
| 31    | ---  | --- | ---  | 124  | 114 | 119  | 107    | 102 | 105  | ---       | --- | ---  |
| MONTH | 131  | 56  | 97   | 125  | 66  | 96   | 115    | 64  | 87   | 140       | 106 | 121  |
| YEAR  | 180  | 36  | 95   |      |     |      |        |     |      |           |     |      |

TEMPERATURE (DEG. C) OF WATER, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

| DAY   | NOVEMBER |     |      | DECEMBER |     |      | JANUARY |     |      |
|-------|----------|-----|------|----------|-----|------|---------|-----|------|
|       | MAX      | MIN | MEAN | MAX      | MIN | MEAN | MAX     | MIN | MEAN |
| 1     | ---      | --- | ---  | 2.5      | 1.5 | 2.0  | 0.0     | 0.0 | 0.0  |
| 2     | ---      | --- | ---  | 2.0      | 1.0 | 1.5  | 0.0     | 0.0 | 0.0  |
| 3     | 9.0      | 8.0 | 8.5  | 1.0      | 0.5 | 1.0  | 0.0     | 0.0 | 0.0  |
| 4     | 9.5      | 8.5 | 9.0  | 0.5      | 0.0 | 0.5  | 0.0     | 0.0 | 0.0  |
| 5     | 8.5      | 7.5 | 8.0  | 0.0      | 0.0 | 0.0  | 0.0     | 0.0 | 0.0  |
| 6     | 7.5      | 7.0 | 7.5  | 0.0      | 0.0 | 0.0  | 0.0     | 0.0 | 0.0  |
| 7     | 8.0      | 7.0 | 7.5  | 0.0      | 0.0 | 0.0  | 0.0     | 0.0 | 0.0  |
| 8     | 8.5      | 7.5 | 8.0  | 0.0      | 0.0 | 0.0  | 0.0     | 0.0 | 0.0  |
| 9     | 9.0      | 8.0 | 8.5  | 0.0      | 0.0 | 0.0  | 0.0     | 0.0 | 0.0  |
| 10    | 8.5      | 8.0 | 8.0  | 0.0      | 0.0 | 0.0  | 0.0     | 0.0 | 0.0  |
| 11    | 8.5      | 7.5 | 8.0  | 0.0      | 0.0 | 0.0  | 0.0     | 0.0 | 0.0  |
| 12    | 7.5      | 7.0 | 7.5  | 0.0      | 0.0 | 0.0  | 0.0     | 0.0 | 0.0  |
| 13    | 7.5      | 7.5 | 7.5  | 0.0      | 0.0 | 0.0  | 0.0     | 0.0 | 0.0  |
| 14    | 8.0      | 7.5 | 7.5  | 0.0      | 0.0 | 0.0  | 0.0     | 0.0 | 0.0  |
| 15    | 7.5      | 7.0 | 7.0  | 0.0      | 0.0 | 0.0  | 0.0     | 0.0 | 0.0  |
| 16    | 7.0      | 6.0 | 6.5  | 0.0      | 0.0 | 0.0  | 0.0     | 0.0 | 0.0  |
| 17    | 6.0      | 5.5 | 5.5  | 0.0      | 0.0 | 0.0  | 0.0     | 0.0 | 0.0  |
| 18    | 6.0      | 5.5 | 5.5  | 0.0      | 0.0 | 0.0  | 0.0     | 0.0 | 0.0  |
| 19    | 5.5      | 5.5 | 5.5  | 0.0      | 0.0 | 0.0  | 0.0     | 0.0 | 0.0  |
| 20    | 5.5      | 5.0 | 5.5  | 0.0      | 0.0 | 0.0  | 0.0     | 0.0 | 0.0  |
| 21    | 5.5      | 5.0 | 5.0  | 0.0      | 0.0 | 0.0  | 0.0     | 0.0 | 0.0  |
| 22    | 5.0      | 4.5 | 5.0  | 0.0      | 0.0 | 0.0  | 0.0     | 0.0 | 0.0  |
| 23    | 4.5      | 3.5 | 4.0  | 0.0      | 0.0 | 0.0  | 0.0     | 0.0 | 0.0  |
| 24    | 4.0      | 3.0 | 3.5  | 0.0      | 0.0 | 0.0  | 0.0     | 0.0 | 0.0  |
| 25    | 3.0      | 2.5 | 3.0  | 0.0      | 0.0 | 0.0  | 0.0     | 0.0 | 0.0  |
| 26    | 3.0      | 2.5 | 2.5  | 0.0      | 0.0 | 0.0  | 0.0     | 0.0 | 0.0  |
| 27    | 2.5      | 2.0 | 2.5  | 0.0      | 0.0 | 0.0  | 0.0     | 0.0 | 0.0  |
| 28    | 2.0      | 1.5 | 1.5  | 0.0      | 0.0 | 0.0  | 0.0     | 0.0 | 0.0  |
| 29    | 1.5      | 1.0 | 1.5  | 0.0      | 0.0 | 0.0  | 0.0     | 0.0 | 0.0  |
| 30    | 1.5      | 1.0 | 1.5  | 0.0      | 0.0 | 0.0  | 0.0     | 0.0 | 0.0  |
| 31    | ---      | --- | ---  | 0.0      | 0.0 | 0.0  | 0.0     | 0.0 | 0.0  |
| MONTH | 9.5      | 1.0 | 6.0  | 2.5      | 0.0 | 0.0  | 0.0     | 0.0 | 0.0  |

01059400 ANDROSCOGGIN RIVER AT BRUNSWICK, ME--Continued

## TEMPERATURE (DEG. C) OF WATER, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

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

## Reservoirs in Androscoggin River basin

- 01050500 RANGELEY LAKE on Rangeley Stream, Franklin County, Hydrologic Unit 01040001, at Oquossoc, Maine, used for power, has usable capacity of 1,339,200,000 ft<sup>3</sup> (37,926,000 m<sup>3</sup>) 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, Oxford County, Hydrologic Unit 01040001, in Richardson Township, Maine, used for power, has usable capacity of 8,370,000,000 ft<sup>3</sup> (237,000,000 m<sup>3</sup>) 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, Oxford County, Hydrologic Unit 01040001, at Middle Dam, Maine, used for power, has usable capacity of 5,691,500,000 ft<sup>3</sup> (161,180,000 m<sup>3</sup>) 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, Oxford County, Hydrologic Unit 01040001, 3 mi (5 km) east of village of Wilsons Mills, Maine, completed in 1911 for power, has usable capacity of 9,593,000,000 ft<sup>3</sup> (271,700,000 m<sup>3</sup>) 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, Coos County, Hydrologic Unit 01040001, 0.6 mi (1.0 km) northeast of Errol, N.H., used for power, has usable capacity of 3,080,160,000 ft<sup>3</sup> (87,230,100 m<sup>3</sup>) 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, Androscoggin County, Hydrologic Unit 01040002, 3 mi (5 km) upstream from Lewiston, Maine, completed in 1928 for power, has capacity of 1,100,000,000 ft<sup>3</sup> (31,150,000 m<sup>3</sup>) 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, Androscoggin County, Hydrologic Unit 01040002, at East Auburn, Maine, used for storing water supply of Auburn and Lewiston, has usable capacity of 580,000,000 ft<sup>3</sup> (16,430,000 m<sup>3</sup>) 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, Oxford County, Hydrologic Unit 01040002, at Oxford, Maine, used for process water, has usable capacity of 950,000,000 ft<sup>3</sup> (26,900,000 m<sup>3</sup>) 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 1975 TO SEPTEMBER 1976

| DATE           | RANGELEY<br>LAKE | MOOSELOOKMEGUNTIC<br>LAKE | UPPER AND LOWER<br>RICHARDSON LAKES | AZISCOHOS<br>LAKE |
|----------------|------------------|---------------------------|-------------------------------------|-------------------|
| SEPT. 30, 1975 | 920              | 2,838                     | 2,686                               | 7,360             |
| OCT. 31        | 811              | 4,062                     | 2,321                               | 8,770             |
| NOV. 30        | 656              | 4,028                     | 2,158                               | 9,202             |
| DEC. 31        | 251              | 4,539                     | 1,966                               | 8,290             |
| JAN. 31, 1976  | 208              | 4,539                     | 2,230                               | 5,150             |
| FEB. 28        | 251              | 4,884                     | 2,230                               | 4,148             |
| MAR. 31        | 727              | 6,154                     | 2,576                               | 5,228             |
| APR. 30        | 1,366            | 8,154                     | 5,538                               | 9,934             |
| MAY 31         | 1,353            | 8,082                     | 5,614                               | 9,872             |
| JUNE 30        | 1,409            | 7,652                     | 5,087                               | 9,345             |
| JULY 31        | 1,380            | 6,866                     | 4,713                               | 8,680             |
| AUG. 31        | 1,353            | 8,046                     | 5,538                               | 8,860             |
| SEPT. 30       | 1,061            | 6,048                     | 5,538                               | 8,410             |

| DATE           | UMBAGOG<br>LAKE | GULF ISLAND<br>POND | LAKE<br>AUBURN | THOMPSON<br>LAKE |
|----------------|-----------------|---------------------|----------------|------------------|
| SEPT. 30, 1975 | 2,224           | 2,410               | 430            | 1,666            |
| OCT. 31        | 2,398           | 2,319               | 430            | 1,552            |
| NOV. 30        | 2,476           | 2,438               | 496            | 1,590            |
| DEC. 31        | 1,560           | 2,277               | 544            | 1,552            |
| JAN. 31, 1976  | 1,758           | 2,358               | 616            | 1,571            |
| FEB. 28        | 1,812           | 2,442               | 640            | 1,609            |
| MAR. 31        | 1,380           | 2,482               | 664            | 1,799            |
| APR. 30        | 2,476           | 2,493               | 556            | 2,008            |
| MAY 31         | 2,710           | 2,453               | 628            | 1,951            |
| JUNE 30        | 2,186           | 2,282               | 592            | 1,913            |
| JULY 31        | 2,110           | 2,259               | 580            | 1,932            |
| AUG. 31        | 2,186           | 2,327               | 604            | 1,913            |
| SEPT. 30       | 2,167           | 2,228               | 532            | 1,780            |

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

01059800 COLLYER BROOK NEAR GRAY, ME

LOCATION.--Lat 43°55'03", long 70°19'02", Cumberland County, Hydrologic Unit 01060001, 50 ft (15 m) downstream from U.S. Highway 202, 2.4 mi (3.9 km) northeast of Gray, and 3.4 mi (5.5 km) upstream from mouth.

DRAINAGE AREA.--13.9 mi<sup>2</sup> (36.0 km<sup>2</sup>).

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

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

REMARKS.--Records fair.

AVERAGE DISCHARGE.--12 years, 27.2 ft<sup>3</sup>/s (0.770 m<sup>3</sup>/s), 26.58 in/yr (675 mm/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 1,220 ft<sup>3</sup>/s (34.6 m<sup>3</sup>/s) Dec. 27, 1969, gage height, 3.48 ft (1.061 m); maximum gage height, 4.30 ft (1.311 m) Feb. 14, 1972 (backwater from ice); minimum daily discharge, 6.4 ft<sup>3</sup>/s (0.18 m<sup>3</sup>/s) Jan. 29, 1966.

EXTREMES FOR CURRENT YEAR.--Peak discharges above base of 175 ft<sup>3</sup>/s (4.96 m<sup>3</sup>/s) and maximums (\*):

| Date    | Time | Discharge<br>(ft <sup>3</sup> /s) (m <sup>3</sup> /s) | Gage height<br>(ft) (m) | Date   | Time | Discharge<br>(ft <sup>3</sup> /s) (m <sup>3</sup> /s) | Gage height<br>(ft) (m) |
|---------|------|-------------------------------------------------------|-------------------------|--------|------|-------------------------------------------------------|-------------------------|
| Feb. 8  | 0845 | (ice jam)                                             | *4.27 1.301             | Apr. 1 | 2145 | *587 16.6                                             | 2.93 0.893              |
| Mar. 28 | 1645 | 211 5.98                                              | 2.29 0.698              |        |      |                                                       |                         |

Minimum discharge, 12 ft<sup>3</sup>/s (0.34 m<sup>3</sup>/s) all or part of each day, Mar. 20, July 23, 24, 28, Aug. 6-9, 24-27, Sept. 7-18, 21-26.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976  
MEAN VALUES

| DAY   | OCT  | NOV  | DEC  | JAN  | FEB  | MAR  | APR  | MAY  | JUN  | JUL  | AUG  | SEP  |
|-------|------|------|------|------|------|------|------|------|------|------|------|------|
| 1     | 18   | 21   | 46   | 30   | 45   | 25   | 211  | 25   | 22   | 21   | 36   | 15   |
| 2     | 18   | 19   | 49   | 27   | 70   | 20   | 348  | 50   | 20   | 17   | 33   | 14   |
| 3     | 18   | 19   | 39   | 25   | 155  | 18   | 113  | 40   | 19   | 16   | 27   | 14   |
| 4     | 17   | 19   | 33   | 24   | 63   | 17   | 76   | 33   | 18   | 16   | 19   | 13   |
| 5     | 17   | 18   | 38   | 23   | 41   | 18   | 66   | 28   | 18   | 16   | 13   | 13   |
| 6     | 17   | 18   | 29   | 22   | 34   | 25   | 58   | 26   | 18   | 15   | 13   | 13   |
| 7     | 17   | 18   | 29   | 21   | 30   | 23   | 52   | 30   | 17   | 14   | 12   | 13   |
| 8     | 17   | 18   | 41   | 21   | 27   | 21   | 47   | 34   | 17   | 15   | 12   | 12   |
| 9     | 17   | 22   | 43   | 20   | 25   | 18   | 43   | 30   | 16   | 15   | 17   | 12   |
| 10    | 17   | 27   | 110  | 20   | 23   | 17   | 39   | 26   | 16   | 14   | 110  | 12   |
| 11    | 17   | 47   | 60   | 20   | 22   | 15   | 36   | 25   | 16   | 14   | 50   | 12   |
| 12    | 29   | 27   | 44   | 20   | 21   | 15   | 33   | 33   | 16   | 16   | 20   | 12   |
| 13    | 27   | 71   | 37   | 19   | 20   | 14   | 31   | 37   | 16   | 16   | 19   | 12   |
| 14    | 22   | 75   | 33   | 90   | 20   | 15   | 29   | 32   | 16   | 16   | 19   | 12   |
| 15    | 19   | 42   | 31   | 75   | 19   | 14   | 28   | 27   | 16   | 15   | 21   | 12   |
| 16    | 19   | 31   | 38   | 60   | 19   | 13   | 26   | 25   | 15   | 14   | 30   | 12   |
| 17    | 19   | 27   | 43   | 49   | 21   | 13   | 25   | 23   | 15   | 14   | 22   | 12   |
| 18    | 45   | 25   | 33   | 41   | 21   | 16   | 24   | 50   | 15   | 16   | 18   | 13   |
| 19    | 34   | 24   | 47   | 36   | 21   | 13   | 23   | 110  | 15   | 14   | 15   | 13   |
| 20    | 45   | 23   | 38   | 32   | 22   | 12   | 23   | 88   | 15   | 14   | 14   | 13   |
| 21    | 37   | 31   | 29   | 28   | 23   | 35   | 22   | 70   | 15   | 13   | 14   | 13   |
| 22    | 26   | 62   | 27   | 26   | 27   | 98   | 21   | 60   | 15   | 13   | 13   | 12   |
| 23    | 22   | 38   | 21   | 24   | 31   | 57   | 26   | 49   | 14   | 12   | 13   | 12   |
| 24    | 21   | 32   | 20   | 24   | 35   | 61   | 24   | 41   | 13   | 18   | 12   | 12   |
| 25    | 21   | 32   | 21   | 24   | 22   | 71   | 22   | 35   | 17   | 25   | 12   | 12   |
| 26    | 26   | 30   | 40   | 24   | 25   | 89   | 25   | 31   | 17   | 16   | 12   | 13   |
| 27    | 21   | 31   | 75   | 60   | 28   | 93   | 27   | 28   | 17   | 13   | 12   | 14   |
| 28    | 20   | 37   | 60   | 120  | 32   | 168  | 25   | 25   | 16   | 12   | 13   | 16   |
| 29    | 20   | 35   | 48   | 150  | 35   | 109  | 22   | 22   | 16   | 13   | 15   | 15   |
| 30    | 25   | 32   | 40   | 100  | ---  | 100  | 24   | 20   | 16   | 16   | 18   | 13   |
| 31    | 23   | ---  | 35   | 55   | ---  | 93   | ---  | 19   | ---  | 29   | 17   | ---  |
| TOTAL | 711  | 951  | 1277 | 1310 | 977  | 1316 | 1569 | 1172 | 492  | 488  | 671  | 386  |
| MEAN  | 22.9 | 31.7 | 41.2 | 42.3 | 33.7 | 42.5 | 52.3 | 37.8 | 16.4 | 15.7 | 21.6 | 12.9 |
| MAX   | 45   | 75   | 110  | 150  | 155  | 168  | 348  | 110  | 22   | 29   | 110  | 16   |
| MIN   | 17   | 18   | 20   | 19   | 19   | 12   | 21   | 19   | 13   | 12   | 12   | 12   |
| CFSM  | 1.65 | 2.28 | 2.96 | 3.04 | 2.42 | 3.06 | 3.76 | 2.72 | 1.18 | 1.13 | 1.55 | .93  |
| IN.   | 1.90 | 2.54 | 3.42 | 3.51 | 2.61 | 3.52 | 4.20 | 3.14 | 1.32 | 1.31 | 1.80 | 1.03 |

|             |       |       |           |         |        |           |          |
|-------------|-------|-------|-----------|---------|--------|-----------|----------|
| CAL YR 1975 | TOTAL | 10548 | MEAN 28.9 | MAX 352 | MIN 14 | CFSM 2.08 | IN 28.23 |
| WTR YR 1976 | TOTAL | 11320 | MEAN 30.9 | MAX 348 | MIN 12 | CFSM 2.22 | IN 30.29 |



## 01060000 ROYAL RIVER AT YARMOUTH, ME

LOCATION.--Lat 43°47'57", long 70°10'45", Cumberland County, Hydrologic Unit 01060001, on right bank 150 ft (46 m) upstream from lower highway bridge in Yarmouth.

DRAINAGE AREA.--142 mi<sup>2</sup> (368 km<sup>2</sup>).

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

GAGE.--Water-stage recorder. Altitude of gage is 10 ft (3.0 m), from topographic map.

REMARKS.--Records good except those for winter period, which are fair. Some diurnal fluctuation at low flow caused by mill upstream.

AVERAGE DISCHARGE.--27 years, 273 ft<sup>3</sup>/s (7.731 m<sup>3</sup>/s), 26.11 in/yr (663 mm/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 7,960 ft<sup>3</sup>/s (225 m<sup>3</sup>/s) Sept. 12, 1954, gage height, 7.12 ft (2.170 m); minimum, 4.4 ft<sup>3</sup>/s (0.12 m<sup>3</sup>/s) Oct. 17, 18, 1962, gage height, 0.71 ft (0.216 m).

EXTREMES FOR CURRENT YEAR.--Peak discharges above base of 1,500 ft<sup>3</sup>/s (42.48 m<sup>3</sup>/s) and maximums (\*):

| Date    | Time | Discharge<br>(ft <sup>3</sup> /s) (m <sup>3</sup> /s) | Gage height<br>(ft) (m) | Date    | Time | Discharge<br>(ft <sup>3</sup> /s) (m <sup>3</sup> /s) | Gage height<br>(ft) (m) |
|---------|------|-------------------------------------------------------|-------------------------|---------|------|-------------------------------------------------------|-------------------------|
| Dec. 11 | 0300 | 1,630 46.2                                            | 3.44 1.049              | Mar. 29 | 0100 | 2,010 56.9                                            | 3.77 1.149              |
| Jan. 29 | 0300 | 1,700 48.1                                            | 3.50 1.067              | Apr. 2  | 1900 | *3,480 98.6                                           | *4.84 1.475             |
| Feb. 2  | 2400 | 1,890 53.5                                            | 3.67 1.119              |         |      |                                                       |                         |

Minimum discharge, 28 ft<sup>3</sup>/s (0.79 m<sup>3</sup>/s) Sept. 15, gage height, 0.97 ft (0.296 m).

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976  
MEAN VALUES

| DAY   | OCT  | NOV   | DEC   | JAN   | FEB   | MAR   | APR   | MAY  | JUN  | JUL  | AUG  | SEP  |
|-------|------|-------|-------|-------|-------|-------|-------|------|------|------|------|------|
| 1     | 106  | 170   | 493   | 420   | 651   | 404   | 1340  | 153  | 152  | 83   | 376  | 68   |
| 2     | 90   | 139   | 633   | 367   | 1310  | 345   | 3250  | 362  | 153  | 100  | 368  | 64   |
| 3     | 87   | 119   | 442   | 333   | 1790  | 290   | 2590  | 483  | 127  | 81   | 228  | 63   |
| 4     | 74   | 112   | 327   | 310   | 1370  | 256   | 1320  | 389  | 112  | 70   | 131  | 60   |
| 5     | 66   | 107   | 208   | 278   | 898   | 272   | 854   | 303  | 101  | 69   | 99   | 61   |
| 6     | 62   | 98    | 231   | 262   | 615   | 483   | 614   | 239  | 94   | 63   | 84   | 62   |
| 7     | 59   | 92    | 206   | 268   | 412   | 539   | 504   | 219  | 91   | 55   | 74   | 57   |
| 8     | 57   | 100   | 184   | 269   | 316   | 458   | 434   | 267  | 89   | 52   | 73   | 53   |
| 9     | 54   | 140   | 162   | 245   | 268   | 400   | 385   | 248  | 84   | 54   | 124  | 51   |
| 10    | 52   | 160   | 1140  | 224   | 235   | 269   | 346   | 205  | 77   | 51   | 1120 | 51   |
| 11    | 53   | 510   | 1470  | 216   | 223   | 256   | 317   | 177  | 72   | 48   | 1080 | 51   |
| 12    | 89   | 435   | 697   | 221   | 213   | 325   | 285   | 210  | 68   | 51   | 355  | 52   |
| 13    | 163  | 742   | 365   | 213   | 207   | 242   | 258   | 352  | 64   | 62   | 209  | 49   |
| 14    | 134  | 1350  | 315   | 472   | 214   | 304   | 248   | 272  | 62   | 76   | 160  | 48   |
| 15    | 120  | 939   | 290   | 911   | 202   | 331   | 231   | 229  | 62   | 67   | 194  | 44   |
| 16    | 110  | 485   | 319   | 1030  | 207   | 326   | 220   | 187  | 59   | 57   | 303  | 46   |
| 17    | 105  | 330   | 229   | 775   | 232   | 247   | 212   | 164  | 58   | 55   | 213  | 47   |
| 18    | 150  | 267   | 231   | 636   | 224   | 302   | 202   | 229  | 56   | 87   | 141  | 47   |
| 19    | 220  | 226   | 357   | 506   | 245   | 272   | 191   | 851  | 56   | 82   | 109  | 49   |
| 20    | 370  | 198   | 271   | 411   | 299   | 222   | 182   | 1040 | 54   | 59   | 97   | 46   |
| 21    | 510  | 207   | 235   | 359   | 309   | 448   | 173   | 733  | 54   | 53   | 87   | 46   |
| 22    | 343  | 680   | 238   | 323   | 327   | 1030  | 165   | 573  | 54   | 53   | 82   | 43   |
| 23    | 230  | 600   | 252   | 294   | 460   | 896   | 201   | 442  | 57   | 50   | 77   | 42   |
| 24    | 168  | 376   | 235   | 291   | 479   | 673   | 207   | 322  | 57   | 109  | 70   | 42   |
| 25    | 142  | 302   | 240   | 272   | 385   | 810   | 170   | 260  | 57   | 154  | 66   | 41   |
| 26    | 231  | 264   | 357   | 255   | 336   | 969   | 198   | 223  | 81   | 91   | 65   | 41   |
| 27    | 241  | 351   | 772   | 428   | 427   | 1150  | 250   | 200  | 78   | 69   | 64   | 76   |
| 28    | 166  | 586   | 800   | 1240  | 626   | 1730  | 217   | 182  | 71   | 61   | 65   | 94   |
| 29    | 136  | 451   | 634   | 1560  | 568   | 1860  | 187   | 161  | 66   | 56   | 69   | 72   |
| 30    | 170  | 337   | 528   | 1280  | ---   | 1410  | 167   | 145  | 64   | 77   | 86   | 59   |
| 31    | 208  | ---   | 472   | 965   | ---   | 1150  | ---   | 127  | ---  | 244  | 81   | ---  |
| TOTAL | 4761 | 10873 | 13333 | 15634 | 14048 | 18669 | 15918 | 9947 | 2330 | 2339 | 6350 | 1625 |
| MEAN  | 154  | 362   | 430   | 504   | 484   | 602   | 531   | 321  | 77.7 | 75.5 | 205  | 54.2 |
| MAX   | 510  | 1350  | 1470  | 1560  | 1790  | 1860  | 3250  | 1040 | 153  | 244  | 1120 | 94   |
| MIN   | 52   | 92    | 162   | 213   | 202   | 222   | 165   | 127  | 54   | 48   | 64   | 41   |
| CFSM  | 1.08 | 2.55  | 3.03  | 3.55  | 3.41  | 4.24  | 3.74  | 2.26 | .55  | .53  | 1.44 | .38  |
| IN.   | 1.25 | 2.85  | 3.49  | 4.10  | 3.68  | 4.89  | 4.17  | 2.61 | .61  | .61  | 1.66 | .43  |

| CAL YR 1975 | TOTAL | 95203  | MEAN 261 | MAX 3570 | MIN 37 | CFSM 1.84 | IN 24.94 |
|-------------|-------|--------|----------|----------|--------|-----------|----------|
| WTR YR 1976 | TOTAL | 115827 | MEAN 316 | MAX 3250 | MIN 41 | CFSM 2.23 | IN 30.34 |

## PRESUMPCOT RIVER BASIN

01063100 CROOKED RIVER NEAR NAPLES, ME

LOCATION.--Lat 43°58'44", long 70°33'50", Cumberland County, Hydrologic Unit 01060001, downstream side of left bridge pier of bridge on State Highway 11, near Naples, Maine.

DRAINAGE AREA.--150 mi<sup>2</sup> (388 km<sup>2</sup>), revised.

PERIOD OF RECORD.--May 24, 1975 to current year (seasonal records only).

GAGE.--Water-stage recorder. Altitude of gage is 286 ft (87.2 m) from topographic map.

REMARKS.--Records fair.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 1,120 ft<sup>3</sup>/s (31.7 m<sup>3</sup>/s), Apr. 8, 1976, gage height, 7.43 ft (2.265 m); minimum, 50 ft<sup>3</sup>/s (1.42 m<sup>3</sup>/s), Aug. 28, 1975, gage height, 0.96 ft (0.293 m).

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 1,120 ft<sup>3</sup>/s (31.7 m<sup>3</sup>/s), Apr. 8, gage height, 7.43 ft (2.265 m); minimum, 68 ft<sup>3</sup>/s (1.93 m<sup>3</sup>/s), Oct. 11, gage height, 1.09 ft (0.332 m).

## DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

| DAY   | OCT  | NOV   | DEC | JAN | FEB   | MAR | APR   | MAY   | JUN   | JUL  | AUG  | SEP   |
|-------|------|-------|-----|-----|-------|-----|-------|-------|-------|------|------|-------|
| 1     | 153  | 165   | 285 |     |       |     |       | 340   | 271   | 270  | 710  | 125   |
| 2     | 125  | 154   | 336 |     |       |     |       | 430   | 251   | 210  | 740  | 123   |
| 3     | 106  | 147   | 349 |     |       |     |       | 611   | 235   | 175  | 425  | 130   |
| 4     | 94   | 137   | 325 |     |       |     |       | 649   | 219   | 150  | 250  | 132   |
| 5     | 86   | 136   | 314 |     |       |     |       | 620   | 205   | 125  | 175  | 126   |
| 6     | 83   | 129   | 298 |     |       |     |       | 543   | 195   | 120  | 140  | 117   |
| 7     | 81   | 125   | 253 |     |       |     |       | 477   | 180   | 115  | 115  | 110   |
| 8     | 77   | 125   | 249 |     |       |     | 1060  | 456   | 170   | 170  | 120  | 104   |
| 9     | 73   | 132   | 250 |     |       |     | 1000  | 454   | 160   | 250  | 130  | 100   |
| 10    | 70   | 153   | 247 |     |       |     | 895   | 427   | 150   | 210  | 275  | 96    |
| 11    | 69   | 218   | 270 |     |       |     | 804   | 387   | 138   | 180  | 466  | 103   |
| 12    | 85   | 243   |     |     |       |     | 726   | 385   | 135   | 230  | 438  | 117   |
| 13    | 112  | 325   |     |     |       |     | 660   | 626   | 127   | 195  | 370  | 136   |
| 14    | 142  | 598   |     |     |       |     | 625   | 687   | 120   | 240  | 330  | 127   |
| 15    | 141  | 672   |     |     |       |     | 589   | 689   | 113   | 175  | 400  | 118   |
| 16    | 134  | 613   |     |     |       |     | 570   | 534   | 107   | 145  | 770  | 108   |
| 17    | 116  | 536   |     |     |       |     | 555   | 517   | 106   | 118  | 550  | 101   |
| 18    | 143  | 432   |     |     |       |     | 568   | 382   | 106   | 110  | 420  | 98    |
| 19    | 236  | 341   |     |     |       |     | 562   | 553   | 105   | 105  | 270  | 96    |
| 20    | 328  | 292   |     |     |       |     | 517   | 829   | 104   | 120  | 205  | 94    |
| 21    | 504  | 277   |     |     |       |     | 454   | 845   | 104   | 105  | 165  | 92    |
| 22    | 460  | 499   |     |     |       |     | 408   | 863   | 128   | 95   | 140  | 89    |
| 23    | 379  | 600   |     |     |       |     | 432   | 756   | 142   | 88   | 125  | 86    |
| 24    | 304  | 529   |     |     |       |     | 466   | 737   | 140   | 210  | 115  | 84    |
| 25    | 242  | 453   |     |     |       |     | 451   | 509   | 140   | 420  | 105  | 82    |
| 26    | 223  | 382   |     |     |       |     | 433   | 436   | 187   | 275  | 98   | 82    |
| 27    | 218  | 337   |     |     |       |     | 440   | 388   | 213   | 200  | 105  | 104   |
| 28    | 201  | 314   |     |     |       |     | 436   | 354   | 185   | 225  | 110  | 136   |
| 29    | 182  | 295   |     |     |       |     | 414   | 326   | 170   | 195  | 125  | 142   |
| 30    | 173  | 278   |     |     | ----- |     | 378   | 324   | 200   | 180  | 130  | 130   |
| 31    | 172  | ----- |     |     | ----- |     | ----- | 294   | ----- | 700  | 130  | ----- |
| TOTAL | 5512 | 9637  |     |     |       |     |       | 16428 | 4806  | 6106 | 8647 | 3288  |
| MEAN  | 178  | 321   |     |     |       |     |       | 530   | 160   | 197  | 279  | 110   |
| MAX   | 504  | 672   |     |     |       |     |       | 863   | 271   | 700  | 770  | 136   |
| MIN   | 69   | 125   |     |     |       |     |       | 294   | 104   | 88   | 98   | 82    |
| CFSM  | 1.09 | 1.97  |     |     |       |     |       | 3.25  | 0.98  | 1.21 | 1.71 | 0.67  |
| IN.   | 1.26 | 2.20  |     |     |       |     |       | 3.75  | 1.10  | 1.39 | 1.97 | 0.75  |

## 01064000 PRESUMPCOT RIVER AT OUTLET OF SEBAGO LAKE, ME

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

DRAINAGE AREA.--436 mi<sup>2</sup> (1,129 km<sup>2</sup>).

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

REVISED RECORDS.--WSP 261: Drainage area. WSP 1301: 1920-50 (adjusted monthly runoff).

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

REMARKS.--Discharge computed from wheel ratings and from records of openings of two regulating gates at Eel Weir hydroelectric plant. Water wasted at rare intervals through gates in dam on outlet of Sebago Lake; flow computed from records of gate openings. Water diverted by Portland Water District and leakage through dam, totaling about 40 ft<sup>3</sup>/s (1.13 m<sup>3</sup>/s), not included in figures of daily discharge. Flow regulated by Long Pond and Sebago Lake, surface area, 45.6 mi<sup>2</sup> (118 km<sup>2</sup>), which have a combined usable capacity of 11,000,000,000 ft<sup>3</sup> (312,000,000 m<sup>3</sup>).

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

AVERAGE DISCHARGE.--89 years, 661 ft<sup>3</sup>/s (18.7 m<sup>3</sup>/s).

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976  
MEAN VALUES

| DAY               | OCT       | NOV   | DEC   | JAN      | FEB      | MAR   | APR    | MAY    | JUN    | JUL   | AUG   | SEP   |
|-------------------|-----------|-------|-------|----------|----------|-------|--------|--------|--------|-------|-------|-------|
| 1                 | 490       | 490   | 670   | 753      | 806      | 976   | 965    | 1090   | 1090   | 819   | 670   | 655   |
| 2                 | 490       | 490   | 670   | 753      | 806      | 1000  | 583    | 1090   | 1090   | 819   | 670   | 642   |
| 3                 | 490       | 490   | 670   | 753      | 806      | 1000  | 1000   | 1090   | 1090   | 534   | 670   | 655   |
| 4                 | 490       | 490   | 670   | 753      | 806      | 1000  | 990    | 1090   | 1090   | 0     | 670   | 655   |
| 5                 | 490       | 490   | 670   | 753      | 806      | 1000  | 990    | 1090   | 1090   | 0     | 670   | 655   |
| 6                 | 490       | 541   | 670   | 818      | 806      | 1000  | 1000   | 1090   | 1090   | 0     | 670   | 655   |
| 7                 | 490       | 541   | 670   | 818      | 806      | 1000  | 1000   | 1090   | 1050   | 0     | 670   | 655   |
| 8                 | 490       | 541   | 670   | 818      | 806      | 990   | 1000   | 1090   | 1020   | 0     | 670   | 655   |
| 9                 | 490       | 490   | 772   | 818      | 806      | 1000  | 1000   | 1090   | 1020   | 478   | 474   | 655   |
| 10                | 490       | 490   | 515   | 831      | 812      | 1000  | 1000   | 1090   | 1020   | 750   | 683   | 655   |
| 11                | 490       | 490   | 554   | 831      | 819      | 1000  | 990    | 1090   | 1020   | 739   | 683   | 655   |
| 12                | 490       | 490   | 772   | 831      | 819      | 990   | 975    | 1090   | 1020   | 739   | 670   | 655   |
| 13                | 480       | 490   | 818   | 818      | 819      | 1000  | 1050   | 1090   | 1020   | 739   | 670   | 655   |
| 14                | 480       | 490   | 818   | 818      | 819      | 1000  | 1080   | 1080   | 1020   | 739   | 683   | 655   |
| 15                | 480       | 490   | 772   | 831      | 1000     | 990   | 1080   | 1090   | 1020   | 739   | 670   | 655   |
| 16                | 480       | 490   | 772   | 831      | 1000     | 990   | 1110   | 1090   | 1020   | 739   | 670   | 655   |
| 17                | 490       | 554   | 753   | 790      | 1000     | 1000  | 1110   | 1090   | 1020   | 739   | 582   | 655   |
| 18                | 490       | 554   | 753   | 818      | 1000     | 1000  | 1110   | 1090   | 1020   | 739   | 585   | 655   |
| 19                | 490       | 554   | 753   | 818      | 1000     | 988   | 1090   | 674    | 1020   | 739   | 575   | 655   |
| 20                | 490       | 541   | 753   | 818      | 1000     | 988   | 1110   | 490    | 1020   | 739   | 562   | 616   |
| 21                | 490       | 554   | 753   | 818      | 1000     | 988   | 1090   | 820    | 898    | 739   | 552   | 588   |
| 22                | 490       | 541   | 753   | 818      | 1000     | 1000  | 1090   | 990    | 806    | 739   | 552   | 588   |
| 23                | 490       | 541   | 467   | 818      | 1000     | 988   | 1110   | 990    | 806    | 739   | 552   | 588   |
| 24                | 490       | 541   | 467   | 818      | 1010     | 988   | 1080   | 1020   | 806    | 739   | 570   | 588   |
| 25                | 480       | 541   | 467   | 818      | 1010     | 988   | 1080   | 1090   | 806    | 739   | 562   | 588   |
| 26                | 480       | 541   | 735   | 811      | 1010     | 988   | 1080   | 1080   | 819    | 655   | 562   | 588   |
| 27                | 480       | 541   | 753   | 788      | 988      | 988   | 1080   | 1080   | 819    | 655   | 585   | 581   |
| 28                | 480       | 541   | 500   | 818      | 988      | 1000  | 1080   | 1080   | 819    | 655   | 578   | 588   |
| 29                | 480       | 541   | 548   | 818      | 988      | 1000  | 1080   | 1080   | 819    | 655   | 585   | 585   |
| 30                | 480       | 548   | 753   | 818      | ---      | 1000  | 1080   | 1080   | 819    | 655   | 562   | 583   |
| 31                | 490       | ---   | 753   | 818      | ---      | 1000  | ---    | 1080   | ---    | 655   | 655   | ---   |
| TOTAL             | 15090     | 15626 | 21114 | 25033    | 26336    | 30840 | 31083  | 32164  | 29067  | 18415 | 19182 | 18913 |
| MEAN              | 487       | 521   | 681   | 808      | 908      | 995   | 1036   | 1038   | 969    | 594   | 619   | 630   |
| MAX               | 490       | 554   | 818   | 831      | 1010     | 1000  | 1110   | 1090   | 1090   | 819   | 683   | 655   |
| MIN               | 480       | 490   | 467   | 753      | 806      | 976   | 583    | 490    | 806    | 0     | 474   | 581   |
| †                 | 645.8     | 798.7 | 832.7 | 815.7    | 883.7    | 951.7 | 1189.6 | 1291.6 | 1053.7 | 926.1 | 900.7 | 730.8 |
| CAL YR 1975 TOTAL | 204405.00 |       |       | MEAN 560 | MAX 1030 | MIN 0 |        |        |        |       |       |       |
| WTR YR 1976 TOTAL | 282863.00 |       |       | MEAN 773 | MAX 1110 | MIN 0 |        |        |        |       |       |       |

† Monthend contents, in millions of cubic feet, in Sebago Lake; records furnished by S. D. Warren Co.

## PRESUMPCOT RIVER BASIN

01064140 PRESUMPCOT RIVER NEAR WEST FALMOUTH, ME

LOCATION.--Lat 43°43'28", long 70°18'12", Cumberland County, Hydrologic Unit 01080001, on right bank, 50 ft (15 m) upstream from bridge on Blackstrap Road, 0.1 mi (0.2 km) downstream from Maine Turnpike, 0.6 mi (1.0 km) downstream from Meader Brook, 0.9 mi (1.4 km) upstream from Piscataqua River, and 1.5 mi (2.4 km) south of West Falmouth.

DRAINAGE AREA.--590 mi<sup>2</sup> (1,528 km<sup>2</sup>).

## WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--October 1975 to September 1976.

GAGE.--Water-stage recorder. Datum of gage is 11.15 ft (3.399 m) above mean sea level.

REMARKS.--Records fair.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 4,000 ft<sup>3</sup>/s (113 m<sup>3</sup>/s) Apr. 2, gage height, 12.79 ft (3.898 m); minimum daily, 39 ft<sup>3</sup>/s (1.10 m<sup>3</sup>/s) July 9.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976  
MEAN VALUES

| DAY         | OCT   | NOV    | DEC   | JAN   | FEB   | MAR   | APR   | MAY   | JUN   | JUL   | AUG   | SEP   |
|-------------|-------|--------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 1           | 715   | 803    | 1090  | 1220  | 1460  | 1520  | 2290  | 1340  | 1350  | 922   | 1180  | 738   |
| 2           | 690   | 854    | 1220  | 1040  | 2670  | 1480  | 3540  | 1720  | 1320  | 922   | 1190  | 751   |
| 3           | 670   | 854    | 1090  | 1110  | 2540  | 1420  | 2420  | 1710  | 1290  | 901   | 1080  | 767   |
| 4           | 650   | 842    | 1040  | 1070  | 2020  | 1390  | 1960  | 1620  | 1270  | 640   | 960   | 771   |
| 5           | 630   | 793    | 918   | 1070  | 1690  | 1390  | 1750  | 1500  | 1260  | 350   | 842   | 774   |
| 6           | 615   | 718    | 993   | 1140  | 1460  | 1720  | 1660  | 1410  | 1250  | 218   | 798   | 787   |
| 7           | 610   | 682    | 959   | 1100  | 1350  | 1730  | 1560  | 1420  | 1250  | 152   | 775   | 785   |
| 8           | 600   | 695    | 908   | 1140  | 1290  | 1530  | 1540  | 1450  | 1160  | 94    | 794   | 771   |
| 9           | 600   | 789    | 965   | 1090  | 1230  | 1430  | 1450  | 1440  | 1070  | 39    | 904   | 769   |
| 10          | 600   | 856    | 2730  | 1090  | 1190  | 1360  | 1470  | 1390  | 1130  | 182   | 2060  | 762   |
| 11          | 609   | 1270   | 2390  | 1030  | 1190  | 1350  | 1400  | 1330  | 1080  | 810   | 1230  | 767   |
| 12          | 784   | 1020   | 1550  | 1110  | 1180  | 1330  | 1340  | 1440  | 1140  | 887   | 947   | 773   |
| 13          | 869   | 1690   | 1320  | 1100  | 1180  | 1350  | 1350  | 1560  | 1090  | 916   | 934   | 771   |
| 14          | 804   | 2170   | 1200  | 1370  | 1170  | 1450  | 1400  | 1440  | 1050  | 906   | 891   | 780   |
| 15          | 694   | 1580   | 1190  | 1590  | 1170  | 1480  | 1360  | 1420  | 1090  | 891   | 1120  | 830   |
| 16          | 694   | 1020   | 1300  | 1460  | 1210  | 1430  | 1440  | 1440  | 1100  | 860   | 1140  | 821   |
| 17          | 624   | 967    | 1130  | 1350  | 1270  | 1320  | 1380  | 1360  | 1050  | 855   | 968   | 724   |
| 18          | 747   | 968    | 1140  | 1310  | 1270  | 1360  | 1390  | 1470  | 1050  | 915   | 906   | 699   |
| 19          | 889   | 866    | 1060  | 1220  | 1300  | 1270  | 1360  | 2110  | 1070  | 915   | 864   | 772   |
| 20          | 841   | 881    | 1010  | 1180  | 1390  | 1320  | 1350  | 2130  | 1070  | 855   | 662   | 808   |
| 21          | 1010  | 903    | 1050  | 1110  | 1340  | 1800  | 1340  | 1780  | 1060  | 820   | 667   | 858   |
| 22          | 947   | 1480   | 1040  | 1150  | 1370  | 2350  | 1340  | 1630  | 942   | 810   | 763   | 729   |
| 23          | 849   | 1230   | 1020  | 1100  | 1600  | 1860  | 1390  | 1480  | 900   | 830   | 771   | 686   |
| 24          | 813   | 981    | 872   | 1090  | 1520  | 1700  | 1380  | 1390  | 887   | 954   | 769   | 530   |
| 25          | 797   | 962    | 820   | 1090  | 1480  | 1850  | 1360  | 1360  | 928   | 884   | 724   | 688   |
| 26          | 965   | 895    | 928   | 1070  | 1440  | 1970  | 1450  | 1340  | 895   | 871   | 699   | 700   |
| 27          | 888   | 1270   | 1600  | 1150  | 1690  | 2050  | 1510  | 1360  | 892   | 809   | 696   | 717   |
| 28          | 832   | 1940   | 1560  | 2100  | 1910  | 2450  | 1420  | 1350  | 889   | 790   | 688   | 821   |
| 29          | 775   | 1320   | 1410  | 2150  | 1650  | 2360  | 1380  | 1320  | 890   | 780   | 748   | 826   |
| 30          | 815   | 1060   | 1390  | 1840  | ---   | 2060  | 1360  | 1280  | 891   | 840   | 799   | 782   |
| 31          | 839   | ---    | 1210  | 1610  | ---   | 1940  | ---   | 1300  | ---   | 970   | 732   | ---   |
| TOTAL       | 23465 | 32359  | 38103 | 39250 | 43230 | 51020 | 47340 | 46290 | 32314 | 22588 | 28301 | 22757 |
| MEAN        | 757   | 1079   | 1229  | 1266  | 1491  | 1646  | 1578  | 1493  | 1077  | 729   | 913   | 759   |
| MAX         | 1010  | 2170   | 2730  | 2150  | 2670  | 2450  | 3540  | 2130  | 1350  | 970   | 2060  | 858   |
| MIN         | 600   | 682    | 820   | 1030  | 1170  | 1270  | 1340  | 1280  | 887   | 39    | 662   | 530   |
| WTR YR 1976 | TOTAL | 427017 | MEAN  | 1167  | MAX   | 3540  | MIN   | 39    |       |       |       |       |

01064140 PRESUMPSCOT RIVER NEAR WEST FALMOUTH, ME--Continued

## WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 1973-74; current year.

PERIOD OF DAILY RECORD.--

SPECIFIC CONDUCTANCE: Current year.

pH: Current year.

WATER TEMPERATURES: Current year.

DISSOLVED OXYGEN: Current year.

INSTRUMENTATION.--Water-quality monitor since July 1976.

EXTREMES OUTSIDE PERIOD OF DAILY RECORD.--A dissolved oxygen of 1.6 mg/L was observed July 9, 1976.

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

EXTREMES FOR CURRENT YEAR.--

SPECIFIC CONDUCTANCE: Maximum, 296 micromhos Sept. 16; minimum, 64 micromhos Aug. 30.

pH: Maximum, 8.8 units July 24; minimum, 6.4 units July 15.

WATER TEMPERATURES: Maximum, 25.0°C July 20; minimum, 15.5°C Sept. 29, 30.

DISSOLVED OXYGEN: Maximum, 9.5 mg/L Sept. 29; minimum, 4.5 mg/L July 18.

SPECIFIC CONDUCTANCE (MICROMHOS/CM AT 25 DEG. C), WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

| DAY    | JULY |     |      | AUGUST |     |      | SEPTEMBER |     |      |
|--------|------|-----|------|--------|-----|------|-----------|-----|------|
|        | MAX  | MIN | MEAN | MAX    | MIN | MEAN | MAX       | MIN | MEAN |
| 1      | ---  | --- | ---  | 108    | 89  | 98   | 74        | 69  | 71   |
| 2      | ---  | --- | ---  | 104    | 96  | 100  | 76        | 70  | 73   |
| 3      | ---  | --- | ---  | 104    | 85  | 98   | 82        | 73  | 76   |
| 4      | ---  | --- | ---  | 104    | 92  | 98   | 80        | 73  | 76   |
| 5      | ---  | --- | ---  | 95     | 90  | 93   | 78        | 71  | 74   |
| 6      | ---  | --- | ---  | 103    | 92  | 96   | 75        | 67  | 71   |
| 7      | ---  | --- | ---  | 107    | 85  | 101  | 76        | 68  | 72   |
| 8      | ---  | --- | ---  | 99     | 91  | 95   | 75        | 70  | 72   |
| 9      | ---  | --- | ---  | 128    | 90  | 99   | 78        | 69  | 72   |
| 10     | ---  | --- | ---  | 114    | 78  | 89   | 77        | 70  | 73   |
| 11     | ---  | --- | ---  | 104    | 92  | 99   | 74        | 67  | 71   |
| 12     | ---  | --- | ---  | 105    | 97  | 102  | 73        | 68  | 70   |
| 13     | ---  | --- | ---  | 109    | 88  | 98   | 80        | 68  | 74   |
| 14     | ---  | --- | ---  | 100    | 88  | 93   | 84        | 72  | 77   |
| 15     | 85   | 74  | 81   | 102    | 86  | 93   | 93        | 72  | 79   |
| 16     | 90   | 80  | 85   | 99     | 91  | 97   | 296       | 75  | 95   |
| 17     | 90   | 69  | 85   | 103    | 94  | 98   | 120       | 82  | 94   |
| 18     | 94   | 84  | 89   | 107    | 78  | 93   | 100       | 89  | 96   |
| 19     | 93   | 85  | 90   | 116    | 79  | 95   | 94        | 87  | 90   |
| 20     | 103  | 84  | 93   | 145    | 104 | 113  | 99        | 73  | 91   |
| 21     | 90   | 81  | 86   | 122    | 97  | 109  | 111       | 86  | 94   |
| 22     | 88   | 60  | 84   | 101    | 85  | 95   | 104       | 86  | 96   |
| 23     | 88   | 78  | 83   | 92     | 80  | 87   | 127       | 93  | 100  |
| 24     | 105  | 77  | 92   | 100    | 85  | 94   | 245       | 84  | 116  |
| 25     | 105  | 82  | 96   | 97     | 86  | 92   | 154       | 96  | 110  |
| 26     | 93   | 86  | 90   | 98     | 84  | 92   | 112       | 92  | 99   |
| 27     | 94   | 90  | 92   | 101    | 87  | 92   | 121       | 105 | 112  |
| 28     | 104  | 92  | 96   | 103    | 75  | 88   | 117       | 86  | 107  |
| 29     | 97   | 73  | 91   | 87     | 79  | 83   | 119       | 87  | 103  |
| 30     | 101  | 88  | 93   | 79     | 64  | 69   | 113       | 103 | 108  |
| 31     | 101  | 88  | 93   | 75     | 67  | 71   | ---       | --- | ---  |
| MONTH  | ---  | --- | ---  | 145    | 64  | 94   | 296       | 67  | 87   |
| PERIOD | 296  | 64  | 90   |        |     |      |           |     |      |

01064140 PRESUMPCOT RIVER NEAR WEST FALMOUTH, ME--Continued

PH (UNITS), WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

| DAY    | JULY |     |      | AUGUST |     |      | SEPTEMBER |     |      |
|--------|------|-----|------|--------|-----|------|-----------|-----|------|
|        | MAX  | MIN | MEAN | MAX    | MIN | MEAN | MAX       | MIN | MEAN |
| 1      | ---  | --- | ---  | 7.0    | 6.8 | 6.8  | 6.8       | 6.8 | 6.8  |
| 2      | ---  | --- | ---  | 7.0    | 6.9 | 6.9  | 6.8       | 6.8 | 6.8  |
| 3      | ---  | --- | ---  | 6.9    | 6.9 | 6.9  | 6.9       | 6.8 | 6.8  |
| 4      | ---  | --- | ---  | 7.0    | 6.9 | 6.9  | 6.9       | 6.8 | 6.9  |
| 5      | ---  | --- | ---  | 6.9    | 6.8 | 6.9  | 6.9       | 6.9 | 6.9  |
| 6      | ---  | --- | ---  | 7.0    | 6.8 | 6.9  | 6.9       | 6.9 | 6.9  |
| 7      | ---  | --- | ---  | 7.0    | 6.9 | 7.0  | 7.0       | 6.8 | 6.9  |
| 8      | ---  | --- | ---  | 7.0    | 6.9 | 6.9  | 6.9       | 6.9 | 6.9  |
| 9      | ---  | --- | ---  | ---    | --- | ---  | 6.9       | 6.8 | 6.9  |
| 10     | ---  | --- | ---  | ---    | --- | ---  | 6.9       | 6.8 | 6.9  |
| 11     | ---  | --- | ---  | ---    | --- | ---  | 6.8       | 6.8 | 6.8  |
| 12     | ---  | --- | ---  | ---    | --- | ---  | 6.8       | 6.8 | 6.8  |
| 13     | ---  | --- | ---  | ---    | --- | ---  | 6.9       | 6.7 | 6.8  |
| 14     | ---  | --- | ---  | ---    | --- | ---  | 6.9       | 6.8 | 6.8  |
| 15     | 6.5  | 6.4 | 6.5  | ---    | --- | ---  | 6.8       | 6.8 | 6.8  |
| 16     | 6.6  | 6.5 | 6.5  | ---    | --- | ---  | 6.9       | 6.7 | 6.8  |
| 17     | 6.7  | 6.6 | 6.6  | ---    | --- | ---  | 6.8       | 6.8 | 6.8  |
| 18     | 6.6  | 6.5 | 6.5  | ---    | --- | ---  | 6.8       | 6.7 | 6.8  |
| 19     | 6.6  | 6.5 | 6.5  | ---    | --- | ---  | 6.8       | 6.7 | 6.7  |
| 20     | 6.7  | 6.6 | 6.6  | ---    | --- | ---  | 6.8       | 6.7 | 6.7  |
| 21     | 6.8  | 6.6 | 6.7  | ---    | --- | ---  | 6.7       | 6.6 | 6.7  |
| 22     | 6.8  | 6.7 | 6.8  | ---    | --- | ---  | 6.7       | 6.6 | 6.7  |
| 23     | 6.8  | 6.8 | 6.8  | ---    | --- | ---  | 6.7       | 6.6 | 6.7  |
| 24     | 8.8  | 6.8 | 7.0  | ---    | --- | ---  | 6.7       | 6.5 | 6.7  |
| 25     | 7.0  | 6.9 | 7.0  | ---    | --- | ---  | 6.8       | 6.7 | 6.7  |
| 26     | 6.9  | 6.7 | 6.8  | ---    | --- | ---  | 6.8       | 6.7 | 6.7  |
| 27     | 6.8  | 6.7 | 6.8  | 6.8    | 6.7 | 6.7  | 6.8       | 6.7 | 6.8  |
| 28     | 6.8  | 6.7 | 6.8  | 6.8    | 6.7 | 6.7  | 7.0       | 6.7 | 6.8  |
| 29     | 6.8  | 6.7 | 6.7  | 6.9    | 6.8 | 6.9  | 6.9       | 6.8 | 6.8  |
| 30     | 6.9  | 6.7 | 6.8  | 6.8    | 6.7 | 6.7  | 6.8       | 6.8 | 6.8  |
| 31     | 7.0  | 6.7 | 6.8  | 6.8    | 6.8 | 6.8  | ---       | --- | ---  |
| MONTH  | ---  | --- | ---  | 7.0    | 6.7 | 5.1  | 7.0       | 6.5 | 6.8  |
| PERIOD | 8.8  | 6.4 | 6.9  |        |     |      |           |     |      |

TEMPERATURE (DEG. C) OF WATER, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

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



01064150 PRESUMPCOT RIVER NEAR WEST FALMOUTH, ME--Continued

DISSOLVED OXYGEN (DO), MG/L, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

| DAY    | JULY |     |      | AUGUST |     |      | SEPTEMBER |     |      |
|--------|------|-----|------|--------|-----|------|-----------|-----|------|
|        | MAX  | MIN | MEAN | MAX    | MIN | MEAN | MAX       | MIN | MEAN |
| 1      | ---  | --- | ---  | 6.8    | 6.7 | 6.7  | 8.2       | 7.6 | 7.9  |
| 2      | ---  | --- | ---  | 7.2    | 6.7 | 7.0  | 8.4       | 8.2 | 8.3  |
| 3      | ---  | --- | ---  | 7.5    | 7.2 | 7.4  | 8.5       | 8.3 | 8.4  |
| 4      | ---  | --- | ---  | 7.8    | 7.1 | 7.7  | 8.5       | 8.2 | 8.4  |
| 5      | ---  | --- | ---  | 7.5    | 7.0 | 7.3  | 8.3       | 8.0 | 8.2  |
| 6      | ---  | --- | ---  | 7.7    | 7.0 | 7.5  | 8.2       | 7.9 | 8.1  |
| 7      | ---  | --- | ---  | 7.9    | 7.5 | 7.8  | 8.9       | 8.1 | 8.6  |
| 8      | ---  | --- | ---  | 8.1    | 7.9 | 8.0  | 8.9       | 8.8 | 8.9  |
| 9      | ---  | --- | ---  | 8.3    | 8.1 | 8.2  | 9.0       | 8.6 | 8.8  |
| 10     | ---  | --- | ---  | 8.7    | 8.3 | 8.6  | 8.9       | 8.6 | 8.8  |
| 11     | ---  | --- | ---  | 8.7    | 8.2 | 8.5  | 9.0       | 8.8 | 8.9  |
| 12     | ---  | --- | ---  | 8.3    | 7.8 | 8.1  | 9.0       | 8.8 | 8.9  |
| 13     | ---  | --- | ---  | 7.9    | 7.7 | 7.8  | 9.1       | 8.8 | 9.0  |
| 14     | ---  | --- | ---  | 7.9    | 7.6 | 7.8  | 8.9       | 8.5 | 8.8  |
| 15     | 5.9  | 5.6 | 5.7  | 8.0    | 7.8 | 7.9  | 8.8       | 8.5 | 8.7  |
| 16     | 5.6  | 5.1 | 5.4  | 8.3    | 8.0 | 8.1  | 9.0       | 8.6 | 8.8  |
| 17     | 6.1  | 4.7 | 5.3  | 8.2    | 7.8 | 8.1  | 8.9       | 8.6 | 8.8  |
| 18     | 4.9  | 4.5 | 4.7  | 8.2    | 8.0 | 8.1  | 8.6       | 8.4 | 8.5  |
| 19     | 5.3  | 4.7 | 4.8  | 8.4    | 7.9 | 8.2  | 8.5       | 8.3 | 8.4  |
| 20     | 5.4  | 4.9 | 5.2  | 8.2    | 7.4 | 7.9  | 8.5       | 8.2 | 8.4  |
| 21     | 6.1  | 5.3 | 5.7  | 7.8    | 7.5 | 7.7  | 8.3       | 8.1 | 8.2  |
| 22     | 6.3  | 6.1 | 6.2  | 7.6    | 7.3 | 7.5  | 8.4       | 8.1 | 8.2  |
| 23     | 6.6  | 6.3 | 6.4  | 7.5    | 7.3 | 7.4  | 8.9       | 8.2 | 8.6  |
| 24     | 6.7  | 6.4 | 6.5  | 7.7    | 7.5 | 7.6  | 8.7       | 7.8 | 8.5  |
| 25     | 6.8  | 6.4 | 6.6  | 7.8    | 7.5 | 7.7  | 9.1       | 8.5 | 8.9  |
| 26     | 6.6  | 6.0 | 6.3  | 7.9    | 7.6 | 7.7  | 9.1       | 8.9 | 9.0  |
| 27     | 6.4  | 6.1 | 6.3  | 7.7    | 7.6 | 7.6  | 8.9       | 8.7 | 8.8  |
| 28     | 6.3  | 6.1 | 6.2  | 7.6    | 7.4 | 7.6  | 9.1       | 8.7 | 8.8  |
| 29     | 6.5  | 6.0 | 6.2  | 7.5    | 7.4 | 7.4  | 9.5       | 8.7 | 9.1  |
| 30     | 6.2  | 6.0 | 6.1  | 7.8    | 7.5 | 7.7  | 9.3       | 9.2 | 9.2  |
| 31     | 6.7  | 6.0 | 6.4  | 8.0    | 7.8 | 7.9  | ---       | --- | ---  |
| MONTH  | ---  | --- | ---  | 8.7    | 6.7 | 7.8  | 9.5       | 7.6 | 8.6  |
| PERIOD | 9.5  | 4.5 | 7.7  |        |     |      |           |     |      |

## FORE RIVER BASIN

01064158 STROUDWATER RIVER AT PORTLAND, ME

LOCATION.--Lat 43°39'26", long 70°18'52", Cumberland County, Hydrologic Unit 01060001, 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 mi<sup>2</sup> (71.5 km<sup>2</sup>).

PERIOD OF RECORD.--May 23, 1975 to current year (seasonal records only).

GAGE.--Water-stage recorder. Altitude of gage is 20 ft (6.10 m) from topographic map.

REMARKS.--Records fair.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 2,650 ft<sup>3</sup>/s (75.0 m<sup>3</sup>/s) Apr. 2, 1976, gage height, 3.64 ft (1.109 m); minimum, 0.90 ft<sup>3</sup>/s (0.026 m<sup>3</sup>/s) Aug. 24, 1976, gage height, 0.94 ft or 0.287 m).

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 2,650 ft<sup>3</sup>/s (75.0 m<sup>3</sup>/s) Apr. 2, gage height, 3.64 ft (1.109 m); minimum, 2.6 ft<sup>3</sup>/s (0.074 m<sup>3</sup>/s) July 21, gage height, 1.26 ft (0.384 m).

## DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

| DAY   | OCT    | NOV   | DEC | JAN | FEB   | MAR | APR   | MAY  | JUN   | JUL   | AUG    | SEP   |
|-------|--------|-------|-----|-----|-------|-----|-------|------|-------|-------|--------|-------|
| 1     | 19     | 33    |     |     |       |     | 443   | 22   | 18    | 12    | 88     | 7.1   |
| 2     | 16     | 27    |     |     |       |     | 1370  | 97   | 18    | 15    | 63     | 5.7   |
| 3     | 14     | 27    |     |     |       |     | 107   | 67   | 16    | 13    | 29     | 5.7   |
| 4     | 12     | 28    |     |     |       |     | 100   | 51   | 15    | 11    | 20     | 5.2   |
| 5     | 11     | 37    |     |     |       |     | 71    | 34   | 13    | 9.8   | 15     | 5.7   |
| 6     | 9.4    | 31    |     |     |       |     | 56    | 29   | 11    | 8.8   | 11     | 8.3   |
| 7     | 8.6    | 25    |     |     |       |     | 49    | 29   | 9.7   | 7.8   | 7.1    | 9.7   |
| 8     | 7.6    | 24    |     |     |       |     | 44    | 34   | 11    | 11    | 7.1    | 6.8   |
| 9     | 6.8    | 44    |     |     |       |     | 39    | 29   | 9.7   | 17    | 87     | 5.2   |
| 10    | 5.7    | 39    |     |     |       |     | 35    | 25   | 7.9   | 13    | 905    | 4.0   |
| 11    | 4.6    | 126   |     |     |       |     | 35    | 22   | 7.4   | 11    | 105    | 3.6   |
| 12    | 7.9    | 97    |     |     |       |     | 32    | 30   | 7.1   | 13    | 37     | 3.6   |
| 13    | 48     | 129   |     |     |       |     | 31    | 48   | 6.8   | 10    | 25     | 3.6   |
| 14    | 33     | 409   |     |     |       |     | 31    | 51   | 14    | 12    | 20     | 3.5   |
| 15    | 27     | 207   |     |     |       |     | 28    | 44   | 16    | 10    | 24     | 3.5   |
| 16    | 22     | 76    |     |     |       |     | 27    | 34   | 11    | 8.6   | 38     | 3.5   |
| 17    | 18     | 51    |     |     |       |     | 27    | 27   | 8.3   | 7.2   | 26     | 3.6   |
| 18    | 74     | 39    |     |     |       | 29  | 27    | 54   | 7.4   | 6.0   | 18     | 4.6   |
| 19    | 235    |       |     |     |       | 33  | 24    | 271  | 7.1   | 4.3   | 13     | 7.1   |
| 20    | 78     |       |     |     |       | 35  | 22    | 219  | 6.8   | 2.9   | 10     | 9.2   |
| 21    | 126    |       |     |     |       | 108 | 22    | 102  | 7.9   | 3.0   | 7.1    | 6.6   |
| 22    | 56     |       |     |     |       | 344 | 22    | 67   | 14    | 4.0   | 6.3    | 5.2   |
| 23    | 37     |       |     |     |       | 92  | 25    | 44   | 12    | 3.8   | 5.7    | 4.1   |
| 24    | 31     |       |     |     |       | 76  | 22    | 34   | 7.4   | 36    | 5.2    | 4.0   |
| 25    | 27     |       |     |     |       | 108 | 22    | 29   | 6.3   | 26    | 4.9    | 4.1   |
| 26    | 49     |       |     |     |       | 133 | 39    | 28   | 6.8   | 13    | 4.3    | 3.9   |
| 27    | 56     |       |     |     |       | 133 | 42    | 25   | 7.1   | 8.8   | 4.1    | 9.2   |
| 28    | 35     |       |     |     |       | 269 | 32    | 24   | 7.1   | 7.4   | 4.3    | 22    |
| 29    | 31     |       |     |     |       | 180 | 27    | 22   | 6.6   | 5.2   | 7.0    | 19    |
| 30    | 33     |       |     |     | ----- | 119 | 24    | 21   | 6.0   | 11    | 17     | 15    |
| 31    | 44     | ----- |     |     | ----- | 102 | ----- | 17   | ----- | 73    | 12     | ----- |
| TOTAL | 1182.6 |       |     |     |       |     | 2875  | 1610 | 302.4 | 394.6 | 1626.1 | 202.3 |
| MEAN  | 38.1   |       |     |     |       |     | 95.8  | 51.9 | 10.1  | 12.7  | 52.5   | 6.74  |
| MAX   | 235    |       |     |     |       |     | 1370  | 271  | 18    | 73    | 905    | 22    |
| MIN   | 4.6    |       |     |     |       |     | 22    | 17   | 6.0   | 2.9   | 4.1    | 3.5   |
| CFSM  | 1.38   |       |     |     |       |     | 3.47  | 1.9  | .36   | .46   | 1.90   | .24   |
| IN.   | 1.59   |       |     |     |       |     | 3.88  | 2.17 | .41   | .53   | 2.19   | .27   |

## 01064500 SACO RIVER NEAR CONWAY, NH

LOCATION.--Lat 43°59'27", long 71°05'29", Carroll County, Hydrologic Unit 01060002, on left bank at Odell Falls 1.8 mi (2.9 km) downstream from Swift River and Conway.

DRAINAGE AREA.--386 mi<sup>2</sup> (1,000 km<sup>2</sup>).

PERIOD OF RECORD.--August 1903 to December 1909, January 1910 to June 1912 (gage heights only), February 1929 to current year. Monthly discharge only for some periods, published in WSP 1301. Prior to 1912, published as "at Center Conway."

REVISED RECORDS.--WSP 756: Drainage area. WSP 1301: 1908-9.

GAGE.--Water-stage recorder. Datum of gage is 418.19 ft (127.464 m) 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.

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

AVERAGE DISCHARGE.--53 years (water years 1904-9, 1930-76), 926 ft<sup>3</sup>/s (26.22 m<sup>3</sup>/s), 32.58 in/yr (828 mm/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 43,900 ft<sup>3</sup>/s (1,240 m<sup>3</sup>/s) Mar. 27, 1953, gage height, 17.20 ft (5.243 m), from rating curve extended above 23,000 ft<sup>3</sup>/s (651 m<sup>3</sup>/s) on basis of slope-area measurement of peak flow; minimum, 40 ft<sup>3</sup>/s (1.13 m<sup>3</sup>/s) Mar. 16, 1932, gage height, 1.61 ft (0.491 m).

EXTREMES FOR CURRENT YEAR.--Peak discharges above base of 8,700 ft<sup>3</sup>/s (246 m<sup>3</sup>/s) and maximums (\*):

| Date   | Time | Discharge<br>(ft <sup>3</sup> /s) (m <sup>3</sup> /s) | Gage height<br>(ft) (m) | Date    | Time | Discharge<br>(ft <sup>3</sup> /s) (m <sup>3</sup> /s) | Gage height<br>(ft) (m) |
|--------|------|-------------------------------------------------------|-------------------------|---------|------|-------------------------------------------------------|-------------------------|
| Apr. 2 | 0300 | *17,900 507                                           | *10.77 3.283            | Aug. 10 | 2000 | 10,500 297                                            | 8.58 2.615              |

Minimum discharge, 218 ft<sup>3</sup>/s (6.17 m<sup>3</sup>/s) July 23, gage height, 2.41 ft (0.735 m).

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976  
MEAN VALUES

| DAY   | OCT   | NOV   | DEC   | JAN   | FEB   | MAR   | APR   | MAY   | JUN   | JUL   | AUG   | SEP   |
|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 1     | 549   | 643   | 1110  | 470   | 1270  | 1120  | 6320  | 1350  | 1120  | 1800  | 585   | 363   |
| 2     | 478   | 616   | 1330  | 435   | 1760  | 1060  | 12000 | 5470  | 961   | 1200  | 1100  | 537   |
| 3     | 425   | 586   | 1040  | 415   | 2450  | 1070  | 6510  | 3570  | 836   | 760   | 615   | 475   |
| 4     | 388   | 618   | 885   | 395   | 1780  | 1020  | 4780  | 3300  | 782   | 570   | 448   | 387   |
| 5     | 357   | 614   | 746   | 385   | 1380  | 968   | 3670  | 2320  | 708   | 450   | 380   | 356   |
| 6     | 339   | 535   | 804   | 375   | 1250  | 2610  | 3060  | 1920  | 654   | 370   | 336   | 330   |
| 7     | 327   | 505   | 810   | 370   | 1130  | 1780  | 2890  | 2390  | 628   | 320   | 321   | 307   |
| 8     | 312   | 515   | 683   | 360   | 1030  | 1350  | 2600  | 2530  | 620   | 370   | 363   | 290   |
| 9     | 298   | 667   | 744   | 355   | 940   | 1130  | 2270  | 1940  | 559   | 480   | 389   | 282   |
| 10    | 289   | 617   | 892   | 350   | 870   | 1120  | 2070  | 1630  | 512   | 390   | 4210  | 282   |
| 11    | 289   | 1420  | 1270  | 345   | 790   | 989   | 2070  | 1480  | 481   | 320   | 3980  | 990   |
| 12    | 1160  | 1040  | 881   | 350   | 730   | 866   | 1790  | 2840  | 515   | 330   | 1550  | 693   |
| 13    | 1290  | 2360  | 783   | 355   | 680   | 891   | 1590  | 3170  | 484   | 360   | 1010  | 469   |
| 14    | 811   | 4050  | 700   | 370   | 630   | 873   | 1590  | 2030  | 438   | 350   | 808   | 389   |
| 15    | 648   | 3270  | 670   | 375   | 590   | 794   | 1710  | 1830  | 413   | 330   | 1530  | 348   |
| 16    | 596   | 1990  | 615   | 360   | 570   | 719   | 2690  | 1580  | 385   | 312   | 5920  | 330   |
| 17    | 590   | 1550  | 580   | 345   | 540   | 661   | 4850  | 1430  | 491   | 310   | 2450  | 322   |
| 18    | 1550  | 1320  | 540   | 340   | 530   | 775   | 5290  | 1420  | 502   | 299   | 1410  | 341   |
| 19    | 2170  | 1180  | 490   | 335   | 520   | 687   | 4640  | 3200  | 405   | 274   | 1070  | 370   |
| 20    | 2870  | 1070  | 425   | 330   | 575   | 817   | 3980  | 4580  | 380   | 258   | 881   | 331   |
| 21    | 3230  | 1130  | 495   | 325   | 580   | 1720  | 2850  | 3130  | 580   | 244   | 2150  | 308   |
| 22    | 1770  | 2690  | 550   | 320   | 630   | 3380  | 2380  | 2910  | 810   | 235   | 659   | 287   |
| 23    | 1310  | 1690  | 515   | 315   | 1980  | 1840  | 3160  | 2350  | 520   | 224   | 582   | 277   |
| 24    | 1090  | 1340  | 460   | 310   | 1290  | 1520  | 2270  | 1970  | 350   | 424   | 527   | 272   |
| 25    | 955   | 1190  | 430   | 310   | 1100  | 1690  | 1810  | 1720  | 600   | 548   | 480   | 260   |
| 26    | 1210  | 1060  | 470   | 310   | 964   | 2110  | 1850  | 1520  | 1020  | 346   | 442   | 260   |
| 27    | 1020  | 1010  | 580   | 310   | 1080  | 2570  | 1730  | 1400  | 700   | 291   | 425   | 1180  |
| 28    | 875   | 981   | 670   | 1300  | 1400  | 5950  | 1630  | 1260  | 500   | 293   | 422   | 944   |
| 29    | 797   | 894   | 590   | 2750  | 1300  | 4480  | 1550  | 1120  | 440   | 274   | 420   | 594   |
| 30    | 759   | 836   | 540   | 2020  | ---   | 3620  | 1460  | 1010  | 460   | 315   | 460   | 478   |
| 31    | 693   | ---   | 495   | 1500  | ---   | 3420  | ---   | 937   | ---   | 560   | 389   | ---   |
| TOTAL | 29445 | 37987 | 21793 | 17185 | 30339 | 53600 | 97060 | 69307 | 17854 | 13607 | 36312 | 13052 |
| MEAN  | 950   | 1266  | 703   | 554   | 1046  | 1729  | 3235  | 2236  | 595   | 439   | 1171  | 435   |
| MAX   | 3230  | 4050  | 1330  | 2750  | 2450  | 5950  | 12000 | 5470  | 1120  | 1800  | 5920  | 1180  |
| MIN   | 289   | 505   | 425   | 310   | 520   | 661   | 1460  | 937   | 350   | 224   | 321   | 260   |
| CFSM  | 2.46  | 3.28  | 1.82  | 1.44  | 2.71  | 4.48  | 8.38  | 5.79  | 1.54  | 1.14  | 3.03  | 1.13  |
| IN.   | 2.84  | 3.66  | 2.10  | 1.66  | 2.92  | 5.17  | 9.35  | 6.68  | 1.72  | 1.31  | 3.50  | 1.26  |

|             |       |        |      |      |     |       |     |     |      |      |    |       |
|-------------|-------|--------|------|------|-----|-------|-----|-----|------|------|----|-------|
| CAL YR 1975 | TOTAL | 323231 | MEAN | 886  | MAX | 4740  | MIN | 130 | CFSM | 2.30 | IN | 31.15 |
| WTR YR 1976 | TOTAL | 437541 | MEAN | 1195 | MAX | 12000 | MIN | 224 | CFSM | 3.10 | IN | 42.17 |

## SACO RIVER BASIN

01065000 OSSIPEE RIVER AT EFFINGHAM FALLS, NH

LOCATION.--Lat 43°47'44", long 71°03'36", Carroll County, Hydrologic Unit 01060002, on left bank 0.3 mi (0.5 km) upstream from bridge on State Highway 153 at Effingham Falls, 0.3 mi (0.5 km) downstream from outlet of Ossipee Lake, and 4 mi (6 km) northwest of Effingham.

DRAINAGE AREA.--330 mi<sup>2</sup> (855 km<sup>2</sup>).

PERIOD OF RECORD.--Discharge: September 1942 to current year.  
Chemical analyses: Water year 1955 (partial-record station).

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 ft<sup>3</sup> (40,500,000 m<sup>3</sup>). Several observations of water temperature were made during the year.

AVERAGE DISCHARGE.--34 years, 690 ft<sup>3</sup>/s (19.54 m<sup>3</sup>/s), 28.39 in/yr (721 mm/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 11,700 ft<sup>3</sup>/s (331 m<sup>3</sup>/s) Mar. 28, 1953, gage height, 11.64 ft (3.548 m); minimum, about 5 ft<sup>3</sup>/s (0.14 m<sup>3</sup>/s) during part of several days Nov. 4-20, 1968 (caused by unusual regulation); minimum daily, 11 ft<sup>3</sup>/s (0.31 m<sup>3</sup>/s) Oct. 10, 1944.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 4,530 ft<sup>3</sup>/s (128 m<sup>3</sup>/s) Apr. 3, gage height, 8.79 ft (2.679 m); minimum, 153 ft<sup>3</sup>/s (4.33 m<sup>3</sup>/s) June 15, 16, 18, 19; minimum daily, 154 ft<sup>3</sup>/s (4.36 m<sup>3</sup>/s) June 16.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976  
MEAN VALUES

| DAY   | OCT   | NOV   | DEC   | JAN   | FEB   | MAR   | APR   | MAY   | JUN  | JUL  | AUG   | SEP  |
|-------|-------|-------|-------|-------|-------|-------|-------|-------|------|------|-------|------|
| 1     | 783   | 484   | 1080  | 640   | 675   | 944   | 2760  | 1030  | 598  | 283  | 933   | 170  |
| 2     | 767   | 483   | 742   | 533   | 803   | 946   | 3730  | 1120  | 503  | 384  | 918   | 169  |
| 3     | 748   | 483   | 753   | 426   | 955   | 943   | 4470  | 1460  | 512  | 429  | 914   | 170  |
| 4     | 731   | 483   | 720   | 427   | 1060  | 909   | 4370  | 1600  | 558  | 417  | 647   | 169  |
| 5     | 710   | 481   | 858   | 427   | 1270  | 919   | 4000  | 1570  | 619  | 403  | 397   | 170  |
| 6     | 692   | 479   | 935   | 425   | 1430  | 925   | 3560  | 1490  | 611  | 326  | 264   | 169  |
| 7     | 667   | 477   | 921   | 425   | 1310  | 928   | 3210  | 1410  | 606  | 285  | 180   | 169  |
| 8     | 648   | 478   | 658   | 425   | 1210  | 892   | 2900  | 1400  | 602  | 287  | 181   | 167  |
| 9     | 627   | 479   | 471   | 423   | 1130  | 941   | 2610  | 1350  | 597  | 212  | 400   | 169  |
| 10    | 535   | 482   | 601   | 422   | 1130  | 932   | 2360  | 1280  | 591  | 173  | 866   | 174  |
| 11    | 476   | 492   | 703   | 420   | 1150  | 920   | 2150  | 1210  | 387  | 175  | 983   | 174  |
| 12    | 479   | 524   | 707   | 420   | 1110  | 898   | 1970  | 1170  | 280  | 195  | 992   | 172  |
| 13    | 488   | 876   | 708   | 420   | 1080  | 887   | 1780  | 1230  | 302  | 231  | 974   | 171  |
| 14    | 554   | 1400  | 706   | 421   | 1020  | 869   | 1640  | 831   | 237  | 258  | 953   | 174  |
| 15    | 591   | 1620  | 702   | 420   | 1020  | 851   | 1520  | 554   | 189  | 260  | 931   | 180  |
| 16    | 585   | 1630  | 700   | 420   | 962   | 826   | 1150  | 598   | 154  | 310  | 929   | 233  |
| 17    | 577   | 1540  | 704   | 421   | 944   | 810   | 997   | 912   | 155  | 336  | 946   | 253  |
| 18    | 580   | 1430  | 700   | 418   | 954   | 783   | 1100  | 1090  | 155  | 324  | 938   | 252  |
| 19    | 602   | 1320  | 694   | 417   | 940   | 762   | 1140  | 1080  | 156  | 244  | 921   | 251  |
| 20    | 630   | 1230  | 677   | 414   | 918   | 744   | 1140  | 1240  | 159  | 198  | 647   | 249  |
| 21    | 678   | 1180  | 676   | 414   | 901   | 750   | 1090  | 1390  | 157  | 195  | 487   | 247  |
| 22    | 706   | 1270  | 669   | 413   | 894   | 818   | 1050  | 1440  | 157  | 192  | 485   | 246  |
| 23    | 717   | 1340  | 677   | 408   | 902   | 878   | 1070  | 1430  | 159  | 188  | 302   | 244  |
| 24    | 720   | 1330  | 672   | 407   | 917   | 909   | 1060  | 1370  | 162  | 203  | 169   | 243  |
| 25    | 721   | 1280  | 662   | 404   | 921   | 933   | 1040  | 1310  | 166  | 225  | 169   | 242  |
| 26    | 723   | 1230  | 654   | 404   | 918   | 968   | 1050  | 1140  | 169  | 224  | 169   | 240  |
| 27    | 726   | 1180  | 648   | 409   | 914   | 1030  | 1100  | 1020  | 177  | 216  | 170   | 243  |
| 28    | 725   | 1150  | 654   | 432   | 923   | 1150  | 1130  | 861   | 240  | 217  | 171   | 247  |
| 29    | 724   | 1120  | 651   | 467   | 940   | 2100  | 1110  | 755   | 271  | 212  | 171   | 249  |
| 30    | 721   | 1100  | 647   | 498   | ---   | 2720  | 1080  | 744   | 269  | 352  | 171   | 248  |
| 31    | 582   | ---   | 638   | 586   | ---   | 2730  | ---   | 739   | ---  | 735  | 170   | ---  |
| TOTAL | 20213 | 29051 | 21988 | 13606 | 29301 | 32615 | 59337 | 35824 | 9898 | 8689 | 17548 | 6254 |
| MEAN  | 652   | 968   | 709   | 439   | 1010  | 1052  | 1978  | 1156  | 330  | 280  | 566   | 208  |
| MAX   | 783   | 1630  | 1080  | 640   | 1430  | 2730  | 4470  | 1600  | 619  | 735  | 992   | 253  |
| MIN   | 476   | 477   | 471   | 404   | 675   | 744   | 997   | 554   | 154  | 173  | 169   | 167  |

CAL YR 1975 TOTAL 239843 MEAN 657 MAX 2540 MIN 165  
WTR YR 1976 TOTAL 284324 MEAN 777 MAX 4470 MIN 154

## 01065500 OSSIPEE RIVER AT CORNISH, ME

LOCATION.--Lat 43°48'26", long 70°47'55", Oxford County, Hydrologic Unit 01060002, on left bank 100 ft (30 m) downstream from highway bridge in Cornish and 1.3 mi (2.1 km) upstream from mouth.

DRAINAGE AREA.--453 mi<sup>2</sup> (1,173 km<sup>2</sup>).

PERIOD OF RECORD.--July 1916 to current year.

REVISED RECORDS.--WSP 756: Drainage area. WSP 1301: 1927-29(M).

GAGE.--Water-stage recorder. Datum of gage is 276.1 ft (84.16 m) 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.

REMARKS.--Records good except those for winter period, which are fair. Flow partly regulated by mill at Kezar Falls and by Ossipee and Silver Lakes, and Pine River, Bickford, and Colcord Ponds, combined capacity, 1,600,000,000 ft<sup>3</sup> (45,300,000 m<sup>3</sup>).

AVERAGE DISCHARGE.--60 years, 872 ft<sup>3</sup>/s (24.70 m<sup>3</sup>/s), 26.14 in/yr (664 mm/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 17,200 ft<sup>3</sup>/s (487 m<sup>3</sup>/s) Mar. 21, 1936, gage height, 16.32 ft (4.974 m, present datum), from rating curve extended above 7,500 ft<sup>3</sup>/s (212 m<sup>3</sup>/s); minimum daily, 65 ft<sup>3</sup>/s (1.84 m<sup>3</sup>/s) Sept. 8, 1929.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 6,200 ft<sup>3</sup>/s (176 m<sup>3</sup>/s) Apr. 3, gage height, 8.50 ft (2.591 m); minimum daily, 187 ft<sup>3</sup>/s (5.30 m<sup>3</sup>/s) June 19.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976  
MEAN VALUES

| DAY         | OCT   | NOV    | DEC   | JAN   | FEB   | MAR   | APR   | MAY   | JUN   | JUL   | AUG   | SEP   |
|-------------|-------|--------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 1           | 869   | 605    | 1420  | 810   | 1020  | 1320  | 4040  | 1350  | 929   | 432   | 1230  | 196   |
| 2           | 845   | 590    | 1150  | 760   | 1250  | 1320  | 5740  | 1600  | 724   | 432   | 1160  | 199   |
| 3           | 818   | 585    | 1070  | 710   | 1470  | 1390  | 6070  | 1830  | 691   | 526   | 1070  | 199   |
| 4           | 795   | 590    | 991   | 655   | 1610  | 1400  | 6000  | 2050  | 680   | 503   | 941   | 209   |
| 5           | 773   | 585    | 991   | 600   | 1900  | 1260  | 5370  | 1970  | 762   | 485   | 521   | 215   |
| 6           | 751   | 571    | 1180  | 595   | 2100  | 1370  | 4690  | 1860  | 751   | 445   | 454   | 209   |
| 7           | 724   | 566    | 1160  | 590   | 1700  | 1370  | 4140  | 1790  | 740   | 345   | 247   | 231   |
| 8           | 702   | 570    | 1020  | 585   | 1490  | 1280  | 3710  | 1790  | 729   | 334   | 244   | 228   |
| 9           | 680   | 575    | 665   | 585   | 1430  | 1300  | 3370  | 1720  | 713   | 318   | 260   | 218   |
| 10          | 640   | 580    | 801   | 585   | 1390  | 1250  | 3070  | 1630  | 702   | 209   | 1030  | 221   |
| 11          | 539   | 600    | 1050  | 590   | 1500  | 1220  | 2810  | 1530  | 635   | 199   | 1260  | 255   |
| 12          | 645   | 650    | 965   | 590   | 1470  | 1200  | 2590  | 1580  | 349   | 247   | 1170  | 235   |
| 13          | 645   | 960    | 923   | 590   | 1430  | 1190  | 2380  | 1640  | 381   | 300   | 1110  | 220   |
| 14          | 620   | 1800   | 911   | 585   | 1370  | 1170  | 2180  | 1440  | 369   | 322   | 1110  | 205   |
| 15          | 680   | 2270   | 911   | 580   | 1350  | 1140  | 2020  | 869   | 271   | 322   | 1110  | 206   |
| 16          | 670   | 2070   | 941   | 580   | 1300  | 1130  | 1800  | 857   | 234   | 315   | 1160  | 215   |
| 17          | 655   | 1860   | 905   | 580   | 1300  | 1100  | 1400  | 984   | 202   | 394   | 1060  | 281   |
| 18          | 779   | 1690   | 893   | 580   | 1320  | 1160  | 1460  | 1410  | 228   | 386   | 1080  | 296   |
| 19          | 869   | 1580   | 875   | 580   | 1400  | 1100  | 1510  | 1600  | 187   | 353   | 1040  | 285   |
| 20          | 923   | 1510   | 865   | 580   | 1420  | 1020  | 1490  | 1720  | 206   | 237   | 923   | 285   |
| 21          | 1040  | 1500   | 860   | 580   | 1400  | 1160  | 1430  | 1850  | 212   | 228   | 590   | 281   |
| 22          | 941   | 1920   | 850   | 575   | 1440  | 1420  | 1390  | 1860  | 199   | 221   | 571   | 274   |
| 23          | 893   | 1820   | 845   | 575   | 1480  | 1370  | 1440  | 1810  | 212   | 215   | 530   | 267   |
| 24          | 869   | 1720   | 840   | 575   | 1450  | 1370  | 1410  | 1730  | 206   | 253   | 247   | 267   |
| 25          | 869   | 1650   | 835   | 570   | 1390  | 1510  | 1370  | 1650  | 212   | 274   | 215   | 264   |
| 26          | 899   | 1570   | 830   | 570   | 1350  | 1660  | 1490  | 1540  | 221   | 260   | 202   | 267   |
| 27          | 875   | 1510   | 825   | 610   | 1320  | 1810  | 1530  | 1320  | 221   | 253   | 209   | 349   |
| 28          | 857   | 1490   | 820   | 740   | 1380  | 2350  | 1500  | 1210  | 234   | 244   | 209   | 341   |
| 29          | 845   | 1440   | 820   | 1100  | 1350  | 2840  | 1460  | 971   | 322   | 237   | 212   | 315   |
| 30          | 857   | 1390   | 815   | 1080  | ---   | 3660  | 1410  | 941   | 338   | 289   | 209   | 296   |
| 31          | 812   | ---    | 810   | 1030  | ---   | 3670  | ---   | 923   | ---   | 823   | 199   | ---   |
| TOTAL       | 24379 | 36817  | 28837 | 20315 | 41780 | 47510 | 80270 | 47025 | 12860 | 10401 | 21573 | 7529  |
| MEAN        | 786   | 1227   | 930   | 655   | 1441  | 1533  | 2676  | 1517  | 429   | 336   | 696   | 251   |
| MAX         | 1040  | 2270   | 1420  | 1100  | 2100  | 3670  | 6070  | 2050  | 929   | 823   | 1260  | 349   |
| MIN         | 539   | 566    | 665   | 570   | 1020  | 1020  | 1370  | 857   | 187   | 199   | 199   | 196   |
| CAL YR 1975 | TOTAL | 313236 | MEAN  | 858   | MAX   | 3190  | MIN   | 168   | CFSM  | 1.89  | IN    | 25.72 |
| WTR YR 1976 | TOTAL | 379296 | MEAN  | 1036  | MAX   | 6070  | MIN   | 187   | CFSM  | 2.29  | IN    | 31.15 |

## SACO RIVER BASIN

01066000 SACO RIVER AT CORNISH, ME  
(National stream-quality accounting network station)

LOCATION.--Lat 43°48'35", long 70°46'53", Cumberland County, Hydrologic Unit 01060002, on left bank 300 ft (90 m) upstream from highway bridge at Cornish and 0.4 mi (0.6 km) downstream from Ossipee River.

DRAINAGE AREA.--1,298 mi<sup>2</sup> (3,362 km<sup>2</sup>).

## WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--June 1916 to current year.

REVISED RECORDS.--WSP 1301: 1917-18(M), 1936(M).

GAGE.--Water-stage recorder. Datum of gage is 263.48 ft (80.309 m) above mean sea level. Prior to Oct. 30, 1919, nonrecording gage on bridge downstream at different datum.

REMARKS.--Records good except those for winter period, which are fair. Flow partly regulated by powerplants above station and by Ossipee, Silver, Conway, and Kezar Lakes, and Moose, Hancock, Pine River, Bickford, and Colcord Ponds, combined capacity, 3,400,000,000 ft<sup>3</sup> (96,000,000 m<sup>3</sup>).

AVERAGE DISCHARGE.--60 years, 2,701 ft<sup>3</sup>/s (76.49 m<sup>3</sup>/s), 28.26 in/yr (718 mm/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 45,000 ft<sup>3</sup>/s (1,270 m<sup>3</sup>/s) Mar. 21, 22, 1936, gage height, 21.90 ft (6.675 m), from floodmarks; minimum daily, 245 ft<sup>3</sup>/s (6.94 m<sup>3</sup>/s) Oct. 18, 1957.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 19,200 ft<sup>3</sup>/s (544 m<sup>3</sup>/s) Apr. 4, gage height, 12.01 ft (3.661 m); minimum daily, 765 ft<sup>3</sup>/s (21.7 m<sup>3</sup>/s) July 23, 24.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976  
MEAN VALUES

| DAY   | OCT   | NOV    | DEC   | JAN   | FEB    | MAR    | APR    | MAY    | JUN   | JUL   | AUG   | SEP   |
|-------|-------|--------|-------|-------|--------|--------|--------|--------|-------|-------|-------|-------|
| 1     | 2410  | 2380   | 3630  | 2500  | 4050   | 4100   | 11200  | 4540   | 3480  | 2260  | 2220  | 1240  |
| 2     | 2240  | 2250   | 3430  | 2420  | 4400   | 3920   | 13900  | 4850   | 3180  | 2190  | 2180  | 1160  |
| 3     | 2090  | 2040   | 3300  | 2360  | 4900   | 3920   | 16400  | 5170   | 3010  | 2860  | 2270  | 1140  |
| 4     | 1970  | 2030   | 3200  | 2320  | 5000   | 3720   | 18900  | 5750   | 2840  | 2990  | 2140  | 1160  |
| 5     | 1870  | 1960   | 2930  | 2280  | 5200   | 3660   | 18600  | 6020   | 2760  | 2730  | 1570  | 1140  |
| 6     | 1650  | 1840   | 3200  | 2200  | 5280   | 3890   | 16900  | 6120   | 2640  | 1960  | 1340  | 1070  |
| 7     | 1630  | 1820   | 3120  | 2030  | 5100   | 3830   | 15100  | 6060   | 2320  | 1600  | 1080  | 1030  |
| 8     | 1560  | 1780   | 2720  | 1930  | 4800   | 3850   | 13400  | 5980   | 2300  | 1260  | 1020  | 987   |
| 9     | 1500  | 1800   | 2410  | 1870  | 4600   | 3900   | 12000  | 5780   | 2210  | 1240  | 1010  | 929   |
| 10    | 1460  | 1790   | 2740  | 1780  | 4350   | 3840   | 10900  | 5570   | 2110  | 1060  | 1960  | 884   |
| 11    | 1350  | 2050   | 3040  | 1720  | 4200   | 3650   | 9980   | 5280   | 1900  | 1020  | 3020  | 931   |
| 12    | 1550  | 2160   | 2930  | 1680  | 4000   | 3490   | 9020   | 5250   | 1560  | 1100  | 3650  | 994   |
| 13    | 1750  | 2840   | 2760  | 1700  | 3900   | 3380   | 8220   | 5260   | 1500  | 1190  | 3660  | 1130  |
| 14    | 2110  | 4170   | 2700  | 1700  | 3750   | 3300   | 7430   | 5060   | 1460  | 1160  | 3670  | 1080  |
| 15    | 2070  | 4620   | 2730  | 1650  | 3650   | 3120   | 6820   | 4650   | 1310  | 1110  | 3570  | 1030  |
| 16    | 2090  | 4850   | 2690  | 1600  | 3550   | 3070   | 6200   | 4670   | 1220  | 1050  | 3750  | 982   |
| 17    | 2030  | 4970   | 2610  | 1550  | 3400   | 2770   | 5490   | 4690   | 1150  | 1090  | 4120  | 1000  |
| 18    | 2190  | 4860   | 2610  | 1510  | 3400   | 3030   | 5510   | 4970   | 1230  | 1050  | 4310  | 988   |
| 19    | 2430  | 4650   | 2210  | 1540  | 3450   | 2820   | 5780   | 5340   | 1140  | 986   | 4460  | 953   |
| 20    | 2900  | 4340   | 2180  | 1560  | 3500   | 2780   | 6210   | 5460   | 1130  | 842   | 4370  | 943   |
| 21    | 3450  | 4240   | 2170  | 1580  | 3550   | 3080   | 6410   | 5860   | 1070  | 805   | 3820  | 917   |
| 22    | 3660  | 4940   | 2080  | 1550  | 3600   | 3670   | 6520   | 6270   | 1010  | 795   | 3530  | 881   |
| 23    | 3750  | 4780   | 2010  | 1540  | 3700   | 3930   | 6530   | 6460   | 1040  | 765   | 3130  | 854   |
| 24    | 3700  | 4620   | 1980  | 1520  | 3770   | 4270   | 6280   | 6500   | 1120  | 765   | 2560  | 809   |
| 25    | 3530  | 4590   | 2070  | 1500  | 3850   | 4530   | 6010   | 6170   | 917   | 793   | 2270  | 779   |
| 26    | 3440  | 4360   | 2230  | 1520  | 3900   | 4940   | 5890   | 5690   | 1040  | 911   | 2050  | 780   |
| 27    | 3260  | 4210   | 2320  | 1700  | 3980   | 5330   | 5710   | 5190   | 1480  | 894   | 1680  | 945   |
| 28    | 3160  | 4080   | 2370  | 2000  | 4030   | 6560   | 5390   | 4730   | 1780  | 853   | 1610  | 1120  |
| 29    | 2990  | 3900   | 2450  | 2700  | 4100   | 7480   | 5020   | 4280   | 1660  | 815   | 1520  | 1400  |
| 30    | 2880  | 3730   | 2470  | 3890  | ---    | 9100   | 4780   | 4010   | 1690  | 853   | 1490  | 1270  |
| 31    | 2670  | ---    | 4430  | 3950  | ---    | 9860   | ---    | 3760   | ---   | 1540  | 1300  | ---   |
| TOTAL | 75350 | 102650 | 83720 | 61350 | 118960 | 132790 | 276500 | 165390 | 53257 | 40537 | 80330 | 30526 |
| MEAN  | 2431  | 3422   | 2701  | 1979  | 4102   | 4284   | 9217   | 5335   | 1775  | 1308  | 2591  | 1018  |
| MAX   | 3750  | 4970   | 4430  | 3950  | 5280   | 9860   | 18900  | 6500   | 3480  | 2990  | 4460  | 1400  |
| MIN   | 1350  | 1780   | 1980  | 1500  | 3400   | 2770   | 4780   | 3760   | 917   | 765   | 1010  | 779   |

CAL YR 1975 TOTAL 956042 MEAN 2619 MAX 9150 MIN 351 CFSM 2.02 IN 27.40  
WTR YR 1976 TOTAL 1221360 MEAN 3337 MAX 18900 MIN 765 CFSM 2.57 IN 35.00



WATER-QUALITY RECORDS

WATER TEMPERATURES: Maximum, 27.5°C June 23, 24; minimum, 0.0°C on many days during winter periods.

| DATE      | TIME | INSTANTANEOUS DIS-CHARGE (CFS) | SPE-CIFIC CON-DUCT-ANCE (MICHO-MMOS) | PH (UNITS) | TEMPER-ATURE (DEG C) | TUR-BID-ITY (JTU) | DIS-SOLVED OXYGEN (MG/L) | PER-CENT SATUR-ATION | FECAL COLI-FORM (COL. PER 100 ML) | STREP-TOCOCCI (COL-ONIES PER 100 ML) | HARD-NESS (CA+MG) (MG/L) | NON-CAR-BONATE HARD-NESS (MG/L) |
|-----------|------|--------------------------------|--------------------------------------|------------|----------------------|-------------------|--------------------------|----------------------|-----------------------------------|--------------------------------------|--------------------------|---------------------------------|
| OCT 28... | 1100 | 3150                           | 32                                   | 6.6        | 10.0                 | --                | 12.0                     | 106                  | 89                                | 810                                  | --                       | --                              |
| NOV 18... | 1200 | 4970                           | 30                                   | 6.3        | 5.0                  | 1                 | 13.0                     | 102                  | 22                                | 15                                   | 5                        | 2                               |
| DEC 24... | 1030 | 2010                           | 40                                   | 6.6        | .0                   | --                | 12.8                     | 88                   | 15                                | 85                                   | --                       | --                              |
| JAN 20... | 1100 | 1560                           | 42                                   | 6.6        | .0                   | --                | 12.0                     | 82                   | 82                                | 84                                   | --                       | --                              |
| FEB 23... | 1200 | 3700                           | 40                                   | 6.6        | .5                   | 2                 | 13.6                     | 94                   | 825                               | 9                                    | 10                       | 2                               |
| MAR 29... | 1300 | 7180                           | 30                                   | 6.3        | 4.0                  | --                | 13.6                     | 103                  | 86                                | 9                                    | --                       | --                              |
| APR 29... | 1200 | 5100                           | 32                                   | 6.6        | 9.0                  | --                | 11.4                     | 98                   | 83                                | 81                                   | --                       | --                              |
| MAY 27... | 1300 | 5140                           | 32                                   | 6.5        | 12.5                 | 1                 | 9.4                      | 88                   | 83                                | 85                                   | 10                       | 0                               |
| JUL 07... | 1530 | 1360                           | 36                                   | 6.8        | 24.5                 | --                | 7.9                      | 94                   | 23                                | 19                                   | --                       | --                              |
| 30...     | 1430 | 848                            | 37                                   | 6.7        | 19.5                 | --                | 7.5                      | 81                   | 70                                | 30                                   | --                       | --                              |
| AUG 27... | 1500 | 1320                           | 57                                   | 6.7        | 17.5                 | 1                 | 5.2                      | 54                   | 22                                | 10                                   | 10                       | 0                               |
| SEP 28... | 1430 | 1170                           | 44                                   | 6.8        | 13.5                 | --                | 10.2                     | 97                   | 20                                | 14                                   | --                       | --                              |

[illegible]

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

[illegible]

## SACO RIVER BASIN

01066000 SACO RIVER AT CORNISH, ME--Continued

## CHEMICAL ANALYSES, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

| DATE      | DIS-SOLVED<br>COPPER<br>(CU)<br>(UG/L) | TOTAL<br>IRON<br>(FE)<br>(UG/L) | DIS-SOLVED<br>IRON<br>(FE)<br>(UG/L) | TOTAL<br>LEAD<br>(PB)<br>(UG/L) | SUS-PENDED<br>LEAD<br>(PB)<br>(UG/L) | DIS-SOLVED<br>LEAD<br>(PB)<br>(UG/L) | TOTAL<br>MANGANESE<br>(MN)<br>(UG/L) | SUS-PENDED<br>MANGANESE<br>(MN)<br>(UG/L) | DIS-SOLVED<br>MANGANESE<br>(MN)<br>(UG/L) | TOTAL<br>MERCURY<br>(HG)<br>(UG/L) | SUS-PENDED<br>MERCURY<br>(HG)<br>(UG/L) | DIS-SOLVED<br>MERCURY<br>(HG)<br>(UG/L) |
|-----------|----------------------------------------|---------------------------------|--------------------------------------|---------------------------------|--------------------------------------|--------------------------------------|--------------------------------------|-------------------------------------------|-------------------------------------------|------------------------------------|-----------------------------------------|-----------------------------------------|
| OCT 28... | --                                     | --                              | --                                   | --                              | --                                   | --                                   | --                                   | --                                        | --                                        | --                                 | --                                      | --                                      |
| NOV 18... | 0                                      | 240                             | 60                                   | 72                              | 67                                   | 5                                    | 20                                   | 0                                         | 20                                        | <.5                                | .0                                      | <.5                                     |
| DEC 24... | --                                     | --                              | --                                   | --                              | --                                   | --                                   | --                                   | --                                        | --                                        | --                                 | --                                      | --                                      |
| JAN 20... | --                                     | --                              | --                                   | --                              | --                                   | --                                   | --                                   | --                                        | --                                        | --                                 | --                                      | --                                      |
| FEB 23... | 10                                     | 140                             | 70                                   | 11                              | 5                                    | 6                                    | 10                                   | 0                                         | 10                                        | <.5                                | .0                                      | <.5                                     |
| MAR 29... | --                                     | --                              | --                                   | --                              | --                                   | --                                   | --                                   | --                                        | --                                        | --                                 | --                                      | --                                      |
| APR 29... | --                                     | --                              | --                                   | --                              | --                                   | --                                   | --                                   | --                                        | --                                        | --                                 | --                                      | --                                      |
| MAY 27... | 0                                      | 250                             | 110                                  | 14                              | 3                                    | 11                                   | 10                                   | 0                                         | 10                                        | <.5                                | .0                                      | <.5                                     |
| JUL 07... | --                                     | --                              | --                                   | --                              | --                                   | --                                   | --                                   | --                                        | --                                        | --                                 | --                                      | --                                      |
| AUG 30... | --                                     | --                              | --                                   | --                              | --                                   | --                                   | --                                   | --                                        | --                                        | --                                 | --                                      | --                                      |
| SEP 27... | 10                                     | 380                             | 170                                  | 140                             | 140                                  | 5                                    | 20                                   | 10                                        | 10                                        | <.5                                | .0                                      | <.5                                     |
| SEP 28... | --                                     | --                              | --                                   | --                              | --                                   | --                                   | --                                   | --                                        | --                                        | --                                 | --                                      | --                                      |

| DATE      | TOTAL<br>SELENIUM<br>(SE)<br>(UG/L) | SUS-PENDED<br>SELF-<br>SELENIUM<br>(SE)<br>(UG/L) | DIS-SOLVED<br>SELENIUM<br>(SE)<br>(UG/L) | TOTAL<br>ZINC<br>(ZN)<br>(UG/L) | SUS-PENDED<br>ZINC<br>(ZN)<br>(UG/L) | DIS-SOLVED<br>ZINC<br>(ZN)<br>(UG/L) | TOTAL<br>ORGANIC<br>CARBON<br>(C)<br>(MG/L) | SUS-PENDED<br>SEDI-MENT<br>(MG/L) | SUS-PENDED<br>SEDI-MENT<br>DIS-CHARGE<br>(T/DAY) |
|-----------|-------------------------------------|---------------------------------------------------|------------------------------------------|---------------------------------|--------------------------------------|--------------------------------------|---------------------------------------------|-----------------------------------|--------------------------------------------------|
| OCT 28... | --                                  | --                                                | --                                       | --                              | --                                   | --                                   | --                                          | 6                                 | 51                                               |
| NOV 18... | 0                                   | 0                                                 | 0                                        | 10                              | 0                                    | 10                                   | 5.0                                         | 7                                 | 92                                               |
| DEC 24... | --                                  | --                                                | --                                       | --                              | --                                   | --                                   | --                                          | 1                                 | 5.4                                              |
| JAN 20... | --                                  | --                                                | --                                       | --                              | --                                   | --                                   | --                                          | 7                                 | 29                                               |
| FEB 23... | 0                                   | 0                                                 | 0                                        | 0                               | 0                                    | 10                                   | 3.5                                         | 6                                 | 60                                               |
| MAR 29... | --                                  | --                                                | --                                       | --                              | --                                   | --                                   | --                                          | 40                                | 775                                              |
| APR 29... | --                                  | --                                                | --                                       | --                              | --                                   | --                                   | --                                          | 5                                 | 69                                               |
| MAY 27... | 0                                   | 0                                                 | 0                                        | 10                              | 10                                   | 0                                    | 7.6                                         | 19                                | 264                                              |
| JUL 07... | --                                  | --                                                | --                                       | --                              | --                                   | --                                   | --                                          | 3                                 | 11                                               |
| AUG 30... | --                                  | --                                                | --                                       | --                              | --                                   | --                                   | --                                          | 2                                 | 4.6                                              |
| SEP 27... | 0                                   | 0                                                 | 3                                        | 10                              | 0                                    | 10                                   | 5.3                                         | 3                                 | 11                                               |
| SEP 28... | --                                  | --                                                | --                                       | --                              | --                                   | --                                   | --                                          | 1                                 | 3.2                                              |

## QUALITATIVE AND QUANTITATIVE ANALYSES OF BIOLOGICAL DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

| PERIPHYTON |                                 |                 |     |                               |                               |                             |                      |
|------------|---------------------------------|-----------------|-----|-------------------------------|-------------------------------|-----------------------------|----------------------|
| DATE       | LENGTH OF<br>EXPOSURE<br>(DAYS) | BIOMASS(G/SQ M) |     | CHLOROPHYLL<br>A<br>(MG/SQ M) | CHLOROPHYLL<br>B<br>(MG/SQ M) | BIOMASS<br>PIGMENT<br>RATIO | SAMPLING<br>METHOD   |
| JUL 30     | 23                              | 2.7             | 2.1 | 1.9                           | 0.1                           | 330                         | ARTIFICIAL SUBSTRATE |
| AUG 27     | 28                              | 2.3             | 1.0 | 1.6                           | 0.0                           | 840                         | ARTIFICIAL SUBSTRATE |
| SEP 28     | 32                              | 2.2             | 0.9 | 2.8                           | 0.2                           | 440                         | ARTIFICIAL SUBSTRATE |

01066000 SACO RIVER AT CORNISH, ME--Continued

SPECIFIC CONDUCTANCE (MICROMHOS/C4 AT 25 DEG. C), WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

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

## 01066000 SACO RIVER AT CORNISH, ME--Continued

SPECIFIC CONDUCTANCE (MICROMHOS/CM AT 25 DEG. C), WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

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

TEMPERATURE (DEG. C) OF WATER, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

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

## TEMPERATURE (DEG. C) OF WATER, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

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



QUALITATIVE AND ASSOCIATED QUANTITATIVE ANALYSES OF BIOLOGICAL DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

| DATE   | TIME | ORGANISM            | COUNT<br>(CELLS/ML) | PERCENT<br>OF TOTAL | SAMPLING<br>METHOD |
|--------|------|---------------------|---------------------|---------------------|--------------------|
| Oct 28 | 1100 | CHLOROPHYTA         |                     |                     | DEPTH INTEGRATED   |
|        |      | ..CHLOROPHYCEAE     |                     |                     |                    |
|        |      | ...CHLOROCOCCALES   |                     |                     |                    |
|        |      | ...HYDRODICTYACEAE  |                     |                     |                    |
|        |      | ...PFDIASTRUM       |                     |                     |                    |
|        |      | CHRYSTOPHYTA        |                     |                     |                    |
|        |      | ..BACILLARIOPHYCEAE |                     |                     |                    |
|        |      | ..PENNACEAE         |                     |                     |                    |
|        |      | ...ACHNANTHACEAE    |                     |                     |                    |
|        |      | ...ACHNANTHES       | 38                  | 20                  |                    |
|        |      | ...CYMBELLACEAE     |                     |                     |                    |
|        |      | ...CYMBELLA         |                     |                     |                    |
|        |      | ...EUNOTIACEAE      |                     |                     |                    |
|        |      | ...EUNOTIA          | 12                  | 7                   |                    |
|        |      | ...NAVICULACEAE     |                     |                     |                    |
|        |      | ...CALONITIS        |                     |                     |                    |
|        |      | ...FRUSTULIA        |                     |                     |                    |
|        |      | ...NAVICULA         | 12                  | 7                   |                    |
|        |      | ...NEIDITUM         |                     |                     |                    |
|        |      | ...NITZSCHACEAE     |                     |                     |                    |
|        |      | ...NITZSCHIA        | 25                  | 13                  |                    |
|        |      | ...TABELLARIACEAE   |                     |                     |                    |
|        |      | ...TABELLARIA       | 25                  | 13                  |                    |
|        |      | ..CHRYSTOPHYCEAE    |                     |                     |                    |
|        |      | ..CHRYSOMONADALES   |                     |                     |                    |
|        |      | ...OCHROMONADACEAE  |                     |                     |                    |
|        |      | ...DINOBRYON        | 76                  | 40                  |                    |
|        |      | TOTAL               | 190                 |                     |                    |
| Nov 18 | 1200 | CHLOROPHYTA         |                     |                     | DEPTH INTEGRATED   |
|        |      | ..CHLOROPHYCEAE     |                     |                     |                    |
|        |      | ...CHLOROCOCCALES   |                     |                     |                    |
|        |      | ...OCCYSTACEAE      |                     |                     |                    |
|        |      | ...ANKISTRODESMIUS  | 16                  | 5                   |                    |
|        |      | CHRYSTOPHYTA        |                     |                     |                    |
|        |      | ..BACILLARIOPHYCEAE |                     |                     |                    |
|        |      | ..CENTRALES         |                     |                     |                    |
|        |      | ...COSCINODISACEAE  |                     |                     |                    |
|        |      | ...CYCLOTELLA       | 8                   | 2                   |                    |
|        |      | ...MELOSIKA         |                     |                     |                    |
|        |      | ..PENNACEAE         |                     |                     |                    |
|        |      | ...ACHNANTHACEAE    |                     |                     |                    |
|        |      | ...ACHNANTHES       | 32                  | 9                   |                    |
|        |      | ...CYMBELLACEAE     |                     |                     |                    |
|        |      | ...CYMBELLA         |                     |                     |                    |
|        |      | ...EPITHECIA        | 8                   | 2                   |                    |
|        |      | ...EUNOTIACEAE      |                     |                     |                    |
|        |      | ...EUNOTIA          | 16                  | 5                   |                    |
|        |      | ...GOMPHONEMACEAE   |                     |                     |                    |
|        |      | ...GOMPHOVEMA       | 16                  | 5                   |                    |
|        |      | ...NAVICULACEAE     |                     |                     |                    |
|        |      | ...NAVICULA         | 100                 | 30                  |                    |
|        |      | ...NITZSCHACEAE     |                     |                     |                    |
|        |      | ...NITZSCHIA        | 16                  | 5                   |                    |
|        |      | ...TABELLARIACEAE   |                     |                     |                    |
|        |      | ...TABELLARIA       | 24                  | 7                   |                    |
|        |      | ..CHRYSTOPHYCEAE    |                     |                     |                    |
|        |      | ..CHRYSOMONADALES   |                     |                     |                    |
|        |      | ...OCHROMONADACEAE  |                     |                     |                    |
|        |      | ...DINOBRYON        | 16                  | 5                   |                    |
|        |      | CYANOPHYTA          |                     |                     |                    |
|        |      | ..MYXOPHYCEAE       |                     |                     |                    |
|        |      | ...OSCILLATORIALES  |                     |                     |                    |
|        |      | ...OSCILLATORIACEAE |                     |                     |                    |
|        |      | ...OSCILLATORIA     | 95                  | 27                  |                    |
|        |      | TOTAL               | 350                 |                     |                    |

## QUALITATIVE AND ASSOCIATED QUANTITATIVE ANALYSES OF BIOLOGICAL DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

## PHYTOPLANKTON

| DATE   | TIME | ORGANISM           | COUNT<br>(CELLS/ML) | PERCENT<br>OF TOTAL | SAMPLING<br>METHOD |
|--------|------|--------------------|---------------------|---------------------|--------------------|
| Dec 24 | 1030 | CHRYSOPHYTA        |                     |                     | DEPTH INTEGRATED   |
|        |      | .BACILLARIOPHYCEAE |                     |                     |                    |
|        |      | ..CENTRALES        |                     |                     |                    |
|        |      | ...COSCINODISCEAE  |                     |                     |                    |
|        |      | ....MELOSIRA       |                     |                     |                    |
|        |      | ..PENNALES         |                     |                     |                    |
|        |      | ...CYMBELLACEAE    |                     |                     |                    |
|        |      | ....CYMBELLA       | 6                   | 7                   |                    |
|        |      | ...EUNOTIACEAE     |                     |                     |                    |
|        |      | ....EUNOTIA        | 6                   | 7                   |                    |
|        |      | ...GOMPHONEMACEAE  |                     |                     |                    |
|        |      | ....GOMPHONEMA     |                     |                     |                    |
|        |      | ...NAVICULACEAE    |                     |                     |                    |
|        |      | ....NAVICULA       | 29                  | 36                  |                    |
|        |      | ...NITZSCHACEAE    |                     |                     |                    |
|        |      | ....NITZSCHIA      | 6                   | 7                   |                    |
|        |      | ...TABELLARIACEAE  |                     |                     |                    |
|        |      | ....TABELLARIA     | 6                   | 7                   |                    |
|        |      | .CHRYSOPHYCEAE     |                     |                     |                    |
|        |      | ..CHRYSOMONADALES  |                     |                     |                    |
|        |      | ...OCHROMONADACEAE |                     |                     |                    |
|        |      | ....DINOBRYON      | 29                  | 36                  |                    |
|        |      | TOTAL              | 82                  |                     |                    |
| Jan 20 | 1100 | CHRYSOPHYTA        |                     |                     | DEPTH INTEGRATED   |
|        |      | .BACILLARIOPHYCEAE |                     |                     |                    |
|        |      | ..CENTRALES        |                     |                     |                    |
|        |      | ...COSCINODISCEAE  |                     |                     |                    |
|        |      | ....MELOSIRA       |                     |                     |                    |
|        |      | ..PENNALES         |                     |                     |                    |
|        |      | ...ACHNANTHACEAE   |                     |                     |                    |
|        |      | ....ACHNANTHES     | 13                  | 27                  |                    |
|        |      | ...COCCONEIS       |                     |                     |                    |
|        |      | ...EUNOTIACEAE     |                     |                     |                    |
|        |      | ....EUNOTIA        |                     |                     |                    |
|        |      | ...FRAGILARIACEAE  |                     |                     |                    |
|        |      | ....SYNEDRA        | 27                  | 55                  |                    |
|        |      | ...GOMPHONEMACEAE  |                     |                     |                    |
|        |      | ....GOMPHONEMA     | 4                   | 9                   |                    |
|        |      | ...NAVICULACEAE    |                     |                     |                    |
|        |      | ....FRUSTULIA      |                     |                     |                    |
|        |      | ....NAVICULA       | 4                   | 9                   |                    |
|        |      | ...TABELLARIACEAE  |                     |                     |                    |
|        |      | ....TABELLARIA     |                     |                     |                    |
|        |      | TOTAL              | 48                  |                     |                    |
| Feb 23 | 1200 | CHRYSOPHYTA        |                     |                     | DEPTH INTEGRATED   |
|        |      | .BACILLARIOPHYCEAE |                     |                     |                    |
|        |      | ..PENNALES         |                     |                     |                    |
|        |      | ...ACHNANTHACEAE   |                     |                     |                    |
|        |      | ....ACHNANTHES     | 23                  | 1                   |                    |
|        |      | ...GOMPHONEMACEAE  |                     |                     |                    |
|        |      | ....GOMPHONEMA     | 23                  | 1                   |                    |
|        |      | ...NITZSCHACEAE    |                     |                     |                    |
|        |      | ....NITZSCHIA      | 23                  | 1                   |                    |
|        |      | CYANOPHYTA         |                     |                     |                    |
|        |      | .MYXOPHYCEAE       |                     |                     |                    |
|        |      | ..OSCILLATORIALES  |                     |                     |                    |
|        |      | ...OSCILLARIACEAE  |                     |                     |                    |
|        |      | ....OSCILLATORIA   | 3200                | 98                  |                    |
|        |      | TOTAL              | 3300                |                     |                    |

01066000 SACO RIVER AT CORNISH, ME--Continued

## QUALITATIVE AND ASSOCIATED QUANTITATIVE ANALYSES OF BIOLOGICAL DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

## PHYTOPLANKTON

| DATE   | TIME | ORGANISM              | COUNT<br>(CELLS/ML) | PERCENT<br>OF TOTAL | SAMPLING<br>METHOD |
|--------|------|-----------------------|---------------------|---------------------|--------------------|
| Mar 29 | 1300 | CHRYSOPHYTA           |                     |                     | DEPTH INTEGRATED   |
|        |      | ..BACILLARIOPHYCEAE   |                     |                     |                    |
|        |      | ...CENTRALES          |                     |                     |                    |
|        |      | ...COSCINODISCACEAE   |                     |                     |                    |
|        |      | ....MELOSIRA          | 68                  | 18                  |                    |
|        |      | ...PENNALES           |                     |                     |                    |
|        |      | ...ACHNANTHACEAE      |                     |                     |                    |
|        |      | ....ACHNANTHES        | 34                  | 9                   |                    |
|        |      | ...COCCONEIS          |                     |                     |                    |
|        |      | ...CYMBELLACEAE       |                     |                     |                    |
|        |      | ....CYMBELLA          |                     |                     |                    |
|        |      | ...EUNOTIACEAE        |                     |                     |                    |
|        |      | ....EUNOTIA           | 11                  | 3                   |                    |
|        |      | ...FRAGILARIACEAE     |                     |                     |                    |
|        |      | ....FRAGILARIA        |                     |                     |                    |
|        |      | ....HANNAEA           |                     |                     |                    |
|        |      | ....SYNEDRA           |                     |                     |                    |
|        |      | ...GOMPHONEMATACEAE   |                     |                     |                    |
|        |      | ....GOMPHONEMA        | 23                  | 6                   |                    |
|        |      | ...MERIDIONACEAE      |                     |                     |                    |
|        |      | ....MERIDION          |                     |                     |                    |
|        |      | ...NAVICULACEAE       |                     |                     |                    |
|        |      | ....NAVICULA          | 68                  | 18                  |                    |
|        |      | ...PINNULARIA         | 11                  | 3                   |                    |
|        |      | ...NITZSCHIA          |                     |                     |                    |
|        |      | ....NITZSCHIA         | 57                  | 15                  |                    |
|        |      | ...TABELLARIACEAE     |                     |                     |                    |
|        |      | ....TABELLARIA        | 100                 | 27                  |                    |
|        |      | TOTAL                 | 370                 |                     |                    |
| Apr 29 | 1200 | CHLOROPHYTA           |                     |                     | DEPTH INTEGRATED   |
|        |      | ..CHLOROPHYCEAE       |                     |                     |                    |
|        |      | ...CHLOROCOCCALES     |                     |                     |                    |
|        |      | ...SCENEDESMACEAE     |                     |                     |                    |
|        |      | ....SCENEDESMUS       | 7                   | 12                  |                    |
|        |      | ...VOLVOCALES         |                     |                     |                    |
|        |      | ...CHLAMYDOMONADACEAE |                     |                     |                    |
|        |      | ....CHLAMYDOMONAS     | 7                   | 12                  |                    |
|        |      | CHRYSOPHYTA           |                     |                     |                    |
|        |      | ..BACILLARIOPHYCEAE   |                     |                     |                    |
|        |      | ...PENNALES           |                     |                     |                    |
|        |      | ...ACHNANTHACEAE      |                     |                     |                    |
|        |      | ....ACHNANTHES        | 11                  | 19                  |                    |
|        |      | ...EUNOTIACEAE        |                     |                     |                    |
|        |      | ....EUNOTIA           | 4                   | 6                   |                    |
|        |      | ...FRAGILARIACEAE     |                     |                     |                    |
|        |      | ....FRAGILARIA        | 4                   | 6                   |                    |
|        |      | ...NAVICULACEAE       |                     |                     |                    |
|        |      | ....NAVICULA          | 7                   | 12                  |                    |
|        |      | ...TABELLARIACEAE     |                     |                     |                    |
|        |      | ....TABELLARIA        | 4                   | 6                   |                    |
|        |      | ..CHRYSOPHYCEAE       |                     |                     |                    |
|        |      | ...CHRYSONOMADALES    |                     |                     |                    |
|        |      | ...OCHROMONADACEAE    |                     |                     |                    |
|        |      | ....DINOBRYON         | 4                   | 6                   |                    |
|        |      | CYANOPHYTA            |                     |                     |                    |
|        |      | ..MYXOPHYCEAE         |                     |                     |                    |
|        |      | ...CHROOCOCCALES      |                     |                     |                    |
|        |      | ...CHROOCOCCACEAE     |                     |                     |                    |
|        |      | ....ANACYSTIS         | 11                  | 19                  |                    |
|        |      | TOTAL                 | 59                  |                     |                    |
| May 27 | 1300 | CHLOROPHYTA           |                     |                     | DEPTH INTEGRATED   |
|        |      | ..CHLOROPHYCEAE       |                     |                     |                    |
|        |      | ...CHLOROCOCCALES     |                     |                     |                    |
|        |      | ...OCCYSTACEAE        |                     |                     |                    |
|        |      | ....OCCYSTIS          | 36                  | 12                  |                    |
|        |      | CHRYSOPHYTA           |                     |                     |                    |
|        |      | ..BACILLARIOPHYCEAE   |                     |                     |                    |
|        |      | ...PENNALES           |                     |                     |                    |
|        |      | ...CYMBELLACEAE       |                     |                     |                    |
|        |      | ....EPITHEMIA         | 9                   | 3                   |                    |
|        |      | ...EUNOTIACEAE        |                     |                     |                    |
|        |      | ....EUNOTIA           | 54                  | 18                  |                    |
|        |      | ...NAVICULACEAE       |                     |                     |                    |
|        |      | ....GYROSIGMA         |                     |                     |                    |
|        |      | ...NAVICULA           | 9                   | 3                   |                    |
|        |      | ...NITZSCHIA          |                     |                     |                    |
|        |      | ....NITZSCHIA         | 18                  | 6                   |                    |
|        |      | ...TABELLARIACEAE     |                     |                     |                    |
|        |      | ....TABELLARIA        | 27                  | 9                   |                    |
|        |      | ..CHRYSOPHYCEAE       |                     |                     |                    |
|        |      | ...CHRYSONOMADALES    |                     |                     |                    |
|        |      | ...OCHROMONADACEAE    |                     |                     |                    |
|        |      | ....DINOBRYON         | 140                 | 48                  |                    |
|        |      | TOTAL                 | 300                 |                     |                    |

## SACO RIVER BASIN

01066000 SACO RIVER AT CORNISH, ME--Continued

QUALITATIVE AND ASSOCIATED QUANTITATIVE ANALYSES OF BIOLOGICAL DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

## PHYTOPLANKTON

| DATE   | TIME | ORGANISM              | COUNT<br>(CELLS/ML) | PERCENT<br>OF TOTAL | SAMPLING<br>METHOD |
|--------|------|-----------------------|---------------------|---------------------|--------------------|
| Jul 07 | 1530 | CHLOROPHYTA           |                     |                     | DEPTH INTEGRATED   |
|        |      | ..CHLOROPHYCEAE       |                     |                     |                    |
|        |      | ...CHLOROCOCCALES     |                     |                     |                    |
|        |      | ...OCCYSTACEAE        |                     |                     |                    |
|        |      | ....ANKISTRODESMUS    |                     |                     |                    |
|        |      | ....DICTYOSPHAERIUM   | 130                 | 3                   |                    |
|        |      | ....KIRCHNERIELLA     |                     |                     |                    |
|        |      | ...SCENEDESMACEAE     |                     |                     |                    |
|        |      | ....SCENEDESMUS       | 96                  | 2                   |                    |
|        |      | ..ZYGNEMATALES        |                     |                     |                    |
|        |      | ...DESMIDIACEAE       |                     |                     |                    |
|        |      | ....SPONDYLIUM        |                     |                     |                    |
|        |      | CHRYSOPHYTA           |                     |                     |                    |
|        |      | ..BACILLARIOPHYCEAE   |                     |                     |                    |
|        |      | ...CENTRALES          |                     |                     |                    |
|        |      | ...COSCINODISCACEAE   |                     |                     |                    |
|        |      | ....CYCLOTELLA        | 32                  | 1                   |                    |
|        |      | ....MELOSIRA          |                     |                     |                    |
|        |      | ..PENNALES            |                     |                     |                    |
|        |      | ...ACHNANTHACEAE      |                     |                     |                    |
|        |      | ...ACHNANTHES         | 80                  | 2                   |                    |
|        |      | ...GOMPHONEMACEAE     |                     |                     |                    |
|        |      | ....GOMPHONEMA        |                     |                     |                    |
|        |      | ...NAVICULACEAE       |                     |                     |                    |
|        |      | ....NAVICULA          |                     |                     |                    |
|        |      | ...TABELLARIACEAE     |                     |                     |                    |
|        |      | ....TABELLARIA        |                     |                     |                    |
|        |      | CYANOPHYTA            |                     |                     |                    |
|        |      | ..MYXOPHYCEAE         |                     |                     |                    |
|        |      | ...CHROOCOCCALES      |                     |                     |                    |
|        |      | ...CHROOCOCCACEAE     |                     |                     |                    |
|        |      | ....AGMENELLUM        | 450                 | 11                  |                    |
|        |      | ....ANACYSTIS         |                     |                     |                    |
|        |      | ....ANACYSTIS INCERTA | 3400                | 80                  |                    |
|        |      | ....ANACYSTIS         |                     |                     |                    |
|        |      | PYRRHOPHYTA           |                     |                     |                    |
|        |      | ..DINOPHYCEAE         |                     |                     |                    |
|        |      | ...PERIDINIALES       |                     |                     |                    |
|        |      | ...GLENODINIACEAE     |                     |                     |                    |
|        |      | ....GLENODINIUM       |                     |                     |                    |
|        |      | TOTAL                 | 4200                |                     |                    |
| Jul 30 | 1430 | CHLOROPHYTA           |                     |                     | DEPTH INTEGRATED   |
|        |      | ..CHLOROPHYCEAE       |                     |                     |                    |
|        |      | ...CHLOROCOCCALES     |                     |                     |                    |
|        |      | ...SCENEDESMACEAE     |                     |                     |                    |
|        |      | ....SCENEDESMUS       | 130                 | 17                  |                    |
|        |      | CHRYSOPHYTA           |                     |                     |                    |
|        |      | ..BACILLARIOPHYCEAE   |                     |                     |                    |
|        |      | ...CENTRALES          |                     |                     |                    |
|        |      | ...COSCINODISCACEAE   |                     |                     |                    |
|        |      | ....CYCLOTELLA        | 16                  | 2                   |                    |
|        |      | ..PENNALES            |                     |                     |                    |
|        |      | ...ACHNANTHACEAE      |                     |                     |                    |
|        |      | ...ACHNANTHES         | 16                  | 2                   |                    |
|        |      | ...CYMBELLACEAE       |                     |                     |                    |
|        |      | ....CYMBELLA          | 16                  | 2                   |                    |
|        |      | ...FRAGILARIACEAE     |                     |                     |                    |
|        |      | ....SYNEDRA           | 16                  | 2                   |                    |
|        |      | ...NAVICULACEAE       |                     |                     |                    |
|        |      | ....NAVICULA          | 48                  | 7                   |                    |
|        |      | ...TABELLARIACEAE     |                     |                     |                    |
|        |      | ....TABELLARIA        | 48                  | 7                   |                    |
|        |      | CYANOPHYTA            |                     |                     |                    |
|        |      | ..MYXOPHYCEAE         |                     |                     |                    |
|        |      | ...CHROOCOCCALES      |                     |                     |                    |
|        |      | ...CHROOCOCCACEAE     |                     |                     |                    |
|        |      | ....ANACYSTIS         | 450                 | 61                  |                    |
|        |      | TOTAL                 | 740                 |                     |                    |

01066000 SACO RIVER AT CORNISH, ME--Continued

QUALITATIVE AND ASSOCIATED QUANTITATIVE ANALYSES OF BIOLOGICAL DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

## PHYTOPLANKTON

| DATE   | TIME | ORGANISM              | COUNT<br>(CELLS/ML) | PERCENT<br>OF TOTAL | SAMPLING<br>METHOD |
|--------|------|-----------------------|---------------------|---------------------|--------------------|
| Aug 27 | 1500 | CHLOROPHYTA           |                     |                     | DEPTH INTEGRATED   |
|        |      | ..CHLOROPHYCEAE       |                     |                     |                    |
|        |      | ...TETRASPORALES      |                     |                     |                    |
|        |      | ...PALMELLACEAE       |                     |                     |                    |
|        |      | ....SPHAEROCYSTIS     | 480                 | 31                  |                    |
|        |      | ...VOLVOCELES         |                     |                     |                    |
|        |      | ...CHLAMYDOMONADACEAE |                     |                     |                    |
|        |      | ....CHLAMYDOMONAS     |                     |                     |                    |
|        |      | ..ZYGNEMATALES        |                     |                     |                    |
|        |      | ...DESMIDIACEAE       |                     |                     |                    |
|        |      | ....COSMARIUM         |                     |                     |                    |
|        |      | CHRYSTOPHYTA          |                     |                     |                    |
|        |      | ..BACILLARIOPHYCEAE   |                     |                     |                    |
|        |      | ..PENNALES            |                     |                     |                    |
|        |      | ...ACHNANTHACEAE      |                     |                     |                    |
|        |      | ....ACHNANTHES        |                     |                     |                    |
|        |      | ....COCCONEIS         |                     |                     |                    |
|        |      | ...FRAGILARIACEAE     |                     |                     |                    |
|        |      | ....FRAGILARIA        |                     |                     |                    |
|        |      | ...NAVICULACEAE       |                     |                     |                    |
|        |      | ....PINNULARIA        | 11                  | 1                   |                    |
|        |      | ...NITZSCHIA          |                     |                     |                    |
|        |      | ...NITZSCHIA          | 11                  | 1                   |                    |
|        |      | ..CHRYSTOPHYCEAE      |                     |                     |                    |
|        |      | ...CHRYDOMONADALES    |                     |                     |                    |
|        |      | ...OCHROMONADACEAE    |                     |                     |                    |
|        |      | ....DINOBYRON         |                     |                     |                    |
|        |      | CYANOPHYTA            |                     |                     |                    |
|        |      | ..MYXOPHYCEAE         |                     |                     |                    |
|        |      | ...CHROOCOCCALES      |                     |                     |                    |
|        |      | ...CHROOCOCCACEAE     |                     |                     |                    |
|        |      | ....AGMENELLUM        |                     |                     |                    |
|        |      | ....ANACYSTIS         | 340                 | 21                  |                    |
|        |      | ....ANACYSTIS INCERTA | 180                 | 12                  |                    |
|        |      | ....ANACYSTIS         | 23                  | 1                   |                    |
|        |      | ...OSCILLATORIALES    |                     |                     |                    |
|        |      | ...OSCILLATORIA       |                     |                     |                    |
|        |      | ...OSCILLATORIA       | 490                 | 31                  |                    |
|        |      | EUGLENOPHYTA          |                     |                     |                    |
|        |      | ..EUGLENOPHYCEAE      |                     |                     |                    |
|        |      | ...EUGLENALES         |                     |                     |                    |
|        |      | ...EUGLENACEAE        |                     |                     |                    |
|        |      | ....TRACHELOMONAS     |                     |                     |                    |
|        |      | TOTAL                 | 1500                |                     |                    |
| Sep 28 | 1430 | CHLOROPHYTA           |                     |                     | DEPTH INTEGRATED   |
|        |      | ..CHLOROPHYCEAE       |                     |                     |                    |
|        |      | ...CHLOROCCOCCALES    |                     |                     |                    |
|        |      | ...OCCYSTACEAE        |                     |                     |                    |
|        |      | ....ANKISTRODESMUS    | 22                  | 4                   |                    |
|        |      | ..ZYGNEMATALES        |                     |                     |                    |
|        |      | ...DESMIDIACEAE       |                     |                     |                    |
|        |      | ....COSMARIUM         | 7                   | 1                   |                    |
|        |      | CHRYSTOPHYTA          |                     |                     |                    |
|        |      | ..BACILLARIOPHYCEAE   |                     |                     |                    |
|        |      | ..CENTRALES           |                     |                     |                    |
|        |      | ...COSCINODISCAEAE    |                     |                     |                    |
|        |      | ....CYCLOTELLA        | 7                   | 1                   |                    |
|        |      | ..PENNALES            |                     |                     |                    |
|        |      | ...ACHNANTHACEAE      |                     |                     |                    |
|        |      | ....ACHNANTHES        | 29                  | 5                   |                    |
|        |      | ...EUNOTIACEAE        |                     |                     |                    |
|        |      | ....EUNOTIA           | 15                  | 2                   |                    |
|        |      | ...GOMPHONEMATAEAE    |                     |                     |                    |
|        |      | ....GOMPHONEMA        | 7                   | 1                   |                    |
|        |      | ...NITZSCHIAEAE       |                     |                     |                    |
|        |      | ....NITZSCHIA         | 15                  | 2                   |                    |
|        |      | CYANOPHYTA            |                     |                     |                    |
|        |      | ..MYXOPHYCEAE         |                     |                     |                    |
|        |      | ...CHROOCOCCALES      |                     |                     |                    |
|        |      | ...CHROOCOCCACEAE     |                     |                     |                    |
|        |      | ....ANACYSTIS         | 370                 | 60                  |                    |
|        |      | ...OSCILLATORIALES    |                     |                     |                    |
|        |      | ...OSCILLATORIAEAE    |                     |                     |                    |
|        |      | ...OSCILLATORIA       | 150                 | 24                  |                    |
|        |      | TOTAL                 | 620                 |                     |                    |

## SACO RIVER BASIN

01066500 LITTLE OSSIPEE RIVER NEAR SOUTH LIMINGTON, ME

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

DRAINAGE AREA.--161 mi<sup>2</sup> (417 km<sup>2</sup>).

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

GAGE.--Water-stage recorder. Datum of gage is 273.84 ft (83.466 m) above mean sea level.

REMARKS.--Records good. Flow regulated by Little Ossipee Lake, Ledgemere and Balch Ponds, combined capacity, 581,000,000 ft<sup>3</sup> (16,450,000 m<sup>3</sup>).

AVERAGE DISCHARGE.--36 years, 291 ft<sup>3</sup>/s (8.241 m<sup>3</sup>/s), 24.55 in/yr (624 mm/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 5,300 ft<sup>3</sup>/s (150 m<sup>3</sup>/s) May 10, 1954, gage height, 6.78 ft (2.067 m); minimum daily, 1.7 ft<sup>3</sup>/s (0.048 m<sup>3</sup>/s) Oct. 7, 1965.

EXTREMES OUTSIDE PERIOD OF RECORD.--Maximum discharge known, 8,530 ft<sup>3</sup>/s (242 m<sup>3</sup>/s) Mar. 19, 1936, at Ledgemere Dam 3.6 mi (5.8 km) upstream.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 1,990 ft<sup>3</sup>/s (56.4 m<sup>3</sup>/s) Apr. 2, gage height, 4.68 ft (1.426 m); minimum daily, 15 ft<sup>3</sup>/s (0.425 m<sup>3</sup>/s) July 11.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976  
MEAN VALUES

| DAY   | OCT  | NOV   | DEC   | JAN  | FEB   | MAR   | APR   | MAY   | JUN  | JUL  | AUG  | SEP  |
|-------|------|-------|-------|------|-------|-------|-------|-------|------|------|------|------|
| 1     | 135  | 114   | 455   | 376  | 573   | 517   | 1000  | 316   | 201  | 100  | 280  | 48   |
| 2     | 125  | 113   | 451   | 363  | 666   | 491   | 1740  | 336   | 202  | 153  | 272  | 47   |
| 3     | 114  | 112   | 448   | 332  | 878   | 463   | 1890  | 379   | 200  | 166  | 244  | 47   |
| 4     | 103  | 112   | 443   | 316  | 876   | 436   | 1490  | 418   | 199  | 136  | 173  | 47   |
| 5     | 94   | 110   | 384   | 300  | 740   | 422   | 1150  | 406   | 189  | 128  | 50   | 48   |
| 6     | 109  | 110   | 299   | 285  | 608   | 512   | 975   | 363   | 178  | 126  | 69   | 47   |
| 7     | 114  | 136   | 299   | 272  | 522   | 582   | 860   | 334   | 173  | 125  | 73   | 43   |
| 8     | 108  | 197   | 298   | 270  | 473   | 536   | 791   | 339   | 166  | 124  | 81   | 40   |
| 9     | 101  | 198   | 297   | 260  | 430   | 461   | 613   | 325   | 159  | 83   | 100  | 38   |
| 10    | 95   | 199   | 327   | 255  | 401   | 423   | 441   | 261   | 133  | 17   | 396  | 36   |
| 11    | 93   | 205   | 437   | 250  | 385   | 396   | 511   | 205   | 42   | 15   | 528  | 52   |
| 12    | 135  | 205   | 518   | 243  | 364   | 374   | 522   | 243   | 67   | 17   | 379  | 52   |
| 13    | 171  | 324   | 506   | 244  | 342   | 386   | 489   | 321   | 78   | 23   | 30   | 48   |
| 14    | 205  | 657   | 458   | 280  | 342   | 387   | 452   | 339   | 82   | 71   | 21   | 48   |
| 15    | 235  | 705   | 454   | 201  | 331   | 387   | 572   | 366   | 85   | 99   | 35   | 49   |
| 16    | 253  | 636   | 452   | 33   | 333   | 370   | 701   | 361   | 82   | 102  | 99   | 96   |
| 17    | 249  | 538   | 449   | 27   | 380   | 343   | 602   | 338   | 84   | 95   | 119  | 136  |
| 18    | 378  | 406   | 446   | 166  | 414   | 535   | 290   | 334   | 80   | 85   | 115  | 134  |
| 19    | 481  | 306   | 558   | 305  | 444   | 589   | 34    | 551   | 79   | 73   | 103  | 133  |
| 20    | 470  | 303   | 415   | 270  | 488   | 398   | 28    | 681   | 82   | 65   | 89   | 103  |
| 21    | 534  | 305   | 340   | 240  | 505   | 414   | 25    | 609   | 85   | 61   | 79   | 73   |
| 22    | 501  | 436   | 350   | 235  | 477   | 589   | 24    | 556   | 83   | 61   | 73   | 72   |
| 23    | 431  | 547   | 355   | 230  | 577   | 752   | 33    | 507   | 76   | 57   | 70   | 72   |
| 24    | 367  | 585   | 600   | 231  | 562   | 677   | 26    | 401   | 71   | 105  | 62   | 71   |
| 25    | 323  | 562   | 866   | 237  | 485   | 679   | 26    | 290   | 70   | 133  | 58   | 70   |
| 26    | 299  | 483   | 885   | 228  | 470   | 754   | 38    | 293   | 68   | 119  | 55   | 71   |
| 27    | 290  | 457   | 655   | 266  | 496   | 834   | 41    | 298   | 69   | 109  | 54   | 73   |
| 28    | 286  | 486   | 464   | 517  | 585   | 962   | 35    | 243   | 72   | 97   | 57   | 73   |
| 29    | 284  | 492   | 467   | 748  | 566   | 1160  | 35    | 188   | 71   | 80   | 57   | 72   |
| 30    | 284  | 463   | 435   | 729  | ---   | 1110  | 217   | 197   | 70   | 83   | 58   | 72   |
| 31    | 217  | ---   | 403   | 657  | ---   | 988   | ---   | 196   | ---  | 194  | 50   | ---  |
| TOTAL | 7584 | 10502 | 14214 | 9366 | 14713 | 17927 | 15651 | 10994 | 3296 | 2902 | 3929 | 2011 |
| MEAN  | 245  | 350   | 459   | 302  | 507   | 578   | 522   | 355   | 110  | 93.6 | 127  | 67.0 |
| MAX   | 534  | 705   | 885   | 748  | 878   | 1160  | 1890  | 681   | 202  | 194  | 528  | 136  |
| MIN   | 93   | 110   | 297   | 27   | 331   | 343   | 24    | 188   | 42   | 15   | 21   | 36   |

CAL YR 1975 TOTAL 103411 MEAN 283 MAX 1840 MIN 11 CFSM 1.76 IN 23.89  
WTR YR 1976 TOTAL 113089 MEAN 309 MAX 1890 MIN 15 CFSM 1.92 IN 26.13



## MOUSAM RIVER BASIN

187

01069500 MOUSAM RIVER NEAR WEST KENNEBUNK, ME

LOCATION.--Lat 43°25'04", long 70°39'32", York County, Hydrologic Unit 01060003, on right bank 100 ft (30 m) upstream from highway bridge, 1.4 mi (2.3 km) downstream from Middle Branch, and 4.0 mi (6.4 km) west of West Kennebunk.

DRAINAGE AREA.--105 mi<sup>2</sup> (272 km<sup>2</sup>).

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

GAGE.--Water-stage recorder. Altitude of gage is 170 ft (52 m), from topographic map.

REMARKS.--Records good. Flow regulated by Square Pond and Mousam and Estes Lakes, combined capacity, about 700,000,000 ft<sup>3</sup> (20,000,000 m<sup>3</sup>) and powerplants upstream.

AVERAGE DISCHARGE.--37 years, 179 ft<sup>3</sup>/s (5.069 m<sup>3</sup>/s).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 2,830 ft<sup>3</sup>/s (80.1 m<sup>3</sup>/s) Sept. 12, 1954, gage height, 5.69 ft (1.734 m); minimum daily, 0.4 ft<sup>3</sup>/s (0.011 m<sup>3</sup>/s) Nov. 10, 15, 16, 1964.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 1,160 ft<sup>3</sup>/s (32.9 m<sup>3</sup>/s) Apr. 2, gage height, 3.18 ft (0.969 m); minimum daily, 8.1 ft<sup>3</sup>/s (0.23 m<sup>3</sup>/s) Oct. 17.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976  
MEAN VALUES

| DAY   | OCT    | NOV  | DEC  | JAN  | FEB   | MAR   | APR  | MAY  | JUN  | JUL  | AUG  | SEP   |
|-------|--------|------|------|------|-------|-------|------|------|------|------|------|-------|
| 1     | 105    | 153  | 343  | 225  | 316   | 288   | 547  | 184  | 185  | 127  | 117  | 123   |
| 2     | 90     | 149  | 325  | 280  | 597   | 365   | 1030 | 281  | 70   | 116  | 166  | 9.5   |
| 3     | 75     | 145  | 333  | 217  | 580   | 279   | 756  | 323  | 82   | 18   | 102  | 11    |
| 4     | 68     | 152  | 285  | 203  | 448   | 261   | 606  | 294  | 182  | 18   | 39   | 12    |
| 5     | 61     | 140  | 272  | 186  | 425   | 263   | 519  | 241  | 182  | 18   | 27   | 13    |
| 6     | 57     | 130  | 266  | 150  | 390   | 367   | 448  | 216  | 66   | 18   | 21   | 11    |
| 7     | 54     | 125  | 263  | 205  | 349   | 355   | 405  | 204  | 12   | 19   | 27   | 9.0   |
| 8     | 64     | 130  | 216  | 210  | 325   | 299   | 371  | 217  | 12   | 19   | 39   | 8.9   |
| 9     | 56     | 150  | 187  | 183  | 310   | 258   | 349  | 194  | 13   | 19   | 94   | 9.5   |
| 10    | 62     | 180  | 509  | 101  | 300   | 242   | 298  | 189  | 14   | 19   | 169  | 10    |
| 11    | 13     | 260  | 523  | 135  | 288   | 192   | 309  | 186  | 16   | 20   | 191  | 11    |
| 12    | 34     | 320  | 356  | 233  | 295   | 212   | 279  | 190  | 16   | 21   | 186  | 11    |
| 13    | 65     | 410  | 310  | 120  | 278   | 302   | 257  | 199  | 21   | 21   | 72   | 10    |
| 14    | 77     | 520  | 284  | 289  | 284   | 259   | 266  | 201  | 138  | 138  | 19   | 11    |
| 15    | 133    | 446  | 274  | 281  | 278   | 248   | 276  | 214  | 182  | 71   | 22   | 11    |
| 16    | 68     | 368  | 270  | 262  | 278   | 239   | 231  | 220  | 70   | 69   | 142  | 11    |
| 17    | 8.1    | 349  | 234  | 237  | 315   | 230   | 199  | 213  | 16   | 67   | 168  | 13    |
| 18    | 136    | 336  | 234  | 208  | 340   | 217   | 124  | 216  | 17   | 56   | 161  | 32    |
| 19    | 210    | 312  | 199  | 193  | 324   | 211   | 201  | 383  | 18   | 49   | 63   | 37    |
| 20    | 260    | 296  | 182  | 184  | 356   | 213   | 178  | 684  | 58   | 145  | 16   | 28    |
| 21    | 282    | 308  | 185  | 180  | 321   | 334   | 183  | 287  | 260  | 185  | 16   | 92    |
| 22    | 238    | 413  | 196  | 178  | 299   | 552   | 179  | 392  | 147  | 70   | 17   | 160   |
| 23    | 204    | 354  | 186  | 176  | 387   | 425   | 180  | 380  | 183  | 18   | 18   | 48    |
| 24    | 186    | 301  | 169  | 176  | 443   | 373   | 179  | 358  | 72   | 19   | 17   | 9.5   |
| 25    | 176    | 278  | 166  | 176  | 273   | 396   | 176  | 350  | 20   | 16   | 18   | 9.5   |
| 26    | 208    | 260  | 222  | 176  | 272   | 439   | 176  | 339  | 19   | 16   | 18   | 9.7   |
| 27    | 192    | 292  | 287  | 179  | 303   | 450   | 179  | 268  | 19   | 17   | 18   | 10    |
| 28    | 173    | 442  | 299  | 320  | 366   | 516   | 194  | 190  | 20   | 17   | 18   | 9.9   |
| 29    | 162    | 388  | 271  | 478  | 329   | 511   | 192  | 187  | 20   | 18   | 19   | 9.1   |
| 30    | 177    | 353  | 248  | 395  | ---   | 442   | 191  | 185  | 20   | 18   | 14   | 32    |
| 31    | 165    | ---  | 241  | 332  | ---   | 409   | ---  | 185  | ---  | 107  | 115  | ---   |
| TOTAL | 3859.1 | 8460 | 8335 | 6868 | 10069 | 10147 | 9478 | 8170 | 2150 | 1549 | 2129 | 781.6 |
| MEAN  | 124    | 282  | 269  | 222  | 347   | 327   | 316  | 264  | 71.7 | 50.0 | 68.7 | 26.1  |
| MAX   | 282    | 520  | 523  | 478  | 597   | 552   | 1030 | 684  | 260  | 185  | 191  | 160   |
| MIN   | 8.1    | 125  | 166  | 101  | 272   | 192   | 124  | 184  | 12   | 16   | 14   | 8.9   |
| †     | 357    | 326  | 343  | 412  | 457   | 501   | 505  | 484  | 457  | 439  | 429  | 409   |

CAL YR 1975 TOTAL 67001.7 MEAN 184 MAX 1830 MIN 7.0

WTR YR 1976 TOTAL 71995.7 MEAN 197 MAX 1030 MIN 8.1

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

## WEBHANNET RIVER BASIN

01069800 BLACKSMITH BROOK AT WELLS, ME

LOCATION.--Lat 43°19'58", long 70°34'16", York County, Hydrologic Unit 01060003, 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.

DRAINAGE AREA.--2.48 mi<sup>2</sup> (6.42 km<sup>2</sup>).

PERIOD OF RECORD.--March 19, 1975 to current year (seasonal records only).

GAGE.--Water-stage recorder. Datum of gage 40.00 ft (12.193 m) above mean sea level.

REMARKS.--Records fair.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 121 ft<sup>3</sup>/s (3.43 m<sup>3</sup>/s) Dec. 10, 1975, gage height 2.66 ft (0.811 m); minimum, 0.06 ft<sup>3</sup>/s (0.002 m<sup>3</sup>/s), Aug. 2, 1975, July 21, 1976, gage height 0.68 ft (0.207 m).

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 121 ft<sup>3</sup>/s (3.43 m<sup>3</sup>/s) Dec. 10, gage height 2.66 ft (0.811 m); minimum, 0.06 ft<sup>3</sup>/s (0.002 m<sup>3</sup>/s), July 21, gage height 0.68 ft (0.207 m).

## DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

| DAY   | OCT    | NOV   | DEC | JAN | FEB   | MAR | APR   | MAY   | JUN   | JUL   | AUG   | SEP   |
|-------|--------|-------|-----|-----|-------|-----|-------|-------|-------|-------|-------|-------|
| 1     | 1.9    | 4.5   | 9.7 |     |       |     | 34    | 4.9   | 3.6   | 0.62  | 2.6   | 0.56  |
| 2     | 1.6    | 3.6   | 8.1 |     |       |     | 39    | 13    | 3.3   | 0.67  | 1.8   | 0.56  |
| 3     | 1.3    | 3.5   | 6.6 |     |       |     | 20    | 11    | 3.0   | 0.51  | 0.94  | 0.56  |
| 4     | 1.1    | 3.6   | 5.2 |     |       |     | 14    | 11    | 2.8   | 0.37  | 0.67  | 0.56  |
| 5     | 1.0    | 3.6   | 4.3 |     |       |     | 10    | 8.1   | 2.3   | 0.28  | 0.51  | 0.67  |
| 6     | 1.0    | 3.0   | 4.1 |     |       |     | 8.8   | 6.8   | 2.0   | 0.18  | 0.46  | 0.67  |
| 7     | .94    | 2.8   | 4.0 |     |       |     | 7.3   | 6.6   | 2.5   | 0.14  | 0.42  | 0.56  |
| 8     | .94    | 3.5   | 3.2 |     |       |     | 6.6   | 6.6   | 2.2   | 0.18  | 0.46  | 0.51  |
| 9     | 1.0    | 4.1   | 3.2 |     |       |     | 5.9   | 5.9   | 1.7   | 0.23  | 7.0   | 0.51  |
| 10    | 1.0    | 4.2   | 65  |     |       |     | 5.4   | 5.0   | 1.9   | 0.18  | 26    | 0.51  |
| 11    | 1.0    | 17    | 33  |     |       |     | 5.0   | 4.7   | 1.2   | 0.18  | 8.4   | 0.73  |
| 12    | 6.8    | 9.7   | 16  |     |       |     | 4.7   | 5.9   | 0.94  | 1.3   | 4.5   | 0.73  |
| 13    | 7.3    | 35    | 12  |     |       |     | 4.3   | 6.8   | 0.87  | 0.94  | 2.8   | 0.67  |
| 14    | 7.3    | 32    | 10  |     |       |     | 4.1   | 5.4   | 0.87  | 0.67  | 2.3   | 0.62  |
| 15    | 7.3    | 17    | 10  |     |       |     | 3.6   | 7.1   | 0.87  | 0.46  | 2.8   | 0.56  |
| 16    | 7.3    | 12    | 10  |     |       |     | 3.5   | 6.1   | 0.73  | 0.33  | 3.0   | 0.51  |
| 17    | 7.3    | 9.4   | 7.8 |     |       |     | 3.2   | 6.1   | 0.67  | 0.23  | 1.8   | 0.51  |
| 18    | 19     | 7.6   |     |     |       | 5.4 | 3.0   | 7.8   | 0.62  | 0.23  | 1.2   | 0.67  |
| 19    | 16     | 6.1   |     |     |       | 5.0 | 2.6   | 20    | 0.56  | 0.18  | 0.94  | 0.73  |
| 20    | 16     | 5.4   |     |     |       | 4.7 | 2.5   | 15    | 0.56  | 0.10  | 0.80  | 0.67  |
| 21    | 16     | 6.1   |     |     |       | 10  | 2.8   | 10    | 0.51  | 0.08  | 0.67  | 0.56  |
| 22    | 9.7    | 20    |     |     |       | 15  | 3.5   | 9.7   | 0.42  | 0.10  | 0.62  | 0.51  |
| 23    | 6.8    | 11    |     |     |       | 13  | 2.5   | 7.6   | 0.37  | 0.10  | 0.46  | 0.51  |
| 24    | 5.9    | 8.4   |     |     |       | 9.4 | 4.9   | 6.6   | 0.28  | 0.56  | 0.42  | 0.51  |
| 25    | 5.4    | 7.3   |     |     |       | 13  | 4.5   | 5.9   | 0.28  | 0.33  | 0.42  | 0.46  |
| 26    | 12     | 6.4   |     |     |       | 16  | 10    | 5.4   | 0.33  | 0.18  | 0.37  | 0.51  |
| 27    | 8.4    | 25    |     |     |       | 16  | 9.4   | 5.0   | 0.42  | 0.10  | 0.37  | 0.80  |
| 28    | 6.6    | 29    |     |     |       | 23  | 7.6   | 4.7   | 0.46  | 0.10  | 0.37  | 0.87  |
| 29    | 5.4    | 16    |     |     |       | 18  | 6.4   | 4.3   | 0.42  | 0.08  | 0.56  | 0.94  |
| 30    | 5.4    | 11    |     |     | ----- | 14  | 5.4   | 3.8   | 0.37  | 0.33  | 0.80  | 0.73  |
| 31    | 5.6    | ----- |     |     | ----- | 12  | ----- | 3.8   | ----- | 5.2   | 0.62  | ----- |
| TOTAL | 194.28 | 327.8 |     |     |       |     | 244.5 | 230.6 | 37.05 | 15.15 | 75.08 | 18.47 |
| MEAN  | 6.27   | 10.9  |     |     |       |     | 8.15  | 7.44  | 1.24  | 0.49  | 2.42  | 0.62  |
| MAX   | 19     | 35    |     |     |       |     | 39    | 20    | 3.6   | 5.2   | 26    | 0.94  |
| MIN   | .94    | 2.8   |     |     |       |     | 2.5   | 3.8   | 0.28  | 0.08  | 0.37  | 0.46  |
| CFSM  | 2.53   | 4.41  |     |     |       |     | 3.29  | 3.00  | 0.50  | 0.20  | 0.98  | 0.25  |
| IN.   | 2.91   | 4.92  |     |     |       |     | 3.67  | 3.46  | 0.56  | 0.23  | 1.13  | 0.28  |

## PISCATAQUA RIVER BASIN

189

01072100 SALMON FALLS RIVER AT MILTON, NH

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

DRAINAGE AREA.--108 mi<sup>2</sup> (280 km<sup>2</sup>).

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

GAGE.--Water-stage recorder and concrete control. Altitude of gage is 405 ft (123 m), from topographic map.

REMARKS.--Records good. Flow regulated by Great East and Lovell Lakes and Horn, Wilson, and Milton (also controls Northeast and Town House) Ponds, combined usable capacity, 1,280,000,000 ft<sup>3</sup> (36,250,000 m<sup>3</sup>). See table below for figures of monthend contents. Several observations of water temperature were made during the year.

AVERAGE DISCHARGE.--8 years, 207 ft<sup>3</sup>/s (5.862 m<sup>3</sup>/s).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 1,730 ft<sup>3</sup>/s (49.0 m<sup>3</sup>/s) Feb. 12, 1970, gage height, 5.49 ft (1.673 m); minimum daily, 19 ft<sup>3</sup>/s (0.54 m<sup>3</sup>/s) Aug. 30, Sept. 13, 1970.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 1,490 ft<sup>3</sup>/s (42.2 m<sup>3</sup>/s) Apr. 2, gage height, 5.29 ft (1.612 m); minimum daily, 24 ft<sup>3</sup>/s (0.64 m<sup>3</sup>/s) July 6.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976  
MEAN VALUES

| DAY   | OCT   | NOV   | DEC   | JAN   | FEB   | MAR    | APR    | MAY    | JUN    | JUL    | AUG    | SEP   |
|-------|-------|-------|-------|-------|-------|--------|--------|--------|--------|--------|--------|-------|
| 1     | 246   | 138   | 340   | 140   | 470   | 389    | 782    | 186    | 130    | 25     | 72     | 29    |
| 2     | 214   | 135   | 320   | 130   | 531   | 389    | 1400   | 380    | 85     | 25     | 144    | 28    |
| 3     | 185   | 135   | 300   | 120   | 628   | 389    | 1350   | 408    | 91     | 25     | 173    | 28    |
| 4     | 167   | 135   | 290   | 115   | 608   | 366    | 1000   | 322    | 98     | 25     | 147    | 28    |
| 5     | 149   | 143   | 270   | 110   | 550   | 357    | 677    | 313    | 98     | 25     | 114    | 28    |
| 6     | 132   | 143   | 330   | 102   | 480   | 357    | 519    | 297    | 98     | 24     | 67     | 28    |
| 7     | 138   | 140   | 270   | 104   | 418   | 370    | 326    | 289    | 85     | 25     | 44     | 49    |
| 8     | 140   | 138   | 240   | 110   | 350   | 375    | 237    | 273    | 72     | 25     | 44     | 29    |
| 9     | 122   | 136   | 210   | 120   | 290   | 352    | 277    | 264    | 72     | 25     | 85     | 29    |
| 10    | 128   | 140   | 290   | 130   | 234   | 326    | 289    | 261    | 72     | 25     | 361    | 34    |
| 11    | 132   | 161   | 310   | 140   | 164   | 245    | 285    | 243    | 54     | 25     | 209    | 38    |
| 12    | 138   | 228   | 320   | 150   | 182   | 179    | 281    | 189    | 40     | 25     | 100    | 38    |
| 13    | 146   | 302   | 330   | 160   | 192   | 186    | 264    | 141    | 40     | 27     | 122    | 38    |
| 14    | 149   | 507   | 310   | 171   | 202   | 199    | 199    | 158    | 36     | 27     | 119    | 57    |
| 15    | 146   | 581   | 280   | 190   | 202   | 153    | 100    | 182    | 34     | 27     | 117    | 72    |
| 16    | 132   | 514   | 290   | 210   | 202   | 114    | 102    | 219    | 34     | 28     | 122    | 67    |
| 17    | 161   | 433   | 270   | 219   | 212   | 133    | 70     | 237    | 34     | 28     | 115    | 98    |
| 18    | 207   | 384   | 260   | 219   | 226   | 141    | 70     | 249    | 34     | 28     | 113    | 127   |
| 19    | 238   | 348   | 240   | 199   | 230   | 147    | 68     | 519    | 34     | 27     | 94     | 125   |
| 20    | 260   | 317   | 220   | 209   | 245   | 153    | 68     | 790    | 34     | 27     | 86     | 125   |
| 21    | 280   | 223   | 210   | 190   | 264   | 179    | 68     | 519    | 34     | 27     | 80     | 125   |
| 22    | 280   | 182   | 208   | 185   | 273   | 273    | 67     | 389    | 34     | 27     | 77     | 125   |
| 23    | 256   | 253   | 205   | 179   | 297   | 339    | 65     | 394    | 34     | 27     | 73     | 125   |
| 24    | 218   | 348   | 202   | 167   | 317   | 348    | 65     | 361    | 34     | 27     | 73     | 125   |
| 25    | 191   | 445   | 199   | 150   | 322   | 357    | 65     | 305    | 34     | 27     | 55     | 125   |
| 26    | 176   | 337   | 199   | 150   | 335   | 394    | 95     | 257    | 35     | 27     | 49     | 122   |
| 27    | 176   | 350   | 190   | 153   | 348   | 454    | 202    | 237    | 35     | 27     | 45     | 138   |
| 28    | 173   | 340   | 180   | 209   | 361   | 569    | 249    | 223    | 32     | 27     | 35     | 150   |
| 29    | 161   | 340   | 170   | 322   | 384   | 767    | 230    | 202    | 27     | 27     | 43     | 141   |
| 30    | 155   | 340   | 160   | 450   | ---   | 775    | 205    | 189    | 25     | 34     | 42     | 138   |
| 31    | 146   | ---   | 150   | 460   | ---   | 649    | ---    | 176    | ---    | 56     | 29     | ---   |
| TOTAL | 5542  | 8318  | 7763  | 5663  | 9517  | 10424  | 9675   | 9172   | 1599   | 851    | 3049   | 2409  |
| MEAN  | 179   | 277   | 250   | 183   | 328   | 336    | 323    | 296    | 53.3   | 27.5   | 98.4   | 80.3  |
| MAX   | 280   | 581   | 340   | 460   | 628   | 775    | 1400   | 790    | 130    | 56     | 361    | 150   |
| MIN   | 122   | 135   | 150   | 102   | 164   | 114    | 65     | 141    | 25     | 24     | 29     | 28    |
| (†)   | 846.9 | 884.0 | 810.7 | 738.9 | 814.5 | 1045.0 | 1242.7 | 1221.2 | 1169.0 | 1169.0 | 1133.1 | 936.5 |

CAL YR 1975 TOTAL 68233 MEAN 187 MAX 1050 MIN 26  
WTR YR 1976 TOTAL 73982 MEAN 202 MAX 1400 MIN 24

† 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.



## DISCHARGE MEASUREMENTS MADE AT MISCELLANEOUS SITES DURING WATER YEAR 1976--CONTINUED

| Stream                              | Tributary to        | Location                                                                                                                                                     | Drainage<br>area<br>(mi <sup>2</sup> ) | Measured<br>previously<br>(water<br>years) | Measurements                                             |                                      |
|-------------------------------------|---------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------|--------------------------------------------|----------------------------------------------------------|--------------------------------------|
|                                     |                     |                                                                                                                                                              |                                        |                                            | Date                                                     | Discharge<br>(ft <sup>3</sup> /s)    |
| Kennebec River basin--Continued     |                     |                                                                                                                                                              |                                        |                                            |                                                          |                                      |
| Ring Brook                          | Mulligan Stream     | Lat 44°55'40", long 69°17'50", Penob-<br>scot County, on downstream side of<br>culvert on State Highway 43, near<br>Corinna, Me.                             | 1.75                                   | 1975                                       | 11-04-75<br>05-27-76                                     | 1.02<br>1.99                         |
| Mulligan<br>Stream                  | Sebasticook<br>Lake | Lat 44°54'16", long 69°17'34", Penob-<br>scot County, 10 ft (3 m) upstream<br>from culvert on town road, near<br>Corinna, Me.                                | 18.8                                   | 1975                                       | 12-02-75<br>01-05-76<br>02-23-76                         | 72.9<br>22.0<br>38.0                 |
| Stetson Stream                      | Sebasticook Lake    | Lat 44°53'18", long 69°08'48", Penob-<br>scot County, on left bank, 0.2 mi<br>(0.3 km) downstream from bridge under<br>State Highway 143, at Stetson, Me.    | 4.40                                   | 1975                                       | 10-02-75<br>11-04-75<br>12-02-75<br>01-06-76<br>03-26-76 | 6.20<br>6.44<br>39.7<br>21.7<br>60.4 |
| East Branch<br>Sebasticook<br>River | Kennebec River      | Lat 44°50'04", long 69°16'22", Penob-<br>scot County, on right bank, 100 ft<br>(30 m) below the dam on U.S.<br>Highway 2, at Newport, Me.                    | 127                                    | 1975                                       | 12-02-75<br>01-06-76<br>03-26-76                         | 665<br>183<br>423                    |
| Threecornered<br>Pond Outlet        | Three Mile Pond     | Lat 44°20'04", long 69°38'03", Kenne-<br>bec County, upstream end of culvert<br>on town road, near West Windsor, Me.                                         |                                        |                                            | 05-08-76<br>05-08-76<br>05-20-76                         | 18.3<br>18.1<br>16.6                 |
| Three Mile<br>Pond Outlet           | Three Mile Pond     | Lat 44°20'08", long 69°37'06", Kenne-<br>bec County, downstream end of culvert<br>on town road, near West Windsor, Me.                                       |                                        |                                            | 05-20-76                                                 | 28.9                                 |
| Riggs Brook                         | Kennebec River      | Lat 44°18'04", long 69°44'10", Kenne-<br>bec County, downstream end of culvert<br>on Eastern Avenue, near Augusta, Me.                                       |                                        |                                            | 05-15-76                                                 | 1.46                                 |
| Riggs Brook                         | Kennebec River      | Lat 44°19'00", long 69°43'40", Kenne-<br>bec County, upstream end of culvert on<br>So. Belfast Avenue, near Augusta, Me.                                     |                                        |                                            | 05-15-76<br>07-12-76                                     | 5.42<br>0.00                         |
| Riggs Brook                         | Kennebec River      | Lat 44°19'49", long 69°43'36", Kenne-<br>bec County, upstream end of culvert on<br>No. Belfast Avenue, near Augusta, Me.                                     |                                        |                                            | 05-19-76                                                 | 40.6                                 |
| Riggs Brook                         | Kennebec River      | Lat 44°20'17", long 69°43'42", Kenne-<br>bec County, upstream side of bridge<br>on Churchill Road, near Augusta, Me.                                         |                                        |                                            | 05-19-76                                                 | 26.9                                 |
| Riggs Brook                         | Kennebec River      | Lat 44°21'10", long 69°43'45", Kenne-<br>bec County, upstream end of culvert on<br>Blair Road, near Augusta, Me.                                             |                                        |                                            | 05-06-76<br>05-19-76                                     | 10.2<br>32.7                         |
| Riggs Brook<br>Tributary            | Riggs Brook         | Lat 44°21'21", long 69°43'03", Kenne-<br>bec County, upstream end of culvert on<br>Churchill Road, near Augusta, Me.                                         |                                        |                                            | 05-06-76<br>05-19-76                                     | 5.95<br>23.0                         |
| Riggs Brook                         | Kennebec River      | Lat 44°21'00", long 69°44'16", Kenne-<br>bec County, downstream side of bridge<br>on Blair Road, near Augusta, Me.                                           |                                        |                                            | 05-06-76<br>05-19-76<br>07-12-76                         | 18.2<br>57.3<br>3.70                 |
| Riggs Brook                         | Kennebec River      | Lat 44°20'15", long 69°45'20", Kenne-<br>bec County, upstream side of bridge<br>on private road, .25 mi (.40 km) up-<br>stream from mouth, near Augusta, Me. |                                        |                                            | 05-13-76<br>05-20-76<br>07-12-76<br>07-12-76             | 27.9<br>106<br>3.88<br>3.74          |
| Riggs Brook                         | Kennebec River      | Lat 44°20'15", long 69°45'26", Kenne-<br>bec County, upstream end of culvert on<br>Bangor Street, near Augusta, Me.                                          |                                        |                                            | 05-06-76                                                 | 19.5                                 |
| Whitney Brook                       | Kennebec River      | Lat 44°18'29", long 69°45'16", Kenne-<br>bec County, downstream end of culvert<br>on State Highway 17, near Augusta, Me.                                     |                                        |                                            | 05-19-76                                                 | 6.20                                 |
| Whitney Brook                       | Kennebec River      | Lat 44°19'12", long 69°45'10", Kenne-<br>bec County, downstream end of culvert<br>on So. Belfast Avenue, near Augusta, Me.                                   |                                        |                                            | 05-19-76                                                 | 5.58                                 |
| Whitney Brook                       | Kennebec River      | Lat 44°19'32", long 69°45'46", Kenne-<br>bec County, 50 ft (15 m) upstream<br>from culvert on Elm Avenue, at<br>Augusta, Me.                                 |                                        |                                            | 05-02-76<br>05-03-76<br>05-13-76<br>05-19-76             | 9.06<br>3.55<br>2.46<br>16.0         |
|                                     |                     |                                                                                                                                                              |                                        |                                            | 05-08-76<br>05-13-76                                     | 6.34<br>7.17                         |
| Stone Brook                         | Bond Brook          | Lat 44°20'22", long 69°48'29", Kenne-<br>bec County, at mouth, near Augusta, Me.                                                                             |                                        |                                            | 05-19-76<br>07-12-76                                     | 22.4<br>5.90                         |
| Bond Brook                          | Kennebec River      | Lat 44°20'18", long 69°48'32", Kenne-<br>bec County, downstream side of<br>bridge on Old Belgrade Road, near<br>Augusta, Me.                                 |                                        |                                            | 05-08-76<br>05-13-76<br>05-19-76<br>06-25-76             | 32.0<br>31.6<br>159<br>32.3          |

## DISCHARGE AT PARTIAL-RECORD STATIONS AND MISCELLANEOUS SITES

## DISCHARGE MEASUREMENTS MADE AT MISCELLANEOUS SITES DURING WATER YEAR 1976--CONTINUED

| Stream                           | Tributary to            | Location                                                                                                                                            | Drainage<br>area<br>(mi <sup>2</sup> ) | Measured<br>previously<br>(water<br>years) | Measurements |                                   |
|----------------------------------|-------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------|--------------------------------------------|--------------|-----------------------------------|
|                                  |                         |                                                                                                                                                     |                                        |                                            | Date         | Discharge<br>(ft <sup>3</sup> /s) |
| Kennebec River basin--Continued  |                         |                                                                                                                                                     |                                        |                                            |              |                                   |
| Bond Brook                       | Kennebec River          | Lat 44°19'54", long 69°47'50", Kenne-<br>bec County, 1.8 mi (2.9 km) upstream<br>from mouth, near Augusta, Me.                                      |                                        |                                            | 05-03-76     | 44.1                              |
|                                  |                         |                                                                                                                                                     |                                        |                                            | 05-08-76     | 39.8                              |
|                                  |                         |                                                                                                                                                     |                                        |                                            | 05-19-76     | 252                               |
|                                  |                         |                                                                                                                                                     |                                        |                                            | 06-17-76     | 9.35                              |
|                                  |                         |                                                                                                                                                     |                                        |                                            | 06-25-76     | 55.7                              |
|                                  |                         |                                                                                                                                                     |                                        |                                            | 07-12-76     | 28.1                              |
| Kennebec River                   | Atlantic Ocean          | Lat 44°18'51", long 69°46'28", Kenne-<br>bec County, upstream side of bridge<br>on Bridge Street, at Augusta, Me.                                   |                                        |                                            | 05-03-76     | 28400                             |
|                                  |                         |                                                                                                                                                     |                                        |                                            | 07-01-76     | 6360                              |
|                                  |                         |                                                                                                                                                     |                                        |                                            | 07-02-76     | 12200                             |
|                                  |                         |                                                                                                                                                     |                                        |                                            | 07-14-76     | 43900                             |
| Vaughn Brook<br>Tributary        | Vaughn Brook            | Lat 44°16'54", long 69°49'10", Kenne-<br>bec County, upstream end of culvert<br>on Central Street, near Hallowell, Me.                              |                                        |                                            | 08-11-76     | 49200                             |
| Vaughn Brook                     | Kennebec River          | Lat 44°16'34", long 69°48'42", Kenne-<br>bec County, upstream side of bridge on<br>Vaughn Road, near Hallowell, Me.                                 |                                        |                                            | 05-19-76     | 53.4                              |
| Vaughn Brook                     | Kennebec River          | Lat 44°16'34", long 69°48'42", Kenne-<br>bec County, upstream side of bridge on<br>Vaughn Road, near Hallowell, Me.                                 |                                        |                                            | 05-19-76     | 108                               |
| Vaughn Brook                     | Kennebec River          | Lat 44°16'42", long 69°48'12", Kenne-<br>bec County, upstream side of bridge on<br>town road, near Hallowell, Me.                                   |                                        |                                            | 05-19-76     | 120                               |
| Vaughn Brook                     | Kennebec River          | Lat 44°16'34", long 69°47'32", Kenne-<br>bec County, upstream side of bridge on<br>U.S. Highway 201, near Hallowell, Me.                            |                                        |                                            | 05-19-76     | 52.9                              |
| Dead Stream                      | Maranacook Lake         | Lat 44°23'20", long 69°58'24", Kenne-<br>bec County, left bank, 7 ft (2 m)<br>upstream from culvert on State High-<br>way 41, at Readfield, Me.     | 9.73                                   | 1975                                       | 10-23-75     | 17.6                              |
|                                  |                         |                                                                                                                                                     |                                        |                                            | 01-15-76     | 13.9                              |
|                                  |                         |                                                                                                                                                     |                                        |                                            | 03-29-76     | 92.2                              |
|                                  |                         |                                                                                                                                                     |                                        |                                            | 10-23-75     | 9.00                              |
|                                  |                         |                                                                                                                                                     |                                        |                                            | 11-14-75     | 48.7                              |
|                                  |                         |                                                                                                                                                     |                                        |                                            | 12-05-75     | 91.8                              |
| Mill Stream                      | Lake Annabessa-<br>cook | Lat 44°18'24", long 69°58'18", Kennebec<br>County, 500 ft (152 m) below bridge<br>on Main Street, at Winthrop, Me.                                  | 32.9                                   | 1975                                       | 01-15-76     | 48.6                              |
|                                  |                         |                                                                                                                                                     |                                        |                                            | 03-31-76     | 273                               |
|                                  |                         |                                                                                                                                                     |                                        |                                            | 04-02-76     | 422                               |
|                                  |                         |                                                                                                                                                     |                                        |                                            | 04-02-76     | 416                               |
|                                  |                         |                                                                                                                                                     |                                        |                                            | 04-06-76     | 371                               |
|                                  |                         |                                                                                                                                                     |                                        |                                            | 10-23-75     | 3.68                              |
| Hoyt Brook                       | Lake Annabessa-<br>cook | Lat 44°16'54", long 69°59'14", Kenne-<br>bec County, upstream side of culvert<br>on the Annabessacook Road, near<br>Winthrop, Me.                   | 3.50                                   | 1975                                       | 11-14-75     | 31.8                              |
|                                  |                         |                                                                                                                                                     |                                        |                                            | 01-15-76     | 9.43                              |
|                                  |                         |                                                                                                                                                     |                                        |                                            | 03-31-76     | 40.2                              |
|                                  |                         |                                                                                                                                                     |                                        |                                            | 04-02-76     | 81.0                              |
| Carlton Stream                   | Upper Narrows<br>Lake   | Lat 44°19'26", long 69°55'40", Kenne-<br>bec County, 4.5 ft (1.4 m) upstream<br>from culvert on State Highway 135,<br>near East Winthrop, Me.       | 3.42                                   | 1975                                       | 10-23-75     | 0.86                              |
|                                  |                         |                                                                                                                                                     |                                        |                                            | 11-14-75     | 10.9                              |
|                                  |                         |                                                                                                                                                     |                                        |                                            | 12-12-75     | 2.66                              |
|                                  |                         |                                                                                                                                                     |                                        |                                            | 01-15-76     | 4.73                              |
|                                  |                         |                                                                                                                                                     |                                        |                                            | 03-30-76     | 8.49                              |
| Lower Narrows<br>Pond Outlet     | Lake Annabessa-<br>cook | Lat 44°17'00", long 69°57'52", Kenne-<br>bec County, on left bank, 5 ft<br>(1 m) upstream from culvert on<br>town road, near Winthrop, Me.          | 9.45                                   |                                            | 04-02-76     | 17.1                              |
|                                  |                         |                                                                                                                                                     |                                        |                                            | 03-29-76     | 56.8                              |
| Berry Pond<br>Outlet             | Dexter Pond             | Lat 44°19'33", long 70°01'32", Kenne-<br>bec County, downstream side of<br>bridge on town road, near Winthrop,<br>Me.                               |                                        |                                            | 06-17-76     | 2.26                              |
|                                  |                         |                                                                                                                                                     |                                        |                                            | 05-22-76     | 68.4                              |
| Dexter Pond<br>Outlet            | Wilson Pond             | Lat 44°18'36", long 70°02'17", Kenne-<br>bec County, upstream side of bridge<br>on town road, near Wayne, Me.                                       |                                        |                                            | 07-22-76     | 93.0                              |
| Wilson Stream                    | Lake Annabessa-<br>cook | Lat 44°16'04", long 70°01'16", Kenne-<br>bec County, on left upstream wing-<br>wall of the culvert on U.S. Highway<br>202, near North Monmouth, Me. | 17.6                                   | 1975                                       | 10-24-75     | 28.7                              |
|                                  |                         |                                                                                                                                                     |                                        |                                            | 01-15-76     | 26.1                              |
|                                  |                         |                                                                                                                                                     |                                        |                                            | 03-31-76     | 28.7                              |
|                                  |                         |                                                                                                                                                     |                                        |                                            | 04-02-76     | 31.9                              |
| Outlet of<br>Cochnewagon<br>Lake | Wilson Stream           | Lat 44°14'18", long 70°02'10", Kenne-<br>bec County, upstream side of bridge<br>on State Highway 132, at Monmouth,<br>Me.                           |                                        |                                            | 05-22-76     | 13.7                              |
|                                  |                         |                                                                                                                                                     |                                        |                                            | 10-24-75     | 4.03                              |
| Wilson Stream                    | Wilson Stream           | Lat 44°14'34", long 70°01'18", Kenne-<br>bec County, 30 ft (9 m) upstream<br>from culvert on State Highway 135,<br>at Monmouth, Me.                 | 8.16                                   | 1975                                       | 11-14-75     | 42.2                              |
|                                  |                         |                                                                                                                                                     |                                        |                                            | 12-05-75     | 15.1                              |
|                                  |                         |                                                                                                                                                     |                                        |                                            | 12-12-75     | 22.1                              |
|                                  |                         |                                                                                                                                                     |                                        |                                            | 01-15-76     | 21.0                              |
|                                  |                         |                                                                                                                                                     |                                        |                                            | 04-01-76     | 51.9                              |



## DISCHARGE MEASUREMENTS MADE AT MISCELLANEOUS SITES DURING WATER YEAR 1976--CONTINUED

| Stream                          | Tributary to           | Location                                                                                                                                                                            | Drainage<br>area<br>(mi <sup>2</sup> ) | Measured<br>previously<br>(water<br>years) | Measurements<br>Date                                                 | Discharge<br>(ft <sup>3</sup> /s)            |
|---------------------------------|------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------|--------------------------------------------|----------------------------------------------------------------------|----------------------------------------------|
| Kennebec River basin--Continued |                        |                                                                                                                                                                                     |                                        |                                            |                                                                      |                                              |
| Jug Stream                      | Cobbosseecontee Lake   | Lat 44°14'34", long 69°58'38", Kennebec County, upstream side of bridge on State Highway 135, near East Monmouth, Me.                                                               | 84.6                                   |                                            | 05-24-76<br>05-27-76<br>07-13-76                                     | 398<br>242<br>103                            |
|                                 |                        |                                                                                                                                                                                     |                                        |                                            | 10-24-75<br>12-05-75<br>12-12-75                                     | 16.7<br>24.4<br>49.1                         |
| Jock Stream                     | Cobbosseecontee Lake   | Lat 44°11'04", long 69°59'48", Kennebec County, upstream side of bridge on town road, at South Monmouth, Me.                                                                        | 13.6                                   | 1975                                       | 04-01-76<br>05-19-76<br>05-19-76<br>05-20-76                         | 89.7<br>96.9<br>155<br>118                   |
|                                 |                        |                                                                                                                                                                                     |                                        |                                            | 10-24-75<br>11-14-75                                                 | 6.61<br>16.9                                 |
| Mears Brook                     | Cobbosseecontee Lake   | Lat 44°19'16", long 69°53'40", Kennebec County, 10 ft (3 m) upstream from culvert on town road, at East Winthrop, Me.                                                               | 4.94                                   |                                            | 12-05-75<br>12-12-75<br>03-29-76<br>04-02-76                         | 10.7<br>14.8<br>52.3<br>72.4                 |
| Western Brook                   | Cobbosseecontee Lake   | Lat 44°19'30", long 69°51'30", Kennebec County, on right bank, 2.5 ft (0.8 m) upstream from culvert at the intersection of U.S. Highway 202 and Winthrop Street, at Manchester, Me. | 0.94                                   | 1975                                       | 10-24-75<br>11-14-75<br>12-12-75<br>03-29-76<br>08-05-76<br>08-06-76 | 0.51<br>6.89<br>2.50<br>8.46<br>0.43<br>0.27 |
| Cobbosseecontee Lake Outlet     | Cobbosseecontee Stream | Lat 44°16'43", long 69°53'13", Kennebec County, upstream side of bridge on Pond Road, near Manchester, Me.                                                                          |                                        |                                            | 05-24-76<br>05-27-76<br>07-13-76                                     | 652<br>289<br>24.2                           |
| Jimmie Pond Outlet              | Hutchinson Pond        | Lat 44°16'32", long 69°52'02", Kennebec County, downstream side of bridge on town road, near Farmingdale, Me.                                                                       |                                        |                                            | 05-19-76                                                             | 24.6                                         |
| Hutchinson Pond Outlet          | Cobbosseecontee Stream | Lat 44°15'39", long 69°53'00", Kennebec County, upstream end of culvert on town road, near Manchester, Me.                                                                          |                                        |                                            | 05-19-76                                                             | 16.6                                         |
| Cobbosseecontee Stream          | Kennebec River         | Lat 44°14'42", long 69°53'42", Kennebec County, upstream side of bridge on town road, near Frenchs Corner, Me.                                                                      |                                        |                                            | 05-19-76<br>05-24-76<br>05-27-76<br>07-13-76                         | 455<br>657<br>344<br>84.5                    |
| Cobbosseecontee Stream          | Kennebec River         | Lat 44°13'17", long 69°55'13", Kennebec County, downstream side of bridge on Litchfield Road, at Litchfield, Me.                                                                    |                                        |                                            | 05-19-76                                                             | 429                                          |
| Inlet Brook to Jimmy Pond       | Jimmy Pond             | Lat 44°08'08", long 70°00'28", Kennebec County, upstream end of culvert on State Highway 197, near Litchfield Corners, Me.                                                          |                                        |                                            | 05-19-76                                                             | 59.2                                         |
| Buker Pond Outlet               | Sand Pond              | Lat 44°10'12", long 69°58'40", Kennebec County, upstream side of bridge on town road, near South Monmouth, Me.                                                                      |                                        |                                            | 05-19-76                                                             | 105                                          |
| Sand Pond Outlet                | Woodbury Pond          | Lat 44°11'20", long 69°57'55", Kennebec County, downstream side of bridge on State Highway 126, at Tacoma, Me.                                                                      |                                        |                                            | 05-19-76                                                             | 73.9                                         |
| Woodbury Pond Outlet Stream     | Cobbosseecontee Lake   | Lat 44°12'54", long 69°55'56", Kennebec County, downstream side of bridge on the Hallowell Road, at Litchfield, Me.                                                                 | 15.7                                   | 1975                                       | 10-24-75<br>12-05-75<br>12-12-75<br>04-01-76                         | 10.1<br>1.62<br>13.3<br>131                  |
| Cobbosseecontee Stream          | Kennebec River         | Lat 44°12'09", long 69°58'58", Kennebec County, upstream side of bridge on State Highway 126, at Spears Corner, Me.                                                                 |                                        |                                            | 05-24-76<br>05-27-76<br>07-13-76                                     | 877<br>477<br>119                            |
| Cobbosseecontee Stream          | Kennebec River         | Lat 44°11'34", long 69°53'48", Kennebec County, upstream side of bridge on Dennis Hill Road, near Spears Corner, Me.                                                                |                                        |                                            | 05-21-76<br>05-24-76<br>05-27-76<br>07-13-76                         | 1310<br>955<br>404<br>153                    |
| Cobbosseecontee Stream          | Kennebec River         | Lat 44°10'45", long 69°51'21", Kennebec County, upstream side of bridge on Pond Road, near Gardiner, Me.                                                                            |                                        |                                            | 05-27-76<br>07-13-76                                                 | 389<br>76.0                                  |
|                                 |                        |                                                                                                                                                                                     |                                        |                                            | 10-24-75<br>12-05-75<br>12-12-75                                     | 4.80<br>8.56<br>19.3                         |
| Potters Brook                   | Pleasant Pond          | Lat 43°08'54", long 69°55'30", Kennebec County, upstream headwall of box culvert on Pond Road, near Litchfield Plains, Me.                                                          | 5.17                                   |                                            | 04-01-76<br>04-06-76<br>05-13-76                                     | 36.6<br>19.8<br>7.81                         |

## DISCHARGE MEASUREMENTS MADE AT MISCELLANEOUS SITES DURING WATER YEAR 1976--CONTINUED

| Stream                             | Tributary to          | Location                                                                                                                                                                           | Drainage<br>area<br>(mi <sup>2</sup> ) | Measured<br>previously<br>(water<br>years) | Measurements                                             |                                    |
|------------------------------------|-----------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------|--------------------------------------------|----------------------------------------------------------|------------------------------------|
|                                    |                       |                                                                                                                                                                                    |                                        |                                            | Date                                                     | Discharge<br>(ft <sup>3</sup> /s)  |
| Kennebec River basin--Continued    |                       |                                                                                                                                                                                    |                                        |                                            |                                                          |                                    |
| Magotty Meadow<br>Brook            | Pleasant Pond         | Lat 43°06'54", long 69°54'36", Kenne-<br>bec County, 25 ft (8 m) upstream<br>from culvert on State Highway 197,<br>near Richmond, Me.                                              | 6.76                                   | 1975                                       | 10-24-75<br>12-12-75<br>04-01-76<br>04-06-76             | 6.36<br>24.7<br>97.8<br>26.6       |
| Cobbosseecontee<br>Stream          | Kennebec River        | Lat 44°13'11", long 69°47'26", Kenne-<br>bec County, downstream side of bridge<br>on State Highways 9 and 126, at<br>Gardiner, Me.                                                 |                                        |                                            | 05-21-76                                                 | 1530                               |
| Cobbosseecontee<br>Stream          | Kennebec River        | Lat 43°13'46", long 69°46'40", Kenne-<br>bec County, downstream side of<br>bridge on Winter Street, at<br>Gardiner, Me.                                                            | 219                                    | 1975                                       | 10-27-75<br>03-31-76<br>04-06-76<br>05-21-76<br>09-21-76 | 293<br>1150<br>1840<br>1320<br>153 |
| Kennebec River                     | Atlantic Ocean        | Lat 44°13'52", long 69°46'16", Kenne-<br>bec County, upstream side of bridge<br>on State Highway 9, at Gardiner, Me.                                                               |                                        |                                            | 05-21-76<br>05-21-76<br>07-01-76                         | 33800<br>40000<br>2030             |
| Mr. Murphy<br>Brook                | Kennebec River        | Lat 44°13'56", long 69°45'30", Kenne-<br>bec County, upstream end of culvert<br>on State Highway 226, at Randolph, Me.                                                             |                                        |                                            | 05-20-76                                                 | 7.29                               |
| Togus Pond<br>Outlet               | Lower Togus Pond      | Lat 44°18'49", long 69°39'28", Kenne-<br>bec County, upstream side of bridge<br>on State Highway 105, near Augusta,<br>Me.                                                         |                                        |                                            | 05-20-76                                                 | 1.98                               |
| Lower Togus<br>Pond West<br>Outlet | Togus Stream          | Lat 44°16'42", long 69°41'04", Kenne-<br>bec County, upstream end of culvert<br>on State Highway 17, near Chelsea, Me.                                                             |                                        |                                            | 05-20-76                                                 | 85.8                               |
| Lower Togus<br>Pond East<br>Outlet | Togus Stream          | Lat 44°16'37", long 69°40'54", Kenne-<br>bec County, upstream end of culvert<br>on State Highway 17, near Chelsea, Me.                                                             |                                        |                                            | 05-20-76                                                 | 1.70                               |
| Togus Stream                       | Kennebec River        | Lat 44°16'20", long 69°41'14", Kenne-<br>bec County, upstream side of bridge<br>on State Highway 226, near Chelsea,<br>Me.                                                         |                                        |                                            | 05-20-76                                                 | 71.3                               |
| Chase Meadow<br>Brook              | Togus Stream          | Lat 44°16'00", long 69°42'02", Kenne-<br>bec County, upstream end of culvert<br>on State Highway 226, near Chelsea,<br>Me.                                                         |                                        |                                            | 05-10-76<br>05-20-76                                     | 8.60<br>45.9                       |
| Togus Stream                       | Kennebec River        | Lat 44°15'02", long 69°42'08", Kenne-<br>bec County, upstream side of bridge<br>on town road, near Chelsea, Me.                                                                    |                                        |                                            | 05-10-76<br>05-10-76<br>05-20-76                         | 27.9<br>20.0<br>99.3               |
| Togus Stream                       | Kennebec River        | Lat 44°14'01", long 69°43'29", Kenne-<br>bec County, upstream side of bridge,<br>0.5 mi (0.8 km) upstream from mouth<br>of Stony Meadow Brook, on town road,<br>near Randolph, Me. |                                        |                                            | 05-10-76<br>05-20-76                                     | 38.0<br>109                        |
| Stony Meadow<br>Brook              | Togus Stream          | Lat 44°13'25", long 69°43'03", Kenne-<br>bec County, upstream end of culvert<br>on town road, near Randolph, Me.                                                                   |                                        |                                            | 05-10-76<br>05-20-76                                     | 8.67<br>53.8                       |
| The Branch                         | Eastern River         | Lat 44°10'36", long 69°40'21", Kenne-<br>bec County, upstream side of bridge<br>on State Highway 184, at East<br>Pittston, Me.                                                     |                                        |                                            | 05-15-76<br>05-15-76                                     | 22.8<br>16.0                       |
| Androscoggin River basin           |                       |                                                                                                                                                                                    |                                        |                                            |                                                          |                                    |
| Stetson Brook                      | Androscoggin<br>River | Lat 44°08'54", long 70°09'54", Andros-<br>coggin County, downstream end of<br>culvert on College Road, near Lewis-<br>ton, Me.                                                     |                                        |                                            | 11-14-75<br>11-17-75                                     | 91.9<br>17.6                       |
| Stetson Brook                      | Androscoggin<br>River | Lat 44°07'32", long 70°11'16", Andros-<br>coggin County, upstream end of cul-<br>vert on College Road, 1 mi (2 km)<br>upstream from mouth, near Lewiston,<br>Me.                   |                                        |                                            | 04-09-76<br>04-16-76                                     | 40.7<br>23.1                       |
| Stetson Brook                      | Androscoggin<br>River | Lat 44°07'40", long 70°11'56", Andros-<br>coggin County, downstream side of<br>railroad bridge, near Lewiston, Me.                                                                 |                                        |                                            | 07-01-76                                                 | 12.1                               |
| Stetson Brook<br>Tributary         | Stetson Brook         | Lat 44°08'02", long 70°11'36", Andros-<br>coggin County, upstream side of cul-<br>vert on Stetson Road, near Lewiston, Me.                                                         |                                        |                                            | 03-30-76<br>04-09-76                                     | 6.90<br>1.87                       |

| Stream                              | Tributary to              | Location                                                                                                                                             | Drainage<br>area<br>(mi <sup>2</sup> ) | Measured<br>previously<br>(water<br>years) | Measurements                                 |                                   |
|-------------------------------------|---------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------|--------------------------------------------|----------------------------------------------|-----------------------------------|
|                                     |                           |                                                                                                                                                      |                                        |                                            | Date                                         | Discharge<br>(ft <sup>3</sup> /s) |
| Androscoggin River basin--Continued |                           |                                                                                                                                                      |                                        |                                            |                                              |                                   |
| Stetson Brook<br>Tributary          | Stetson Brook             | Lat 44°07'45", long 70°11'55", Androscoggin County, downstream end of culvert on Dumais Street, near Lewiston, Me.                                   |                                        |                                            | 11-14-75<br>03-30-76                         | 8.50<br>7.10                      |
| Stetson Brook                       | Androscoggin<br>River     | Lat 44°07'44", long 70°12'00", Androscoggin County, downstream end of culvert on Main Street, near Lewiston, Me.                                     |                                        |                                            | 11-14-75<br>03-30-76<br>07-01-76             | 104<br>178<br>15.3                |
| Jepson Brook                        | Androscoggin<br>River     | Lat 44°06'54", long 70°12'03", Androscoggin County, downstream end of culvert on Manning Drive, at Lewiston, Me.                                     |                                        |                                            | 07-30-76                                     | 9.19                              |
| Stony Brook                         | Little Androscoggin River | Lat 44°13'23", long 70°30'24", Oxford County, upstream side of bridge on State Highway 117, at South Paris, Me.                                      | 14.7                                   | 1975                                       | 11-15-75<br>04-08-76                         | 56.9<br>55.3                      |
| North Pond<br>Outlet Brook          | Pennesseewassee<br>Lake   | Lat 44°16'06", long 70°36'27", Oxford County, upstream end of culvert on town road, near Norway, Me.                                                 |                                        |                                            | 09-08-76                                     | 2.26                              |
| Greeley Brook                       | Thompson Lake             | Lat 44°08'12", long 70°31'36", Oxford County, downstream end of twin culvert on town road, near Oxford, Me.                                          |                                        |                                            | 09-08-76                                     | 5.22                              |
| Winter Brook                        | Hogan Pond                | Lat 44°04'36", long 70°26'10", Androscoggin County, at bridge on town road, near Mechanic Falls, Me.                                                 |                                        |                                            | 09-10-76                                     | 5.88                              |
| Little Androscoggin River           | Androscoggin<br>River     | Lat 44°06'37", long 70°25'03", Androscoggin County, downstream side of bridge on Lane Road, near Mechanic Falls, Me.                                 | 231                                    | 1975                                       | 11-15-75<br>04-08-76                         | 1130<br>1470                      |
| Lapham Brook                        | Taylor Pond               | Lat 44°07'40", long 70°16'38", Androscoggin County, upstream side of bridge on town road, near Young Corner, Me.                                     | 7.99                                   |                                            | 09-09-76                                     | 0.73                              |
| Hodgkins Brook                      | Taylor Pond               | Lat 44°06'36", long 70°17'50", Androscoggin County, downstream end of culvert on town road, near Auburn, Me.                                         |                                        |                                            | 09-09-76                                     | 0.09                              |
| Taylor Brook                        | Little Androscoggin River | Lat 44°05'58", long 70°16'02", Androscoggin County, upstream side of bridge on town road, near Auburn, Me.                                           |                                        |                                            | 09-10-76                                     | 6.46                              |
| Hart Brook                          | Androscoggin<br>River     | Lat 44°04'34", long 70°11'01", Androscoggin County, upstream end of culvert on Lisbon Road, at Lewiston, Me.                                         |                                        |                                            | 04-08-76                                     | 2.94                              |
| Hart Brook                          | Androscoggin<br>River     | Lat 44°04'30", long 70°11'14", Androscoggin County, downstream side of railroad bridge, at Lewiston, Me.                                             |                                        |                                            | 04-16-76<br>05-04-76                         | 2.25<br>2.72                      |
| Hart Brook                          | Androscoggin<br>River     | Lat 44°04'10", long 70°11'41", Androscoggin County, upstream end of culvert on Goddard Road, at Lewiston, Me.                                        |                                        |                                            | 12-01-75                                     | 20.4                              |
| Hart Brook                          | Androscoggin<br>River     | Lat 44°04'14", long 70°11'50", Androscoggin County, upstream end of culvert on Maine Turnpike, 1.0 mi (2.0 km) upstream from mouth, at Lewiston, Me. |                                        |                                            | 04-16-76<br>05-04-76<br>05-13-76<br>07-01-76 | 2.52<br>3.76<br>3.84<br>0.96      |
| Moody Brook                         | Salmon Brook              | Lat 44°02'19", long 70°08'59", Androscoggin County, upstream end of culvert or Pinewoods Road, near Lewiston, Me.                                    |                                        |                                            | 05-04-76<br>05-13-76                         | 1.17<br>1.48                      |
| Salmon Brook                        | Androscoggin<br>River     | Lat 44°11'15", long 70°09'34", Androscoggin County, 20 ft (6 m) downstream from mouth of Moody Brook, near Lewiston, Me.                             |                                        |                                            | 05-04-76<br>05-13-76                         | 10.2<br>10.2                      |
| Sabattus River                      | Androscoggin<br>River     | Lat 44°07'12", long 70°06'32", Androscoggin County, 75 ft (23 m) below bridge, at Sabbatus, Me.                                                      | 34.2                                   | 1975                                       | 10-21-75<br>11-15-75<br>04-07-76             | 81.2<br>129<br>99.4               |
| Sabattus River                      | Androscoggin<br>River     | Lat 44°04'29", long 70°06'17", Androscoggin County, upstream side of bridge on Crowley Road, near Robinson Corner, Me.                               | 47.9                                   | 1975                                       | 10-21-75<br>11-15-75<br>04-07-76             | 127<br>163<br>128                 |

## DISCHARGE AT PARTIAL-RECORD STATIONS AND MISCELLANEOUS SITES

## DISCHARGE MEASUREMENTS MADE AT MISCELLANEOUS SITES DURING WATER YEAR 1976--CONTINUED

| Stream                              | Tributary to   | Location                                                                                                                                                                                      | Drainage<br>area<br>(mi <sup>2</sup> ) | Measured<br>previously<br>(water<br>years) | Measurements |                                   |
|-------------------------------------|----------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------|--------------------------------------------|--------------|-----------------------------------|
|                                     |                |                                                                                                                                                                                               |                                        |                                            | Date         | Discharge<br>(ft <sup>3</sup> /s) |
| Androscoggin River basin--Continued |                |                                                                                                                                                                                               |                                        |                                            |              |                                   |
| No Name Brook                       | Sabattus River | Lat 44°07'45", long 70°08'24", Androscoggin County, upstream end of culvert on Pond Road, near Lewiston, Me.                                                                                  |                                        |                                            | 04-07-76     | 3.96                              |
| No Name Brook                       | Sabattus River | Lat 44°06'02", long 70°08'45", Androscoggin County, upstream end of culvert on Sabattus Road, near Lewiston, Me.                                                                              |                                        |                                            | 11-15-75     | 15.4                              |
| No Name Brook                       | Sabattus River | Lat 44°06'00", long 70°08'46", Androscoggin County, upstream end of culvert on Golder Road, near Lewiston, Me.                                                                                |                                        |                                            | 04-07-76     | 25.7                              |
| Tributary Two                       | No Name Brook  | Lat 44°05'44", long 70°09'32", Androscoggin County, upstream end of culvert on No Name Pond Road, near Lewiston, Me.                                                                          |                                        |                                            | 11-14-75     | 9.93                              |
| No Name Brook                       | Sabattus River | Lat 44°05'18", long 70°08'54", Androscoggin County, upstream end of culvert on Randall Road, near Lewiston, Me.                                                                               |                                        |                                            | 04-07-76     | 34.6                              |
| No Name Brook                       | Sabattus River | Lat 44°04'20", long 70°08'29", Androscoggin County, 100 ft (30 m) upstream of culvert on Webster Road, near South Lewiston, Me.                                                               | 11.3                                   | 1975                                       | 11-14-75     | 14.5                              |
|                                     |                |                                                                                                                                                                                               |                                        |                                            | 11-14-75     | 78.6                              |
|                                     |                |                                                                                                                                                                                               |                                        |                                            | 11-18-75     | 20.0                              |
|                                     |                |                                                                                                                                                                                               |                                        |                                            | 12-01-75     | 62.7                              |
|                                     |                |                                                                                                                                                                                               |                                        |                                            | 04-07-76     | 45.8                              |
| No Name Brook                       | Sabattus River | Lat 44°03'04", long 70°02'45", Androscoggin County, upstream side of railroad bridge, near Lisbon, Me.                                                                                        |                                        |                                            | 11-14-75     | 145                               |
|                                     |                |                                                                                                                                                                                               |                                        |                                            | 12-01-75     | 95.3                              |
|                                     |                |                                                                                                                                                                                               |                                        |                                            | 04-08-76     | 56.2                              |
| Androscoggin River                  | Kennebec River | Lat 43°55'03", long 69°58'25", Cumberland County, upstream side of foot bridge, 0.3 mi (0.5 km) upstream on U.S. Route 1, from corner of U.S. Route 201 and U.S. Route 201, at Brunswick, Me. |                                        |                                            | 04-07-76     | 22000                             |
|                                     |                |                                                                                                                                                                                               |                                        |                                            | 06-30-76     | 5700                              |
|                                     |                |                                                                                                                                                                                               |                                        |                                            | 07-06-76     | 2930                              |
|                                     |                |                                                                                                                                                                                               |                                        |                                            | 07-06-76     | 2800                              |
|                                     |                |                                                                                                                                                                                               |                                        |                                            | 08-11-76     | 17900                             |
|                                     |                |                                                                                                                                                                                               |                                        |                                            | 09-02-76     | 4650                              |

## 197

## 197

| Stream                   | Tributary to   | Location                                                                                                                                                            | Drainage area (mi <sup>2</sup> ) | Measured previously (water years) | Measurements                                 |                                |
|--------------------------|----------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------|-----------------------------------|----------------------------------------------|--------------------------------|
|                          |                |                                                                                                                                                                     |                                  |                                   | Date                                         | Discharge (ft <sup>3</sup> /s) |
| Royal River basin        |                |                                                                                                                                                                     |                                  |                                   |                                              |                                |
| Royal River              | Atlantic Ocean | Lat 43°57'19", long 70°16'04", Cumberland County, downstream side of bridge on State Highway 231, at New Gloucester Station, Me.                                    |                                  |                                   | 05-13-76<br>05-20-76                         | 111<br>232                     |
| Royal River              | Atlantic Ocean | Lat 43°52'04", long 70°15'40", Cumberland County, upstream side of bridge on North Road, near Gray Station, Me.                                                     | 74.0                             | 1975                              | 10-09-75<br>06-29-76<br>07-30-76             | 28.8<br>45.1<br>34.9           |
| Royal River              | Atlantic Ocean | Lat 43°51'54", long 70°14'26", Cumberland County, upstream side of bridge on State Highway 231, near North Yarmouth, Me.                                            | 77.8                             | 1975                              | 10-09-75<br>12-11-75<br>06-29-76<br>07-30-76 | 32.7<br>485<br>43.4<br>38.7    |
| Chandler Brook           | Royal River    | Lat 43°53'02", long 70°13'38", Cumberland County, downstream side of bridge on town road 1.3 mi (2.1 km) above mouth of Kenny Brook, near West Pownal, Me.          | 23.1                             | 1975                              | 10-09-75<br>12-11-75<br>06-29-76<br>07-30-76 | 4.50<br>241<br>4.18<br>3.06    |
| Kenny Brook              | Chandler Brook | Lat 43°52'22", long 70°12'52", Cumberland County, 50 ft (15 m) upstream from bridge on Mount Fort Road, near Crockett Corner, Me.                                   | 27.7                             | 1975                              | 10-09-75<br>12-11-75<br>06-29-76<br>07-30-76 | 9.74<br>468<br>11.1<br>6.45    |
| Chandler Brook           | Royal River    | Lat 43°51'40", long 70°13'15", Cumberland County, upstream side of bridge on North Road, near North Yarmouth, Me.                                                   | 53.6                             | 1975                              | 10-09-75<br>12-11-75<br>06-29-76<br>07-30-76 | 16.0<br>855<br>11.2<br>9.11    |
| Presumpscot River basin  |                |                                                                                                                                                                     |                                  |                                   |                                              |                                |
| Windham Dump Brook       | Sebago Lake    | Lat 43°52'30", long 70°27'54", Cumberland County, 6.5 ft (2.0 m) upstream from culvert on U.S. Highway 302, near Windham, Me.                                       | 1.43                             | 1975                              | 10-07-75<br>11-14-75<br>12-11-75<br>06-28-76 | 0.22<br>7.15<br>3.58<br>1.11   |
| Thomas Pond Outlet Brook | Sebago Lake    | Lat 43°54'30", long 70°30'52", Cumberland County, 150 ft (46 m) downstream from bridge on Hawthorne Road, at South Casco, Me.                                       | 5.18                             | 1975                              | 10-06-75<br>11-14-75<br>12-11-75<br>06-23-76 | 1.24<br>13.6<br>12.3<br>1.80   |
| 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.                                           | 20.0                             | 1975                              | 10-07-75<br>12-12-75<br>04-03-76<br>06-28-76 | 5.52<br>47.5<br>143<br>4.64    |
| 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.           | 19.6                             | 1975                              | 10-07-75<br>12-12-75<br>04-03-76<br>06-28-76 | 3.76<br>49.1<br>327<br>11.8    |
| 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.                                               | 96.8                             | 1975                              | 10-07-75<br>06-28-76                         | 45.0<br>137                    |
| 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.                                             | 109                              | 1975                              | 10-07-75<br>12-12-75                         | 38.4<br>227                    |
| 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.                             | 127                              | 1975                              | 10-07-75<br>04-02-76<br>06-28-76             | 60.2<br>2220<br>180            |
| 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. | 9.96                             | 1975                              | 10-07-75<br>12-12-75<br>06-23-76             | 2.28<br>29.5<br>2.91           |

## DISCHARGE AT PARTIAL-RECORD STATIONS AND MISCELLANEOUS SITES

## DISCHARGE MEASUREMENTS MADE AT MISCELLANEOUS SITES DURING WATER YEAR 1976--CONTINUED

| Stream                             | Tributary to         | Location                                                                                                                                                             | Drainage<br>area<br>(mi <sup>2</sup> ) | Measured<br>previously<br>(water<br>years) | Measurements<br>Date                                     | Discharge<br>(ft <sup>3</sup> /s)    |
|------------------------------------|----------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------|--------------------------------------------|----------------------------------------------------------|--------------------------------------|
| Presumpscot River basin--Continued |                      |                                                                                                                                                                      |                                        |                                            |                                                          |                                      |
| Bachelor Brook                     | Sebago Lake          | Lat 43°53'30", long 70°37'50", Cum-<br>berland County, on right bank<br>20 ft (6m) upstream from cul-<br>vert on State Highway 114, near<br>North Sebago, Me.        | 2.36                                   | 1975                                       | 11-14-75<br>12-12-75<br>04-03-76<br>06-23-76             | 21.0<br>4.79<br>25.9<br>0.34         |
| Northwest River                    | Sebago Lake          | Lat 43°51'44", long 70°38'34", Cum-<br>berland County, on right bank<br>400 ft (122 m) upstream from<br>bridge on State Highway 114, near<br>East Sebago, Me.        | 22.3                                   | 1975                                       | 11-14-75<br>04-03-76<br>06-23-76                         | 95.4<br>312<br>14.4                  |
| Rich Mill<br>Pond Outlet           | Sebago Lake          | Lat 43°47'00", long 70°33'56", Cum-<br>berland County, upstream side of<br>bridge 100 ft (30 m) upstream<br>from bridge on State Highway 114,<br>near Richville, Me. | 6.39                                   | 1975                                       | 04-03-76<br>06-23-76                                     | 34.4<br>4.36                         |
| Standish Brook                     | Sebago Lake          | Lat 43°45'40", long 70°31'38", Cum-<br>berland County, on right bank<br>15 ft (5 m) upstream from cul-<br>vert on State Highway 114, at<br>Sebago Lake, Me.          | 0.21                                   | 1975                                       | 06-23-76                                                 | 0.00                                 |
| Pleasant River                     | Presumpscot<br>River | Lat 43°47'12", long 70°25'18", Cum-<br>berland County, upstream side of<br>bridge on Pope Road, at Popeville,<br>Me.                                                 | 46.8                                   | 1975                                       | 10-01-75<br>12-11-75<br>06-24-76                         | 28.8<br>248<br>17.1                  |
| Martin Brook                       | Little River         | Lat 43°42'18", long 70°28'20", Cum-<br>berland County, 0.5 mi (0.8 km)<br>northwest from end of Rust Road,<br>near Gorham, Me.                                       | 1.32                                   |                                            | 06-02-76<br>06-16-76<br>07-15-76<br>07-27-76             | 0.79<br>0.41<br>0.26<br>0.32         |
| Tannery Brook                      | Little River         | Lat 43°41'11", long 70°26'51", Cum-<br>berland County, 10 ft (3 m)<br>downstream from culvert on<br>State Highway 114, at Gorham,<br>Me.                             | 0.66                                   |                                            | 06-02-76<br>06-16-76<br>07-15-76<br>07-27-76<br>08-25-76 | 0.84<br>0.24<br>0.20<br>0.18<br>0.20 |
| Little River                       | Presumpscot<br>River | Lat 43°43'16", long 70°25'28", Cum-<br>berland County, upstream side of<br>bridge on U.S. Highway 202, at<br>South Windham, Me.                                      | 49.2                                   | 1975                                       | 10-09-75<br>12-11-75<br>06-24-76                         | 21.3<br>529<br>18.8                  |
| Piscataqua<br>River                | Presumpscot<br>River | Lat 43°44'16", long 70°17'40", Cum-<br>berland County, downstream side<br>of left culvert on Leighton Road,<br>near Falmouth, Me.                                    | 20.9                                   | 1975                                       | 10-10-75<br>06-24-76<br>07-09-76                         | 7.14<br>6.73<br>6.83                 |
| East Branch<br>Piscataqua<br>River | Presumpscot<br>River | Lat 43°44'18", long 70°17'16", Cum-<br>berland County, upstream side of<br>bridge on Falmouth Road, near<br>Falmouth, Me.                                            | 20.0                                   | 1975                                       | 10-10-75<br>12-11-75<br>06-24-76<br>07-09-76             | 3.64<br>2.44<br>3.33<br>3.02         |
| Fore River basin                   |                      |                                                                                                                                                                      |                                        |                                            |                                                          |                                      |
| Stroudwater<br>River               | Fore River           | Lat 43°39'22", long 70°24'02", Cum-<br>berland County, upstream side of<br>right culvert on Brackett Road,<br>near South Gorham, Me.                                 | 16.7                                   | 1975                                       | 12-17-75<br>04-03-76                                     | 28.4<br>113                          |
| Stroudwater<br>River               | Fore River           | Lat 43°40'04", long 70°22'28", Cum-<br>berland County, left upstream<br>wing wall of bridge on Saco<br>Street, at Westbrook, Me.                                     | 23.7                                   | 1975                                       | 12-11-75<br>07-29-76                                     | 236<br>6.57                          |



## DISCHARGE MEASUREMENTS MADE AT MISCELLANEOUS SITES DURING WATER YEAR 1976--CONTINUED

| Stream                  | Tributary to          | Location                                                                                                                                             | Drainage<br>area<br>(mi <sup>2</sup> ) | Measured<br>previously<br>(water<br>years) | Measurements |                                   |
|-------------------------|-----------------------|------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------|--------------------------------------------|--------------|-----------------------------------|
|                         |                       |                                                                                                                                                      |                                        |                                            | Date         | Discharge<br>(ft <sup>3</sup> /s) |
| Coastal Drainage basins |                       |                                                                                                                                                      |                                        |                                            |              |                                   |
| Alewife Brook           | Atlantic Ocean        | Lat 43°35'03", long 70°13'07", Cum-<br>berland County, 8 ft (2 m) down-<br>stream of culvert on Ocean House<br>Road, near Cape Elizabeth, Me.        | 1.59                                   |                                            | 06-02-76     | 2.17                              |
|                         |                       |                                                                                                                                                      |                                        |                                            | 06-16-76     | 0.10                              |
|                         |                       |                                                                                                                                                      |                                        |                                            | 07-15-76     | 0.12                              |
|                         |                       |                                                                                                                                                      |                                        |                                            | 07-27-76     | 0.42                              |
| Moses Brook             | Scarborough<br>River  | Lat 43°35'10", long 70°21'19", Cum-<br>berland County, upstream end of<br>culvert on U.S. Route 1, near<br>Scarborough, Me.                          | 1.67                                   |                                            | 06-02-76     | 0.42                              |
|                         |                       |                                                                                                                                                      |                                        |                                            | 06-08-76     | 0.53                              |
|                         |                       |                                                                                                                                                      |                                        |                                            | 06-16-76     | 0.33                              |
|                         |                       |                                                                                                                                                      |                                        |                                            | 07-15-76     | 0.31                              |
|                         |                       |                                                                                                                                                      |                                        |                                            | 07-27-76     | 0.44                              |
| Mousam River basin      |                       |                                                                                                                                                      |                                        |                                            |              |                                   |
| Mousam River            | Atlantic Ocean        | Lat 43°28'04", long 70°47'52", York<br>County, downstream side of bridge<br>on Bridge Street, at Springvale, Me.                                     |                                        | 1975                                       | 10-08-75     | 54.6                              |
|                         |                       |                                                                                                                                                      |                                        |                                            | 04-02-76     | 219                               |
|                         |                       |                                                                                                                                                      |                                        |                                            | 06-23-76     | 26.5                              |
| Mousam River            | Atlantic Ocean        | Lat 43°25'54", long 70°45'42", York<br>County, downstream side of bridge<br>on School Street, near Sanford,<br>Me.                                   |                                        | 1975                                       | 10-08-75     | 61.9                              |
|                         |                       |                                                                                                                                                      |                                        |                                            | 11-14-75     | 207                               |
|                         |                       |                                                                                                                                                      |                                        |                                            | 04-02-76     | 315                               |
|                         |                       |                                                                                                                                                      |                                        |                                            | 06-23-76     | 26.6                              |
| Mousam River            | Atlantic Ocean        | Lat 43°23'05", long 70°32'34", York<br>County, downstream side of bridge<br>on U.S. Highway 1, at Kennebunk, Me.                                     |                                        | 1975                                       | 10-08-75     | 136                               |
|                         |                       |                                                                                                                                                      |                                        |                                            | 11-14-75     | 746                               |
|                         |                       |                                                                                                                                                      |                                        |                                            | 06-23-76     | 159                               |
| Piscataqua River basin  |                       |                                                                                                                                                      |                                        |                                            |              |                                   |
| Great Works<br>River    | Salmon Falls<br>River | Lat 43°19'03", long 70°44'22", York<br>County, upstream side of bridge<br>on State Highway 4, near North<br>Berwick, Me.                             | 23.4                                   |                                            | 06-03-76     | 22.0                              |
|                         |                       |                                                                                                                                                      |                                        |                                            | 06-07-76     | 20.8                              |
|                         |                       |                                                                                                                                                      |                                        |                                            | 07-14-76     | 8.68                              |
|                         |                       |                                                                                                                                                      |                                        |                                            | 07-29-76     | 8.60                              |
|                         |                       |                                                                                                                                                      |                                        |                                            | 09-29-76     | 8.14                              |
| Great Works<br>River    | Salmon Falls<br>River | Lat 43°14'50", long 70°43'39", York<br>County, on right bank, 60 ft<br>(18 m) upstream of bridge on Hop-<br>per Sand Road, at Emery's Bridge,<br>Me. | 66.0                                   |                                            | 06-03-76     | 38.8                              |
|                         |                       |                                                                                                                                                      |                                        |                                            | 06-07-76     | 35.0                              |
|                         |                       |                                                                                                                                                      |                                        |                                            | 07-14-76     | 22.2                              |
|                         |                       |                                                                                                                                                      |                                        |                                            | 07-29-76     | 18.0                              |
|                         |                       |                                                                                                                                                      |                                        |                                            | 09-29-76     | 22.5                              |

## MISCELLANEOUS MEASUREMENTS OF WATER TEMPERATURE AND SPECIFIC CONDUCTANCE

| DATE                                                                              | TIME | TEMPER-<br>ATURE<br>(DEG C) | SPE-<br>CIFIC<br>CON-<br>DUCT-<br>ANCE<br>(MICRO-<br>MHOS) | DATE   | TIME | TEMPER-<br>ATURE<br>(DEG C) | SPE-<br>CIFIC<br>CON-<br>DUCT-<br>ANCE<br>(MICRO-<br>MHOS) | DATE   | TIME | TEMPER-<br>ATURE<br>(DEG C) | SPE-<br>CIFIC<br>CON-<br>DUCT-<br>ANCE<br>(MICRO-<br>MHOS) |
|-----------------------------------------------------------------------------------|------|-----------------------------|------------------------------------------------------------|--------|------|-----------------------------|------------------------------------------------------------|--------|------|-----------------------------|------------------------------------------------------------|
| ST. JOHN RIVER BASIN                                                              |      |                             |                                                            |        |      |                             |                                                            |        |      |                             |                                                            |
| 01011500 ST. FRANCIS RIVER AT OUTLET OF GLASIER LAKE, NEAR CONNORS, NEW BRUNSWICK |      |                             |                                                            |        |      |                             |                                                            |        |      |                             |                                                            |
| OCT 08                                                                            | 1630 | 12.0                        | 60                                                         | APR 24 | 1130 | 2.5                         | 77                                                         | JUN 22 | 1630 | 21.0                        | 74                                                         |
| NOV 05                                                                            | 1000 | 8.0                         | 85                                                         |        |      |                             |                                                            |        |      |                             |                                                            |
| 01013500 FISH RIVER NEAR FORT KENT, ME                                            |      |                             |                                                            |        |      |                             |                                                            |        |      |                             |                                                            |
| OCT 08                                                                            | 0900 | 8.5                         | 41                                                         | JAN 07 | 1500 | 0.0                         | --                                                         | APR 25 | 0900 | 2.0                         | 62                                                         |
| NOV 04                                                                            | 0930 | 7.0                         | 75                                                         | MAR 04 | 1300 | 0.0                         | --                                                         | JUN 22 | 1000 | 21.5                        | 60                                                         |
| DEC 02                                                                            | 1145 | 1.5                         | --                                                         | APR 06 | 1600 | 0.5                         | 62                                                         |        |      |                             |                                                            |
| 01014000 ST. JOHN RIVER BELOW FISH RIVER, AT FORT KENT, ME                        |      |                             |                                                            |        |      |                             |                                                            |        |      |                             |                                                            |
| OCT 08                                                                            | 1200 | 8.5                         | 51                                                         | JAN 07 | 1415 | 0.0                         | --                                                         | APR 24 | 1500 | 3.0                         | 41                                                         |
| NOV 04                                                                            | 1245 | 8.0                         | 82                                                         | MAR 04 | 1000 | 0.0                         | --                                                         | JUN 22 | 1800 | 25.5                        | 65                                                         |
| DEC 02                                                                            | 1330 | 1.5                         | --                                                         |        |      |                             |                                                            |        |      |                             |                                                            |
| 01015800 AROOSTOOK RIVER NEAR MASARDIS, ME                                        |      |                             |                                                            |        |      |                             |                                                            |        |      |                             |                                                            |
| OCT 07                                                                            | 1730 | 10.0                        | 42                                                         | JAN 08 | 1400 | 0.0                         | --                                                         | APR 25 | 1730 | 4.0                         | 33                                                         |
| NOV 03                                                                            | 1530 | 6.0                         | 71                                                         | MAR 31 | 1215 | 1.0                         | 52                                                         | JUN 25 | 1130 | 23.0                        | 55                                                         |
| DEC 02                                                                            | 0945 | 0.0                         | --                                                         |        |      |                             |                                                            |        |      |                             |                                                            |
| 01016500 MACHIAS RIVER NEAR ASHLAND, ME                                           |      |                             |                                                            |        |      |                             |                                                            |        |      |                             |                                                            |
| OCT 09                                                                            | 1700 | 8.0                         | 46                                                         | DEC 02 | 1000 | 0.0                         | --                                                         | APR 22 | 1700 | 3.5                         | 38                                                         |
| NOV 03                                                                            | 1600 | 6.0                         | 68                                                         | JAN 08 | 1130 | 0.0                         | 85                                                         | JUN 24 | 1200 | 23.5                        | 65                                                         |
| 01017000 AROOSTOOK RIVER AT WASHBURN, ME                                          |      |                             |                                                            |        |      |                             |                                                            |        |      |                             |                                                            |
| OCT 07                                                                            | 0915 | 7.5                         | 45                                                         | APR 25 | 1100 | 3.5                         | 37                                                         | JUN 25 | 0845 | 23.0                        | 70                                                         |
| NOV 03                                                                            | 1930 | 0.5                         | 38                                                         | JUN 24 | 1800 | 25.0                        | 130                                                        | AUG 03 | 1700 | 20.5                        | 65                                                         |
| JAN 07                                                                            | 1730 | 0.0                         | --                                                         |        |      |                             |                                                            |        |      |                             |                                                            |
| 01017900 MARLEY BROOK NEAR LUDLOW, ME                                             |      |                             |                                                            |        |      |                             |                                                            |        |      |                             |                                                            |
| OCT 06                                                                            | 1615 | 11.0                        | 100                                                        | DEC 01 | 1000 | 1.5                         | --                                                         | MAR 01 | 1345 | 0.0                         | 90                                                         |
| NOV 03                                                                            | 1215 | 7.0                         | 128                                                        | JAN 08 | 1515 | 0.0                         | 111                                                        | JUN 21 | 1315 | 17.0                        | 105                                                        |
| 01018000 MEDUXNEKEAG RIVER NEAR HOULTON, ME                                       |      |                             |                                                            |        |      |                             |                                                            |        |      |                             |                                                            |
| OCT 06                                                                            | 1800 | 13.0                        | 137                                                        | MAR 01 | 1100 | 0.0                         | 114                                                        | APR 07 | 1230 | 2.0                         | 78                                                         |
| NOV 03                                                                            | 1345 | 7.0                         | 160                                                        | MAR 30 | 1230 | 0.0                         | 121                                                        | JUN 21 | 1615 | 24.0                        | 153                                                        |
| JAN 05                                                                            | 1415 | 0.0                         | 115                                                        | APR 04 | 1600 | 1.0                         | 63                                                         | AUG 03 | 0930 | 16.0                        | 115                                                        |
| ST. CROIX RIVER BASIN                                                             |      |                             |                                                            |        |      |                             |                                                            |        |      |                             |                                                            |
| 01018500 ST. CROIX RIVER AT VANCEBORO, ME                                         |      |                             |                                                            |        |      |                             |                                                            |        |      |                             |                                                            |
| OCT 14                                                                            | 1600 | 14.0                        | --                                                         | JUN 15 | 1000 | 21.0                        | 38                                                         | SEP 16 | 1100 | 18.0                        | 30                                                         |
| APR 07                                                                            | 1730 | 4.0                         | 104                                                        |        |      |                             |                                                            |        |      |                             |                                                            |
| 01019000 GRAND LAKE STREAM AT GRAND LAKE STREAM, ME                               |      |                             |                                                            |        |      |                             |                                                            |        |      |                             |                                                            |
| OCT 14                                                                            | 1400 | 14.5                        | --                                                         | MAR 23 | 0815 | 1.0                         | 33                                                         | SEP 16 | 1500 | 19.0                        | 26                                                         |
| NOV 11                                                                            | 1215 | 10.0                        | 20                                                         | APR 07 | 1445 | 4.0                         | 37                                                         | SEP 18 | 1445 | 12.0                        | 26                                                         |
| JAN 14                                                                            | 1445 | 0.0                         | 45                                                         | JUN 14 | 1800 | 20.0                        | 31                                                         |        |      |                             |                                                            |
| 01020000 ST. CROIX RIVER NEAR BAILEYVILLE, ME                                     |      |                             |                                                            |        |      |                             |                                                            |        |      |                             |                                                            |
| OCT 14                                                                            | 1145 | 11.5                        | --                                                         | MAR 23 | 0715 | 1.0                         | 40                                                         | JUN 14 | 1945 | 20.0                        | 42                                                         |
| NOV 11                                                                            | 1145 | 8.0                         | 26                                                         | APR 07 | 1145 | 3.0                         | 34                                                         | SEP 16 | 1615 | 18.0                        | 31                                                         |
| JAN 14                                                                            | 1615 | 0.0                         | 43                                                         |        |      |                             |                                                            |        |      |                             |                                                            |
| DENNY'S RIVER BASIN                                                               |      |                             |                                                            |        |      |                             |                                                            |        |      |                             |                                                            |
| 01021200 DENNY'S RIVER AT DENNYVILLE, ME                                          |      |                             |                                                            |        |      |                             |                                                            |        |      |                             |                                                            |
| OCT 13                                                                            | 1645 | 10.5                        | --                                                         | APR 06 | 1430 | 4.0                         | 30                                                         | SEP 16 | 1900 | 18.0                        | 40                                                         |
| MAR 22                                                                            | 1400 | 2.0                         | 38                                                         | JUN 14 | 1600 | 20.0                        | 40                                                         |        |      |                             |                                                            |
| MACHIAS RIVER BASIN                                                               |      |                             |                                                            |        |      |                             |                                                            |        |      |                             |                                                            |
| 01021500 MACHIAS RIVER AT WHITNEYVILLE, ME                                        |      |                             |                                                            |        |      |                             |                                                            |        |      |                             |                                                            |
| OCT 13                                                                            | 1445 | 11.0                        | --                                                         | MAR 22 | 1300 | 0.0                         | 35                                                         | JUN 14 | 1230 | 22.0                        | --                                                         |
| NOV 10                                                                            | 1330 | 8.0                         | 25                                                         | APR 06 | 1145 | 4.0                         | 26                                                         |        |      |                             |                                                            |
| NARRAGUAGUS RIVER BASIN                                                           |      |                             |                                                            |        |      |                             |                                                            |        |      |                             |                                                            |
| 01022500 NARRAGUAGUS RIVER AT CHERRYFIELD, ME                                     |      |                             |                                                            |        |      |                             |                                                            |        |      |                             |                                                            |
| OCT 13                                                                            | 1215 | 10.5                        | --                                                         | MAR 22 | 1145 | 1.0                         | 25                                                         | SEP 13 | 1130 | 15.5                        | 32                                                         |
| NOV 10                                                                            | 1115 | 9.0                         | 25                                                         | JUN 14 | 1015 | 19.0                        | 34                                                         |        |      |                             |                                                            |

| DATE                                                   | TIME | TEMPER-<br>ATURE<br>(DEG C) | SPE-<br>CIFIC<br>CON-<br>DUCT-<br>ANCE<br>(MICRO-<br>MHOS) | DATE   | TIME | TEMPER-<br>ATURE<br>(DEG C) | SPE-<br>CIFIC<br>CON-<br>DUCT-<br>ANCE<br>(MICRO-<br>MHOS) | DATE   | TIME | TEMPER-<br>ATURE<br>(DEG C) | SPE-<br>CIFIC<br>CON-<br>DUCT-<br>ANCE<br>(MICRO-<br>MHOS) |
|--------------------------------------------------------|------|-----------------------------|------------------------------------------------------------|--------|------|-----------------------------|------------------------------------------------------------|--------|------|-----------------------------|------------------------------------------------------------|
| UNION RIVER BASIN                                      |      |                             |                                                            |        |      |                             |                                                            |        |      |                             |                                                            |
| 01023000 WEST BRANCH UNION RIVER AT AMHERST, ME        |      |                             |                                                            |        |      |                             |                                                            |        |      |                             |                                                            |
| OCT 16                                                 | 1030 | 11.0                        | --                                                         | JAN 16 | 1300 | 0.0                         | 38                                                         | JUN 07 | 1400 | 17.0                        | 37                                                         |
| NOV 13                                                 | 1445 | 7.5                         | 27                                                         | MAR 07 | 1230 | 0.0                         | 36                                                         | SEP 13 | 1245 | 18.0                        | 32                                                         |
| DEC 09                                                 | 1130 | 0.0                         | 35                                                         |        |      |                             |                                                            |        |      |                             |                                                            |
| 01024200 GARLAND BROOK NEAR MARIAVILLE, ME             |      |                             |                                                            |        |      |                             |                                                            |        |      |                             |                                                            |
| DEC 09                                                 | 1245 | 0.0                         | 35                                                         | MAR 09 | 1430 | 0.0                         | 35                                                         | SEP 13 | 1530 | 14.5                        | 35                                                         |
| JAN 16                                                 | 1500 | 0.0                         | --                                                         | APR 05 | 1615 | 3.0                         | 26                                                         |        |      |                             |                                                            |
| PENOBSCOT RIVER BASIN                                  |      |                             |                                                            |        |      |                             |                                                            |        |      |                             |                                                            |
| 01029500 EAST BRANCH PENOBSCOT RIVER AT GRINDSTONE, ME |      |                             |                                                            |        |      |                             |                                                            |        |      |                             |                                                            |
| OCT 15                                                 | 1715 | 10.5                        | --                                                         | JAN 12 | 1630 | 0.0                         | 53                                                         | APR 04 | 1330 | 1.5                         | 27                                                         |
| NOV 06                                                 | 1315 | 6.0                         | 38                                                         | FEB 17 | 1600 | 0.0                         | 46                                                         | JUN 10 | 1615 | 24.0                        | 34                                                         |
| NOV 11                                                 | 1030 | 5.5                         | 30                                                         | MAR 31 | 1530 | 0.0                         | 40                                                         | AUG 17 | 1500 | 19.5                        | 40                                                         |
| DEC 10                                                 | 1430 | 0.0                         | 55                                                         |        |      |                             |                                                            |        |      |                             |                                                            |
| 01030000 PENOBSCOT RIVER NEAR MATTAWAMKEAG, ME         |      |                             |                                                            |        |      |                             |                                                            |        |      |                             |                                                            |
| OCT 15                                                 | 1430 | 11.5                        | --                                                         | JAN 12 | 1430 | 0.0                         | 55                                                         | AUG 17 | 1415 | 21.0                        | 67                                                         |
| NOV 06                                                 | 1530 | 8.0                         | 48                                                         | FEB 17 | 1330 | 0.0                         | 55                                                         | SEP 15 | 1200 | 18.0                        | 42                                                         |
| DEC 10                                                 | 1215 | 1.0                         | 65                                                         | JUN 10 | 1345 | 22.0                        | 46                                                         |        |      |                             |                                                            |
| 01030500 MATTAWAMKEAG RIVER NEAR MATTAWAMKEAG, ME      |      |                             |                                                            |        |      |                             |                                                            |        |      |                             |                                                            |
| OCT 15                                                 | 1215 | 11.0                        | --                                                         | JAN 12 | 1300 | 0.0                         | 72                                                         | JUN 10 | 1130 | 23.0                        | 47                                                         |
| DEC 10                                                 | 1100 | 0.0                         | 60                                                         | FEB 17 | 1300 | 0.0                         | 60                                                         | AUG 17 | 1215 | 21.0                        | 65                                                         |
| 01031500 PISCATAQUIS RIVER NEAR DOVER-FOXCROFT, ME     |      |                             |                                                            |        |      |                             |                                                            |        |      |                             |                                                            |
| OCT 30                                                 | 1200 | 6.5                         | 32                                                         | MAR 11 | 1645 | 0.0                         | 64                                                         | JUN 28 | 1215 | 20.0                        | 42                                                         |
| NOV 25                                                 | 1345 | 0.5                         | 50                                                         | APR 04 | 1245 | 4.0                         | 32                                                         | AUG 09 | 1345 | 21.5                        | 50                                                         |
| JAN 19                                                 | 1330 | 0.0                         | --                                                         | JUN 08 | 1030 | 18.0                        | 46                                                         |        |      |                             |                                                            |
| 01031600 MORRISON BROOK NEAR SEBEC CORNERS, ME         |      |                             |                                                            |        |      |                             |                                                            |        |      |                             |                                                            |
| OCT 30                                                 | 0930 | 7.5                         | 120                                                        | JAN 19 | 1630 | 0.0                         | 115                                                        | AUG 09 | 1445 | 21.5                        | 108                                                        |
| NOV 24                                                 | 1600 | 1.5                         | 108                                                        | APR 05 | 1130 | 3.0                         | --                                                         |        |      |                             |                                                            |
| 01033000 SEBEC RIVER AT SEBEC, ME                      |      |                             |                                                            |        |      |                             |                                                            |        |      |                             |                                                            |
| OCT 30                                                 | 1045 | 10.0                        | 29                                                         | JAN 19 | 1430 | 0.0                         | 32                                                         | JUN 08 | 1245 | 20.5                        | 27                                                         |
| NOV 24                                                 | 1630 | 2.0                         | 32                                                         | APR 04 | 1530 | 1.5                         | 17                                                         | AUG 09 | 1515 | 23.5                        | 27                                                         |
| 01033500 PLEASANT RIVER NEAR MILO, ME                  |      |                             |                                                            |        |      |                             |                                                            |        |      |                             |                                                            |
| OCT 29                                                 | 1645 | 7.5                         | 29                                                         | MAR 16 | 1200 | 0.0                         | 37                                                         | JUN 09 | 1700 | 25.0                        | 35                                                         |
| NOV 24                                                 | 1445 | 1.0                         | 27                                                         | APR 05 | 1730 | --                          | 22                                                         | AUG 10 | 1345 | 20.0                        | 35                                                         |
| JAN 22                                                 | 1315 | 0.0                         | 48                                                         |        |      |                             |                                                            |        |      |                             |                                                            |
| 01034000 PISCATAQUIS RIVER AT MEDFORD, ME              |      |                             |                                                            |        |      |                             |                                                            |        |      |                             |                                                            |
| OCT 29                                                 | 1430 | 12.0                        | 41                                                         | APR 05 | 1515 | 2.0                         | 18                                                         | AUG 13 | 1430 | 21.0                        | --                                                         |
| NOV 24                                                 | 1400 | 1.0                         | 34                                                         | JUN 09 | 1515 | 26.0                        | 38                                                         |        |      |                             |                                                            |
| 01035000 PASSADUMKEAG RIVER AT LOWELL, ME              |      |                             |                                                            |        |      |                             |                                                            |        |      |                             |                                                            |
| OCT 29                                                 | 1030 | 9.5                         | 41                                                         | JAN 13 | 1545 | 0.0                         | --                                                         | JUN 09 | 1300 | 24.0                        | 33                                                         |
| NOV 21                                                 | 1230 | 3.5                         | 37                                                         | MAR 10 | 1100 | 1.5                         | 38                                                         | AUG 11 | 1400 | 22.5                        | 34                                                         |
| DEC 15                                                 | 1100 | 0.5                         | 42                                                         |        |      |                             |                                                            |        |      |                             |                                                            |
| 01036500 KENDUSKEAG STREAM NEAR KENDUSKEAG, ME         |      |                             |                                                            |        |      |                             |                                                            |        |      |                             |                                                            |
| OCT 31                                                 | 1100 | 6.0                         | 128                                                        | JUN 07 | 1600 | 21.0                        | 138                                                        | AUG 09 | 1245 | 22.5                        | 132                                                        |
| NOV 25                                                 | 1500 | 0.5                         | 100                                                        | JUL 21 | 1530 | 25.5                        | 110                                                        | SEP 14 | 0830 | 16.0                        | 162                                                        |
| APR 05                                                 | 0945 | 1.0                         | 28                                                         |        |      |                             |                                                            |        |      |                             |                                                            |
| KENNEBEC RIVER BASIN                                   |      |                             |                                                            |        |      |                             |                                                            |        |      |                             |                                                            |
| 01041000 KENNEBEC RIVER AT MOOSEHEAD, ME               |      |                             |                                                            |        |      |                             |                                                            |        |      |                             |                                                            |
| OCT 30                                                 | 1500 | 7.5                         | 35                                                         | FEB 20 | 1000 | 1.0                         | 37                                                         | AUG 10 | 1115 | 20.5                        | 31                                                         |
| NOV 25                                                 | 1200 | 3.0                         | 35                                                         | MAY 20 | 1145 | 6.0                         | 35                                                         |        |      |                             |                                                            |
| 01042500 KENNEBEC RIVER AT THE FORKS, ME               |      |                             |                                                            |        |      |                             |                                                            |        |      |                             |                                                            |
| OCT 27                                                 | 1300 | 10.0                        | 31                                                         | MAR 23 | 1530 | 2.0                         | 80                                                         | MAY 21 | 1045 | 9.0                         | 34                                                         |
| NOV 19                                                 | 1000 | 8.0                         | 38                                                         | MAY 17 | 1645 | 9.0                         | 35                                                         | AUG 12 | 0930 | 19.0                        | 34                                                         |
| 01043500 DEAD RIVER NEAR DEAD RIVER, ME                |      |                             |                                                            |        |      |                             |                                                            |        |      |                             |                                                            |
| OCT 31                                                 | 1500 | 7.5                         | 21                                                         | JAN 26 | 1530 | 1.5                         | 52                                                         | AUG 24 | 1245 | 20.0                        | 43                                                         |
| NOV 28                                                 | 1230 | 2.0                         | 39                                                         | JUN 10 | 1330 | 19.0                        | 30                                                         |        |      |                             |                                                            |

| DATE                                                    | TIME | TEMPER-<br>ATURE<br>(DEG C) | SPE-<br>CIFIC<br>CON-<br>DUCT-<br>ANCE<br>(MICRO-<br>MHOS) | DATE   | TIME | TEMPER-<br>ATURE<br>(DEG C) | SPE-<br>CIFIC<br>CON-<br>DUCT-<br>ANCE<br>(MICRO-<br>MHOS) | DATE   | TIME | TEMPER-<br>ATURE<br>(DEG C) | SPE-<br>CIFIC<br>CON-<br>DUCT-<br>ANCE<br>(MICRO-<br>MHOS) |
|---------------------------------------------------------|------|-----------------------------|------------------------------------------------------------|--------|------|-----------------------------|------------------------------------------------------------|--------|------|-----------------------------|------------------------------------------------------------|
| KENNEBEC RIVER BASIN--Continued                         |      |                             |                                                            |        |      |                             |                                                            |        |      |                             |                                                            |
| 01045000 DEAD RIVER AT THE FORKS, ME                    |      |                             |                                                            |        |      |                             |                                                            |        |      |                             |                                                            |
| OCT 27                                                  | 1400 | 9.0                         | 36                                                         | MAR 23 | 1500 | 1.0                         | 86                                                         | MAY 21 | 1415 | 10.0                        | 31                                                         |
| NOV 19                                                  | 1900 | 9.0                         | 42                                                         | MAY 17 | 1700 | 15.0                        | 34                                                         | AUG 12 | 1015 | 19.0                        | 35                                                         |
| JAN 26                                                  | 1015 | 0.0                         | --                                                         |        |      |                             |                                                            |        |      |                             |                                                            |
| 01047000 CARRABASSETT RIVER NEAR NORTH ANSON, ME        |      |                             |                                                            |        |      |                             |                                                            |        |      |                             |                                                            |
| JAN 26                                                  | 1330 | 0.0                         | 55                                                         | JUN 10 | 1000 | 20.0                        | 42                                                         | AUG 24 | 1145 | 20.0                        | --                                                         |
| 01048000 SANDY RIVER NEAR MERCER, ME                    |      |                             |                                                            |        |      |                             |                                                            |        |      |                             |                                                            |
| OCT 31                                                  | 1015 | 6.0                         | 38                                                         | MAR 19 | 1130 | 0.0                         | 55                                                         | AUG 24 | 1015 | 21.5                        | 66                                                         |
| NOV 26                                                  | 1100 | 1.0                         | 55                                                         | JUN 07 | 1430 | 18.5                        | 57                                                         |        |      |                             |                                                            |
| 01049000 SEBASTICOOK RIVER NEAR PITTSFIELD, ME          |      |                             |                                                            |        |      |                             |                                                            |        |      |                             |                                                            |
| OCT 21                                                  | 1500 | 8.0                         | 111                                                        | JAN 21 | 1430 | 0.0                         | 112                                                        | AUG 24 | 1745 | 17.5                        | 104                                                        |
| NOV 25                                                  | 1630 | 2.0                         | 109                                                        |        |      |                             |                                                            |        |      |                             |                                                            |
| 01049300 NORTH BRANCH TANNING BROOK NEAR MANCHESTER, ME |      |                             |                                                            |        |      |                             |                                                            |        |      |                             |                                                            |
| NOV 11                                                  | 1415 | 9.0                         | 65                                                         | JAN 21 | 1545 | 0.0                         | 80                                                         | AUG 26 | 1100 | 19.0                        | 90                                                         |
| NOV 13                                                  | 1415 | 7.5                         | 62                                                         | MAR 29 | 1230 | 3.0                         | 46                                                         | SEP 21 | 0900 | 19.5                        | 86                                                         |
| NOV 23                                                  | 1445 | 4.0                         | 61                                                         | AUG 25 | 0930 | 16.0                        | 76                                                         |        |      |                             |                                                            |
| 01049500 COBBOSSEECONTEE STREAM AT GARDINER, ME         |      |                             |                                                            |        |      |                             |                                                            |        |      |                             |                                                            |
| OCT 27                                                  | 1245 | 13.5                        | 61                                                         | APR 06 | 1600 | 5.0                         | 76                                                         | SEP 21 | 1030 | 20.5                        | 78                                                         |
| ANDROSCOGGIN RIVER BASIN                                |      |                             |                                                            |        |      |                             |                                                            |        |      |                             |                                                            |
| 01052500 DIAMOND RIVER NEAR WENTWORTH LOCATION, NH      |      |                             |                                                            |        |      |                             |                                                            |        |      |                             |                                                            |
| OCT 29                                                  | 1415 | 5.0                         | 23                                                         | JAN 22 | 1330 | 0.0                         | 40                                                         | JUN 09 | 1115 | 17.0                        | 35                                                         |
| DEC 03                                                  | 1215 | 0.0                         | 38                                                         | MAR 24 | 1445 | 0.0                         | --                                                         |        |      |                             |                                                            |
| 01053500 ANDROSCOGGIN RIVER AT ERROL, NH                |      |                             |                                                            |        |      |                             |                                                            |        |      |                             |                                                            |
| OCT 29                                                  | 1230 | 9.0                         | 23                                                         | JAN 22 | 1500 | 1.0                         | --                                                         | JUN 09 | 1230 | 19.0                        | 30                                                         |
| DEC 03                                                  | 1100 | 1.5                         | 36                                                         |        |      |                             |                                                            |        |      |                             |                                                            |
| 01054000 ANDROSCOGGIN RIVER NEAR GORHAM, NH             |      |                             |                                                            |        |      |                             |                                                            |        |      |                             |                                                            |
| OCT 29                                                  | 0945 | 9.0                         | 50                                                         | JAN 22 | 1615 | 0.0                         | 90                                                         | JUN 09 | 0845 | 19.0                        | 107                                                        |
| DEC 03                                                  | 0915 | 2.0                         | 91                                                         | MAR 24 | 1645 | 1.0                         | 85                                                         |        |      |                             |                                                            |
| 01054300 ELLIS RIVER AT SOUTH ANDOVER, ME               |      |                             |                                                            |        |      |                             |                                                            |        |      |                             |                                                            |
| OCT 28                                                  | 1330 | 8.0                         | 20                                                         | JAN 23 | 1415 | 0.0                         | 47                                                         | APR 20 | 1400 | 9.0                         | 24                                                         |
| DEC 02                                                  | 1430 | 1.0                         | 33                                                         | MAR 25 | 1300 | 0.0                         | 34                                                         | JUN 08 | 1315 | 16.0                        | 38                                                         |
| 01055000 SWIFT RIVER NEAR ROXBURY, ME                   |      |                             |                                                            |        |      |                             |                                                            |        |      |                             |                                                            |
| OCT 28                                                  | 1115 | 6.5                         | 19                                                         | JAN 23 | 1130 | 0.0                         | 53                                                         | JUN 08 | 1100 | 15.0                        | 27                                                         |
| DEC 02                                                  | 0915 | 1.0                         | 27                                                         | MAR 10 | 1400 | 0.0                         | 32                                                         | AUG 24 | 1300 | 17.5                        | 29                                                         |
| 01055500 NEZINSCOT RIVER AT TURNER CENTER, ME           |      |                             |                                                            |        |      |                             |                                                            |        |      |                             |                                                            |
| OCT 26                                                  | 1015 | 10.0                        | 34                                                         | MAR 18 | 0900 | 0.0                         | --                                                         | SEP 08 | 0930 | 15.0                        | 59                                                         |
| DEC 12                                                  | 1045 | 0.0                         | 55                                                         | JUL 28 | 1145 | 19.0                        | 42                                                         | SEP 15 | 1000 | 16.0                        | 62                                                         |
| FEB 03                                                  | 1600 | 0.0                         | 48                                                         | AUG 09 | 1530 | 17.5                        | 51                                                         |        |      |                             |                                                            |
| 01057000 LITTLE ANDROSCOGGIN RIVER NEAR SOUTH PARIS, ME |      |                             |                                                            |        |      |                             |                                                            |        |      |                             |                                                            |
| OCT 26                                                  | 1300 | 10.0                        | 30                                                         | JUL 20 | 1300 | 20.5                        | 78                                                         | AUG 31 | 0930 | 13.5                        | 46                                                         |
| DEC 12                                                  | 1315 | 0.0                         | 44                                                         | JUL 28 | 1530 | 19.0                        | 42                                                         | SEP 03 | 1000 | 13.0                        | 45                                                         |
| JUN 28                                                  | 1545 | 21.5                        | 40                                                         | AUG 09 | 1230 | 17.0                        | 45                                                         | SEP 15 | 1200 | 16.0                        | 55                                                         |
| 01058005 THOMPSON LAKE OUTLET AT OXFORD, ME             |      |                             |                                                            |        |      |                             |                                                            |        |      |                             |                                                            |
| NOV 15                                                  | 1545 | 8.0                         | --                                                         | MAR 18 | 1615 | 1.0                         | 111                                                        | JUL 16 | 1415 | 26.0                        | 152                                                        |
| NOV 20                                                  | 1515 | 8.0                         | 48                                                         | APR 08 | 1730 | 5.0                         | 50                                                         | AUG 09 | 1130 | 21.0                        | 94                                                         |
| DEC 12                                                  | 1415 | 2.5                         | 42                                                         | JUN 09 | 1400 | 24.0                        | 130                                                        | SEP 15 | 1330 | 20.0                        | 81                                                         |
| FEB 12                                                  | 1130 | 1.0                         | 53                                                         |        |      |                             |                                                            |        |      |                             |                                                            |
| 01058500 LITTLE ANDROSCOGGIN RIVER NEAR AUBURN, ME      |      |                             |                                                            |        |      |                             |                                                            |        |      |                             |                                                            |
| OCT 26                                                  | 1515 | 11.0                        | 45                                                         | MAR 17 | 1500 | 0.0                         | 85                                                         | JUN 21 | 1215 | 23.5                        | 125                                                        |
| NOV 20                                                  | 1230 | 6.0                         | 72                                                         | APR 08 | 1415 | 5.0                         | 29                                                         | AUG 09 | 1645 | 19.0                        | 101                                                        |
| DEC 15                                                  | 1445 | 1.0                         | 108                                                        |        |      |                             |                                                            |        |      |                             |                                                            |
| 01059000 ANDROSCOGGIN RIVER NEAR AUBURN, ME             |      |                             |                                                            |        |      |                             |                                                            |        |      |                             |                                                            |
| OCT 26                                                  | 1530 | 11.0                        | 52                                                         | MAR 17 | 1530 | 0.5                         | 101                                                        | AUG 09 | 1715 | 20.0                        | 84                                                         |
| NOV 20                                                  | 1330 | 6.0                         | 65                                                         | JUN 20 | 1100 | 23.0                        | 111                                                        | SEP 15 | 1400 | 17.0                        | 85                                                         |
| DEC 15                                                  | 1445 | 1.0                         | 110                                                        |        |      |                             |                                                            |        |      |                             |                                                            |

| DATE                                                   | TIME | TEMPER-<br>ATURE<br>(DEG C) | SPE-<br>CIFIC<br>CON-<br>DUCT-<br>ANCE<br>(MICRO-<br>MHOS) | DATE   | TIME | TEMPER-<br>ATURE<br>(DEG C) | SPE-<br>CIFIC<br>CON-<br>DUCT-<br>ANCE<br>(MICRO-<br>MHOS) | DATE   | TIME | TEMPER-<br>ATURE<br>(DEG C) | SPE-<br>CIFIC<br>CON-<br>DUCT-<br>ANCE<br>(MICRO-<br>MHOS) |
|--------------------------------------------------------|------|-----------------------------|------------------------------------------------------------|--------|------|-----------------------------|------------------------------------------------------------|--------|------|-----------------------------|------------------------------------------------------------|
| ANDROSCOGGIN RIVER BASIN--Continued                    |      |                             |                                                            |        |      |                             |                                                            |        |      |                             |                                                            |
| 01059160 SABATTUS RIVER NEAR LISBON CENTER, ME         |      |                             |                                                            |        |      |                             |                                                            |        |      |                             |                                                            |
| OCT 21                                                 | 1600 | 11.5                        | --                                                         | APR 08 | 1030 | 6.0                         | 45                                                         | AUG 09 | 1915 | 19.0                        | 108                                                        |
| NOV 15                                                 | 1245 | 8.0                         | --                                                         | JUN 09 | 1130 | 22.0                        | 102                                                        | AUG 12 | 1200 | 17.5                        | 102                                                        |
| MAR 26                                                 | 0900 | 1.0                         | 110                                                        | JUL 16 | 1615 | 21.5                        | 118                                                        | SEP 16 | 0915 | 17.0                        |                                                            |
| ROYAL RIVER BASIN                                      |      |                             |                                                            |        |      |                             |                                                            |        |      |                             |                                                            |
| 01059800 COLLYER BROOK NEAR GRAY, ME                   |      |                             |                                                            |        |      |                             |                                                            |        |      |                             |                                                            |
| OCT 20                                                 | 1400 | 9.0                         | 65                                                         | FEB 04 | 1430 | 0.0                         | 98                                                         | AUG 11 | 1730 | 18.5                        | 104                                                        |
| NOV 17                                                 | 1515 | 5.5                         | 100                                                        | MAR 19 | 1445 | 0.0                         | --                                                         | AUG 12 | 1200 | 17.5                        | 108                                                        |
| DEC 15                                                 | 1345 | 4.0                         | 112                                                        | JUN 29 | 1400 | 16.0                        | 120                                                        | SEP 16 | 1130 | 12.5                        | 130                                                        |
| 01060000 ROYAL RIVER AT YARMOUTH, ME                   |      |                             |                                                            |        |      |                             |                                                            |        |      |                             |                                                            |
| OCT 20                                                 | 1100 | 9.5                         | 65                                                         | MAY 06 | 1530 | 12.0                        | 80                                                         | AUG 11 | 1345 | 19.5                        | 61                                                         |
| NOV 17                                                 | 1400 | 5.0                         | 76                                                         | JUN 07 | 1100 | 17.5                        | 90                                                         | SEP 13 | 0930 | 15.5                        | 129                                                        |
| DEC 15                                                 | 1215 | 0.5                         | 82                                                         | JUL 09 | 0930 | 21.5                        | 111                                                        |        |      |                             |                                                            |
| PRESUMPSCOT RIVER BASIN                                |      |                             |                                                            |        |      |                             |                                                            |        |      |                             |                                                            |
| 01063100 CROOKED RIVER NEAR NAPLES, ME                 |      |                             |                                                            |        |      |                             |                                                            |        |      |                             |                                                            |
| OCT 01                                                 | 1100 | --                          | 46                                                         | APR 08 | 1415 | 4.0                         | 33                                                         | AUG 31 | 1500 | 17.0                        | 40                                                         |
| OCT 22                                                 | 1245 | 10.0                        | 26                                                         | JUN 09 | 1545 | 2.0                         | 40                                                         | SEP 01 | 1400 | 17.5                        | 42                                                         |
| NOV 19                                                 | 1430 | 5.0                         | 35                                                         | JUN 28 | 1530 | 21.0                        | 40                                                         | SEP 16 | 1400 | 16.0                        | 43                                                         |
| DEC 12                                                 | 1200 | 0.0                         | 42                                                         | JUL 16 | 1230 | 21.0                        | 38                                                         | SEP 29 | 1730 | 12.8                        | 44                                                         |
| MAR 18                                                 | 1515 | 0.0                         | 46                                                         | AUG 09 | 0930 | 17.0                        | 39                                                         |        |      |                             |                                                            |
| STROUDWATER RIVER BASIN                                |      |                             |                                                            |        |      |                             |                                                            |        |      |                             |                                                            |
| 01064158 STROUDWATER RIVER AT SOUTH PORTLAND, ME       |      |                             |                                                            |        |      |                             |                                                            |        |      |                             |                                                            |
| OCT 10                                                 | 0845 | 10.5                        | --                                                         | APR 03 | 1430 | 5.5                         | 108                                                        | JUL 20 | 0930 | 23.0                        | 158                                                        |
| NOV 18                                                 | 1615 | 5.0                         | 110                                                        | MAY 06 | 1245 | 12.5                        | 111                                                        | JUL 27 | 0930 | 19.5                        | 152                                                        |
| DEC 12                                                 | 1245 | 0.5                         | 112                                                        | JUN 08 | 1030 | 21.5                        | 130                                                        | AUG 11 | 1930 | 20.0                        | 83                                                         |
| MAR 17                                                 | 1530 | 0.0                         | 130                                                        | JUL 16 | 1000 | 21.5                        | 152                                                        | SEP 13 | 1045 | 17.0                        | 152                                                        |
| SACO RIVER BASIN                                       |      |                             |                                                            |        |      |                             |                                                            |        |      |                             |                                                            |
| 01064500 SACO RIVER NEAR CONWAY, NH                    |      |                             |                                                            |        |      |                             |                                                            |        |      |                             |                                                            |
| OCT 22                                                 | 0800 | 9.5                         | 22                                                         | MAR 18 | 1400 | 0.0                         | 45                                                         | AUG 17 | 1345 | 16.0                        | 32                                                         |
| NOV 19                                                 | 1300 | 5.5                         | 35                                                         | JUN 10 | 1145 | 19.5                        | 44                                                         | SEP 14 | 1400 | 17.5                        | 47                                                         |
| FEB 02                                                 | 1430 | 0.0                         | 48                                                         |        |      |                             |                                                            |        |      |                             |                                                            |
| 01065500 OSSIPEE RIVER AT CORNISH, ME                  |      |                             |                                                            |        |      |                             |                                                            |        |      |                             |                                                            |
| OCT 21                                                 | 1730 | 11.0                        | 27                                                         | FEB 09 | 1130 | 1.0                         | 41                                                         | AUG 17 | 1715 | 24.0                        | 36                                                         |
| NOV 19                                                 | 1015 | 7.0                         | 32                                                         | MAR 16 | 1330 | 0.0                         | 43                                                         | SEP 14 | 1045 | 18.5                        | 41                                                         |
| DEC 19                                                 | 1045 | 0.0                         | 18                                                         | JUN 08 | 1345 | 21.5                        | 43                                                         | SEP 29 | 1500 | 16.0                        | 40                                                         |
| 01066500 LITTLE OSSIPEE RIVER NEAR SOUTH LIMINGTON, ME |      |                             |                                                            |        |      |                             |                                                            |        |      |                             |                                                            |
| OCT 21                                                 | 1400 | 11.5                        | 30                                                         | FEB 09 | 1400 | 1.0                         | 46                                                         | JUN 08 | 1115 | 20.0                        | 46                                                         |
| NOV 19                                                 | 1000 | 5.0                         | 43                                                         | MAR 16 | 1500 | 1.0                         | 48                                                         | AUG 10 | 1130 | 20.0                        | 44                                                         |
| DEC 18                                                 | 1330 | 1.5                         | 50                                                         | MAY 06 | 1000 | 12.5                        | 41                                                         | SEP 14 | 0945 | 18.5                        | 50                                                         |
| MOUSAM RIVER BASIN                                     |      |                             |                                                            |        |      |                             |                                                            |        |      |                             |                                                            |
| 01069500 MOUSAM RIVER NEAR WEST KENNEBUNK, ME          |      |                             |                                                            |        |      |                             |                                                            |        |      |                             |                                                            |
| NOV 14                                                 | 1445 | 9.0                         | 73                                                         | MAR 17 | 1500 | 1.0                         | 80                                                         | JUN 23 | 1045 | 22.0                        | 73                                                         |
| DEC 18                                                 | 1245 | 1.5                         | 65                                                         | MAY 04 | 1445 | 12.0                        | 80                                                         | AUG 10 | 1315 | 20.0                        | 91                                                         |
| FEB 09                                                 | 1615 | 1.0                         | 69                                                         | JUN 07 | 1700 | 19.0                        | 58                                                         | SEP 13 | 1400 | 20.0                        | 119                                                        |
| WEBHANNET RIVER BASIN                                  |      |                             |                                                            |        |      |                             |                                                            |        |      |                             |                                                            |
| 01069800 BLACKSMITH BROOK AT WELLS, ME                 |      |                             |                                                            |        |      |                             |                                                            |        |      |                             |                                                            |
| OCT 08                                                 | 0930 | 8.0                         | --                                                         | MAR 17 | 1430 | 0.0                         | 80                                                         | JUL 14 | 1400 | 16.0                        | 128                                                        |
| OCT 21                                                 | 0800 | 8.5                         | 47                                                         | APR 02 | 1130 | 4.0                         | 55                                                         | AUG 10 | 1700 | 18.5                        | 84                                                         |
| NOV 14                                                 | 1115 | 9.0                         | 57                                                         | MAY 04 | 1145 | 8.0                         | 78                                                         | SEP 13 | 1300 | 14.5                        | --                                                         |
| DEC 18                                                 | 1130 | 0.0                         | 75                                                         | JUN 07 | 1400 | 13.0                        | 78                                                         | OCT 15 | 1115 | 10.0                        | 112                                                        |

## GROUND-WATER LEVELS

## ANDROSCOGGIN COUNTY

440227070124101. Local number, An 1.

LOCATION.--Lat 44°02'27", long 70°12'41", Hydrologic Unit 01040002, on Penleys Corner Road, 0.9 mi (1.4 km) southwest of intersection of Riverside Drive, Auburn.

Owner: Mrs. Ernest Libby.

AQUIFER.--Marine deposits (clay) of late Pleistocene age.

WELL CHARACTERISTICS.--Dug observation water-table well, diameter 48 in (1.22 m), depth 15 ft (4.8 m), cased with rock to 15 ft (4.8 m), open end.

DATUM.--Altitude of land-surface datum is 220 ft (67 m). Measuring point: Top of granite curb at land-surface datum.

PERIOD OF RECORD.--July 1959 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 3.30 ft (1.01 m) below land-surface datum, June 16, 1960; lowest measured, 10.23 ft (3.12 m) below land-surface datum, Nov. 16, 1965.

## WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

| DATE   | WATER LEVEL | DATE   | WATER LEVEL | DATE   | WATER LEVEL | DATE   | WATER LEVEL | DATE   | WATER LEVEL | DATE   | WATER LEVEL |
|--------|-------------|--------|-------------|--------|-------------|--------|-------------|--------|-------------|--------|-------------|
| OCT 15 | 4.13        | OCT 28 | 4.05        | NOV 17 | 4.05        | NOV 29 | 4.00        | APR 12 | 3.90        | JUL 15 | 4.50        |

440438070261601. Local number, An 986.

LOCATION.--Lat 44°04'38", long 70°26'16", Hydrologic Unit 01040002, in gravel pit west of Winter Brook, 1.0 mi (1.6 km) west of intersection of State Highways 11 and 26, Poland.

Owner: U.S. Geological Survey.

AQUIFER.--Glacial sand and gravel (ice-contact deposits) of Pleistocene age.

WELL CHARACTERISTICS.--Drilled observation water-table well, diameter 6 in (0.15 m), depth 45 ft (13.7 m), screened 42 to 45 ft (12.8 to 13.7 m).

DATUM.--Altitude of land-surface datum is 310 ft (94 m). Measuring point: Top of casing at land-surface datum.

REMARKS.--Water-quality records for 1976 are published elsewhere in this report.

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

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 6.66 ft (2.03 m) below land-surface datum, June 28, 1976; lowest measured, 7.25 ft (2.21 m) below land-surface datum, Sept. 10, 1976.

## WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

| DATE   | WATER LEVEL | DATE   | WATER LEVEL | DATE   | WATER LEVEL | DATE   | WATER LEVEL | DATE   | WATER LEVEL | DATE   | WATER LEVEL |
|--------|-------------|--------|-------------|--------|-------------|--------|-------------|--------|-------------|--------|-------------|
| JUN 28 | 6.66        | JUL 06 | 6.82        | JUL 21 | 6.96        | AUG 16 | 6.84        | SEP 07 | 7.11        | SEP 21 | 6.86        |
| 29     | 6.68        | 16     | 6.94        | AUG 13 | 6.93        | 26     | 6.97        | 10     | 7.25        |        |             |

## AROOSTOOK COUNTY

464619068280401. Local number, Ar 1.

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

Owner: H. L. Stevens.

AQUIFER.--Glacial till of Pleistocene age.

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

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

REMARKS.--Water-quality records are available in files of subdistrict office.

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

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

## WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

| DATE   | WATER LEVEL | DATE   | WATER LEVEL | DATE   | WATER LEVEL | DATE   | WATER LEVEL | DATE   | WATER LEVEL | DATE   | WATER LEVEL |
|--------|-------------|--------|-------------|--------|-------------|--------|-------------|--------|-------------|--------|-------------|
| OCT 31 | B 8.30      | JAN 13 | 5.92        | MAR 12 | 4.93        | APR 29 | 1.30        | JUN 30 | 5.64        | AUG 28 | 3.55        |
| NOV 14 | F           | 27     | 6.00        | 30     | .45         | MAY 12 | 1.10        | JUL 15 | 1.49        | SEP 13 | 5.57        |
| DEC 13 | 4.09        | FEB 12 | 2.25        | 31     | 1.45        | 27     | 1.50        | JUL 29 | 5.46        | 28     | 5.45        |
| 29     | 4.70        | 25     | 4.25        | APR 13 | 1.30        | JUN 14 | 4.15        | AUG 13 | 1.60        |        |             |

B WELL DRY, WATER LEVEL ESTIMATED.

F WELL DRY.

455611068194601. Local number, Ar 2.

LOCATION.--Lat 45°56'11", long 68°19'46", Hydrologic Unit 01020003, on U.S. Highway 2, 0.75 mi (1.2 km) southwest of Crystal town line, in Sherman.

Owner: Donald McKellar IV.

AQUIFER.--Till of late Pleistocene age and bedrock of Silurian age.

WELL CHARACTERISTICS.--Dug and drilled observation water-table well, diameter 28 in (0.71 m) top 12 ft (3.6 m), 8 in (0.20 m) below 12 ft (3.6 m); depth 31 ft (9.4 m), open end.

DATUM.--Altitude of land-surface datum is 730 ft (222 m). Measuring point: Top of cover at land-surface datum.

PERIOD OF RECORD.--July 1939 to September 1966; July 1968 to October 1970; November 1975 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level, overflows nearly every spring; lowest measured, 17.48 ft (5.33 m) below land-surface datum, Oct. 25, 1953.

## WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

| DATE   | WATER LEVEL | DATE   | WATER LEVEL | DATE   | WATER LEVEL | DATE   | WATER LEVEL | DATE   | WATER LEVEL | DATE   | WATER LEVEL |
|--------|-------------|--------|-------------|--------|-------------|--------|-------------|--------|-------------|--------|-------------|
| NOV 07 | 14.43       | DEC 23 | 12.40       | FEB 07 | 1.23        | APR 13 | Q           | JUN 06 | 7.24        | SEP 01 | 10.47       |
| 15     | 6.10        | JAN 10 | 13.90       | 22     | 7.86        | 26     | Q           | 27     | 12.21       | 14     | 12.39       |
| 21     | 4.10        | 24     | 18.20       | MAR 13 | 10.72       | MAY 08 | Q           | JUL 14 | 8.77        | 27     | 11.10       |
| DEC 14 | 5.80        | 31     | .10         | 31     | Q           | 22     | 3.78        | 28     | 9.63        |        |             |

Q WELL FLOWING.



GROUND-WATER LEVELS  
AROOSTOOK COUNTY--CONTINUED

205

460855067552201. Local number, Ar 887.

LOCATION.--Lat 46°08'55", long 67°55'22", Hydrologic Unit 01010005, on Ludlow Road, 0.2 mi (0.3 km) east of intersection of Hemore Road, in Ludlow.

Owner: Charles Marshall.

AQUIFER.--Glacial till of late Pleistocene age.

WELL CHARACTERISTICS.--Dug observation water-table well, diameter 20 in (0.51 m), depth 12.5 ft (3.8 m), cased with rock to 12.5 ft (3.8 m), open end.

DATUM.--Altitude of land-surface datum is 675 ft (206 m). Measuring point: Top of concrete curb at land-surface datum.

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

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 1.30 ft (0.40 m) below land-surface datum, May 26, 1976; lowest measured, 6.50 ft (1.98 m) below land-surface datum, Jan. 25, 1976.

WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

| DATE   | WATER LEVEL | DATE   | WATER LEVEL | DATE   | WATER LEVEL | DATE   | WATER LEVEL | DATE   | WATER LEVEL | DATE   | WATER LEVEL |
|--------|-------------|--------|-------------|--------|-------------|--------|-------------|--------|-------------|--------|-------------|
| NOV 05 | 4.70        | DEC 24 | 5.70        | FEB 25 | 5.65        | APR 25 | 2.00        | JUN 16 | 5.00        | AUG 25 | 5.30        |
| 17     | 3.48        | JAN 15 | 5.70        | MAR 25 | 3.50        | MAY 15 | 2.70        | JUL 16 | 3.10        | SEP 15 | 4.70        |
| 25     | 4.16        | 25     | 6.50        | APR 15 | 2.30        | 26     | 1.30        | 26     | 4.15        | 25     | 5.40        |
| DEC 15 | 4.50        | FEB 15 | 3.10        |        |             |        |             |        |             |        |             |

CUMBERLAND COUNTY

435453070013601. Local number, C 26.

LOCATION.--Lat 43°54'53", long 70°01'36", Hydrologic Unit 01060001, north of Durham Road, 0.7 mi (1.1 km) west of U.S. Highway 1, Brunswick.

Owner: Brunswick and Topsham Water District.

AQUIFER.--Stratified sand and gravel deposits of Pleistocene age.

WELL CHARACTERISTICS.--Drilled observation artesian well, diameter 12 in (0.30 m), depth 101 ft (30.8 m), screened 81 to 101 ft (24.7 to 30.8 m).

DATUM.--Altitude of land-surface datum is 139 ft (42.3 m). Measuring point: Base of water-level recorder at land-surface datum.

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

EXTREMES FOR PERIOD OF RECORD.--Highest water level, 27.79 ft (8.47 m) below land-surface datum, July 5, 1974; lowest, 36.41 ft (11.10 m) below land-surface datum, Feb. 10, 1966.

WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976  
MEAN VALUES

| DAY | OCT   | NOV   | DEC    | JAN   | FEB   | MAR   | APR    | MAY   | JUN    | JUL   | AUG   | SEP |
|-----|-------|-------|--------|-------|-------|-------|--------|-------|--------|-------|-------|-----|
| 5   | 29.35 | 29.39 | 28.78  | --    | 28.31 | 28.23 | 28.06  | 28.10 | --     | --    | --    | --  |
| 10  | 29.39 | 29.34 | 28.80  | --    | 28.23 | 28.35 | 28.00  | 28.09 | --     | --    | --    | --  |
| 15  | 29.34 | 29.18 | 28.74  | --    | 28.28 | 28.20 | 27.99  | 28.09 | --     | --    | --    | --  |
| 20  | 29.37 | 29.11 | 28.55  | --    | 28.14 | --    | 27.95  | 28.02 | --     | --    | --    | --  |
| 25  | 29.48 | 29.07 | --     | 28.73 | 28.19 | --    | 28.02  | 27.93 | --     | --    | --    | --  |
| EOM | 29.42 | 29.01 | E28.55 | 28.43 | 28.31 | 28.30 | H28.08 | 27.93 | E28.20 | 28.62 | 28.18 | --  |

E WATER LEVEL ESTIMATED.

H MEASUREMENT MADE MANUALLY.

WTR YEAR 1976 MAX 27.88 MAY 27, 1976 MIN 29.50 OCT 25, 1975

HANCOCK COUNTY

444950068220601. Local number, H 1.

LOCATION.--Lat 44°49'50", long 68°22'06", Hydrologic Unit 01050002, on State Highway 9, 0.25 mi (0.4 km) west of intersection with State Highway 181 in Amherst.

Owner: Norman Salisbury.

AQUIFER.--Glacial till of Pleistocene age.

WELL CHARACTERISTICS.--Dug observation water-table well, diameter 18 in (0.46 m), depth 14 ft (4.3 m), cased with rock to 14 ft (4.3 m), open end.

DATUM.--Altitude of land-surface datum is 330 ft (101 m). Measuring point: Nail in top of vertical timber at land-surface datum.

PERIOD OF RECORD.--November 1943 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 2.10 ft (0.64 m) below land-surface datum, May 29, 1961; lowest estimated, 17.8 ft (5.4 m) below land-surface datum, Sept. 30, 1965. Well goes dry frequently.

WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

| DATE   | WATER LEVEL | DATE   | WATER LEVEL | DATE   | WATER LEVEL | DATE   | WATER LEVEL | DATE   | WATER LEVEL | DATE   | WATER LEVEL |
|--------|-------------|--------|-------------|--------|-------------|--------|-------------|--------|-------------|--------|-------------|
| OCT 11 | 11.20       | DEC 14 | 4.90        | FEB 11 | 3.80        | APR 13 | 3.50        | JUN 12 | 6.20        | AUG 13 | 5.50        |
| 26     | 8.60        | 30     | 3.30        | 26     | 5.00        | 30     | E 5.00      | JUL 01 | 7.00        | 27     | 7.00        |
| NOV 13 | 6.80        | JAN 12 | 5.75        | MAR 12 | 4.20        | MAY 13 | 6.50        | 13     | 4.00        | SEP 11 | 7.90        |
| 17     | 3.60        | 29     | 2.80        | 26     | 4.60        | 27     | 3.70        | 28     | 5.00        | 28     | 8.60        |
| 27     | 3.10        |        |             |        |             |        |             |        |             |        |             |

E WATER LEVEL ESTIMATED.

## KENNEBEC COUNTY

441849069442001. Local number, K 52.

LOCATION.--Lat 44°18'49", long 69°44'20", Hydrologic Unit 01030003, on Cony Road, 0.3 mi (0.5 km) south of State Highway 105, in Augusta.

Owner: Walter Panek.

AQUIFER.--Glacial till of Pleistocene age.

WELL CHARACTERISTICS.--Dug observation water-table well, diameter 36 in (0.91 m), depth 22 ft (6.7 m), cased with rock to 22 ft (6.7 m), open end.

DATUM.--Altitude of land-surface datum is 220 ft (67 m). Measuring point: Top of floor of shelter house at land-surface datum.

REMARKS.--Water-quality records for 1968 and 1974 are available in files of subdistrict office; those for 1976 are published elsewhere in this report.

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

EXTREMES FOR PERIOD OF RECORD.--Highest water level, 3.42 ft (1.04 m) below land-surface datum, Mar. 28, 1975; lowest, 14.29 ft (4.36 m) below land-surface datum, Oct. 31, 1963.

WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976  
MEAN VALUES

| DAY | OCT  | NOV  | DEC  | JAN  | FEB  | MAR  | APR  | MAY  | JUN   | JUL  | AUG  | SEP   |
|-----|------|------|------|------|------|------|------|------|-------|------|------|-------|
| 5   | 7.20 | 4.72 | 4.68 | 5.47 | --   | 4.82 | 4.19 | 4.87 | 6.45  | --   | 4.60 | 6.81  |
| 10  | 6.82 | 4.53 | 5.00 | 5.94 | --   | 5.04 | 4.85 | 5.40 | 6.90  | --   | 4.27 | 7.12  |
| 15  | 6.53 | 4.19 | --   | 4.97 | --   | 4.87 | 5.30 | 5.60 | 7.15  | --   | 4.71 | 7.46  |
| 20  | 5.86 | 4.66 | --   | 5.57 | --   | 5.31 | 5.39 | 4.58 | --    | --   | 5.22 | 7.69  |
| 25  | 5.18 | 4.58 | --   | 6.02 | --   | 4.22 | 5.47 | 4.74 | --    | --   | 5.77 | 7.92  |
| EOM | 4.42 | 4.64 | 5.10 | 4.31 | 4.43 | 4.47 | 5.07 | 5.82 | H7.42 | 5.05 | 6.37 | H8.17 |

H MEASUREMENT MADE MANUALLY.

WTR YEAR 1976 MAX 3.17 APR 2, 1976 MIN 8.17 SEP 30, 1976

442023069553801. Local number, K 88.

LOCATION.--Lat 44°20'23", long 69°55'38", Hydrologic Unit 01030003, on State Highway 135, 1.4 mi (2.3 km) north of U.S. Highway 202, in East Winthrop.

Owner: A. Allen Stackpole.

AQUIFER.--Bedrock of Silurian age.

WELL CHARACTERISTICS.--Drilled observation artesian well, diameter 6 in (0.15 m), depth 298 ft (90.8 m), open hole.

DATUM.--Altitude of land-surface datum is 350 ft (107 m). Measuring point: Top of pipe at land-surface datum.

PERIOD OF RECORD.--April 1962 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 35.26 ft (10.75 m) below land-surface datum, Apr. 17, 1972; lowest measured, 62.31 ft (18.99 m) below land-surface datum, Sept. 30, 1976.

## WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

| DATE   | WATER LEVEL | DATE   | WATER LEVEL | DATE   | WATER LEVEL | DATE   | WATER LEVEL | DATE   | WATER LEVEL | DATE   | WATER LEVEL |
|--------|-------------|--------|-------------|--------|-------------|--------|-------------|--------|-------------|--------|-------------|
| OCT 30 | 54.50       | MAR 26 | 48.40       | MAY 03 | 55.16       | JUN 30 | 58.20       | SEP 01 | 58.25       | SEP 30 | 62.31       |
| NOV 26 | 53.23       | APR 09 | 49.80       | JUN 01 | 54.20       | AUG 02 | 57.90       |        |             |        |             |

440918069564001. Local number, K 766.

LOCATION.--Lat 44°09'18", long 69°56'40", Hydrologic Unit 01030003, in Litchfield, 300 ft (91 m) east of town office.

Owner: U.S. Geological Survey.

AQUIFER.--Glacial sand and gravel (ice-contact deposits) of Pleistocene age.

WELL CHARACTERISTICS.--Drilled observation water-table well, diameter 6 in (0.15 m), depth 65 ft (19.8 m), cased to 62 ft (18.9 m), open end.

DATUM.--Altitude of land-surface datum is 300 ft (91 m). Measuring point: Floor of recorder shelter at land-surface datum.

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

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 43.85 ft (13.36 m) below land-surface datum, Aug. 11, 1976; lowest measured, 45.70 ft (13.92 m) below land-surface datum, Sept. 28, 1976.

## WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

| DATE   | WATER LEVEL | DATE   | WATER LEVEL | DATE   | WATER LEVEL | DATE   | WATER LEVEL | DATE   | WATER LEVEL | DATE   | WATER LEVEL |
|--------|-------------|--------|-------------|--------|-------------|--------|-------------|--------|-------------|--------|-------------|
| JUN 28 | 44.70       | JUL 09 | 45.01       | JUL 29 | 45.31       | AUG 11 | 43.85       | AUG 26 | 44.59       | SEP 28 | 45.70       |

## GROUND-WATER LEVELS

## OXFORD COUNTY

444637070552301. Local number, O 400.

LOCATION.--Lat 44°46'37", long 70°55'23", Hydrologic Unit 01040001, at Middle Dam, Lower Richardson Lake.

Owner: Union Water Power Co.

AQUIFER.--Glacial till of Pleistocene age.

WELL CHARACTERISTICS.--Dug observation water-table well, diameter 24 in (0.61 m), depth 15 ft (4.6 m), cased with concrete pipe to 15 ft (4.6 m), open end.

DATUM.--Altitude of land-surface datum is 1,450 ft (442 m). Measuring point: Top of casing, 2.0 ft (0.61 m) above land-surface datum.

PERIOD OF RECORD.--April 1944 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 0.4 ft (0.12 m) above land-surface datum, Apr. 11, 1976; lowest measured, 12.2 ft (3.7 m) below land-surface datum, Oct. 9, 16, 23, 1966.

## WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

| DATE   | WATER LEVEL | DATE   | WATER LEVEL | DATE   | WATER LEVEL | DATE   | WATER LEVEL | DATE   | WATER LEVEL | DATE   | WATER LEVEL |
|--------|-------------|--------|-------------|--------|-------------|--------|-------------|--------|-------------|--------|-------------|
| OCT 05 | 9.9         | DEC 07 | 3.7         | FEB 16 | 4.7         | APR 18 | .7          | JUN 13 | 5.0         | AUG 08 | 4.8         |
| 12     | 9.6         | 14     | 3.9         | 22     | 4.7         | 25     | 1.4         | 20     | 5.7         | 15     | 3.4         |
| 19     | 9.4         | 21     | 4.8         | 29     | 3.8         | MAY 02 | 1.9         | 27     | 5.5         | 22     | 4.5         |
| 26     | 5.4         | 28     | 5.4         | MAR 07 | 3.2         | 09     | 1.6         | JUL 04 | 4.8         | 29     | 4.4         |
| NOV 02 | 5.5         | JAN 04 | 5.3         | 14     | 4.3         | 16     | 2.0         | 11     | 4.2         | SEP 05 | 5.1         |
| 09     | 5.7         | 11     | 5.2         | 21     | 3.6         | 23     | 1.3         | 18     | 4.4         | 12     | 5.8         |
| 16     | 3.5         | 18     | 6.5         | 28     | .8          | 30     | 2.3         | 25     | 5.9         | 19     | 5.7         |
| 23     | 3.4         | 25     | 7.0         | APR 04 | .8          | JUN 06 | 3.6         | AUG 01 | 4.5         | 26     | 5.5         |
| 30     | 3.4         | FEB 01 | 4.6         | 11     | + .4        |        |             |        |             |        |             |

+ WATER LEVEL, IN FEET ABOVE LAND-SURFACE DATUM.

441507070310201. Local number, O 413.

LOCATION.--Lat 44°15'07", long 70°31'02", Hydrologic Unit 01040002, off Dump Road, 2 mi (3.2 km) north of village of South Paris.

Owner: Paris Utilities District.

AQUIFER.--Sand and gravel (outwash) of Pleistocene age.

WELL CHARACTERISTICS.--Driven observation water-table well, diameter 2 in (0.51 m), depth 67 ft (20.4 m), screened from 64 to 67 ft (19.5 to 20.4 m).

DATUM.--Altitude of land-surface datum is 350 ft (107 m). Measuring point: Top of pipe at land-surface datum.

REMARKS.--Water-quality records for nearby public-supply well are published elsewhere in this report.

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

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 8.58 ft (2.62 m) below land-surface datum, Aug. 16, 1976; lowest measured, 12.83 ft (3.91 m) below land-surface datum, July 22, 1976.

## WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

| DATE   | WATER LEVEL | DATE   | WATER LEVEL | DATE   | WATER LEVEL | DATE   | WATER LEVEL | DATE   | WATER LEVEL | DATE   | WATER LEVEL |
|--------|-------------|--------|-------------|--------|-------------|--------|-------------|--------|-------------|--------|-------------|
| MAY 05 | 9.60        | MAY 19 | 9.13        | JUN 02 | 11.05       | JUN 16 | 12.50       | AUG 13 | 12.51       | SEP 08 | 11.90       |
| 13     | 9.33        | 24     | 10.86       | 03     | 11.08       | 22     | 12.83       | 16     | 8.58        | 21     | 11.45       |
| 18     | 10.55       | 27     | 10.52       |        |             |        |             |        |             |        |             |

## PENOBSCOT COUNTY

451047068512201. Local number, Pe 455.

LOCATION.--Lat 45°10'47", long 68°51'22", Hydrologic Unit 01020005, on Medford Road, about 0.25 mi (0.4 km) north of intersection of State Highway 16, Lagrange.

Owner: Mrs. Elsie Mullins.

AQUIFER.--Glacial till of Pleistocene age.

WELL CHARACTERISTICS.--Dug domestic and observation water-table well, diameter 36 in (0.91 m), depth 24.2 ft (7.4 m), cased with rock to 24.2 ft (7.4 m), open end.

DATUM.--Altitude of land-surface datum is 410 ft (125 m). Measuring point: Painted nail in north side of windlass housing at land-surface datum.

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

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 3.36 ft (1.02 m) below land-surface datum, Mar. 30, 1976; lowest measured, 9.18 ft (2.80 m) below land-surface datum, June 30, 1976.

## WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

| DATE   | WATER LEVEL | DATE   | WATER LEVEL | DATE   | WATER LEVEL | DATE   | WATER LEVEL | DATE   | WATER LEVEL | DATE   | WATER LEVEL |
|--------|-------------|--------|-------------|--------|-------------|--------|-------------|--------|-------------|--------|-------------|
| NOV 30 | 5.59        | JAN 29 | 3.67        | MAR 30 | 3.36        | MAY 31 | 5.55        | JUL 15 | 4.26        | AUG 31 | 5.67        |
| DEC 15 | 5.90        | FEB 14 | 5.25        | APR 15 | 4.76        | JUN 15 | 8.33        | 31     | 4.57        | SEP 15 | 6.85        |
| 30     | 5.00        | 29     | 5.38        | 30     | 4.62        | 30     | 9.18        | AUG 15 | 4.39        | 30     | 6.17        |
| JAN 15 | 5.91        | MAR 15 | 5.43        | MAY 15 | 5.15        |        |             |        |             |        |             |

## GROUND-WATER LEVELS

## SOMERSET COUNTY

444219069545801. Local number, Sm 1.

LOCATION.--Lat 44°42'19", long 69°54'58", Hydrologic Unit 01030003, on dirt road 2.25 mi (3.62 km) north of village of Mercer.

Owner: J. Harrison Farrand.

AQUIFER.--Eolian deposits of late Pleistocene age.

WELL CHARACTERISTICS.--Dug observation water-table well, diameter 60 in (1.52 m), depth 14 ft (4.3 m), cased with rock to 14 ft (4.3 m), open end.

DATUM.--Altitude of land-surface datum is 270 ft (82 m). Measuring point: Nail in top of horizontal timber at northeast corner of well cover, 0.4 ft (0.1 m) above land-surface datum.

REMARKS.--Water-quality records for 1968-75 are available in files of subdistrict office; those for 1976 are published elsewhere in this report.

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

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 3.30 ft (1.01 m) below land-surface datum, Apr. 12, 1975; lowest estimated, 14.1 ft (4.3 m) below land-surface datum, Nov. 30, 1952.

## WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

| DATE   | WATER LEVEL | DATE   | WATER LEVEL | DATE   | WATER LEVEL | DATE   | WATER LEVEL | DATE   | WATER LEVEL | DATE   | WATER LEVEL |
|--------|-------------|--------|-------------|--------|-------------|--------|-------------|--------|-------------|--------|-------------|
| OCT 12 | 5.17        | DEC 27 | 5.07        | FEB 29 | 5.40        | APR 25 | 4.55        | JUN 14 | 6.17        | AUG 10 | 4.98        |
| 26     | 4.24        | JAN 11 | 5.42        | MAR 08 | 5.44        | MAY 09 | 4.69        | 25     | 6.34        | 25     | 5.42        |
| NOV 11 | 4.88        | 29     | 4.92        | 26     | 4.66        | 25     | 4.82        | JUL 11 | 6.00        | SEP 10 | 5.95        |
| 25     | 3.99        | FEB 11 | 4.62        | APR 11 | 4.39        | JUN 09 | 4.90        | 25     | 5.41        | 26     | 6.50        |
| DEC 10 | 5.02        |        |             |        |             |        |             |        |             |        |             |

E WATER LEVEL ESTIMATED.

## WASHINGTON COUNTY

444240067283501. Local number, W 1.

LOCATION.--Lat 44°42'40", long 67°28'35", Hydrologic Unit 01050002, at barn southeast of race track at former fairgrounds on State Highway 1A, 1.0 mi (1.6 km) west of village of Machias.

Owner: Julian A. Johnson.

AQUIFER.--Bedrock of Silurian age.

WELL CHARACTERISTICS.--Drilled artesian stock and observation well, diameter 6 in (0.15 m), depth 54 ft (16.5 m), open hole.

DATUM.--Altitude of land-surface datum is 140 ft (43 m). Measuring point: Top of casing at land-surface datum.

REMARKS.--Water-quality records for 1968, 1972, and 1975 are available in files of subdistrict office; those for 1976 are published elsewhere in this report.

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

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 5.29 ft (1.61 m) below land-surface datum, Apr. 16, 1961; lowest measured, 13.95 ft (4.25 m) below land-surface datum, Feb. 2, 1959.

## WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

| DATE   | WATER LEVEL | DATE   | WATER LEVEL | DATE   | WATER LEVEL | DATE   | WATER LEVEL | DATE   | WATER LEVEL | DATE   | WATER LEVEL |
|--------|-------------|--------|-------------|--------|-------------|--------|-------------|--------|-------------|--------|-------------|
| OCT 01 | 11.50       | NOV 24 | 8.55        | JAN 28 | 8.95        | APR 28 | 8.35        | JUN 15 | 10.75       | AUG 19 | 10.19       |
| 15     | 11.60       | DEC 15 | 8.75        | FEB 27 | 10.45       | MAY 15 | 9.05        | 28     | 11.10       | 28     | 10.80       |
| NOV 03 | 9.85        | 31     | 11.90       | MAR 27 | 9.75        | MAY 29 | 9.05        | JUL 27 | 9.60        | SEP 30 | 11.30       |
| 17     | 7.65        | JAN 15 | 9.80        | APR 17 | 9.50        |        |             |        |             |        |             |

C WATER LEVEL AFFECTED BY RECENT PUMPING.

444955067000501. Local number, W 2.

LOCATION.--Lat 44°49'55", long 67°00'05", Hydrologic Unit 01050002, on Maple Tree Road, 1.0 mi (1.6 km) south of State Highway 189, Lubec.

Owner: Lubec Water and Light District.

AQUIFER.--Stratified sand and gravel (end moraine) of Pleistocene age.

WELL CHARACTERISTICS.--Driven artesian observation well, diameter 2.5 (0.06 m), depth 52 ft (15.8 m), screened 42-52 ft (12.8 to 15.8 m).

DATUM.--Altitude of land-surface datum is 50 ft (15 m). Measuring point: Top of casing at land-surface datum.

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

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 9.31 ft (2.84 m) below land-surface datum, June 14, 1960; lowest measured, 19.89 ft (6.06 m) below land-surface datum, Nov. 12, 1965.

## WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

| DATE   | WATER LEVEL | DATE   | WATER LEVEL | DATE   | WATER LEVEL | DATE   | WATER LEVEL | DATE   | WATER LEVEL | DATE   | WATER LEVEL |
|--------|-------------|--------|-------------|--------|-------------|--------|-------------|--------|-------------|--------|-------------|
| OCT 26 | 17.68       | DEC 30 | 16.42       | FEB 28 | 15.08       | APR 29 | 15.91       | JUN 29 | 14.22       | AUG 30 | 14.90       |
| NOV 29 | 17.82       | JAN 30 | 14.60       | MAR 29 | 16.42       | MAY 29 | 13.91       | JUL 30 | 14.12       | SEP 26 | 15.52       |

## YORK COUNTY

434822070482501. Local number, Y 1.

LOCATION.--Lat 43°48'22", long 70°48'25", Hydrologic Unit 01050002, on Main Street, about 0.2 mi (0.3 km) east of intersections of State Highways 25 and 5 in Cornish.

Owner: James P. Small.

AQUIFER.--Stratified sand and gravel (outwash) of Pleistocene age.

WELL CHARACTERISTICS.--Dug observation water-table well, diameter 36 in (0.91 m), depth 24 ft (7.3 m), cased with brick to 24 ft (7.3 m), open end.

DATUM.--Altitude of land-surface datum is 370 ft (113 m). Measuring point: Mark chiseled on top of concrete curb at land-surface datum.

REMARKS.--Water-quality records for 1968-75 are available in files of subdistrict office; those for 1976 are published elsewhere in this report.

PERIOD OF RECORD.--November 1943 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 7.90 ft (2.41 m) below land-surface datum, Apr. 16, 1952; lowest measured, 18.40 ft (5.61 m) below land-surface datum, Nov. 14, 1948.

WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976  
MEAN VALUES

| DAY | OCT    | NOV   | DEC    | JAN    | FEB    | MAR  | APR    | MAY   | JUN   | JUL    | AUG   | SEP   |
|-----|--------|-------|--------|--------|--------|------|--------|-------|-------|--------|-------|-------|
| 5   | 13.10  | 11.63 | 9.73   | 11.93  | 9.09   | 9.61 | 8.90   | 11.13 | 10.98 | 13.89  | 14.08 | 13.20 |
| 10  | 13.04  | 11.97 | 10.05  | 12.53  | 9.88   | 9.25 | 9.45   | 11.03 | 11.52 | 14.24  | 13.76 | 13.87 |
| 15  | 13.20  | 9.40  | 10.42  | 13.10  | 10.84  | 9.86 | 10.08  | 10.86 | 12.00 | 14.49  | 12.75 | 14.48 |
| 20  | 12.88  | 9.67  | 11.14  | 13.31  | 11.15  | 9.99 | 10.73  | 10.56 | 12.50 | 14.71  | 11.77 | 14.88 |
| 25  | H 9.99 | --    | H11.68 | H13.45 | H10.12 | 8.86 | H11.16 | 9.35  | 13.15 | H15.01 | 12.00 | 15.38 |
| EOM | 11.09  | 9.64  | 11.42  | 10.46  | 9.16   | 8.90 | 11.42  | 10.15 | 13.71 | 14.86  | 12.66 | 15.59 |

H MEASUREMENT MADE MANUALLY.

WTR YEAR 1976 MAX 8.80 MAR 3, 1976 MIN 15.59 SEP 30, 1976

## QUALITY OF GROUND WATER

WATER QUALITY DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

| STATION             | NUMBER   | GEO-<br>LOGIC<br>UNIT | DEPTH<br>(FT) | DATE<br>OF<br>SAMPLE | SPE-<br>CIFIC<br>CON-<br>DUCT-<br>ANCE<br>(MICRO-<br>MHOS) | PH<br>(UNITS) | TEMPER-<br>ATURE<br>(DEG C) | HARD-<br>NESS<br>(CA, MG)<br>(MG/L) | NON-<br>CAR-<br>BONATE<br>HARD-<br>NESS<br>(MG/L) | DIS-<br>SOLVED<br>CAL-<br>CIUM<br>(CA)<br>(MG/L) | DIS-<br>SOLVED<br>MAG-<br>NE-<br>SIUM<br>(MG)<br>(MG/L) | DIS-<br>SOLVED<br>SODIUM<br>(NA)<br>(MG/L) |
|---------------------|----------|-----------------------|---------------|----------------------|------------------------------------------------------------|---------------|-----------------------------|-------------------------------------|---------------------------------------------------|--------------------------------------------------|---------------------------------------------------------|--------------------------------------------|
| ANDROSCOGGIN COUNTY |          |                       |               |                      |                                                            |               |                             |                                     |                                                   |                                                  |                                                         |                                            |
| 440224070064801     | 112ICCC  | 66                    | 76-09-09      | 310                  | 7.8                                                        | 11.0          | 110                         | 21                                  | 37                                                | 5.0                                              | 18                                                      |                                            |
| 440311070080803     | 112ICCC  | 90                    | 76-09-09      | 205                  | 7.8                                                        | 9.0           | 73                          | 14                                  | 24                                                | 3.1                                              | 4.6                                                     |                                            |
| 440438070261601     | 112ICCC  | 45                    | 76-09-08      | 47                   | 6.7                                                        | 10.5          | 16                          | 0                                   | 4.7                                               | 1.0                                              | 2.2                                                     |                                            |
| 440730070035301     | 112ICCC  | 62                    | 76-09-09      | 160                  | 7.5                                                        | 9.0           | 55                          | 5                                   | 21                                                | .5                                               | 3.2                                                     |                                            |
| 441039070052701     | 112DFSFE | 120                   | 76-09-09      | 165                  | 7.9                                                        | 15.0          | 61                          | 5                                   | 21                                                | 2.1                                              | 5.0                                                     |                                            |
| ARROSTOCK COUNTY    |          |                       |               |                      |                                                            |               |                             |                                     |                                                   |                                                  |                                                         |                                            |
| 465821067500401     | 357CRML  | 110                   | 76-04-14      | 413                  | 7.8                                                        | 8.0           | 200                         | 86                                  | 70                                                | 6.0                                              | 4.4                                                     |                                            |
| 465826067501301     | 357CRML  | 110                   | 76-04-14      | 457                  | 7.8                                                        | 8.0           | 220                         | 110                                 | 73                                                | 8.7                                              | 6.0                                                     |                                            |
| CUMBERLAND COUNTY   |          |                       |               |                      |                                                            |               |                             |                                     |                                                   |                                                  |                                                         |                                            |
| 434520070185701     | 3008DRK  | 1205                  | 75-11-19      | 145                  | 8.5                                                        | --            | 6                           | 0                                   | 2.0                                               | .2                                               | 28                                                      |                                            |
| 434528070184301     | 3008DRK  | 1078                  | 75-11-19      | --                   | --                                                         | --            | --                          | --                                  | --                                                | --                                               | --                                                      |                                            |
| KENNEBEC COUNTY     |          |                       |               |                      |                                                            |               |                             |                                     |                                                   |                                                  |                                                         |                                            |
| 441849069442001     | 112TILL  | 22                    | 76-06-14      | 390                  | 6.0                                                        | 11.0          | 120                         | 84                                  | 28                                                | 11                                               | 27                                                      |                                            |
| 442326069351301     | 3008DRK  | 130                   | 75-11-20      | 280                  | 8.5                                                        | 10.0          | 24                          | 0                                   | 8.8                                               | .6                                               | 54                                                      |                                            |
|                     | 3008DRK  | 130                   | 75-11-24      | --                   | --                                                         | --            | --                          | --                                  | --                                                | --                                               | --                                                      |                                            |
| 442940069402101     | 3008DRK  | 250                   | 75-11-20      | 350                  | 7.5                                                        | --            | 150                         | 13                                  | 42                                                | 12                                               | 9.6                                                     |                                            |
| OXFORD COUNTY       |          |                       |               |                      |                                                            |               |                             |                                     |                                                   |                                                  |                                                         |                                            |
| 440702070270301     | 1120TSH  | 32                    | 76-09-08      | 45                   | 6.3                                                        | 15.0          | 15                          | 1                                   | 5.0                                               | .7                                               | 2.1                                                     |                                            |
| 440800070291501     | 112ICCC  | 83                    | 76-09-08      | 122                  | 6.9                                                        | 11.0          | 37                          | 0                                   | 11                                                | 2.4                                              | 10                                                      |                                            |
| 441137070312501     | 112ICCC  | 82                    | 76-09-08      | 140                  | 6.5                                                        | 10.5          | 42                          | 10                                  | 13                                                | 2.2                                              | 9.5                                                     |                                            |
| 441500070310501     | 1120TSH  | 62                    | 76-06-03      | 95                   | 6.0                                                        | 6.5           | 32                          | 11                                  | 11                                                | 1.1                                              | 3.2                                                     |                                            |
|                     | 1120TSH  | 62                    | 76-09-08      | 105                  | --                                                         | 11.0          | 33                          | 0                                   | 12                                                | .8                                               | 3.9                                                     |                                            |
| PENOBSCOT COUNTY    |          |                       |               |                      |                                                            |               |                             |                                     |                                                   |                                                  |                                                         |                                            |
| 450530069054001     | 3008DRK  | 236                   | 76-01-19      | 186                  | 7.4                                                        | --            | 90                          | 8                                   | 24                                                | 7.4                                              | 3.8                                                     |                                            |
| 450530069054002     | 3008DRK  | 236                   | 76-01-19      | 214                  | 7.5                                                        | --            | 110                         | 30                                  | 29                                                | 9.0                                              | 3.5                                                     |                                            |
| SOMERSET COUNTY     |          |                       |               |                      |                                                            |               |                             |                                     |                                                   |                                                  |                                                         |                                            |
| 444219069545801     | 111EOLN  | 14                    | 76-06-14      | 126                  | 6.7                                                        | 9.5           | 64                          | 0                                   | 19                                                | 3.9                                              | 2.0                                                     |                                            |
| WASHINGTON COUNTY   |          |                       |               |                      |                                                            |               |                             |                                     |                                                   |                                                  |                                                         |                                            |
| 444240067283501     | 3008DRK  | 71                    | 76-08-19      | 200                  | 6.6                                                        | 10.0          | 80                          | 1                                   | 28                                                | 2.5                                              | 6.1                                                     |                                            |
| YORK COUNTY         |          |                       |               |                      |                                                            |               |                             |                                     |                                                   |                                                  |                                                         |                                            |
| 432838070333501     | 112DFSFE | 137                   | 75-11-19      | 2000                 | 8.5                                                        | --            | 120                         | 0                                   | 25                                                | 13                                               | 420                                                     |                                            |
| 434822070482501     | 1120TSH  | 24                    | 76-06-14      | 150                  | 6.8                                                        | 10.0          | 62                          | 25                                  | 21                                                | 2.2                                              | 7.3                                                     |                                            |

## Geological unit (aquifer):

- 111EOLN - Eolian deposits, Pleistocene age.
- 112DFSFE - Early stratified drift, Pleistocene age.
- 112ICCC - Ice-contact deposits, Pleistocene age.
- 1120TSH - Glacial outwash, Pleistocene age.
- 112TILL - Glacial till, Pleistocene age.
- 3008DRK - Bedrock undifferentiated, Paleozoic age.
- 357CRML - Carys Mills Formation, Silurian age.



## QUALITY OF GROUND WATER

211

WATER QUALITY DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

| STATION             | NUMBER   | DATE<br>OF<br>SAMPLE | DIS-<br>SOLVED<br>PO-<br>TAS-<br>SIUM<br>(K)<br>(MG/L) | BICAR-<br>BONATE<br>(HCO3)<br>(MG/L) | CAR-<br>BONATE<br>(CO3)<br>(MG/L) | CARBON<br>DIOXIDE<br>(CO2)<br>(MG/L) | DIS-<br>SOLVED<br>SULFATE<br>(SO4)<br>(MG/L) | DIS-<br>SOLVED<br>CHLO-<br>RIDE<br>(CL)<br>(MG/L) | DIS-<br>SOLVED<br>FLUO-<br>RIDE<br>(F)<br>(MG/L) | DIS-<br>SOLVED<br>SILICA<br>(SiO2)<br>(MG/L) | DIS-<br>SOLVED<br>(SUM OF<br>CONSTI-<br>TUENTS)<br>(MG/L) | DIS-<br>SOLVED<br>NITRATE<br>(N)<br>(MG/L) |
|---------------------|----------|----------------------|--------------------------------------------------------|--------------------------------------|-----------------------------------|--------------------------------------|----------------------------------------------|---------------------------------------------------|--------------------------------------------------|----------------------------------------------|-----------------------------------------------------------|--------------------------------------------|
| ANDROSCOGGIN COUNTY |          |                      |                                                        |                                      |                                   |                                      |                                              |                                                   |                                                  |                                              |                                                           |                                            |
| 440224070064801     | 76-09-09 |                      | 3.3                                                    | 112                                  | 0                                 | 2.8                                  | 29                                           | 23                                                | 0.2                                              | 15                                           | 186                                                       | .04                                        |
| 440311070080803     | 76-09-09 |                      | 1.6                                                    | 72                                   | 0                                 | 1.8                                  | 22                                           | 3.0                                               | .1                                               | 18                                           | 112                                                       | .01                                        |
| 440438070261601     | 76-09-08 |                      | .8                                                     | 20                                   | 0                                 | 5.7                                  | 8.0                                          | 1.6                                               | .1                                               | 12                                           | 40                                                        | .02                                        |
| 440730070035301     | 76-09-09 |                      | 1.9                                                    | 60                                   | 0                                 | 3.0                                  | 16                                           | 4.7                                               | .1                                               | 15                                           | 109                                                       | 3.8                                        |
| 441039070052701     | 76-09-09 |                      | 2.9                                                    | 69                                   | 0                                 | 1.4                                  | 21                                           | 3.4                                               | .1                                               | 12                                           | 102                                                       | .00                                        |
| AROOSTOOK COUNTY    |          |                      |                                                        |                                      |                                   |                                      |                                              |                                                   |                                                  |                                              |                                                           |                                            |
| 465821067500401     | 76-04-14 |                      | .4                                                     | 138                                  | 0                                 | 3.5                                  | 54                                           | 15                                                | .2                                               | 7.5                                          | 251                                                       | 5.8                                        |
| 465826067501301     | 76-04-14 |                      | .4                                                     | 130                                  | 0                                 | 3.3                                  | 54                                           | 27                                                | .1                                               | 7.7                                          | 272                                                       | 7.0                                        |
| CUMBERLAND COUNTY   |          |                      |                                                        |                                      |                                   |                                      |                                              |                                                   |                                                  |                                              |                                                           |                                            |
| 434520070185701     | 75-11-19 |                      | .4                                                     | 50                                   | 4                                 | .3                                   | 6.6                                          | 4.4                                               | 4.9                                              | 13                                           | 88                                                        | .02                                        |
| 434528070184301     | 75-11-19 |                      | --                                                     | --                                   | --                                | --                                   | --                                           | --                                                | --                                               | --                                           | --                                                        | --                                         |
| KENNEBEC COUNTY     |          |                      |                                                        |                                      |                                   |                                      |                                              |                                                   |                                                  |                                              |                                                           |                                            |
| 441849069442001     | 76-06-14 |                      | 2.2                                                    | 38                                   | 0                                 | 61                                   | 12                                           | 88                                                | .1                                               | 12                                           | 200                                                       | .29                                        |
| 442326069351301     | 75-11-20 |                      | 1.2                                                    | 114                                  | 0                                 | .6                                   | 12                                           | 21                                                | 3.3                                              | 11                                           | 168                                                       | .07                                        |
|                     | 75-11-24 |                      | --                                                     | --                                   | --                                | --                                   | --                                           | --                                                | --                                               | --                                           | --                                                        | --                                         |
| 442940069402101     | 75-11-20 |                      | 4.3                                                    | 172                                  | 0                                 | 8.7                                  | 23                                           | 17                                                | .8                                               | 13                                           | 207                                                       | .02                                        |
| OXFORD COUNTY       |          |                      |                                                        |                                      |                                   |                                      |                                              |                                                   |                                                  |                                              |                                                           |                                            |
| 440702070270301     | 76-09-08 |                      | .4                                                     | 18                                   | 0                                 | 14                                   | 7.0                                          | 2.1                                               | .1                                               | 7.5                                          | 34                                                        | .03                                        |
| 440800070291501     | 76-09-08 |                      | 1.3                                                    | 45                                   | 0                                 | 9.1                                  | 13                                           | 5.6                                               | .1                                               | 13                                           | 81                                                        | .60                                        |
| 441137070312501     | 76-09-08 |                      | 1.4                                                    | 38                                   | 0                                 | 19                                   | 5.8                                          | 20                                                | .1                                               | 12                                           | 89                                                        | 1.5                                        |
| 441500070310501     | 76-06-03 |                      | 1.0                                                    | 26                                   | 0                                 | 42                                   | 8.1                                          | 5.2                                               | .1                                               | 8.0                                          | 51                                                        | .15                                        |
|                     | 76-09-08 |                      | 1.0                                                    | 40                                   | 0                                 | --                                   | 6.8                                          | 6.3                                               | .1                                               | 8.8                                          | 60                                                        | .07                                        |
| PENOBSCOT COUNTY    |          |                      |                                                        |                                      |                                   |                                      |                                              |                                                   |                                                  |                                              |                                                           |                                            |
| 450530069054001     | 76-01-19 |                      | .3                                                     | 100                                  | 0                                 | 6.4                                  | 6.7                                          | 3.9                                               | .6                                               | 8.4                                          | 104                                                       | .13                                        |
| 450530069054002     | 76-01-19 |                      | .4                                                     | 97                                   | 0                                 | 4.9                                  | 9.1                                          | 9.2                                               | .1                                               | 8.7                                          | 119                                                       | .51                                        |
| SOMERSET COUNTY     |          |                      |                                                        |                                      |                                   |                                      |                                              |                                                   |                                                  |                                              |                                                           |                                            |
| 444219069545801     | 76-06-14 |                      | 2.8                                                    | 82                                   | 0                                 | 26                                   | 5.1                                          | .5                                                | .1                                               | 6.4                                          | 80                                                        | .03                                        |
| WASHINGTON COUNTY   |          |                      |                                                        |                                      |                                   |                                      |                                              |                                                   |                                                  |                                              |                                                           |                                            |
| 444240067283501     | 76-08-19 |                      | 1.9                                                    | 97                                   | 0                                 | 39                                   | 6.1                                          | 3.5                                               | .1                                               | 12                                           | 127                                                       | 4.3                                        |
| YORK COUNTY         |          |                      |                                                        |                                      |                                   |                                      |                                              |                                                   |                                                  |                                              |                                                           |                                            |
| 432838070333501     | 75-11-19 |                      | 7.3                                                    | 372                                  | 0                                 | 1.9                                  | 93                                           | 460                                               | 3.7                                              | 11                                           | 1220                                                      | .00                                        |
| 434822070482501     | 76-06-14 |                      | 4.7                                                    | 44                                   | 0                                 | 11                                   | 8.6                                          | 8.8                                               | .1                                               | 5.4                                          | 102                                                       | 5.0                                        |

## QUALITY OF GROUND WATER

WATER QUALITY DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

| STATION             | NUMBER   | DATE<br>OF<br>SAMPLE | DIS-<br>SOLVED<br>NITRATE<br>(NO3)<br>(MG/L) | DIS-<br>SOLVED<br>NITRITE<br>(N)<br>(MG/L) | DIS-<br>SOLVED<br>NITRITE<br>(NO2)<br>(MG/L) | TOTAL<br>PHOS-<br>PHORUS<br>(P)<br>(MG/L) | TOTAL<br>IRON<br>(FE)<br>(UG/L) | TOTAL<br>MAN-<br>GANESE<br>(MN)<br>(UG/L) | DIS-<br>SOLVED<br>GROSS<br>ALPHA<br>AS<br>U-NAT.<br>(UG/L) | SUS-<br>PENDE<br>GROSS<br>ALPHA<br>AS<br>U-NAT.<br>(UG/L) | DIS-<br>SOLVED<br>GROSS<br>BETA<br>AS<br>CS-137<br>(PC/L) | SUS-<br>PENDE<br>GROSS<br>BETA<br>AS<br>CS-137<br>(PC/L) |
|---------------------|----------|----------------------|----------------------------------------------|--------------------------------------------|----------------------------------------------|-------------------------------------------|---------------------------------|-------------------------------------------|------------------------------------------------------------|-----------------------------------------------------------|-----------------------------------------------------------|----------------------------------------------------------|
| ANDROSCOGGIN COUNTY |          |                      |                                              |                                            |                                              |                                           |                                 |                                           |                                                            |                                                           |                                                           |                                                          |
| 440224070064801     | 76-09-09 |                      | .18                                          | .01                                        | .03                                          | .03                                       | 240                             | 70                                        | --                                                         | --                                                        | --                                                        | --                                                       |
| 440311070080803     | 76-09-09 |                      | .04                                          | .01                                        | .03                                          | .01                                       | 450                             | 80                                        | --                                                         | --                                                        | --                                                        | --                                                       |
| 440438070261601     | 76-09-08 |                      | .09                                          | .01                                        | .03                                          | .02                                       | 340                             | 100                                       | --                                                         | --                                                        | --                                                        | --                                                       |
| 440730070035301     | 76-09-09 | 17                   | .13                                          | .13                                        | .43                                          | .02                                       | 80                              | 0                                         | --                                                         | --                                                        | --                                                        | --                                                       |
| 441039070052701     | 76-09-09 |                      | .00                                          | .01                                        | .03                                          | .02                                       | 190                             | 10                                        | --                                                         | --                                                        | --                                                        | --                                                       |
| AROOSTOOK COUNTY    |          |                      |                                              |                                            |                                              |                                           |                                 |                                           |                                                            |                                                           |                                                           |                                                          |
| 465821067500401     | 76-04-14 | 26                   | --                                           | --                                         | --                                           | --                                        | 0                               | 0                                         | --                                                         | --                                                        | --                                                        | --                                                       |
| 465826067501301     | 76-04-14 | 31                   | --                                           | --                                         | --                                           | --                                        | 0                               | 0                                         | --                                                         | --                                                        | --                                                        | --                                                       |
| CUMBERLAND COUNTY   |          |                      |                                              |                                            |                                              |                                           |                                 |                                           |                                                            |                                                           |                                                           |                                                          |
| 434520070185701     | 75-11-19 |                      | .09                                          | .00                                        | .00                                          | .01                                       | --                              | --                                        | <1.1                                                       | <.4                                                       | .9                                                        | <.4                                                      |
| 434528070184301     | 75-11-19 |                      | --                                           | --                                         | --                                           | --                                        | --                              | --                                        | 3.0                                                        | <.4                                                       | 1.5                                                       | .4                                                       |
| KENNEBEC COUNTY     |          |                      |                                              |                                            |                                              |                                           |                                 |                                           |                                                            |                                                           |                                                           |                                                          |
| 441849069442001     | 76-06-14 |                      | 1.3                                          | .01                                        | .03                                          | .01                                       | 100                             | 10                                        | --                                                         | --                                                        | --                                                        | --                                                       |
| 442326069351301     | 75-11-20 |                      | .31                                          | .00                                        | .00                                          | .03                                       | --                              | --                                        | --                                                         | --                                                        | --                                                        | --                                                       |
|                     | 75-11-24 |                      | --                                           | --                                         | --                                           | --                                        | --                              | --                                        | 19                                                         | <.4                                                       | 3.7                                                       | .9                                                       |
| 442940069402101     | 75-11-20 |                      | .09                                          | .01                                        | .03                                          | .01                                       | --                              | --                                        | 4.2                                                        | <.4                                                       | 6.1                                                       | <.4                                                      |
| OXFORD COUNTY       |          |                      |                                              |                                            |                                              |                                           |                                 |                                           |                                                            |                                                           |                                                           |                                                          |
| 440702070270301     | 76-09-08 |                      | .13                                          | .01                                        | .03                                          | .02                                       | 30                              | 10                                        | --                                                         | --                                                        | --                                                        | --                                                       |
| 440800070291501     | 76-09-08 |                      | 2.7                                          | .01                                        | .03                                          | .02                                       | 20                              | 0                                         | --                                                         | --                                                        | --                                                        | --                                                       |
| 441137070312501     | 76-09-08 |                      | 6.6                                          | .01                                        | .03                                          | .01                                       | 40                              | 10                                        | --                                                         | --                                                        | --                                                        | --                                                       |
| 441500070310501     | 76-06-03 |                      | .66                                          | .00                                        | .00                                          | .06                                       | 690                             | 20                                        | --                                                         | --                                                        | --                                                        | --                                                       |
|                     | 76-09-08 |                      | .31                                          | .01                                        | .03                                          | .01                                       | 50                              | 10                                        | --                                                         | --                                                        | --                                                        | --                                                       |
| PENOBSCOT COUNTY    |          |                      |                                              |                                            |                                              |                                           |                                 |                                           |                                                            |                                                           |                                                           |                                                          |
| 450530069054001     | 76-01-19 |                      | .60                                          | --                                         | --                                           | --                                        | 30                              | 10                                        | --                                                         | --                                                        | --                                                        | --                                                       |
| 450530069054002     | 76-01-19 |                      | 2.3                                          | --                                         | --                                           | --                                        | 20                              | 10                                        | --                                                         | --                                                        | --                                                        | --                                                       |
| SOMERSET COUNTY     |          |                      |                                              |                                            |                                              |                                           |                                 |                                           |                                                            |                                                           |                                                           |                                                          |
| 444219069545801     | 76-06-14 |                      | .13                                          | .01                                        | .03                                          | .21                                       | 5500                            | 880                                       | --                                                         | --                                                        | --                                                        | --                                                       |
| WASHINGTON COUNTY   |          |                      |                                              |                                            |                                              |                                           |                                 |                                           |                                                            |                                                           |                                                           |                                                          |
| 444240067283501     | 76-08-19 | 19                   |                                              | .01                                        | .03                                          | .02                                       | 8500                            | 50                                        | --                                                         | --                                                        | --                                                        | --                                                       |
| YORK COUNTY         |          |                      |                                              |                                            |                                              |                                           |                                 |                                           |                                                            |                                                           |                                                           |                                                          |
| 432838070333501     | 75-11-19 |                      | .00                                          | .44                                        | 1.4                                          | .32                                       | --                              | --                                        | 25                                                         | <.4                                                       | 20                                                        | <.4                                                      |
| 434822070482501     | 76-06-14 | 22                   |                                              | .01                                        | .03                                          | .03                                       | 170                             | 0                                         | --                                                         | --                                                        | --                                                        | --                                                       |

## WATER QUALITY DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

| STATION             | NUMBER | DATE<br>OF<br>SAMPLE | DIS-<br>SOLVED<br>GROSS<br>BETA<br>AS SR90<br>/Y90<br>(PC/L) | SUS-<br>PENDED<br>GROSS<br>BETA<br>AS SR90<br>/Y90<br>(PC/L) | DIS-<br>SOLVED<br>RA-226<br>(RADON<br>METHOD)<br>(PC/L) | DIS-<br>SOLVED<br>URANIUM<br>(DIRECT<br>FLUORO-<br>METRIC)<br>(PC/L) | TOTAL<br>FILT-<br>RABLE<br>RESIDUE<br>(MG/L) | TOTAL<br>NON-<br>FILT-<br>RABLE<br>RESIDUE<br>(MG/L) | TOTAL<br>ORGANIC<br>CARBON<br>(C)<br>(MG/L) |
|---------------------|--------|----------------------|--------------------------------------------------------------|--------------------------------------------------------------|---------------------------------------------------------|----------------------------------------------------------------------|----------------------------------------------|------------------------------------------------------|---------------------------------------------|
| ANDROSCOGGIN COUNTY |        |                      |                                                              |                                                              |                                                         |                                                                      |                                              |                                                      |                                             |
| 440224070064801     |        | 76-09-09             | --                                                           | --                                                           | --                                                      | --                                                                   | --                                           | --                                                   | 3.2                                         |
| 440311070080803     |        | 76-09-09             | --                                                           | --                                                           | --                                                      | --                                                                   | --                                           | --                                                   | 3.0                                         |
| 440438070261601     |        | 76-09-08             | --                                                           | --                                                           | --                                                      | --                                                                   | --                                           | --                                                   | 2.5                                         |
| 440730070035301     |        | 76-09-09             | --                                                           | --                                                           | --                                                      | --                                                                   | --                                           | --                                                   | 4.9                                         |
| 441039070052701     |        | 76-09-09             | --                                                           | --                                                           | --                                                      | --                                                                   | --                                           | --                                                   | 4.0                                         |
| AROOSTOOK COUNTY    |        |                      |                                                              |                                                              |                                                         |                                                                      |                                              |                                                      |                                             |
| 465821067500401     |        | 76-04-14             | --                                                           | --                                                           | --                                                      | --                                                                   | --                                           | --                                                   | --                                          |
| 465826067501301     |        | 76-04-14             | --                                                           | --                                                           | --                                                      | --                                                                   | --                                           | --                                                   | --                                          |
| CUMBERLAND COUNTY   |        |                      |                                                              |                                                              |                                                         |                                                                      |                                              |                                                      |                                             |
| 434520070185701     |        | 75-11-19             | .7                                                           | <.4                                                          | .05                                                     | .4                                                                   | 86                                           | <1                                                   | .4                                          |
| 434528070184301     |        | 75-11-19             | 1.2                                                          | <.4                                                          | .04                                                     | .4                                                                   | 140                                          | <1                                                   | 1.0                                         |
| KENNEBEC COUNTY     |        |                      |                                                              |                                                              |                                                         |                                                                      |                                              |                                                      |                                             |
| 441849069442001     |        | 76-06-14             | --                                                           | --                                                           | --                                                      | --                                                                   | --                                           | --                                                   | 2.9                                         |
| 442326069351301     |        | 75-11-20             | --                                                           | --                                                           | --                                                      | --                                                                   | --                                           | --                                                   | .2                                          |
|                     |        | 75-11-24             | 3.0                                                          | .8                                                           | .03                                                     | 5.9                                                                  | 160                                          | <1                                                   | --                                          |
| 442940069402101     |        | 75-11-20             | 4.9                                                          | <.4                                                          | .15                                                     | .9                                                                   | 220                                          | <1                                                   | 1.4                                         |
| OXFORD COUNTY       |        |                      |                                                              |                                                              |                                                         |                                                                      |                                              |                                                      |                                             |
| 440702070270301     |        | 76-09-08             | --                                                           | --                                                           | --                                                      | --                                                                   | --                                           | --                                                   | 3.0                                         |
| 440800070291501     |        | 76-09-08             | --                                                           | --                                                           | --                                                      | --                                                                   | --                                           | --                                                   | 1.7                                         |
| 441137070312501     |        | 76-09-08             | --                                                           | --                                                           | --                                                      | --                                                                   | --                                           | --                                                   | 2.0                                         |
| 441500070310501     |        | 76-06-03             | --                                                           | --                                                           | --                                                      | --                                                                   | --                                           | --                                                   | --                                          |
|                     |        | 76-09-08             | --                                                           | --                                                           | --                                                      | --                                                                   | --                                           | --                                                   | 3.3                                         |
| PENOBSCOT COUNTY    |        |                      |                                                              |                                                              |                                                         |                                                                      |                                              |                                                      |                                             |
| 450530069054001     |        | 76-01-19             | --                                                           | --                                                           | --                                                      | --                                                                   | --                                           | --                                                   | --                                          |
| 450530069054002     |        | 76-01-19             | --                                                           | --                                                           | --                                                      | --                                                                   | --                                           | --                                                   | --                                          |
| SOMERSET COUNTY     |        |                      |                                                              |                                                              |                                                         |                                                                      |                                              |                                                      |                                             |
| 444219069545801     |        | 76-06-14             | --                                                           | --                                                           | --                                                      | --                                                                   | --                                           | --                                                   | 5.3                                         |
| WASHINGTON COUNTY   |        |                      |                                                              |                                                              |                                                         |                                                                      |                                              |                                                      |                                             |
| 444240067283501     |        | 76-08-19             | --                                                           | --                                                           | --                                                      | --                                                                   | --                                           | --                                                   | 8.8                                         |
| YORK COUNTY         |        |                      |                                                              |                                                              |                                                         |                                                                      |                                              |                                                      |                                             |
| 432838070333501     |        | 75-11-19             | 16                                                           | <.4                                                          | .27                                                     | .5                                                                   | 1300                                         | <1                                                   | 1.0                                         |
| 434822070482501     |        | 76-06-14             | --                                                           | --                                                           | --                                                      | --                                                                   | --                                           | --                                                   | 3.1                                         |



|                                                | Page    |                                              | Page        |
|------------------------------------------------|---------|----------------------------------------------|-------------|
| Accuracy of field data and computed results... | 9-10    | Hydrologic unit, definition of.....          | 4           |
| Acknowledgements.....                          | 2       | Indian Pond, contents of.....                | 132         |
| Algae, definition of.....                      | 2       | Kenduskeag Stream near Kenduskeag.....       | 103         |
| Allagash River near Allagash.....              | 27-33   | Kennebec River at Bingham.....               | 115-126     |
| Ambajeus Lake, contents of.....                | 104     | at Moosehead.....                            | 111         |
| Androscoggin River, at Brunswick.....          | 150-160 | at The Forks.....                            | 112         |
| at Errol, NH.....                              | 134     | Kennebec River basin:                        |             |
| at Rumford.....                                | 142     | gaging stations in.....                      | 110-131     |
| near Auburn.....                               | 148     | reservoirs in.....                           | 110,131-132 |
| near Gorham, NH.....                           | 135     | Lake Auburn, contents of.....                | 161         |
| Androscoggin River basin:                      |         | Lakes and reservoirs:                        |             |
| gaging-station records in.....                 | 133-160 | Ambajeus Lake.....                           | 104         |
| reservoirs in.....                             | 161     | Auburn, Lake.....                            | 161         |
| Aquifer, definition of.....                    | 2       | Azischohos Lake.....                         | 161         |
| Aroostook River, at Caribou.....               | 40-51   | Brassua Lake.....                            | 132         |
| at Washburn.....                               | 39      | Caribou Lake.....                            | 104         |
| near Masardis.....                             | 37      | Chamberlain Lake.....                        | 104         |
| Azischohos Lake, contents of.....              | 161     | Chesuncook Lake.....                         | 104         |
| Bacteria, definition of.....                   | 2       | Cobbosseecontee Lake at East Winthrop.....   | 131         |
| Bed material, definition of.....               | 3       | Elbow Lake.....                              | 104         |
| Biomass, definition of.....                    | 3       | First Roach Pond.....                        | 132         |
| Blacksmith Brook at Wells.....                 | 188     | Flagstaff Lake.....                          | 132         |
| Brassua Lake, contents of.....                 | 132     | Grand Lake.....                              | 104         |
| Caribou Lake, contents of.....                 | 104     | Gulf Island Pond.....                        | 161         |
| Carrabassett River near North Anson.....       | 127     | Indian Pond.....                             | 132         |
| Cells/volume, definition of.....               | 3       | Moose Pond.....                              | 104         |
| Cfs-day, definition of.....                    | 3       | Moosehead Lake at East Outlet.....           | 110         |
| Chamberlain Lake, contents of.....             | 104     | Mooselookmeguntic Lake.....                  | 161         |
| Chemical oxygen demand, definition of.....     | 3       | Moxie Pond.....                              | 132         |
| Chesuncook Lake, contents of.....              | 104     | North Twin Lake.....                         | 104         |
| Chlorophyll, definition of.....                | 3       | Pemadumcook Lake.....                        | 104         |
| Cobbosseecontee Lake at East Winthrop.....     | 131     | Rangeley Lake.....                           | 161         |
| Collyer Brook near Gray.....                   | 162     | Richardson Lakes.....                        | 161         |
| Color unit, definition of.....                 | 3       | Ripogenus Lake.....                          | 104         |
| Computation, accuracy of results of.....       | 9-10    | Round Pond.....                              | 104         |
| Contents, definition of.....                   | 3       | Sebec Lake.....                              | 104         |
| Control, definition of.....                    | 3       | Second Lake.....                             | 104         |
| Control structure, definition of.....          | 3       | South Twin Lake.....                         | 104         |
| Cooperation.....                               | 1       | Telos Lake.....                              | 104         |
| Crooked River near Naples.....                 | 164     | Thompson Lake.....                           | 161         |
| Cubic feet per second, definition of.....      | 3       | Umbagog Lake.....                            | 161         |
| Cubic feet per second per square mile,         |         | Wyman Pond.....                              | 132         |
| definition of.....                             | 3       | Land surface datum, definition of.....       | 4           |
| Data, accuracy of.....                         | 9-10    | Little Androscoggin River, near Auburn.....  | 147         |
| explanation of.....                            | 7-11    | near South Paris.....                        | 145         |
| Dead River, at The Forks.....                  | 114     | Little Ossipee River near South Limington... | 186         |
| near Dead River.....                           | 113     | Machias River (tributary to Aroostook River) |             |
| Dennys River at Dennysville.....               | 75      | near Ashland.....                            | 38          |
| Diamond River near Wentworth Location, NH..... | 133     | Machias River (tributary to Atlantic Ocean)  |             |
| Discharge, definition of.....                  | 3       | at Whitneyville.....                         | 76          |
| Dissolved, definition of.....                  | 3       | Marley Brook near Ludlow.....                | 52          |
| Drainage area, definition of.....              | 3       | Mattawamkeag River near Mattawamkeag.....    | 82          |
| Drainage basin, definition of.....             | 4       | Measuring point, definition of.....          | 4           |
| Elbow Lake, contents of.....                   | 104     | Meduxnekeag River near Houlton.....          | 53          |
| Ellis River at South Andover.....              | 141     | Micrograms per gram, definition of.....      | 4           |
| First Roach Pond, contents of.....             | 132     | Micrograms per liter, definition of.....     | 4           |
| Fish River near Fort Kent.....                 | 35      | Milligrams per liter, definition of.....     | 4           |
| Flagstaff Lake, contents of.....               | 132     | Miscellaneous measurements of streamflow...  | 190-199     |
| Gage height, definition of.....                | 4       | of water temperature and specific            |             |
| Gaging station, definition of.....             | 4       | conductance.....                             | 200-203     |
| Garland Brook near Mariaville.....             | 79      | Moose Pond, contents of.....                 | 104         |
| Grand Lake, contents of.....                   | 104     | Moosehead Lake at East Outlet.....           | 110         |
| Grand Lake Stream at Grand Lake Stream.....    | 55      | Mooselookmeguntic Lake, contents of.....     | 161         |
| Ground water, analyses of.....                 | 210-213 | Morrison Brook near Sebec Corners.....       | 84          |
| Ground-water levels.....                       | 204-209 | Mousam River near West Kennebunk.....        | 187         |
| Gulf Island Pond, contents of.....             | 161     | Moxie Pond, contents of.....                 | 132         |
| Hardness, definition of.....                   | 4       | Narraguagus River at Cherryfield.....        | 77          |
| Hydrologic bench-mark station, definition of.. | 7       | National stream-quality accounting network,  |             |
| Hydrologic conditions.....                     | 2       | definition of.....                           | 7           |
| graph of.....                                  | 13      | Nezinscot River at Turner Center.....        | 144         |
|                                                |         | North Twin Lake, contents of.....            | 104         |

|                                               | Page    |                                              | Page    |
|-----------------------------------------------|---------|----------------------------------------------|---------|
| Order of listing gaging stations.....         | 6       | St. Croix River basin:                       |         |
| Organism, definition of.....                  | 4       | gaging-station records in.....               | 54-74   |
| Organism count/volume, definition of.....     | 4       | St. Francis River at outlet of Glasier       |         |
| Ossipee River at Cornish.....                 | 173     | Lake, near Connors, New Brunswick...         | 34      |
| at Effingham Falls, NH.....                   | 172     | St. John River at Dickey.....                | 20-26   |
|                                               |         | at Ninemile Bridge.....                      | 15-19   |
| Partial-record station, definition of.....    | 4       | below Fish River, at Fort Kent.....          | 36      |
| Particle size, definition of.....             | 4       | St. John River basin:                        |         |
| Passadumkeag River at Lowell.....             | 102     | gaging-station records in.....               | 15-53   |
| Pemadumcook Lake, contents of.....            | 104     | Salmon Falls River at Milton, NH.....        | 189     |
| Penobscot River at West Enfield.....          | 88-101  | Sandy River near Mercer.....                 | 128     |
| East Branch at Grindstone.....                | 80      | Sebasticook River near Pittsfield.....       | 129     |
| near Mattawamkeag.....                        | 81      | Sebec Lake, contents of.....                 | 104     |
| Penobscot River basin:                        |         | Sebec River at Sebec.....                    | 85      |
| gaging-station records in.....                | 80-103  | Second Lake, contents of.....                | 104     |
| reservoirs in.....                            | 104     | Sediment, definition of.....                 | 5       |
| Percent composition, definition of.....       | 4       | Sheepscot River at North Whitefield.....     | 105-109 |
| Periphyton, definition of.....                | 4       | Sodium-adsorption-ratio, definition of....   | 5       |
| Pesticides, definition of.....                | 4       | Solute, definition of.....                   | 5       |
| Pesticide program, definition of.....         | 7       | South Twin Lake, contents of.....            | 104     |
| Picocurie, definition of.....                 | 4       | Specific conductance, definition of.....     | 5       |
| Piscataqua River basin:                       |         | Stage-discharge relation, definition of...   | 5       |
| gaging-station records in.....                | 189     | Stations, location of.....                   | 14      |
| Piscataquis River at Medford.....             | 87      | Station numbers.....                         | 6       |
| near Dover-Foxcroft.....                      | 83      | Streamflow, definition of.....               | 5       |
| Plankton, definition of.....                  | 4       | Stroudwater River at Portland.....           | 170     |
| Pleasant River near Milo.....                 | 86      | Substrate, definition of.....                | 5       |
| Presumpscot River at outlet of Sebago Lake... | 165     | Surface area, definition of.....             | 6       |
| at West Falmouth.....                         | 166-169 | Surficial bed material, definition of....    | 6       |
| Presumpscot River basin:                      |         | Suspended, definition of.....                | 6       |
| gaging station records in.....                | 164-169 | Swift River near Roxbury.....                | 143     |
| Publications of streamflow records by         |         |                                              |         |
| Geological Survey.....                        | 1       | Tanning Brook, North Branch, near Manchester | 130     |
|                                               |         | Taxonomy, definition of.....                 | 6       |
| Radiochemical program, definition of.....     | 7       | Telos Lake, contents of.....                 | 104     |
| Rangleey Lake, contents of.....               | 161     | Terms, definition of.....                    | 2-6     |
| Reservoirs, see Lakes and reservoirs.....     | 215     | Thompson Lake, contents of.....              | 161     |
| Richardson Lakes, contents of.....            | 161     | Thompson Lake Outlet at Oxford.....          | 146     |
| Ripogenus Lake, contents of.....              | 104     | Tons per day, definition of.....             | 6       |
| Round Pond, contents of.....                  | 104     | Total load, definition of.....               | 6       |
| Royal River at Yarmouth.....                  | 163     |                                              |         |
| Royal River basin:                            |         | Umbagog Lake, contents of.....               | 161     |
| gaging-station records in.....                | 162-163 | Union River basin:                           |         |
| Runoff in inches, definition of.....          | 5       | gaging-station records in.....               | 78-79   |
|                                               |         | Union River, West Branch, at Amherst.....    | 78      |
| Sabattus River near Lisbon Center.....        | 149     |                                              |         |
| Saco River at Cornish.....                    | 174-185 | Weighted average, definition of.....         | 6       |
| near Conway, NH.....                          | 171     | Wells, description of.....                   | 204-209 |
| Saco River basin:                             |         | numbers of.....                              | 6-7     |
| gaging-station records in.....                | 171-186 | water-level measurements in.....             | 204-209 |
| St. Croix River at Baring.....                | 57-59   | water quality in.....                        | 210-213 |
| at Milltown.....                              | 60-74   | Wild River at Gilead.....                    | 136-140 |
| at Vanceboro.....                             | 54      | WRD, definition of.....                      | 6       |
| near Baileyville.....                         | 56      | WSP, definition of.....                      | 6       |
|                                               |         | Wyman Pond, contents of.....                 | 132     |



# 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)                                | $2.54 \times 10^1$     | millimeters (mm)                                 |
|                                            | $2.54 \times 10^{-2}$  | meters (m)                                       |
| feet (ft)                                  | $3.048 \times 10^{-1}$ | meters (m)                                       |
| miles (mi)                                 | $1.609 \times 10^0$    | kilometers (km)                                  |
| <i>Area</i>                                |                        |                                                  |
| acres                                      | $4.047 \times 10^3$    | square meters (m <sup>2</sup> )                  |
|                                            | $4.047 \times 10^{-1}$ | *hectares (ha)                                   |
|                                            | $4.047 \times 10^{-1}$ | square hectometers (hm <sup>2</sup> )            |
|                                            | $4.047 \times 10^{-3}$ | square kilometers (km <sup>2</sup> )             |
| square miles (mi <sup>2</sup> )            | $2.590 \times 10^0$    | square kilometers (km <sup>2</sup> )             |
| <i>Volume</i>                              |                        |                                                  |
| gallons (gal)                              | $3.785 \times 10^0$    | **liters (l)                                     |
|                                            | $3.785 \times 10^0$    | cubic decimeters (dm <sup>3</sup> )              |
|                                            | $3.785 \times 10^{-3}$ | cubic meters (m <sup>3</sup> )                   |
| million gallons (10 <sup>6</sup> gal)      | $3.785 \times 10^3$    | cubic meters (m <sup>3</sup> )                   |
|                                            | $3.785 \times 10^{-3}$ | cubic hectometers (hm <sup>3</sup> )             |
| cubic feet (ft <sup>3</sup> )              | $2.832 \times 10^1$    | cubic decimeters (dm <sup>3</sup> )              |
|                                            | $2.832 \times 10^{-2}$ | cubic meters (m <sup>3</sup> )                   |
| cfs-days [(ft <sup>3</sup> /s) · d]        | $2.447 \times 10^3$    | cubic meters (m <sup>3</sup> )                   |
|                                            | $2.447 \times 10^{-3}$ | cubic hectometers (hm <sup>3</sup> )             |
| acre-feet (acre-ft)                        | $1.233 \times 10^3$    | cubic meters (m <sup>3</sup> )                   |
|                                            | $1.233 \times 10^{-3}$ | cubic hectometers (hm <sup>3</sup> )             |
|                                            | $1.233 \times 10^{-6}$ | cubic kilometers (km <sup>3</sup> )              |
| <i>Flow</i>                                |                        |                                                  |
| cubic feet per second (ft <sup>3</sup> /s) | $2.832 \times 10^1$    | liters per second (l/s)                          |
|                                            | $2.832 \times 10^1$    | cubic decimeters per second (dm <sup>3</sup> /s) |
|                                            | $2.832 \times 10^{-2}$ | cubic meters per second (m <sup>3</sup> /s)      |
| gallons per minute (gal/min)               | $6.309 \times 10^{-2}$ | liters per second (l/s)                          |
|                                            | $6.309 \times 10^{-2}$ | cubic decimeters per second (dm <sup>3</sup> /s) |
|                                            | $6.309 \times 10^{-5}$ | cubic meters per second (m <sup>3</sup> /s)      |
| million gallons per day (mgal/d)           | $4.381 \times 10^1$    | cubic decimeters per second (dm <sup>3</sup> /s) |
|                                            | $4.381 \times 10^{-2}$ | cubic meters per second (m <sup>3</sup> /s)      |
| <i>Mass</i>                                |                        |                                                  |
| tons (short)                               | $9.072 \times 10^{-1}$ | 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 liter is accepted for use with the International System (SI). See NBS Special Bulletin 330, p. 13, 1972 edition.



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