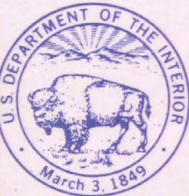
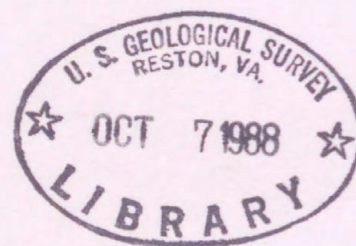
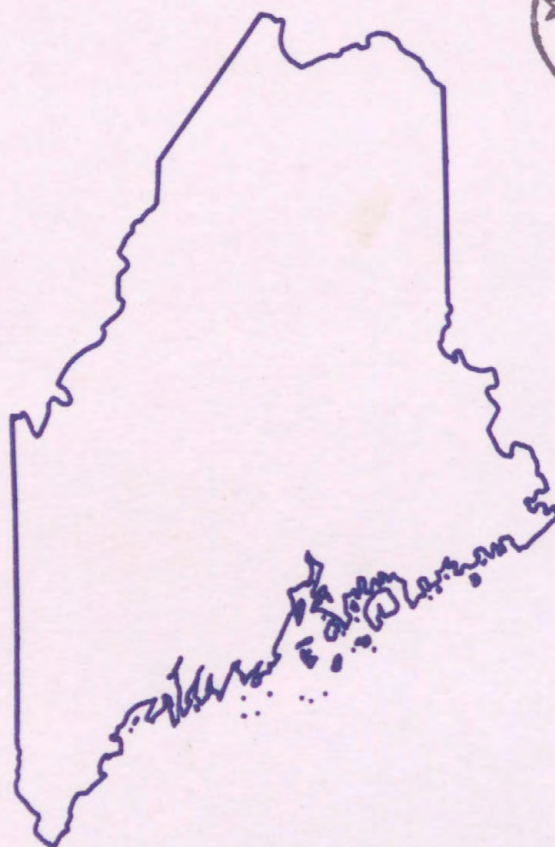


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Water Resources Data Maine Water Year 1986



U.S. GEOLOGICAL SURVEY WATER-DATA REPORT ME-86-1
Prepared in cooperation with the State of Maine
and with other agencies

CALENDAR FOR WATER YEAR 1986

1985

OCTOBER

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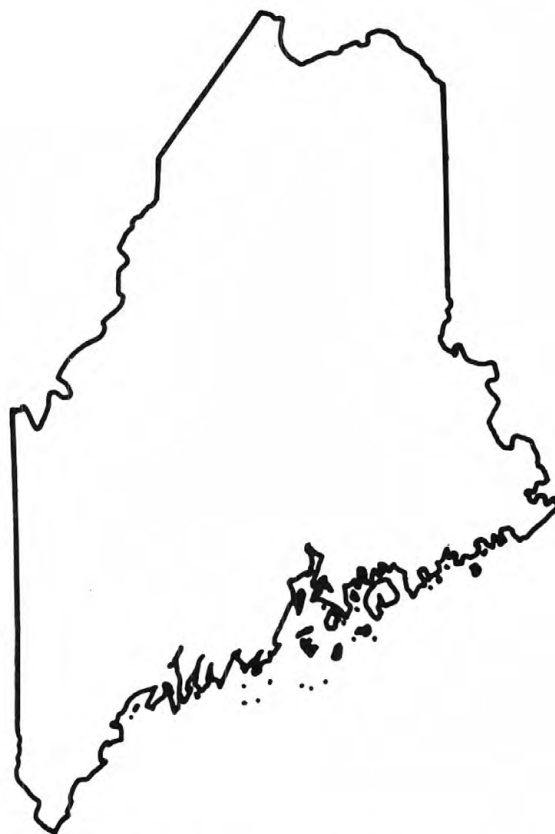
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Water Resources Data Maine Water Year 1986

by W.P. Bartlett, Jr., W.B. Higgins, and W.J. Nichols, Jr.



U.S. GEOLOGICAL SURVEY WATER-DATA REPORT ME-86-1
Prepared in cooperation with the State of Maine
and with other agencies

UNITED STATES DEPARTMENT OF THE INTERIOR

DONALD PAUL HODEL, Secretary

GEOLOGICAL SURVEY

Dallas L. Peck, Director

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

1988

PREFACE

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

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

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Andrew R. Cloutier	Richard A. Morrill
Gordon R. Keezer	Joel A. Petersen
Robert G. Lippert	

Gloria L. Morrill prepared the illustrations for the report.

Helen D. Wyman typed the manuscripts and coordinated the word processing of the report.

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

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WATER RESOURCES DATA - MAINE, 1986

INTRODUCTION

The Water Resources Division of the U.S. Geological Survey, in cooperation with State agencies, obtains a large amount of data pertaining to the water resources of Maine each water year. These data, accumulated during many water years, constitute a valuable data base for developing an improved understanding of the water resources of the State. To make these data readily available to interested parties outside the Geological Survey, the data are published annually in this report series entitled "Water Resources Data - Maine."

This report series includes records of stage, discharge, and water quality of streams; stage, contents, and water quality of lakes and reservoirs; and water levels and water quality of ground-water wells. This volume contains records for water discharge at 48 gaging stations; stage only at 2 gaging stations; contents at 19 lakes and reservoirs; water quality at 11 river sites and 5 wells; and water levels at 17 observation wells. Locations of these sites are shown on figure 1. Additional water data were collected at various sites not involved in the systematic data-collection program, and are published as miscellaneous data. 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.

This series of annual reports for Maine began with the 1961 water year with a report that contained only data relating to the quantities of surface water. For the 1965 water year, the report included data relating to water quality. Beginning with the 1968 water year, the report format was changed to present, in one volume, data on quantities of surface water, quality of surface and ground water, and ground-water levels.

Prior to introduction of this series and for several water years concurrent with it, water-resources data for Maine were published in U.S. Geological Survey Water-Supply Papers. Data on stream discharge and stage and on lake or reservoir contents and stage, through September 1960, were published annually under the title "Surface-Water Supply of the United States, Part 1A." For the 1961 through 1970 water years, the data were published in two 5-year reports. Data on chemical quality, temperature, and suspended sediment for the 1941 through 1970 water years were published annually under the title "Quality of Surface Waters of the United States." Records of ground-water levels for the 1935 through 1955 water years were published under the title "Water Levels and Artesian Pressures in Observation Wells in the United States" and from 1956 through 1974 water years were published under the title "Ground-Water Levels in the United States." The above mentioned Water-Supply Papers may be consulted in the libraries of the principal cities of the United States or may be purchased from Books and Open-File Reports Section, U.S. Geological Survey, Federal Center, Box 25425, Denver, CO 80225.

Publications similar to this report are published annually by the U.S. Geological Survey for all States. These reports have an identification number consisting of the two-letter State abbreviation, the last two digits of the water year, and the volume number. For example, this volume is identified as "U.S. Geological Survey Water-Data Report ME-86-1." These water-data reports are for sale in paper copy or in microfiche by the National Technical Information Service, U.S. Department of Commerce, Springfield, VA 22161.

WATER RESOURCES DATA FOR MAINE, 1986

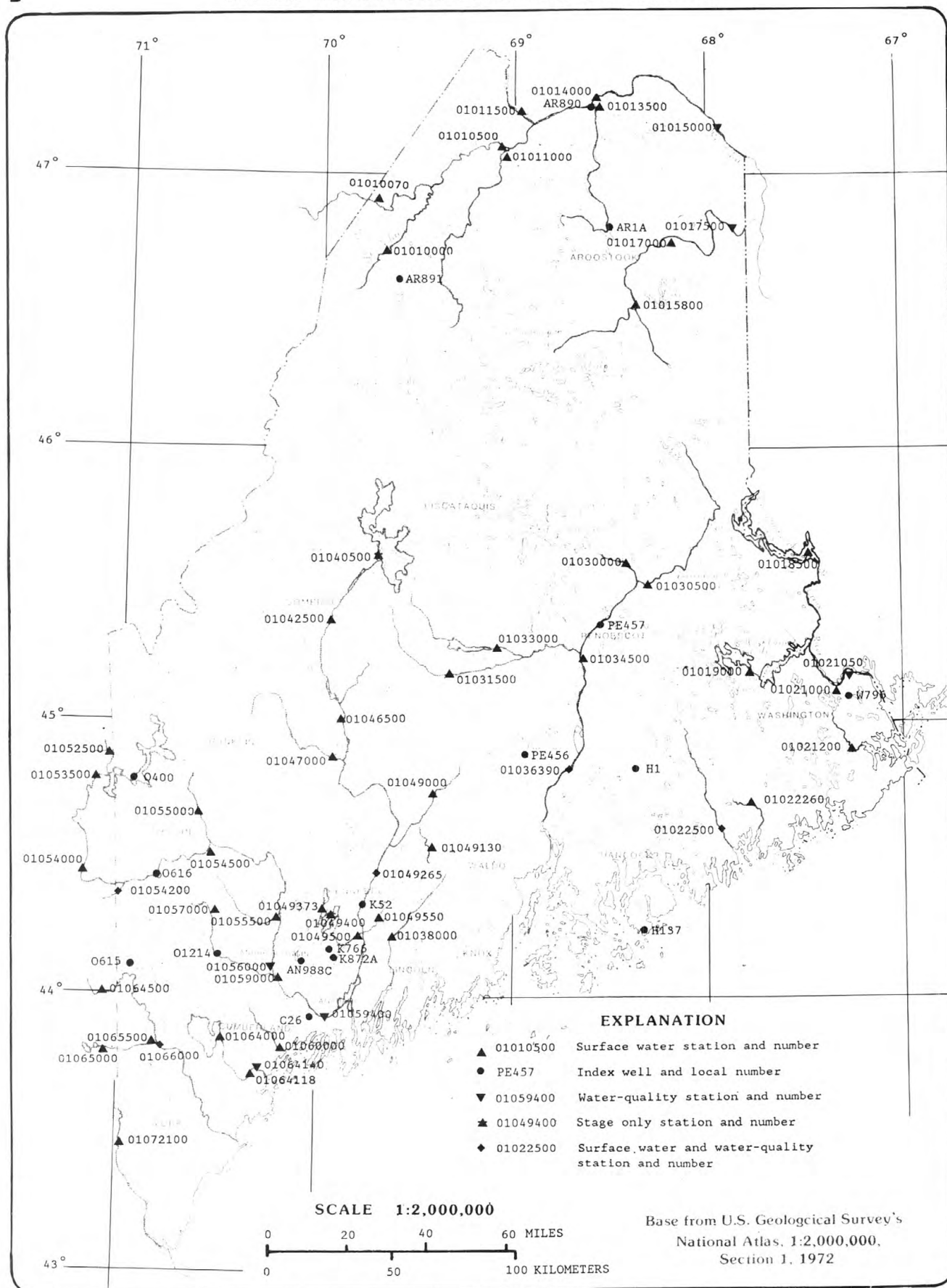


Figure 1.--Location of data collection stations.

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

COOPERATION

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

Maine Department of Conservation, Geological Survey, R. E. Anderson, Commissioner.
Maine Department of Environmental Protection, H. E. Warren, Commissioner
Maine Department of Transportation, D. F. Conners, Commissioner
Cobbossee Watershed District, T. U. Gordon, Executive Director
Androscoggin Valley Council of Governments, J. J. Jaworski, Executive Director

Assistance with funds or services was given by the U.S. Department of State in collecting records for 3 gaging stations and 1 water-quality stations ; and by the U.S. Veterans Administration in collecting records for 1 gaging station.

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

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

Organizations that provided 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".

WATER RESOURCES DATA - MAINE, 1986

HYDROLOGIC CONDITIONS

Runoff for the 1986 water year was in the normal range at all 48 streamflow gaging stations reported by the Maine Office. There were no significant flood peaks at the Maine streamflow gaging stations during the 1986 water year. Most annual peaks occurred during a thaw in late January or during the spring snowmelt period. Recurrence intervals of annual peak discharges ranged from less than or equal to 2 years at 30 gaging stations, to 25 years at one station.

Precipitation, as reported by the National Weather Service, was below median at 14 of the 15 selected sites used to provide statewide coverage in Maine. At these 15 sites, total annual precipitation averaged 80 percent of median values. Eight sites had annual precipitation totals 10 inches or more below their long-term median values. Table 1 summarizes annual precipitation data at the 15 selected sites for the 1986 water year.

Annual runoff at the four index stations--St. John River, below Fish River at Fort Kent, Piscataquis River near Dover-Foxcroft, Little Androscoggin River near South Paris, and Saco River at West Buxton--ranged from 101 to 107 percent of median. The 1986 monthly and annual discharge, and median monthly and annual discharge for 1951-80 reference period for three of the index stations, are shown in Figure 2.

Table 1.--Precipitation at selected locations in Maine
for the 1986 water year.

Station Location	Actual Oct-Sep (Inches)	Median Oct-Sep (Inches)	Departure (Inches)	Percentage of median
Fort Kent	29.75	36.12	- 6.37	82.4
Caribou	28.58	36.59	- 8.01	78.1
Presque Isle	29.38	36.12	- 6.74	81.3
Houlton	26.12	37.20	-11.08	70.2
Brassau Dam	37.66	39.29	- 1.63	95.8
Jackman	41.47	37.08	4.39	111.8
Woodland	30.60	46.07	-15.47	66.4
Eastport	35.07	43.82	- 8.75	80.0
Middle Dam	30.81	36.39	- 5.58	84.7
Ellsworth	34.52	46.41	-11.89	74.4
Rumford Power Plant	32.94	43.84	-10.90	75.1
Waterville Pump Stn	29.50	41.44	-11.94	71.2
Gardiner	31.24	44.36	-13.12	70.4
Lewiston	35.09	45.76	-10.67	76.7
Portland	32.43	43.52	-11.09	74.5

WATER RESOURCES DATA FOR MAINE, 1986

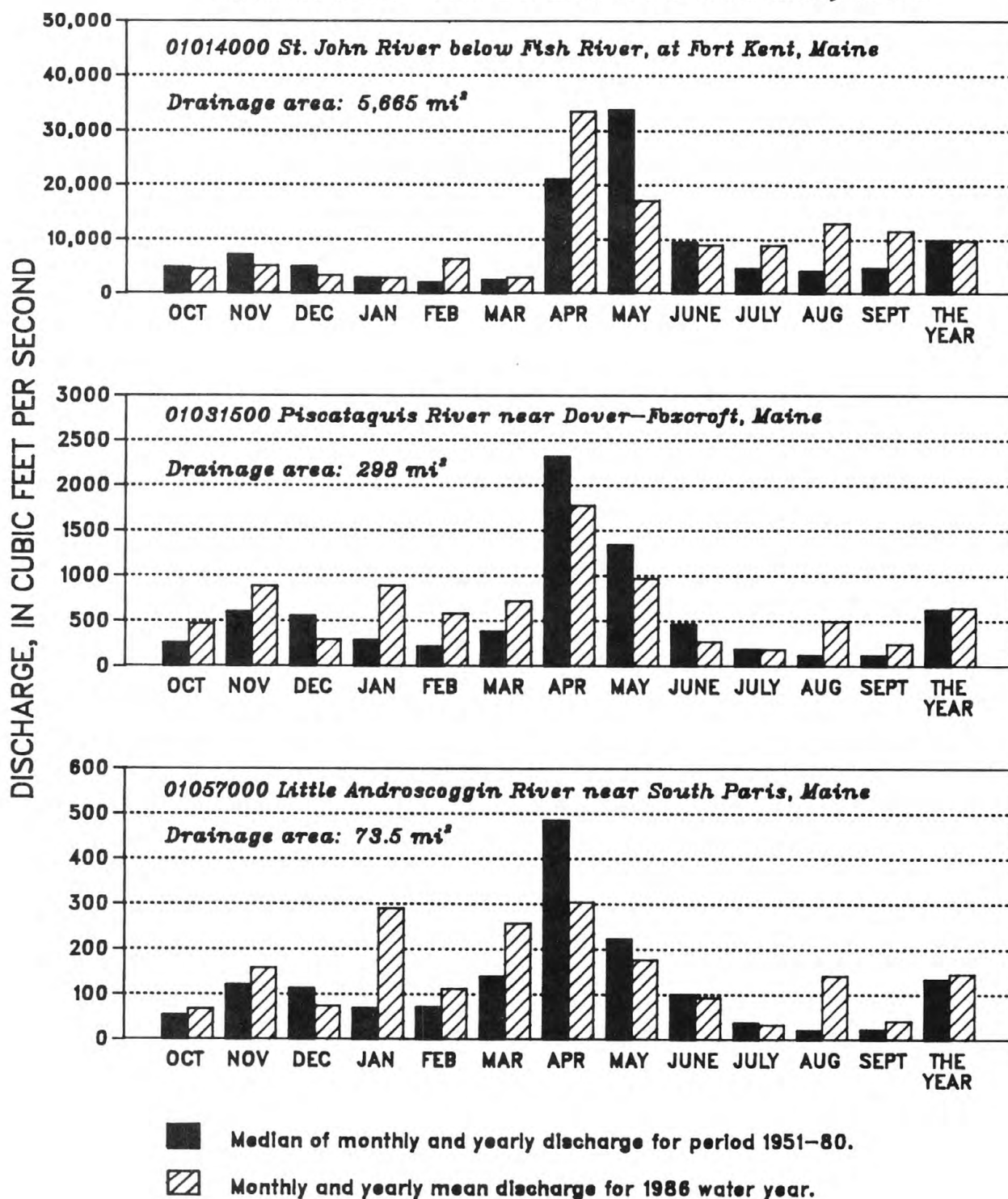


Figure 2.—Comparison of discharge at three long-term index gaging stations during 1986 water year with median discharge for period 1951-80.

WATER RESOURCES DATA - MAINE, 1986

Streamflow at the start of the water-year was in the below-normal range in northern, eastern, coastal, and southern Maine; in the above-normal range in central and western Maine; and normal in the intervening areas. During October, flows were in the normal range statewide, and remained normal during November and December, except for the southern part of Maine where flows were in the above-normal range in November. Flows were generally above normal during January, February, and March as a result of a thaw, and above normal precipitation in late January. This thaw and heavy precipitation produced the second highest January runoff in 84 years at the Piscataquis River site, the third highest January runoff in 66 years at the Little Androscoggin River site, and the third highest February runoff in 60 years at the St. John River site.

Runoff tended to be in the normal range during April, May, June and July except for below-normal flows in southwestern Maine in April and in northern and southern Maine in May; and above-normal flows in northern Maine in July. August and September exhibited above-normal flows throughout the State.

Usable surface-water storage in seven reservoir systems in Maine totaled 94,652 million ft³ at the beginning of the year, which was 53 percent of capacity and 90 percent of the long-term average. Usable storage decreased during October to the minimum for the year of 83,205 million ft³, which is 47 percent of the capacity and 87 percent of the long-term average. Storage increased during November, fell during December, and then rose sharply during January as a result of a thaw and heavy precipitation. Storage dropped during February and March, but remained above long-term averages. Storage increased by 63,319 million ft³ during April, and by 6,338 in May to reach the maximum for the year of 158,410 million ft³, which is 89 percent of capacity and 98 percent of the long-term average for the end of May. Storage then entered a period of steady seasonal decline during June, July, August, and September and closed the water year at 122,930 million ft³ which is 69 percent of capacity and 117 percent of the long-term end of year average.

Ground-water levels in Maine were below normal at the beginning of the water year, except in central, and extreme northern areas, where they were normal. During October through December, ground-water levels fluctuated between below-normal and normal. Water-levels in October and December were below normal, for most of the State, except for Central and extreme northern sections in October and southeastern, Aroostook and Penobscot River basins in December, which were normal. Ground-water levels for Bethel, Litchfield and Oxford recorded month-end lows for October. November water-levels were in the normal range state-wide except for extreme northern sections which were below normal. January water-levels varied, with normal ranges being reported in extreme northern, western, and eastern sections, and above normal water-levels reported in the Aroostook, Kennebec, and Penobscot River basins. In February, the ground-water levels for the entire State were in the normal range.

From March through July, ground-water levels in most of the State were in the normal range. However, levels were above normal during March in the area from the Upper Androscoggin River Basin southeast to the coast; in April southeastern Maine had water-levels in the above-normal range; from April through July the Upper Androscoggin River Basin had water levels in the below normal range; and, in July water levels were below normal along the eastern Maine border from Caribou to Machias. Ground-water levels during August were above normal statewide except

for southern and western regions which were normal. Record month-end highs were recorded at the following wells for the month of August; Portage, Clayton Lake, Acadia, Augusta, and Calais. September water levels were normal statewide except for central sections which were above normal.

Two wells were added to the observation well network during the 1986 water year. One well is located in Franklin County and the other in Washington County. Both wells are developed in sand and gravel aquifers and are part of the Climate Effects Network of the Maine Ground Water Program.

SPECIAL NETWORKS AND PROGRAMS

Hydrologic Bench-Mark Network is a network of 57 sites in small drainage basins around the country whose purpose is to provide consistent data on the hydrology, including water quality, and related factors in representative undeveloped watersheds nationwide, and to provide analyses on a continuing basis to compare and contrast conditions observed in basins more obviously affected by the activities of man.

National Stream Quality Accounting Network (NASQAN) is a nationwide data-collection network designed by the U.S. Geological Survey to meet many of the information needs of government agencies and other groups involved in natural or regional water-quality planning and management. The 500 or so sites in NASQAN are generally located at the downstream ends of hydrologic accounting units designated by the U.S. Geological Survey Office of Water Data Coordination in consultation with the Water Resources Council. The objectives of NASQAN are (1) to obtain information on the quality and quantity of water moving within and from the United States through a systematic and uniform process of data collection, summarization, analysis, and reporting such that the data may be used for, (2) description of the areal variability of water quality in the Nation's rivers through analysis of data from this and other programs, (3) detection of changes or trends with time in the pattern of occurrence of water-quality characteristics, and (4) providing a nationally consistent data base useful for water-quality assessment and hydrologic research.

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 THE RECORDS

The surface-water and ground-water records published in this report are for the 1986 water year that began October 1, 1985, and ended September 30, 1986. A calendar of the water year is provided on the inside of the front cover. The records contain streamflow data, stage and content data for lakes and reservoirs, water-quality data for surface and ground water, and ground-water level data. The locations of the stations and wells where the data were collected are shown in figure 1. The following sections of the introductory text are presented to provide users with a more detailed explanation of how the hydrologic data published in this report were collected, analyzed, computed, and arranged for presentation.

Station Identification Numbers

Each data station, whether streamsite or well, in this report is assigned a unique identification number. This number is unique in that it applies specifically to a given station and to no other. The number usually is assigned when a station is first established and is retained for that station indefinitely. The systems used by the U.S. Geological Survey to assign identification numbers for surface-water stations and for ground-water well sites differ, but both are based on geographic location. The "downstream order" system is used for regular surface-water stations and the "latitude-longitude" system is used for wells and for surface-water stations where only miscellaneous measurements are made.

Downstream Order System

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 mainstream station are listed before that station. A station on a tributary that enters between two mainstream 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 with respect to the stream to which it is immediately tributary is indicated by an indentation in the "List of Stations" in the front of this report. Each indentation represents one rank. This downstream order and system of indentation shows which stations are on tributaries between any two stations and the rank of the tributary on which each station is situated.

The station-identification number is assigned according to downstream order. In assigning station numbers, no distinction is 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 eight-digit number for each station, such as 01031500, which appears just to the left of the station name, includes the two-digit Part number "01" plus the six-digit downstream-order number "031500." The Part number designates the major river basins; for example, Part "01" is for the North Atlantic Slope basins.

Latitude-Longitude System

The identification numbers for wells and miscellaneous surface-water sites are assigned according to the grid system of latitude and longitude. The number consists of 15 digits. The first six digits denote the degrees, minutes, and seconds of latitude, the next seven digits denote degrees, minutes, and seconds of longitude, and the last two digits (assigned sequentially) identify the wells or other sites within a 1-second grid. This site-identification number, once assigned, is a pure number and has no locational significance. In the rare instance where the initial determination of latitude and longitude are found to be in error, the station will retain its initial identification number; however, its

true latitude and longitude will be listed in the LOCATION paragraph of the station description. (See figure 3 below.)

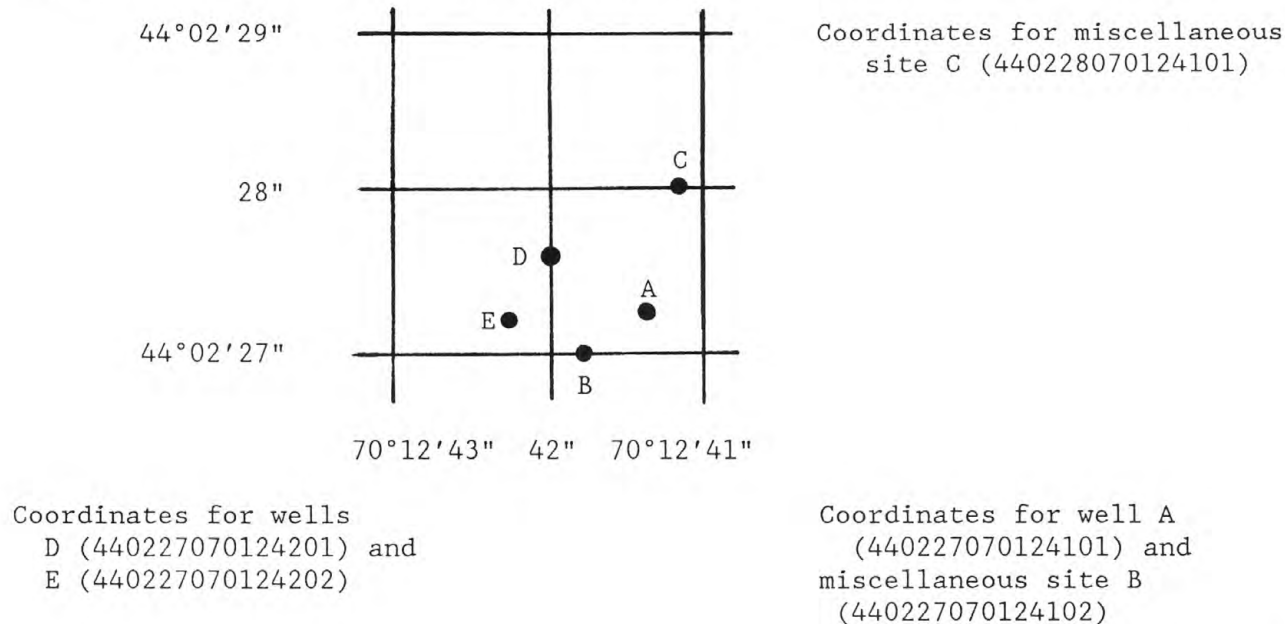


Figure 3.--System for numbering wells and miscellaneous sites (latitude and longitude).

Records of Stage and Water Discharge

Records of stage and water discharge may be complete or partial. Complete records of discharge are those obtained using a continuous stage-recording device through which either instantaneous or mean daily discharges may be computed for any time, or any period of time, during the period of record. Complete records of lake or reservoir content, similarly, are those for which stage or content may be computed or estimated with reasonable accuracy for any time, or period of time. They may be obtained using a continuous stage-recording device, but need not be. Because daily mean discharges and end-of-day contents commonly are published for such stations, they are referred to as "daily stations."

By contrast, partial records are obtained through discrete measurements without using a continuous stage-recording device and pertain only to a few flow characteristics, or perhaps only one. The nature of the partial record is indicated by table titles such as "Crest-stage partial records," or "Low-flow partial records." Records of miscellaneous discharge measurements or of measurements from special studies, such as low-flow seepage studies, may be considered as partial records, but they are presented separately in this report. Location of all complete-record stations for which data are given in this report are shown in figure 1.

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Data Collection and Computation

The data obtained at a complete-record gaging station on a stream or canal consist of a continuous record of stage, individual measurements of discharge throughout a range of stages, and notations regarding factors that may affect the relationships between stage and discharge. These data, together with supplemental information, such as weather records, are used to compute daily discharges. The data obtained at a complete-record gaging station on a lake or reservoir consist of a record of stage and of notations regarding factors that may affect the relationship between stage and lake content. These data are used with stage-area and stage-capacity curves or tables to compute water-surface areas and lake storage.

Continuous records of stage are obtained with analog recorders that trace continuous graphs of stage or with digital recorders that punch stage values on paper tapes at selected time intervals. Measurements of discharge are made with current meters using methods adopted by the Geological Survey as a result of experience accumulated since 1880. These methods are described in standard textbooks, in Water-Supply Paper 2175, and in U.S. Geological Survey Techniques of Water-Resources Investigations, Book 3, Chapter A6.

In computing discharge records, results of individual measurements are plotted against the corresponding stages, and stage-discharge relation curves are then constructed. From these curves, rating tables indicating the approximate discharge for any stage within the range of the measurements are prepared. If it is necessary to define extremes of discharge outside the range of the current-meter measurements, the curves are extended using: (1) logarithmic plotting; (2) velocity-area studies; (3) results of indirect measurements of peak discharge, such as slope-area or contracted-opening measurements, and computations of flow over dams or weirs; or (4) step-backwater techniques.

Daily mean discharges are computed by applying the stages (gage heights) to the stage-discharge curves or tables. If the stage-discharge relation is subject to change because of frequent or continual change in the physical features that form the control, the daily mean discharge is determined by the shifting-control method, in which correction factors based on the individual discharge measurements and notes of the personnel making the measurements are applied to the gage heights before the discharges are determined from the curves or tables. This shifting-control method also is used if the stage-discharge relation is changed temporarily because of aquatic growth or debris on the control. For some stations, formation of ice in the winter may so obscure the stage-discharge relations that daily mean discharges must be estimated from other information such as temperature and precipitation records, notes of observations, and records for other stations in the same or nearby basins for comparable periods.

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.

In computing records of lake or reservoir contents, it is necessary to have available from surveys, curves or tables which define the relationship between stage and content. The application of stage to the stage-content curves or tables gives the contents from which daily, monthly, or yearly changes then are determined. Periodic resurveys may be necessary to determine if the stage-content relationship changes because of deposition of sediment in a lake or reservoir. Even when this is done, the contents computed may become increasingly in error as the lapsed time since the last survey increases. Discharges over lake or reservoir spillways are computed from stage-discharge relationships much as other stream discharges are computed.

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 from the recorded range in stage, previous or following record, discharge measurements, weather records, and comparison with other station records from the same or nearby basins. Likewise, daily contents may be estimated from operator's logs, previous or following record, inflow-outflow studies, and other information. Information explaining how estimated daily-discharge values are identified in station records is included in the next two sections, "Data Presentation" (REMARKS paragraph) and "Identifying Estimated Daily Discharge."

Data Presentation

The records published for each gaging station consist of two parts, the manuscript or station description and the data table for the current water year. The manuscript provides, under various headings, descriptive information, such as station location; period of record; average discharge; historical extremes; record accuracy; and other remarks pertinent to station operation and regulation. The following information, as appropriate, is provided with each continuous record of discharge or lake content. Comments to follow clarify information presented under the various headings of the station description.

LOCATION.--Information on locations is obtained from the most accurate maps available. The location of the gage with respect to the cultural and physical features in the vicinity and with respect to the reference place mentioned in the station name is given. River mileages, given for only a few stations, were determined by methods given in "River Mileage Measurement," Bulletin 14, Revision of October 1968, prepared by the Water Resources Council.

DRAINAGE AREA.--Drainage areas are measured using the most accurate maps available. Because the type of maps available varies from one drainage basin to another, the accuracy of drainage areas likewise varies. Drainage areas are updated as better maps become available.

PERIOD OF RECORD.--This indicates the period for which there are published records for the station or for an equivalent station. An equivalent station is one that was in operation at a time that the present station was not, and whose location was such that records from it can reasonably be considered equivalent with records from the present station.

REVISED RECORDS.--Published records, because of new information, occasionally are found to be incorrect, and revisions are printed in later reports. Listed under this heading are all the reports in which revisions have been published for the station and the water years to which the revisions apply. If a revision did not include daily, monthly, or annual figures of discharge, that fact is noted 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 most recently revised figure was first published is given.

GAGE.--The type of gage in current use, the datum of the current gage referred to National Geodetic Vertical Datum of 1929 (see glossary), and a condensed history of the types, locations, and datums of previous gages are given under this heading.

REMARKS.--All periods of estimated daily-discharge record will either be identified by date in this paragraph of the station description for water-discharge stations or flagged in the daily-discharge table. (See next section, "Identifying Estimated Daily Discharge.") If a remarks statement is used to identify estimated record, the paragraph will begin with this information presented as the first entry. The paragraph is also used to present information relative to the accuracy of the records, to special methods of computation, to conditions that affect natural flow at the station and, possibly, to other pertinent items. For reservoir stations, information is given on the dam forming the reservoir, the capacity, and purpose and use of the reservoir.

COOPERATION.--Records provided by a cooperating organization or obtained for the Geological Survey by a cooperating organization are identified here.

AVERAGE DISCHARGE.--The discharge value given is the arithmetic mean of the water-year mean discharges. It is computed only for stations having at least 5 water years of complete record, and only water years of complete record are included in the computation. It is not computed for stations where diversions, storage, or other water-use practices cause the value to be meaningless. If water developments significantly altering flow at a station are put into use after the station has been in operation for a period of years, a new average is computed as soon as 5 water years of record have accumulated following the development. The median of yearly mean discharges also is given under this heading for stations having 10 or more water years of record, if the median differs from the average given by more than 10 percent.

EXTREMES FOR PERIOD OF RECORD.--Extremes may include maximum and minimum stages and maximum and minimum discharges or content. Unless otherwise qualified, the maximum discharge or content is the instantaneous maximum corresponding to the highest stage that occurred. The highest stage may have been obtained from a graphic or digital recorder, a crest-stage gage, or by direct observation of a nonrecording gage. If the maximum stage did not occur on the same day as the maximum discharge or content, it is given separately. Similarly, the minimum is the instantaneous minimum discharge, unless otherwise qualified, and was determined and is reported in the same manner as the maximum.

EXTREMES OUTSIDE PERIOD OF RECORD.--Included here is information concerning major floods or unusually low flows that occurred outside the stated period of record. The information may or may not have been obtained by the U.S. Geological Survey.

EXTREMES FOR CURRENT YEAR.--Extremes given here are similar to those for the period of record, except the peak discharge listing may include secondary peaks. For stations meeting certain criteria, all peak discharges and stages occurring during the water year and greater than a selected base discharge are presented under this heading. The peaks greater than the base discharge, excluding the highest one, are referred to as secondary peaks. Peak discharges are not published for canals, ditches, drains, or streams for which the peaks are subject to substantial control by man. The time of occurrence for peaks is expressed in 24-hour local standard time. For example, 12:30 a.m. is 0030, and 1:30 p.m. is 1330. The minimum for the current water year appears below the table of peak data.

REVISIONS.--If a critical error in published records is discovered, a revision is included in the first report published following discovery of the error.

Although rare, occasionally the records of a discontinued gaging station may need revision. Because, for these stations, there would be no current or, possibly, future station manuscript published to document the revision in a "Revised Records" entry, users of data for these stations who obtained the record from previously published data reports may wish to contact the offices whose addresses are given on the back of the title page of this report to determine if the published records were ever revised after the station was discontinued. Of course, if the data were obtained by computer retrieval, the data would be current and there would be no need to check because any published revision of data is always accompanied by revision of the corresponding data in computer storage.

Manuscript information for lake or reservoir stations differs from that for stream stations in the nature of the "Remarks" and in the inclusion of a skeleton stage-capacity table when daily contents are given.

The daily table for stream-gaging stations gives 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 is usually 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 or if the drainage area includes large noncontributing areas. In the yearly summary below the monthly summary, the figures shown are the appropriate discharges for the calendar and water years. At some stations monthly and (or) yearly observed discharges are adjusted for reservoir storage or diversion, or diversions or reservoir contents are given. These figures are identified by a symbol and corresponding footnote.

Data collected at partial-record and miscellaneous sites follow the information for continuous sites. This table summarizes discharge measurements made at sites other than continuous-record sites.

Identifying Estimated Daily Discharge

Estimated daily-discharge values published in the water-discharge tables of annual State data reports are identified either by flagging individual daily values with the letter symbol "e" and printing a table footnote, "e Estimated," or by listing the dates of the estimated record in the REMARKS paragraph of the station description.

Accuracy of the Records

The accuracy of streamflow records 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 measurements of stage, measurements of discharge, and interpretation of records.

The accuracy attributed to the records is indicated under "REMARKS." "Excellent" means that about 95 percent of the daily discharges are within 5 percent of their true values; "good," within 10 percent; and "fair," within 15 percent. Records that do not meet the criteria mentioned are rated "poor." Different accuracies may be attributed to different parts of a given record.

Daily mean discharges in this report are given to the nearest hundredth of a cubic foot per second for values less than 1 ft³/s; to the nearest tenth between 1.0 and 10 ft³/s; to whole numbers between 10 and 1,000 ft³/s; and to 3 significant figures for more than 1,000 ft³/s. The number of significant figures used is based solely on the magnitude of the discharge value. The same rounding rules apply to discharges listed for partial-record stations and miscellaneous sites.

Discharge at many stations, as indicated by the monthly mean, may not reflect natural runoff due to the effects of diversion, 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 Records Available

Information used in the preparation of the records in this publication, such as discharge-measurement notes, gage-height records, temperature measurements, and rating tables are on file in the Maine Office of the New England District. Also, most of the daily mean discharges are in computer-readable form and have been analyzed statistically. Information on the availability of the unpublished information or on the results of statistical analyses of the published records may be obtained from the Maine State office.

Records of Surface-Water Quality

Records of surface-water quality ordinarily are obtained at or near stream-gaging stations because interpretation of records of surface-water quality nearly always requires corresponding discharge data. Records of surface-water quality in this report may involve a variety of types of data and measurement frequencies.

Classification of records

Water-quality data for surface-water sites are grouped into one of three classifications. A continuing-record station is a site where data are collected on a regularly scheduled basis. Frequency may be once or more times daily, weekly, monthly, or quarterly. A partial-record station is a site where limited water-quality data are collected systematically over a period of years. Frequency of sampling is usually less than quarterly. A miscellaneous sampling site is a location other than a continuing or partial-record station where random samples are collected to give better areal coverage to define water-quality conditions in the river basin.

A careful distinction needs to be made between "continuing records" , as used in this report, and "continuous recordings," which refers to a continuous graph or a series of discrete values punched at short intervals on a paper tape. Some records of water quality, such as temperature and specific conductance, may be obtained through continuous recordings; however, because of costs, most data are obtained only monthly or less frequently. Locations of stations for which records on the quality of surface water appear in this report are shown in figure 1.

Arrangement of Records

Water-quality records collected at a surface-water daily record station are published immediately following that record, regardless of the frequency of sample collection. Station number and name are the same for both records. Where a surface-water daily record station is not available or where the water quality differs significantly from that at the nearby surface-water station, the continuing water-quality record is published with its own station number and name in the regular downstream-order sequence. Water-quality data for partial-record stations and for miscellaneous sampling sites appear in separate tables following the table of discharge measurements at miscellaneous sites.

On-site Measurements and Sample Collection

In obtaining water-quality data, a major concern is to assure that the data obtained represent the in-situ quality of the water. To do this, certain measurements, such as specific conductance, water temperature, pH, alkalinity, dissolved oxygen, and specific conductance need to be made onsite when the samples are taken. To assure that measurements made in the laboratory also represent the in-situ water, carefully prescribed procedures need to be followed in collecting the samples, in treating the samples to prevent changes in quality pending analysis, and in shipping the samples to the laboratory.

Procedures for onsite measurements and for collecting, treating, and shipping samples are given in publications on "Techniques of Water-Resources Investigations," (TWRI) Book 1, Chap. D2; Book 3, Chap. C2; Book 5, Chap. A1, A3, and A4. All of these references are listed under "PUBLICATIONS ON TECHNIQUES OF WATER-RESOURCES INVESTIGATIONS" which appears at the end of the introductory text. Also, detailed information on collecting, treating, and shipping samples may be obtained from the Maine Office, Geological Survey.

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. All samples obtained for the National Stream Quality Accounting Network (see definitions) are usually obtained from at least several verticals. Whether samples are obtained from the centroid of flow or from several verticals depends on flow conditions and other factors which must be evaluated by the collector.

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.

For stations equipped with continuous water-quality monitors, the records consist of daily maximum, minimum, and mean values for each constituent measured and are based upon observations. More detailed records (hourly values) may be obtained from the Maine Office, Geological Survey whose address is given on the back of the title page of this report.

Water temperature

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

At stations where recording instruments are used, both mean, maximum, and minimum temperatures for each day are published. Water temperatures measured at the time of water-discharge measurements are published with the miscellaneous temperature and specific conductance determinations.

Sediment

Suspended-sediment concentrations are determined from samples collected by using depth-integrating samplers.

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 and in predicting long-term sediment-discharge characteristics of the stream.

Records of the periodic measurements of the particle-size distribution of the suspended sediment are published in addition to the suspended discharge included for some stations.

Laboratory Measurements

Samples are analyzed locally for specific conductance, dissolved oxygen, pH, temperature, and alkalinity. All other samples were analyzed in the Geological Survey laboratories in Arvada, Colorado and Atlanta, Georgia. Methods used in analyzing sediment samples and computing sediment records are given in TWRI, Book 5, Chap. C1. Methods used by the Geological Survey laboratory are given in TWRI, Book 1, Chap. D2; Book 3, Chap. C2; Book 5, Chap. A1, A3, and A4.

Data Presentation

For continuing-record stations, information pertinent to the history of station operation is provided in descriptive headings preceeding the tabular data. These descriptive headings give details regarding location, drainage area, period of record, type of data available, instrumentation, general remarks, and extremes for parameters currently measured daily. Tables of chemical, physical, biological, radiochemical data, and so forth, obtained at a frequency less than daily are presented first. Tables of "daily values" of specific conductance, pH, water temperature, and dissolved oxygen follow in sequence.

In the descriptive headings, if the location is identical to that of the discharge gaging station, neither the LOCATION nor the DRAINAGE AREA statements are repeated. The following information, as appropriate, is provided with each continuous-record station. Comments that follow clarify information presented under the various headings of the station description.

LOCATION.--See Data Presentation under "Records of Stage and Water Discharge;" same comments apply.

DRAINAGE AREA.--See Data Presentation under "Records of Stage and Water Discharge;" same comments apply.

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PERIOD OF RECORD.--This indicates the periods for which there are published water-quality records for the station. The periods are shown separately for records of parameters measured daily or continuously and those measured less than daily. For those measured daily or continuously, periods of daily record are given for the parameters individually.

INSTRUMENTATION.--Information on instrumentation is given only if a water-quality monitor, or temperature recording device is in operation at a station.

REMARKS.--Remarks provide added information pertinent to the collection, analysis, or computation of the records.

EXTREMES.--Maximums and minimums are given only for parameters measured daily or more frequently. Extremes are provided for both the period of daily record and for the current water year. If a value from a miscellaneous measurement from outside the period of daily record has higher maximum or lower minimum, that value is reported in a descriptive heading for extremes outside the period of daily record.

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

The surface-water-quality records for miscellaneous sampling sites are published in separate tables following the table of discharge measurements at miscellaneous sites. No descriptive statements are given for these records. Each station is published with its own station number and name in the regular downstream-order sequence.

Remark Codes

The following remark codes may appear with the water-quality data in this report:

PRINTED OUTPUT	REMARK
E	Estimated value
>	Actual value is known to be greater than the value shown
<	Actual value is known to be less than the value shown
K	Results based on colony count outside the acceptance range (non-ideal colony count)

Records of Ground-Water Levels

Only water-level data from a national network of observation wells are given in this report. These data are intended to provide a sampling and historical record of water-level changes in the Nation's most important aquifers. Locations of the observation wells in this network in Maine are shown in figure 1.

Data Collection and Computation

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

Tables of water-level data are presented by counties arranged in alphabetical order. The primary identification number for a given well is the 15-digit number that appears in the upper left corner of the table. The secondary identification number is the local well number, an alphanumeric number, were wells which have been inventoried as numbered consecutively within each county.

Water-level records are obtained from direct measurements with a steel tape or from the graph or punched tape of a water-stage recorder. The 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 elevation of the land-surface datum 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 of 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 to a tenth of a foot or a larger unit.

Data Presentation

Each well record consists of two parts, the station description and the data table of water levels observed during the water year. The description of the well is presented first through use of descriptive headings preceding the tabular data. The comments to follow clarify information presented under the various headings.

LOCATION.--This paragraph follows the well-identification number and reports the latitude and longitude (given in degrees, minutes, and seconds); the hydrologic-unit number; the distance and direction from a geographic point of reference; and the owner's name.

AQUIFER.--This entry designates by name (if a name exists) and geologic age the aquifer(s) open to the well.

WELL CHARACTERISTICS.--This entry describes the well in terms of depth, diameter, casing depth and/or screened interval.

INSTRUMENTATION.--This paragraph provides information on both the frequency of measurement and the collection method used, allowing the user to better evaluate the reported water-level extremes by knowing whether they are based on weekly, monthly, or some other frequency of measurement.

DATUM.--This entry describes both the measuring point and the land-surface elevation at the well. The measuring point is described physically (such as top of collar, notch in top of casing, plug in pump base and so on), and in relation to land surface (such as 1.3 ft above land-surface datum). The elevation of the land-surface datum is described in feet above (or below) National Geodetic Vertical Datum of 1929 (NGVD of 1929); it is reported with a precision depending on the method of determination.

REMARKS.--This entry describes factors that may influence the water level in a well or the measurement of the water level. It should identify wells that also are water-quality observation wells, and may be used to acknowledge the assistance of local (non-Survey) observers.

REVISIONS.--This entry lists the reports in which revised water-level data have been published, each followed by the water years for which figures were revised.

PERIOD OF RECORD.--This entry indicates the period for which there are published records for the well. It reports the month and year of the start of publication of water-level records by the U.S. Geological Survey and the words "to current year" if the records are to be continued into the following year. Periods for which water-level records are available, but are not published by the Geological Survey, may be noted.

EXTREMES FOR PERIOD OF RECORD.--This entry contains the highest and lowest water levels of the period of published record, with respect to land-surface datum, and the dates of their occurrence.

A table of water levels follows the station description for each well. Water levels are reported in feet below land-surface datum and all taped measurements of water level are listed. For wells equipped with recorders, only abbreviated tables are published; generally, water-level mean values are listed for every fifth day and at the end of the month (eom). The highest and lowest water levels of the water year and their dates of occurrence are shown on a line below the abbreviated table. Because all values are not published for wells with recorders, the extremes may be values that are not listed in the table. Missing records are indicated by dashes in place of the water level.

Records of Ground-Water Quality

Records of ground-water quality in this report differ from other types of records in that, for most sampling sites, they consist of only one or two sets of measurements for the water year. The quality of ground water ordinarily changes only slowly; therefore, for most general purposes, one annual sampling, or only a few samples taken at infrequent intervals during the year, is sufficient. Frequent measurement of the same constituents is not necessary unless one is concerned with a particular problem, such as monitoring for trends in nitrate concentration.

Data Collection and Computation

The records of ground-water quality in this report were obtained to describe the quality of water in aquifers where the network wells are located. Consequently, chemical analyses are presented for some counties but none are presented for others. As a result, the records for this year, by them-selves, do not provide a balanced view of ground-water quality Statewide.

Most methods for collecting and analyzing water samples are described in the "U.S. Geological Survey Techniques of Water-Resources Investigations" manuals listed at the end of the introductory text. The values reported in this report represent water-quality conditions at the time of sampling as much as possible, consistent with available sampling techniques and methods of analysis. All samples were obtained by trained personnel. The wells sampled were pumped long enough to assure that the water collected came directly from the aquifer and had not stood for a long time in the well casing where it would have been exposed to the atmosphere and to the material, comprising the casings.

Data Presentation

The records of ground-water quality are published in a section titled QUALITY OF GROUND WATER immediately following the ground-water-level records. Data for quality of ground water are listed alphabetically by County, and are identified by well number. The prime identification number for wells sampled is the 15-digit number derived from the latitude-longitude locations. No descriptive statements are given for ground-water-quality records; however, the well number, depth of well, date of sampling, and other pertinent data are given in the table containing the chemical analyses of the ground water. The REMARK codes listed for surface-water-quality records are also applicable to ground-water-quality records.

ACCESS TO WATSTORE DATA

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

WATSTORE can provide a variety of useful products ranging from simple data tables to complex statistical analyses. A minimal fee, plus the actual computer cost incurred in producing a desired product, is charged to the requester. Information about the availability of specific types of data, the acquisition of data or products, and user charges can be obtained locally from the offices whose addresses are given on the back of the title page.

General inquiries about WATSTORE may be directed to:

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

DEFINITION OF TERMS

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

Acre-foot (AC-FT, acre-ft) is the quantity of water required to cover 1 acre to a depth of 1 foot and is equivalent to 43,560 cubic feet or about 326,000 gallons or 1,233 cubic meters.

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.

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

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

Fecal coliform bacteria are bacteria that are present in the intestine 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 that produce blue colonies within 24 hours when incubated at 44.5°C plus or minus 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 the intestine 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 plus or minus 1.0°C on KF-streptococcus medium (nutrient medium for bacterial growth). Their concentrations are expressed as number of colonies per 100 mL of sample.

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 or stage of the stream or to prevent the intrusion of salt water.

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

Cubic foot per second-day is the volume of water represented by a flow of 1 cubic foot per second for 24 hours. It is equivalent to 86,400 cubic feet, approximately 1.9835 acre-feet, about 646,000 gallons, or 2,445 cubic meters.

Cubic feet per second per square mile [$(\text{ft}^3/\text{s})/\text{mi}^2$] 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.

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

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

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

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

Dissolved-solids concentration of water is determined either analytically by the "residue-on-evaporation" method, or mathematically by totaling the concentrations of individual constituents reported in a comprehensive chemical analysis. During the analytical determination of dissolved solids, the bicarbonate (generally a major dissolved component of water) is converted to carbonate. Therefore, in the mathematical calculation of dissolved-solids concentration, the bicarbonate value, in milligrams per liter, is multiplied by 0.492 to reflect the change.

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

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 computed as the sum of equivalents of polyvalent cations and is expressed as the equivalent concentration of calcium carbonate (CaCO_3).

Hydrologic Bench-Mark Network is a network of 57 sites in small drainage basins around the country whose purpose is to provide consistent data on the hydrology, including water quality, and related factors in representative undeveloped watersheds nationwide, and to provide analyses on a continuing basis to compare and contrast conditions observed in basins more obviously affected by the activities of man.

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 eight-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 an arbitrary permanent reference point from which the distance to the water surface in a well is measured to obtain the water level.

Micrograms per liter (UG/L, $\mu\text{g/L}$) is a unit expressing the concentration of chemical constituents in solution as mass (micrograms) of 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 represents 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 dry sediment per liter of water-sediment mixture.

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

National Stream Quality Accounting Network (NASQAN) is a nationwide data-collection network designed by the U.S. Geological Survey to meet many of the information needs of government agencies and other groups involved in natural or regional water-quality planning and management. The 500 or so sites in NASQAN are generally located at the downstream ends of hydrologic accounting units designated by the U.S. Geological Survey Office of Water Data Coordination in consultation with the Water Resources Council. The objectives of NASQAN are (1) to obtain information on the quality and quantity of water moving within and from the United States through a systematic and uniform process of data collection, summarization, analysis, and reporting such that the data may be used for, (2) description of the areal variability of water quality in the Nation's rivers through analysis of data from this and other programs, (3) detection of changes or trends with time in the pattern of occurrence of water-quality characteristics, and (4) providing a nationally consistent data base useful for water-quality assessment and hydrologic research.

Parameter Code is a 5-digit number used in the U.S. Geological Survey computerized data system, WATSTORE, to uniquely identify a specific constituent. The codes used in WATSTORE are the same as those used in the U.S. Environmental Protection Agency data system, STORET. The Environmental Protection Agency assigns and approves all requests for new codes.

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 a particle determined by either sieve or sedimentation methods. Sedimentation methods (pipet, bottom-withdrawal tube, visual-accumulation tube) determine fall diameter of particles in either distilled water (chemically dispersed) or in native water (the river water at the time and point of sampling).

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

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

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

Percent composition is a unit for expressing 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.

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

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

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.

Return period is the average time interval between occurrences of a hydrological event of a given or greater magnitude, usually expressed in years. May also be called recurrence interval.

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

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

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

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

Suspended-sediment discharge (tons/day) is the rate at which dry mass of sediment passes a section of a stream or is the quantity of sediment, as measured by dry mass or volume, that passes a section in a given time. It is calculated in units of tons per day as follows: concentration (mg/L) x discharge (ft^3/s) x 0.0027.

Suspended-sediment load is a general term that refers to material in suspension. It is not synonymous with either discharge or concentration.

7-day 10-year low flow (7 Q 10) is the discharge at the 10-year recurrence interval taken from a frequency curve of annual values of the lowest mean discharge for 7 consecutive days (the 7-day low flow).

Sodium-adsorption-ratio (SAR) is the expression of relative activity of sodium ions in exchange reactions within 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 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 microsiemens 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 microsiemens). 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.

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.

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

Temperature is the degree of hotness or coldness measured on a defined scale.

Tons per day (T/DAY) is the quantity of a substance in solution or suspension that passes a stream section during a 24-hour period.

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

WATER RESOURCES DATA - MAINE, 1986

Water year in Geological Survey reports dealing with surface-water supply is the 12-month period October 1 through September 30. The water year is designated by the calendar year in which it ends, thus, the year ending September 30, 1986, is called the "1986 water year."

WDR is used as an abbreviation for "Water-Data Report" in the REVISED RECORDS paragraph to refer to State annual hydrologic-data reports (WRD was used as an abbreviation for "Water-Resources Data" in reports published prior to 1976).

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

The U.S. Geological Survey publishes a series of manuals describing procedures for planning and conducting 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) pertains to 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, Books and Open-File Reports Section, Federal Center, Box 25425, Denver, Colorado 80225 (authorized agent of the Superintendent of Documents, Government Printing Office). Prepayment is required. Remittance should be sent by check or money order payable to the U.S. Geological Survey. Prices are not included because they are subject to change. Current prices can be obtained by writing to the above address. When ordering or inquiring about prices for any of these publications, please give the title, book number, chapter number, and "U.S. Geological Survey Techniques of Water-Resources Investigations."

- 1-D1. *Water temperature--influential factors, field measurement, and data presentation*, by H. H. Stevens, Jr., J. F. Ficke, and G. F. Smoot: USGS--TWRI Book 1, Chapter D1. 1975. 65 pages.
- 1-D2. *Guidelines for collection and field analysis of ground-water samples for selected unstable constituents*, by W. W. Wood: USGS--TWRI Book 1, Chapter D2. 1976. 24 pages.
- 2-D1. *Application of surface geophysics to ground-water investigations*, by A. A. R. Zohdy, G. P. Eaton, and D. R. Mabey: USGS--TWRI Book 2, Chapter D1. 1974. 116 pages.
- 2-E1. *Application of borehole geophysics to water-resources investigations*, by W. S. Keys and L. M. MacCary: USGS--TWRI Book 2, Chapter E1. 1971. 126 pages.
- 3-A1. *General field and office procedures for indirect discharge measurements*, by M. A. Benson and Tate Dalrymple: USGS--TWRI Book 3, Chapter A1. 1967. 30 pages.
- 3-A2. *Measurement of peak discharge by the slope-area method*, by Tate Dalrymple and M. A. Benson: USGS--TWRI Book 3, Chapter A2. 1967. 12 pages.
- 3-A3. *Measurement of peak discharge at culverts by indirect methods*, by G. L. Bodhaine: USGS--TWRI Book 3, Chapter A3. 1968. 60 pages.
- 3-A4. *Measurement of peak discharge at width contractions by indirect methods*, by H. F. Matthai: USGS--TWRI Book 3, Chapter A4. 1967. 44 Pages.
- 3-A5. *Measurement of peak discharge at dams by indirect methods*, by Harry Hulsing: USGS--TWRI Book 3, Chapter A5. 1967. 29 pages.
- 3-A6. *General procedure for gaging streams*, by R. W. Carter and Jacob Davidian: USGS--TWRI Book 3, Chapter A6. 1968. 13 pages.
- 3-A7. *Stage measurements at gaging stations*, by T. J. Buchanan and W. P. Somers: USGS--TWRI Book 3, Chapter A7. 1968. 28 pages.
- 3-A8. *Discharge measurements at gaging stations*, by T. J. Buchanan and W. P. Somers: USGS--TWRI Book 3, Chapter A8. 1969. 65 pages.
- 3-A9. *Measurement of time of travel and dispersion in streams by dye tracing*, by E. F. Hubbard, F. A. Kilpatrick, L. A. Martens, and J. F. Wilson, Jr.: USGS--TWRI Book 3, Chapter A9. 1982. 44 pages.
- 3-A10. *Discharge ratings at gaging stations*, by E. J. Kennedy: USGS--TWRI Book 3, Chapter A10. 1984. 59 pages.
- 3-A11. *Measurement of discharge by moving-boat method*, by G. F. Smoot and C. E. Novak: USGS--TWRI Book 3, Chapter A11. 1969. 22 pages.
- 3-A13. *Computation of continuous records of streamflow*, by E. J. Kennedy: USGS--TWRI Book 3, Chapter A13. 1983. 53 pages.
- 3-A14. *Use of flumes in measuring discharge*, by F. A. Kilpatrick and V. R. Schneider: USGS--TWRI Book 3, Chapter A14. 1983. 46 pages.
- 3-A15. *Computation of water-surface profiles in open channels*, by Jacob Davidian: USGS--TWRI Book 3, Chapter A15. 1984. 48 pages.
- 3-B1. *Aquifer-test design, observation, and data analysis*, by R. W. Stallman: USGS--TWRI Book 3, Chapter B1. 1971. 26 pages.
- 3-B2. *Introduction to ground-water hydraulics, a programed text for self-instruction*, by G. D. Bennett: USGS--TWRI Book 3, Chapter B2. 1976. 172 pages.
- 3-B3. *Type curves for selected problems of flow to wells in confined aquifers*, by J. E. Reed: USGS--TWRI Book 3, Chapter B3. 1980. 106 pages.

- 3-C1. *Fluvial sediment concepts* by H. P. Guy: USGS--TWRI Book 3, Chapter C1. 1970. 55 pages.
- 3-C2. *Field methods for measurement of fluvial sediment* by H. P. Guy and V. W. Norman: USGS--TWRI Book 3, Chapter C2. 1970. 59 pages.
- 3-C3. *Computation of fluvial-sediment discharge*, by George Porterfield: USGS--TWRI Book 3, Chapter C3. 1972. 66 pages.
- 4-A1. *Some statistical tools in hydrology*, by H. C. Riggs: USGS--TWRI Book 4, Chapter A1. 1968. 39 pages.
- 4-A2. *Frequency curves*, by H. C. Riggs: USGS--TWRI Book 4, Chapter A2. 1968. 15 pages.
- 4-B1. *Low-flow investigations*, by H. C. Riggs: USGS--TWRI Book 4, Chapter B1. 1972. 18 pages.
- 4-B2. *Storage analyses for water supply*, by H. C. Riggs and C. H. Hardison: USGS--TWRI Book 4, Chapter B2. 1973. 20 pages.
- 4-B3. *Regional analyses of streamflow characteristics*, by H. C. Riggs: USGS--TWRI Book 4, Chapter B3. 1973. 15 pages.
- 4-D1. *Computation of rate and volume of stream depletion by wells* by C. T. Jenkins: USGS--TWRI Book 4, Chapter D1. 1970. 17 pages.
- 5-A1. *Methods for determination of inorganic substances in water and fluvial sediments* by M. W. Skougstad and others, editors: USGS--TWRI Book 5, Chapter A1. 1979. 626 pages.
- 5-A2. *Determination of minor elements in water by emission spectroscopy*, by P. R. Barnett and E. C. Mallory, Jr.: USGS--TWRI Book 5, Chapter A2. 1971. 31 pages.
- 5-A3. *Methods for analysis of organic substances in water*, by D. F. Goerlitz and Eugene Brown: USGS--TWRI Book 5, Chapter A3. 1972. 40 pages.
- 5-A4. *Methods for collection and analysis of aquatic biological and microbiological samples*, edited by P. E. Greeson, T. A. Ehlke, G. A. Irwin, B. W. Lium, and K. V. Slack: USGS--TWRI Book 5, Chapter A4. 1977. 332 pages.
- 5-A5. *Methods for determination of radioactive substances in water and fluvial sediments*, by L. L. Thatcher, V. J. Janzer, and K. W. Edwards: USGS--TWRI Book 5, Chapter A5. 1977. 95 pages.
- 5-A6. *Quality assurance practices for the chemical and biological analyses of water and fluvial sediments*, by L. C. Friedman and D. E. Erdmann: USGS--TWRI Book 5, Chapter A6. 1982. 181 pages.
- 5-C1. *Laboratory theory and methods for sediment analysis*, by H. P. Guy: USGS--TWRI Book 5, Chapter C1. 1969. 58 pages.
- 7-C1. *Finite difference model for aquifer simulation in two dimensions with results of numerical experiments*, by P. C. Trescott, G. F. Pinder, and S. P. Larson: USGS--TWRI Book 7, Chapter C1. 1976. 116 pages.
- 7-C2. *Computer model of two-dimensional solute transport and dispersion in ground water*, by L. F. Konikow and J. D. Bredehoeft: USGS--TWRI Book 7, Chapter C2. 1978. 90 pages.
- 7-C3. *A model for simulation of flow in singular and interconnected channels* by R. W. Schaffranek, R. A. Baltzer, and D. E. Goldberg: USGS--TWRI Book 7, Chapter C3. 1981. 110 pages.
- 8-A1. *Methods of measuring water levels in deep wells* by M. S. Garber and F. C. Koopman: USGS--TWRI Book 8, Chapter A1. 1968. 23 pages.
- 8-A2. *Installation and service manual for U.S. Geological Survey manometers* by J. D. Craig: USGS--TWRI Book 8, Chapter A2. 1983. 57 pages.
- 8-B2. *Calibration and maintenance of vertical-axis type current meters*, by G. F. Smoot and C. E. Novak: USGS--TWRI Book 8, Chapter B2. 1968. 15 pages.

01010000 ST. JOHN RIVER AT NINEMILE BRIDGE, ME

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

DRAINAGE AREA.--1,341 mi².

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

Water-quality records: Water years 1975 to 1981.

Specific conductance: April 1975 to September 1980.

Water temperatures: April 1975 to September 1980.

Suspended sediment discharge: October 1975 to September 1976.

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

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

REMARKS.--Estimated daily discharges: Nov. 29 to Apr. 4, Apr. 8 to June 16. Records good except for period of ice-effect, Nov. 29 to Apr. 4, and period of no gage-height record Apr. 8 to June 16, which are fair. Several observations of water temperature and specific conductance were made during the year.

AVERAGE DISCHARGE.--36 years, 2,365 ft³/s, 23.95 in/yr.

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

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 19,900 ft³/s, Apr. 4, gage height, 8.24 ft; maximum gage height, 8.90 ft, Apr. 3 (backwater from ice); minimum discharge not determined, occurred during period of ice effect; minimum daily, 405 ft³/s, Jan. 19.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1985 TO SEPTEMBER 1986
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1170	497	e1170	e530	e4050	e770	e6200	e8300	e4270	3110	1640	1580
2	936	475	e1200	e520	e4250	e740	e9900	e7700	e4010	2200	2480	1320
3	1030	461	e1260	e520	e4150	e730	e18500	e7000	e3820	1670	5900	1150
4	1100	450	e1390	e500	e3750	e710	e19300	e6100	e3510	1560	6290	1040
5	928	435	e1550	e490	e3550	e680	16900	e5550	e3190	1630	5590	937
6	1320	495	e1810	e490	e3300	e670	12900	e5000	e2910	1900	3680	961
7	2590	1660	e1890	e480	e2900	e660	9920	e4690	e2640	6210	2660	1140
8	2390	3740	e1740	e465	e2600	e650	e9290	e4500	e2530	13000	2850	976
9	1830	3400	e1560	e460	e2380	e630	e6980	e5050	e2700	10800	3880	842
10	1460	2700	e1440	e450	e2160	e610	e6150	e5600	e2880	6950	5850	748
11	1490	2240	e1340	e440	e2000	e600	e6180	e4960	e2800	4350	4990	799
12	1720	1830	e1220	e440	e1850	e580	e6400	e4360	e2510	2910	5330	5940
13	1530	1510	e1150	e435	e1730	e570	e6900	e3820	e2120	2220	3910	13700
14	1270	1790	e1100	e430	e1620	e560	e7400	e3440	e1700	1870	2790	10700
15	1150	2150	e1040	e425	e1520	e550	e8000	e3140	e1450	2970	2110	6910
16	1820	1800	e980	e420	e1440	e590	e8900	e2890	e890	3650	1780	4400
17	2750	1530	e920	e415	e1440	e650	e8900	e2700	916	2920	2230	3070
18	2390	1570	e890	e410	e1300	e630	e10500	e2570	1760	3000	2200	2400
19	1920	1570	e820	e405	e1200	e620	e11400	e2530	1640	4130	1730	1980
20	1570	1680	e790	e420	e1130	e655	e11400	e2630	1180	3130	1490	1690
21	1300	3000	e760	e445	e1110	e685	e11200	e3060	855	2260	1330	1430
22	1090	3800	e730	e470	e1050	e725	e12800	e4330	658	1770	1200	1240
23	937	3110	e700	e920	e1010	e760	e14200	e5310	549	1390	1360	1170
24	831	2540	e660	e890	e960	e790	e13000	e7930	592	1090	2540	2690
25	763	2170	e630	e940	e930	e840	e11600	e13000	3120	868	5960	4040
26	819	1450	e620	e1150	e890	e890	e11100	e11400	5550	858	5910	3500
27	851	1310	e600	e1520	e845	e1010	e11000	e8630	3810	2170	4310	2730
28	774	1230	e590	e1920	e800	e1460	e10800	e6920	4900	1860	3560	2180
29	687	e1170	e570	e2400	---	e1940	e10200	e5970	5780	1420	2910	1810
30	610	e1140	e550	e3100	---	e2370	e9300	e5280	4410	1120	2280	2090
31	550	---	e540	e3800	---	e4300	---	e4740	---	1040	1860	---
TOTAL	41576	52903	32210	26700	55915	28625	317220	169100	79650	96026	102600	85163
MEAN	1341	1763	1039	861	1997	923	10570	5455	2655	3098	3310	2839
MAX	2750	3800	1890	3800	4250	4300	19300	13000	5780	13000	6290	13700
MIN	550	435	540	405	800	550	6150	2530	549	858	1200	748
CFSM	1.00	1.32	.77	.64	1.49	.69	7.89	4.07	1.98	2.31	2.47	2.12
IN.	1.15	1.47	.89	.74	1.55	.79	8.80	4.69	2.21	2.66	2.85	2.36

CAL YR 1985 TOTAL 669813 MEAN 1835 MAX 24000 MIN 112 CFSM 1.37 IN. 18.6
WTR YR 1986 TOTAL 1087690 MEAN 2980 MAX 19300 MIN 405 CFSM 2.22 IN. 30.2

e Estimated

01010070 BIG BLACK RIVER NEAR DEPOT MOUNTAIN, ME

LOCATION.--Lat46°53'38", long 69°45'08", Aroostook County, Hydrologic Unit 01010001, on left bank at the Six Mile Landing Road Bridge, 4 mi northeast of Depot Mountain, 26.8 mi upstream from mouth.

DRAINAGE AREA.--171 mi².

PERIOD OF RECORD.--October 1983 to current year.

GAGE.--Water-stage recorder. Elevation of gage is 775 ft above National Geodetic Datum of 1929, from topographic map.

REMARKS.--Estimated daily discharges: Oct. 1-3, and Nov. 25 to Apr. 2. Records good except for period of ice effect, Nov. 25 to Apr. 2, periods of no or doubtful gage-height record, Dec. 19-21, 25, 26, and Jan. 4 to Feb. 19, which are fair, and period of no gage-height record, Oct. 1-3, which is poor.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 4,190 ft³/s Apr. 2, 1986; maximum gage height, 14.17 ft, Apr. 2, 1986 (backwater from ice); minimum daily discharge, 7.4 ft³/s, Sep. 24, 1985.

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

Date	Time	Discharge (ft ³ /s)	Gage height (ft)	Date	Time	Discharge (ft ³ /s)	Gage height (ft)
Apr. 2	---	a*4,190	b*14.17	May 5	1830	3,100	10.85
		a estimated					
		b ice jam					

Minimum discharge not determined, occurred during period of ice effect; minimum daily, 3.4 ft³/s, Jan. 17-19.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1985 TO SEPTEMBER 1986
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	e95	61	e110	e47	e390	e52	e3350	534	261	261	334	170
2	e90	63	e120	e46	e490	e51	e4050	493	285	173	478	139
3	e260	62	e135	e45	e330	e49	3580	453	258	133	671	126
4	238	60	e250	e45	e285	e48	2720	370	204	140	843	118
5	180	59	e220	e44	e250	e49	1790	320	174	176	699	110
6	666	105	e190	e43	e220	e50	1280	319	155	205	368	210
7	729	502	e160	e42	e200	e50	975	354	129	633	468	272
8	466	595	e145	e41	e180	e50	747	681	184	812	726	198
9	274	429	e130	e41	e165	e50	637	690	323	515	700	143
10	205	294	e120	e39	e150	e50	539	492	257	282	548	111
11	222	221	e110	e38	e140	e51	475	376	167	180	464	149
12	225	211	e105	e37	e135	e51	522	317	117	128	592	1120
13	182	156	e100	e37	e120	e51	762	270	95	103	414	1680
14	149	152	e96	e36	e110	e52	865	234	93	163	257	1150
15	143	149	e91	e35	e100	e53	946	206	96	590	174	624
16	246	206	e87	e35	e91	e55	1130	187	79	537	420	387
17	264	214	e83	e34	e83	e57	1340	179	321	328	773	272
18	205	206	e79	e34	e78	e61	1460	183	450	496	578	213
19	162	193	e75	e34	e82	e64	1400	235	273	600	357	178
20	133	273	e71	e35	e69	e68	1300	375	164	381	242	155
21	112	716	e68	e43	e64	e71	1380	788	109	245	177	138
22	97	629	e66	e52	e61	e76	1580	957	82	208	142	125
23	87	416	e63	e72	e59	e82	1270	1200	71	147	117	153
24	82	293	e61	e79	e58	e93	904	2800	173	107	928	443
25	84	e255	e59	e80	e56	e120	813	2510	1040	84	1900	569
26	99	e215	e57	e105	e55	e140	824	1320	1010	76	1500	502
27	105	e185	e54	e135	e54	e195	825	739	627	90	822	347
28	95	e150	e53	e160	e52	e305	773	516	699	94	533	248
29	84	e130	e52	e200	---	e470	696	414	613	78	368	195
30	74	e110	e50	e260	---	e1000	620	402	401	77	268	676
31	67	---	e48	e325	---	e2180	---	321	---	113	212	---
TOTAL	6120	7310	3108	2299	4127	5794	39553	19235	8910	8155	17073	10921
MEAN	197	244	100	74.2	147	187	1318	620	297	263	551	364
MAX	729	716	250	325	490	2180	4050	2800	1040	812	1900	1680
MIN	67	59	48	34	52	48	475	179	71	76	117	110
CFSM	1.15	1.42	.59	.43	.86	1.09	7.71	3.63	1.74	1.54	3.22	2.13
IN.	1.33	1.59	.68	.50	.90	1.26	8.60	4.18	1.94	1.77	3.71	2.38

CAL YR 1985 TOTAL 62409 MEAN 171 MAX 2340 MIN 7.4 CFSM 1.00 IN. 13.6
WTR YR 1986 TOTAL 132605 MEAN 363 MAX 4050 MIN 34 CFSM 2.12 IN. 28.8

e Estimated

01010500 ST. JOHN RIVER AT DICKEY, ME

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

DRAINAGE AREA.--2,680 mi².

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

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

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

REMARKS.--Estimated daily discharges: Nov. 12-17, 23-27, Dec. 1 to Apr. 7, and Sep. 13-16. Records good except for periods of ice effect, Dec. 1 to Apr. 2, and periods of no or doubtful gage-height record, Nov. 12-17, 23-27, Apr. 3-7 and Sep. 13-16. Several observations of water temperature and specific conductance were made during the year.

AVERAGE DISCHARGE.--39 years (water years 1947 to current year), 4,812 ft³/s, 24.41 in/yr.

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

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 27,000 ft³/s and maximum (*):

Date	Time	Discharge (ft ³ /s)	Gage height (ft)	Date	Time	Discharge (ft ³ /s)	Gage height (ft)
Apr. 1	1415	(ice jam)	*19.57	May 25	0930	29,500	11.52
Apr. 4	unknown	a*36,800	unknown				

a estimated

Minimum discharge not determined, occurred during period of ice effect; minimum daily, 610 ft³/s, Jan. 18.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1985 TO SEPTEMBER 1986
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	3440	1130	e1700	e750	e7000	e1120	e9800	12000	5170	6920	2680	3740
2	2470	1130	e1900	e750	e7300	e1070	e18000	10300	5120	4540	4500	3130
3	2700	1080	e2100	e740	e7000	e1050	e31000	9260	4850	3360	7850	2720
4	2820	943	e2300	e730	e6200	e1000	e34000	7920	4250	3150	12200	2410
5	2600	900	e2600	e720	e5600	e970	e30000	6630	3650	3470	12200	2180
6	2860	903	e2950	e720	e5200	e940	e23000	5970	3190	3740	9180	2200
7	5310	1390	e2800	e700	e4700	e910	e18000	5690	2820	5080	6150	2630
8	5810	4910	e2550	e680	e4250	e900	15700	6220	2650	16700	6000	2790
9	4990	6580	e2400	e670	e3900	e880	12500	9350	3210	16400	6710	2390
10	3520	6580	e2200	e660	e3500	e850	10600	9250	4450	11700	8370	2010
11	2830	5430	e2150	e660	e3200	e830	9260	7470	4560	7520	8240	1850
12	2730	e4700	e1900	e650	e2900	e820	8620	6210	3570	5250	8350	3910
13	2830	e3900	e1800	e640	e2700	e820	8620	5450	2770	3920	7780	e15000
14	2830	e3200	e1700	e640	e2400	e800	9370	4720	2380	3290	5770	e14000
15	2830	e2900	e1580	e640	e2300	e760	10900	4120	2160	4120	4300	e10500
16	2830	e2700	e1500	e620	e2150	e760	12800	3620	2050	6860	4070	e8640
17	3490	e2600	e1400	e620	e2000	e760	15800	3310	2050	6200	6440	6510
18	4280	2490	e1300	e610	e1900	e770	19300	3140	3020	5250	6510	5100
19	4150	2340	e1220	e620	e1800	e780	20800	3180	3820	6460	5500	4210
20	3630	2420	e1180	e980	e1700	e800	20600	3660	3100	6460	4150	3570
21	3080	3250	e1100	e1200	e1600	e850	20900	5330	2300	5010	3280	3050
22	2210	6360	e1050	e1350	e1500	e900	24400	9150	1790	4090	2840	2660
23	1940	e5750	e1000	e1450	e1420	e960	25200	10800	1450	3220	2480	2470
24	1930	e4700	e980	e1450	e1370	e1040	20300	20300	1370	2540	4370	3370
25	1890	e3700	e930	e1500	e1300	e1130	17200	28600	3790	2070	14900	6830
26	1430	e2700	e900	e1700	e1260	e1250	17200	21500	10600	1750	16800	7750
27	1450	e2000	e870	e2000	e1200	e1400	18100	14100	9300	1680	12400	6270
28	1520	1780	e840	e2900	e1180	e1900	17800	10100	7050	2990	8480	4920
29	1480	1740	e830	e3700	---	e2400	16200	7970	9650	2600	6890	3930
30	1340	1710	e800	e5500	---	e3700	13900	6840	9980	2110	5590	4820
31	1220	---	e760	e6200	---	e5600	---	5900	---	1910	4520	---
TOTAL	88440	91916	49290	42750	88530	38720	529870	268060	126120	160360	219500	145560
MEAN	2853	3064	1590	1379	3162	1249	17660	8647	4204	5173	7081	4852
MAX	5810	6580	2950	6200	7300	5600	34000	28600	10600	16700	16800	15000
MIN	1220	900	760	610	1180	760	8620	3140	1370	1680	2480	1850
CFSM	1.06	1.14	.59	.51	1.18	.47	6.59	3.23	1.57	1.93	2.64	1.81
IN.	1.23	1.28	.68	.59	1.23	.54	7.35	3.72	1.75	2.23	3.05	2.02

CAL YR 1985 TOTAL 1338400 MEAN 3667 MAX 49300 MIN 242 CFSM 1.37 IN. 18.6

WTR YR 1986 TOTAL 1849120 MEAN 5066 MAX 34000 MIN 610 CFSM 1.89 IN. 25.7

e Estimated

01011000 ALLAGASH RIVER NEAR ALLAGASH, ME

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

DRAINAGE AREA.--1,229 mi², not including 249 mi² drained by Chamberlain Lake through Telos Canal.

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

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

Specific conductance: April 1975 to September 1980.

Water temperatures: April 1975 to September 1980.

Suspended sediment discharge: October 1975 to September 1976.

REVISED RECORDS.--WSP 1231: 1911. WDR ME-82-1: Drainage area.

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

REMARKS.--Estimated daily discharges: Nov. 22 to Apr. 2. Records excellent except those for period of ice effect, Nov. 22 to Apr. 2, which are fair. Some regulation for recreational purposes since May 1969 by Churchill Lake, usable capacity, about 3.4 billion ft³, 58 mi upstream. Several observations of water temperature and specific conductance were made during the year.

AVERAGE DISCHARGE.--55 years (water years 1932 to current year), 1,947 ft³/s, 21.51 in/yr.

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

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 10,600 ft³/s, Apr. 3, gage height, 7.69 ft; maximum gage height, 10.47 ft, Apr. 1 (backwater from ice); minimum discharge not determined, occurred during period of ice effect; minimum daily, 330 ft³/s, Jan. 16-18.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1985 TO SEPTEMBER 1986
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	990	357	e690	e400	e2700	e610	e4820	4330	3730	1910	1580	2700
2	946	351	e740	e390	e2900	e580	e6550	4020	3620	1670	2140	2480
3	1020	342	e810	e385	e2650	e560	9540	3700	3260	1500	3180	2370
4	893	338	e870	e380	e2500	e540	9200	3290	2870	1440	2890	2310
5	761	332	e990	e370	e2250	e530	7490	2990	2610	1490	2430	2300
6	826	389	e1180	e370	e2050	e505	6490	2810	2380	1520	1980	2250
7	1070	1190	e1080	e365	e1900	e490	5920	2670	2140	2340	1940	2210
8	977	1780	e970	e360	e1750	e480	5280	2910	2200	3250	2020	2120
9	863	1410	e880	e355	e1620	e475	4780	3230	2570	2620	2200	2020
10	780	1220	e780	e345	e1500	e460	4470	3050	2400	2170	2470	1930
11	763	1090	e700	e340	e1380	e450	4210	2810	2160	1840	2420	1920
12	761	927	e670	e340	e1280	e440	4300	2590	1900	1620	2400	3350
13	696	934	e640	e340	e1220	e440	4790	2370	1750	1470	2140	6170
14	647	914	e620	e340	e1130	e435	4990	2190	1660	1420	1900	5470
15	627	868	e600	e335	e1090	e430	5080	2050	1540	1740	1710	4440
16	753	721	e590	e330	e1020	e440	5260	1920	1430	2250	1880	3640
17	882	790	e570	e330	e980	e455	5630	1840	1530	2130	2650	3130
18	812	850	e550	e330	e940	e480	6100	1790	1500	1990	2440	2800
19	766	844	e540	e350	e900	e500	6210	1820	1350	1860	2100	2540
20	701	826	e530	e400	e850	e520	6070	1880	1230	1680	1850	2330
21	620	1150	e510	e530	e820	e525	6110	2170	1120	1520	1690	2150
22	575	e1050	e500	e630	e790	e540	7340	2570	1050	1330	2290	1970
23	542	e940	e485	e700	e740	e560	7530	3070	1000	1220	2570	1950
24	510	e830	e470	e660	e710	e590	6470	7550	1040	1120	3370	2500
25	504	e750	e460	e720	e680	e630	6020	9040	3110	1050	5670	2840
26	494	e700	e450	e800	e660	e725	5920	7760	3900	1030	5620	2810
27	462	e650	e440	e940	e650	e835	5920	6490	2930	1250	4790	2540
28	439	e600	e430	e1150	e620	e1000	5650	5780	2790	1280	4180	2300
29	406	e570	e420	e1450	---	e1350	5220	5110	2630	1160	3700	2120
30	371	e620	e415	e1750	---	e1950	4790	4550	2240	1070	3280	2980
31	365	---	e405	e2200	---	e3600	---	4090	---	1090	2950	---
TOTAL	21822	24333	19985	18685	38280	22125	178150	112440	65640	51030	84430	82640
MEAN	704	811	645	603	1367	714	5938	3627	2188	1646	2724	2755
MAX	1070	1780	1180	2200	2900	3600	9540	9040	3900	3250	5670	6170
MIN	365	332	405	330	620	430	4210	1790	1000	1030	1580	1920
CFSM	.57	.66	.52	.49	1.11	.58	4.83	2.95	1.78	1.34	2.22	2.24
IN.	.66	.74	.60	.57	1.16	.67	5.39	3.40	1.99	1.54	2.56	2.50

CAL YR 1985 TOTAL 464711 MEAN 1273 MAX 12800 MIN 250 CFSM 1.04 IN. 14.1
WTR YR 1986 TOTAL 719560 MEAN 1971 MAX 9540 MIN 330 CFSM 1.60 IN. 21.8

e Estimated

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

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

DRAINAGE AREA.--524 mi².

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

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

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

REMARKS.--Estimated daily discharges: Dec. 23-29, Jan. 3-4, and Jul. 9-13. Records good except for period of no gage-height record Dec. 23-29, Jan. 3-4, and Jul. 9-13, which are fair.

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

AVERAGE DISCHARGE.--35 years, 898 ft³/s, 23.27 in/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 15,000 ft³/s, Apr. 30, 1979, gage height, 15.39 ft; minimum, 58 ft³/2, Oct. 12, 1978.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 4,310 ft³/s Apr. 24, gage height, 8.00 ft; minimum daily, 158 ft³/s Jan. 18.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1985 TO SEPTEMBER 1986
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	236	252	408	207	728	288	1010	3060	1280	963	594	1380
2	273	249	401	205	823	286	1670	2820	1170	895	642	1230
3	303	242	392	e205	903	285	2660	2550	1080	835	749	1090
4	323	238	409	e203	939	279	3770	2300	992	810	883	983
5	345	231	417	202	941	269	4220	2060	919	826	951	906
6	381	236	421	201	935	264	3980	1860	857	866	965	833
7	406	257	420	197	893	270	3590	1680	785	914	950	792
8	449	298	409	189	839	270	3220	1570	744	943	911	779
9	484	371	393	182	777	263	2830	1470	721	e915	864	733
10	492	471	390	181	734	252	2510	1370	699	e869	821	714
11	483	525	368	180	670	269	2240	1270	697	e830	790	694
12	454	536	357	174	632	262	2040	1190	665	e805	764	736
13	440	543	344	168	591	257	1940	1110	626	e773	714	860
14	417	521	342	168	555	242	1970	1020	601	738	679	1150
15	399	497	326	166	521	235	2080	963	568	707	634	1420
16	386	466	317	165	499	236	2260	910	530	724	654	1470
17	375	442	312	162	471	233	2510	864	520	752	694	1380
18	370	417	297	158	441	224	2820	820	557	870	681	1250
19	374	410	284	159	409	218	3140	799	662	968	666	1130
20	375	398	273	168	382	229	3360	781	725	1040	606	1020
21	362	415	268	189	368	228	3560	846	728	1080	579	938
22	343	447	262	195	360	232	3890	1130	690	1060	554	857
23	330	498	e255	204	337	234	4150	1660	643	1030	511	794
24	329	536	e254	207	317	246	4270	2080	624	982	582	797
25	327	560	e245	213	299	253	4110	2270	690	917	859	841
26	304	543	e240	232	291	268	3890	2250	754	833	1480	870
27	287	511	e235	271	293	289	3730	2060	864	773	1980	889
28	287	495	e230	329	291	323	3660	1890	954	710	2100	882
29	276	468	e225	400	---	368	3530	1720	983	661	1940	843
30	264	439	216	504	---	463	3330	1530	987	605	1730	858
31	259	---	211	620	---	639	---	1400	---	584	1540	---
TOTAL	11133	12512	9921	7004	16239	8674	91940	49303	23315	26278	29067	29119
MEAN	359	417	320	226	580	280	3065	1590	777	848	938	971
MAX	492	560	421	620	941	639	4270	3060	1280	1080	2100	1470
MIN	236	231	211	158	291	218	1010	781	520	584	511	694
CFSM	.69	.80	.61	.43	1.11	.53	5.85	3.04	1.48	1.62	1.79	1.85
IN.	.79	.89	.70	.50	1.15	.62	6.53	3.50	1.66	1.87	2.06	2.07

CAL YR 1985 TOTAL 249748 MEAN 684 MAX 5940 MIN 112 CFSM 1.31 IN. 17.7
WTR YR 1986 TOTAL 314505 MEAN 862 MAX 4270 MIN 158 CFSM 1.64 IN. 22.3

e Estimated

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 upstream from highway bridge at Fort Kent Mills, 2 mi upstream from mouth, and 2 mi south of Fort Kent.

DRAINAGE AREA.--873 mi².

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

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

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

REMARKS.--Estimated daily discharges: Oct. 1-8, Dec. 3-8, Dec. 16 to Feb. 7, Feb. 25 to Mar. 12, Mar. 20-23, and Mar. 25. Records good except for periods of ice effect, Dec. 3-8, Dec. 16 to Feb. 7, Feb. 25 to Mar. 12, Mar. 20-23, and Mar. 25, and period of once-a-day telemark readings, Oct. 1-8, and Dec. 16, 17, which are fair. Several observations of water temperature and specific conductance were made during the year.

AVERAGE DISCHARGE.--62 years (water years 1904-08, 1930-current year), 1,418 ft³/s, (22.06 in/yr).

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

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 6,020 ft³/s, Apr. 26, gage height, 7.13 ft; minimum discharge, 256 ft³/s, Nov. 4, gage height 2.56 ft.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1985 TO SEPTEMBER 1986
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	e380	267	813	e390	e2500	e765	1670	5060	2720	993	764	2600
2	e400	264	849	e380	e2450	e725	2260	4820	2620	966	880	2450
3	e405	261	e845	e370	e2400	e690	2880	4520	2490	917	954	2320
4	e395	256	e830	e360	e2350	e645	3330	4240	2380	885	968	2180
5	e390	256	e840	e350	e2300	e610	3650	3980	2210	888	957	2040
6	e400	270	e785	e340	e2200	e570	3860	3710	2060	852	943	1940
7	e410	478	e765	e330	e2130	e535	4030	3490	1920	850	939	1810
8	e400	639	e740	e325	2060	e525	4100	3270	1870	827	992	1710
9	397	697	713	e315	1990	e515	4050	3070	1740	784	1110	1590
10	391	774	698	e310	1920	e505	3940	2890	1670	735	1240	1480
11	393	823	682	e300	1830	e500	3800	2710	1570	700	1380	1430
12	384	865	663	e295	1750	e495	3780	2540	1470	674	1440	1690
13	378	923	642	e285	1670	495	3850	2380	1400	648	1440	1910
14	378	945	644	e280	1600	490	3880	2240	1290	662	1410	1850
15	378	952	611	e275	1510	490	3910	2080	1200	802	1370	1820
16	395	955	e600	e265	1430	510	4000	1940	1130	822	1450	1750
17	382	970	e595	e260	1380	550	4180	1830	1080	791	1520	1670
18	381	979	e570	e255	1280	567	4420	1730	1000	841	1510	1610
19	376	979	e565	e250	1210	574	4630	1640	946	827	1510	1530
20	356	1010	e540	e350	1150	e585	4820	1610	879	815	1520	1440
21	353	1030	e520	e400	1100	e585	5010	1700	831	777	1510	1370
22	348	1030	e510	e450	1070	e580	5540	1770	787	761	1540	1290
23	341	1050	e490	e440	1030	e560	5880	1840	747	718	1540	1300
24	338	1040	e480	e445	986	524	5910	2150	741	698	2030	1410
25	340	1000	e470	e500	e920	e515	5930	2530	1230	670	2570	1540
26	321	973	e450	e630	e870	528	5970	2780	1100	639	2850	1520
27	321	951	e440	e800	e830	674	6010	2910	1070	626	3010	1480
28	311	912	e430	e1000	e800	699	5900	2960	1120	599	3030	1460
29	289	863	e420	e1290	---	779	5650	2980	1080	567	2950	1430
30	288	832	e410	e1730	---	974	5370	2920	1040	548	2850	1700
31	280	---	e400	e2230	---	1330	---	2810	---	572	2720	---
TOTAL	11299	23244	19010	16200	44716	19089	132210	87100	43391	23454	50897	51320
MEAN	364	775	613	523	1597	616	4407	2810	1446	757	1642	1711
MAX	410	1050	849	2230	2500	1330	6010	5060	2720	993	3030	2600
MIN	280	256	400	250	800	490	1670	1610	741	548	764	1290
CFSM	.42	.89	.70	.60	1.83	.71	5.05	3.22	1.66	.87	1.88	1.96
IN.	.48	.99	.81	.69	1.91	.81	5.63	3.71	1.85	.99	2.17	2.19

CAL YR 1985 TOTAL 408558 MEAN 1119 MAX 7280 MIN 180 CFSM 1.28 IN. 17.4
WTR YR 1986 TOTAL 521930 MEAN 1430 MAX 6010 MIN 250 CFSM 1.64 IN. 22.2

e Estimated

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

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

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

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

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

GAGE.--Water-stage recorder. Datum of gage is 488.81 ft above National Geodetic Vertical Datum of 1929. Prior to Oct. 10, 1933, nonrecording gage on opposite bank at same datum.

REMARKS.--Estimated daily discharges: Nov. 16 to Dec. 5 and Dec. 16 to Apr. 2. Records good except for period of ice effect Dec. 16 to Apr. 2, and periods of no gage-height record, Nov. 16 to Dec. 5 and Mar. 13-18, which are fair. Several observations of water temperature and specific conductance were made during the year.

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

AVERAGE DISCHARGE.--60 years, 9,759 ft³/s (23.39 in/yr).

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

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

Date	Time	Discharge (ft ³ /s)	Gage height (ft)	Date	Time	Discharge (ft ³ /s)	Gage height (ft)
Apr. 2	0945	(ice jam)	*18.88	Apr. 23	1030	46,900	14.98
Apr. 4	1630	*63,000	17.40				

Minimum discharge not determined, occurred during period of ice effect, Dec. 15 to Apr. 2; minimum daily discharge, 1,300 ft³/s, Jan. 19.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1985 TO SEPTEMBER 1986
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	5260	2300	e3700	e1700	e12800	e2450	e20000	26200	13500	11300	5650	11600
2	4620	2180	e3800	e1670	e13500	e2350	e31400	23500	12700	9250	7850	10500
3	4630	2100	e4000	e1620	e13000	e2300	58600	21700	12100	7640	11600	9590
4	4930	2020	e4400	e1600	e12000	e2250	61500	19600	11100	6740	16100	8880
5	4560	1990	e4900	e1560	e11200	e2150	53400	17300	10100	7150	17300	8360
6	4350	2020	5740	e1530	e10200	e2100	42900	15600	9200	7460	14100	8100
7	6330	2970	5980	e1510	e9200	e2050	35500	14500	8370	8070	11100	8160
8	8050	5900	5500	e1480	e8300	e2000	29400	14100	8020	16900	10600	8310
9	7040	9560	4930	e1450	e7500	e1950	24900	16000	8470	21200	11400	7760
10	5770	8780	4570	e1430	e6800	e1920	22100	17600	9130	17100	12900	7090
11	5020	7580	4220	e1410	e6400	e1900	19900	15700	9590	12700	14000	6760
12	4710	6460	3880	e1400	e5900	e1850	19200	13800	8480	9790	13400	8570
13	4760	5790	3650	e1380	e5500	e1820	20300	12100	7330	7900	13400	24100
14	4530	5370	3470	e1360	e5200	e1800	22000	10900	6590	6950	11100	31000
15	4140	5300	3280	e1340	e4800	e1800	23300	9960	6050	7620	9140	23800
16	4030	e5250	e3100	e1330	e4600	e1900	24900	9170	5670	10500	8660	18000
17	4570	e5200	e2900	e1320	e4300	e2050	28000	8550	5600	11100	11200	14300
18	6080	e4800	e2800	e1310	e4100	e2000	32500	8120	6060	10000	12300	12100
19	5660	e4900	e2600	e1300	e3850	e1950	35900	8010	6970	10100	11300	10600
20	4920	e5100	e2500	e1400	e3650	e2100	36400	8320	6740	11100	9600	9450
21	4280	e5700	e2400	e2100	e3500	e2200	36700	9760	5760	9550	8310	8580
22	3810	e9800	e2300	e2600	e3350	e2300	40700	13700	5010	8220	7960	7820
23	3450	e8000	e2200	e2900	e3200	e2400	45900	16800	4450	7180	8140	7460
24	3170	e6500	e2100	e2800	e3050	e2500	40700	25100	4270	6210	9840	8380
25	3040	e5500	e2000	e3000	e2950	e2650	35200	41000	7550	5480	21100	11500
26	2900	e4800	e1950	e3700	e2800	e2800	34100	36200	14900	4920	27300	14100
27	2850	e4300	e1900	e4800	e2700	e3200	34800	27300	15700	4720	24200	12700
28	2920	e3900	e1850	e6100	e2600	e4700	34500	21900	12800	5370	19600	10900
29	2840	e3700	e1800	e7600	---	e5800	32100	18800	13700	5870	16900	9500
30	2650	e3600	e1780	e9800	---	e7500	29200	16700	13600	5070	14800	10200
31	2470	---	e1730	e12000	---	e13500	---	15000	---	4790	13000	---
TOTAL	138340	151370	101930	86500	176950	90240	1006000	532990	269510	277950	403850	348170
MEAN	4463	5046	3288	2790	6320	2911	33530	17190	8984	8966	13030	11610
MAX	8050	9800	5980	12000	13500	13500	61500	41000	15700	21200	27300	31000
MIN	2470	1990	1730	1300	2600	1800	19200	8010	4270	4720	5650	6760
CFSM	.79	.89	.58	.49	1.12	.51	5.92	3.03	1.59	1.58	2.30	2.05
IN.	.91	.99	.67	.57	1.16	.59	6.61	3.50	1.77	1.83	2.65	2.29

CAL YR 1985 TOTAL 2593600 MEAN 7106 MAX 77400 MIN 1030 CFSM 1.25 IN. 17.0
WTR YR 1986 TOTAL 3583800 MEAN 9819 MAX 61500 MIN 1300 CFSM 1.73 IN. 23.5

e Estimated

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

LOCATION.--Lat 47°09'35", long 67°55'55", Aroostook County, Hydrologic Unit 01010001, at International Bridge between Van Buren, Maine, and St. Leonard, New Brunswick.

DRAINAGE AREA.--8,174 mi².

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

PERIOD OF DAILY RECORD.--

SPECIFIC CONDUCTANCE: November 1978 to September 1981.

WATER TEMPERATURES: November 1978 to September 1981.

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

REMARKS.--Water-discharge records for St. John River below Fish River at Ft. Kent (station 01014000) are used for computation of mean daily discharge.

EXTREMES FOR PERIOD OF DAILY RECORD.--

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

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

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1985 TO SEPTEMBER 1986

DATE	TIME	DIS- CHARGE, IN CUBIC FEET PER SECOND	SPE- CIFIC CON- DUCT- ANCE (US/CM)	PH (STAND- ARD UNITS)	TEMPER- ATURE AIR (DEG C)	TEMPER- ATURE WATER (DEG C)	TUR- BID- ITY (NTU)	BARO- METRIC PRES- SURE (MM OF HG)	OXYGEN, DIS- SOLVED OF (MG/L)	OXYGEN, (PER- CENT SATUR- ATION)	COLI- FORM, FECAL, 0.7 UM-MF (COLS./ 100 ML)	STREP- TOCOCCI FECAL, KF AGAR (COLS. PER 100 ML)
NOV												
05...	0830	2860	110	7.70	4.0	3.5	1.5	755	12.4	94	390	42
JAN												
09...	1300	E 2090	125	6.90	-4.0	0.0	1.4	742	10.9	77	290	44
MAR												
14...	0900	E 2600	138	7.60	0.5	0.0	1.0	752	12.5	87	640	110
MAY												
14...	0800	15700	81	7.30	10.0	10.5	1.8	759	10.8	97	K 80	K 18
JUN												
18...	1900	8740	90	7.30	16.0	15.5	3.0	744	9.2	94	120	5
AUG												
05...	1030	25000	72	7.40	25.0	20.0	3.0	752	8.4	94	180	54

DATE	HARD- NESS (MG/L AS CACO3)	CALCIUM DIS- SOLVED (MG/L AS CA)	MAGNE- SIUM, DIS- SOLVED (MG/L AS MG)	SODIUM, DIS- SOLVED (MG/L AS NA)	POTAS- SIUM, DIS- SOLVED (MG/L AS K)	ALKA- LITY FIELD (MG/L AS CACO3)	SULFATE DIS- SOLVED (MG/L AS SO4)	CHLO- RIDE, DIS- SOLVED (MG/L AS CL)	FLUO- RIDE, DIS- SOLVED (MG/L AS F)	SILICA, DIS- SOLVED (MG/L AS SIO2)	SOLIDS, RESIDUE AT 180 DEG. C DIS- SOLVED (MG/L)	SOLIDS, SUM OF CONSTI- TUENTS, DIS- SOLVED (MG/L)
NOV												
05...	47	15	2.4	3.8	0.50	38	11	3.8	<0.10	3.1	72	64
JAN												
09...	56	18	2.7	4.7	0.50	L 40	13	6.0	<0.10	4.2	80	73
MAR												
14...	60	19	3.0	4.0	0.60	L 44	13	4.7	<0.10	4.2	87	75
MAY												
14...	34	11	1.5	1.9	0.60	L 28	8.8	2.4	<0.10	3.4	57	47
JUN												
18...	37	12	1.6	2.2	0.60	L 32	9.8	2.3	<0.10	2.8	50	51
AUG												
05...	34	11	1.5	1.7	0.50	L 28	12	1.8	<0.10	3.7	46	49

E Estimated discharge.

K Results based on colony count outside the acceptable range (non-ideal colony count).

L Lab alkalinity value reported.

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

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1985 TO SEPTEMBER 1986

DATE	NITRO- GEN, NO2+NO3 DIS- SOLVED (MG/L AS N)	NITRO- GEN, AMMONIA DIS- SOLVED (MG/L AS N)	NITRO- GEN, AMMONIA DIS- SOLVED (MG/L AS NH4)	NITRO- GEN,AM- MONIA + ORGANIC TOTAL (MG/L AS N)	PHOS- PHORUS, TOTAL (MG/L AS P)	PHOS- PHORUS, DIS- SOLVED (MG/L AS P)	PHOS- PHORUS, ORTHO, DIS- SOLVED (MG/L AS P)	ALUM- INUM, DIS- SOLVED (UG/L AS AL)	ARSENIC DIS- SOLVED (UG/L AS AS)	BARIUM, DIS- SOLVED (UG/L AS BA)
NOV 05...	0.330	0.010	0.01	0.30	0.020	<0.010	0.010	50	<1	9
JAN 09...	0.260	0.020	0.03	0.40	0.020	<0.010	<0.010	--	--	--
MAR 14...	0.290	0.020	0.03	0.40	0.010	0.010	0.010	30	<1	13
MAY 14...	0.170	0.030	0.04	0.40	0.020	0.010	<0.010	50	<1	8
JUN 18...	<0.100	0.010	0.01	0.40	0.020	0.010	<0.010	--	--	--
AUG 05...	<0.100	0.040	0.05	0.50	0.030	0.020	<0.010	--	--	--

DATE	BERYL- LIUM, DIS- SOLVED (UG/L AS BE)	CADMIUM DIS- SOLVED (UG/L AS CD)	CHRO- MIUM, DIS- SOLVED (UG/L AS CR)	COBALT, DIS- SOLVED (UG/L AS CO)	COPPER, DIS- SOLVED (UG/L AS CU)	IRON, DIS- SOLVED (UG/L AS FE)	LEAD, DIS- SOLVED (UG/L AS PB)	LITHIUM DIS- SOLVED (UG/L AS LI)	MANGA- NESE, DIS- SOLVED (UG/L AS MN)	MERCURY DIS- SOLVED (UG/L AS HG)
NOV 05...	--	<1	<1	--	1	110	3	<4	33	<0.1
JAN 09...	--	--	--	--	--	--	--	--	--	--
MAR 14...	0.9	<1	<1	<3	2	74	1	<4	35	0.7
MAY 14...	<0.5	<1	<1	<3	7	64	3	<4	15	<0.1
JUN 18...	--	--	--	--	--	--	--	--	--	--
AUG 05...	--	--	--	--	--	--	--	--	--	--

DATE	MOLYB- DENUM, DIS- SOLVED (UG/L AS MO)	NICKEL, DIS- SOLVED (UG/L AS NI)	SELE- NIUM, DIS- SOLVED (UG/L AS SE)	SILVER, DIS- SOLVED (UG/L AS AG)	STRON- TIUM, DIS- SOLVED (UG/L AS SR)	VANA- DIUM, DIS- SOLVED (UG/L AS V)	ZINC, DIS- SOLVED (UG/L AS ZN)	SEDI- MENT, SUS- PENDE (MG/L)	SEDI- MENT, DIS- CHARGE, SUS- PENDE (T/DAY)	SED. SUSP. SIEVE DIAM. % FINER THAN .062 MM
NOV 05...	<10	2	<1	<1	94	<6	7	4	31	46
JAN 09...	--	--	--	--	--	--	--	6	--	53
MAR 14...	<10	47	<1	<1	130	<6	14	3	--	73
MAY 14...	<10	5	<1	<1	76	<6	19	1	42	67
JUN 18...	--	--	--	--	--	--	--	4	94	94
AUG 05...	--	--	--	--	--	--	--	17	1150	81

01015800 AROOSTOOK RIVER NEAR MASARDIS, ME

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

DRAINAGE AREA.--892 mi².

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

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

GAGE.--Water-stage recorder. Datum of gage is 530.00 ft above National Geodetic Vertical Datum of 1929.

REMARKS.--Estimated daily discharges: Nov. 6 to Apr. 4. Records good except for periods of ice effect, Nov. 25 to Apr. 4, which are fair, and periods of no gage-height records, Nov. 6-24 and Jan. 31 to Mar. 17, which are fair. Some regulation by Millinocket Lake, capacity 1,110,000,000 ft³, used for power. Several observations of water temperature and specific conductance were made during the year.

AVERAGE DISCHARGE.--29 years, 1,504 ft³/s.

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

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 8,780 ft³/s, May 25, gage height, 11.87 ft; minimum discharge 154 ft³/s, Nov. 5, gage height, 2.82 ft.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1985 TO SEPTEMBER 1986
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	424	179	e450	e210	e4100	e510	e5350	3090	2480	363	1170	1820
2	380	175	e495	e205	e3900	e490	e6970	2880	2510	324	1570	1610
3	337	171	e840	e200	e3400	e470	e7910	2720	2380	280	1350	1450
4	286	164	e820	e205	e2900	e465	e8080	2440	2060	300	1110	1310
5	254	158	e700	e225	e2400	e450	7020	2160	1810	312	883	1090
6	256	e210	e640	e270	e2200	e430	5890	1970	1600	322	676	846
7	274	e1670	e600	e345	e1950	e415	4710	1840	1390	416	545	792
8	284	e2480	e560	e350	e1750	e400	3740	1850	1330	727	824	724
9	266	e2230	e530	e355	e1600	e390	3230	1880	1640	757	2290	665
10	255	e1820	e500	e360	e1450	e380	2880	1750	1600	619	2740	632
11	269	e1450	e470	e360	e1350	e370	2630	1580	1340	505	2380	593
12	304	e1140	e450	e365	e1200	e365	2740	1420	1120	417	2000	1180
13	296	e945	e430	e370	e1150	e355	3220	1280	1010	363	1620	2380
14	277	e1050	e410	e375	e1050	e340	3630	1160	1010	341	1270	2340
15	288	e1060	e390	e375	e990	e330	3830	1050	939	498	1020	1870
16	558	e860	e370	e380	e920	e320	4050	954	855	886	918	1450
17	837	e850	e350	e375	e860	e315	4310	890	829	852	1100	1160
18	757	e880	e335	e365	e810	e310	4590	852	842	716	1140	968
19	624	e900	e320	e370	e770	e305	4600	823	746	696	1620	839
20	523	e915	e305	e380	e730	e320	4360	867	599	643	1880	750
21	442	e1050	e295	e500	e700	e340	4160	1050	447	554	1560	677
22	382	e1200	e290	e640	e670	e370	4840	1200	393	471	1360	619
23	341	e1200	e280	e700	e640	e410	6060	1640	372	395	1270	607
24	304	e1130	e270	e760	e610	e470	5510	4040	367	347	1610	905
25	273	e930	e265	e800	e590	e460	4740	8040	366	297	3790	1270
26	260	e810	e255	e820	e570	e450	4400	8170	373	275	4670	1280
27	250	e685	e245	e900	e550	e540	4340	6380	357	322	4080	1120
28	235	e590	e240	e1100	e530	e700	4140	4930	363	374	3510	947
29	215	e515	e230	e1700	---	e1200	3760	4200	398	354	3010	821
30	204	e475	e225	e2500	---	e2310	3410	3480	394	320	2490	969
31	190	---	e215	e3400	---	e3510	---	2880	---	366	2090	---
TOTAL	10845	27892	12775	20260	40340	18490	139100	79466	31920	14412	57546	33684
MEAN	350	930	412	654	1441	596	4637	2563	1064	465	1856	1123
MAX	837	2480	840	3400	4100	3510	8080	8170	2510	886	4670	2380
MIN	190	158	215	200	530	305	2630	823	357	275	545	593

CAL YR 1985 TOTAL 307659 MEAN 843 MAX 6540 MIN 90
WTR YR 1986 TOTAL 486730 MEAN 1334 MAX 8170 MIN 158

e Estimated

01017000 AROOSTOOK RIVER AT WASHBURN, ME

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

DRAINAGE AREA.--1,654 mi².

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

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

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

REMARKS.--Estimated daily discharges: Nov. 28 to Apr. 3. Records good except for periods of ice effect, Nov. 28 to Apr. 3. Considerable regulation by Squa Pan Lake, capacity 2,893,000,000 ft³, and by Millinocket Lake, capacity 1,110,000,000 ft³ used for power. Several observations of water temperature and specific conductance were made during the year.

AVERAGE DISCHARGE.--56 years, 2,668 ft³/s.

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

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 19,600 ft³/s, Apr. 3, gage-height, 9.19 ft; maximum gage height, 12.02 ft, Apr. 2 (backwater from ice); minimum daily discharge, 357 ft³/s, Nov. 5.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1985 TO SEPTEMBER 1986
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	922	401	e900	e400	e7500	e1050	e6400	6590	4360	663	1380	3330
2	793	385	e960	e390	e7200	e1000	e12500	6020	4280	608	2570	3020
3	716	375	e1100	e370	e6800	e960	e17600	5540	4200	548	2360	2820
4	635	365	e1450	e400	e5800	e920	17400	4870	3500	523	1990	2540
5	573	357	e1600	e400	e5500	e880	14800	4230	3030	540	1650	2300
6	581	468	e1350	e480	e5200	e860	12300	3750	2660	537	1310	1770
7	643	1940	e1200	e600	e5100	e840	10700	3450	2460	566	1140	1520
8	643	5000	e1050	e600	e4500	e760	8230	3280	2350	879	2180	1400
9	615	4870	e1000	e610	e3900	e740	7100	3360	2710	1270	4640	1270
10	582	4020	e950	e620	e3300	e720	6370	3210	2990	1170	5710	1180
11	600	3240	e900	e640	e2900	e710	5830	2910	2600	979	4840	1200
12	632	2640	e840	e630	e2500	e690	5900	2640	2230	813	3870	2240
13	639	2270	e780	e620	e2200	e670	6750	2370	1840	690	3220	4470
14	613	2100	e740	e700	e2000	e540	7510	2150	1600	629	2630	4660
15	600	2100	e700	e700	e1800	e480	7940	1950	1510	760	2110	3940
16	756	1800	e660	e690	e1700	e470	8470	1760	1380	1310	1860	3210
17	1230	1720	e640	e680	e1550	e460	9270	1630	1300	1590	1890	2520
18	1340	1750	e680	e670	e1450	e470	10100	1550	1290	1410	2170	1990
19	1160	1820	e640	e680	e1350	e480	10200	1470	1230	1240	2610	1700
20	993	1900	e600	e700	e1300	e520	9810	1510	1060	1140	3540	1500
21	863	2130	e570	e800	e1270	e590	9430	1760	868	1010	3180	1360
22	751	2360	e550	e950	e1240	e700	10600	2100	719	884	2710	1240
23	673	2250	e520	e1400	e1200	e820	12500	2700	657	738	2540	1500
24	624	2200	e600	e1450	e1180	e870	11600	6040	627	639	3540	1930
25	584	2060	e500	e1500	e1160	e880	10100	12700	626	562	7980	2570
26	541	1460	e480	e1600	e1140	e950	9330	14200	629	522	9740	2730
27	527	1320	e450	e1900	e1120	e1150	9080	12000	638	526	8880	2430
28	497	e1050	e480	e2500	e1100	e1400	8690	9460	656	558	7430	2070
29	462	e1000	e440	e4500	---	e1900	8020	7900	683	587	6150	1770
30	454	e950	e410	e6400	---	e2300	7290	6590	702	547	4900	2290
31	426	---	e430	e7100	---	e3500	---	5300	---	599	3970	---
TOTAL	21668	56301	24170	41680	82960	29280	291820	144990	55385	25037	114690	68470
MEAN	699	1877	780	1345	2963	945	9727	4677	1846	808	3700	2282
MAX	1340	5000	1600	7100	7500	3500	17600	14200	4360	1590	9740	4660
MIN	426	357	410	370	1100	460	5830	1470	626	522	1140	1180

CAL YR 1985 TOTAL 629143 MEAN 1724 MAX 14600 MIN 195

WTR YR 1986 TOTAL 956451 MEAN 2620 MAX 17600 MIN 357

e Estimated

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

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

DRAINAGE AREA.--1,943 mi².

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

PERIOD OF DAILY RECORD.--

SPECIFIC CONDUCTANCE: October 1975 to September 1981.

WATER TEMPERATURES: October 1975 to September 1981.

REMARKS.--Water-discharge records for Aroostook River at Washburn (station 01017000) are used for computation of mean daily discharge.

EXTREMES FOR PERIOD OF DAILY RECORD.--

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

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

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1985 TO SEPTEMBER 1986

DATE	TIME	DIS- CHARGE, IN CUBIC FEET PER SECOND	SPE- CIFIC CON- DUCT- ANCE (US/CM)	PH (STAND- ARD UNITS)	TEMPER- ATURE AIR (DEG C)	TEMPER- ATURE WATER (DEG C)	TUR- BID- ITY (NTU)	BARO- METRIC PRES- SURE (MM OF HG)	OXYGEN, DIS- SOLVED (MG/L)	OXYGEN, (PER- CENT SATUR- ATION)	COLI- FORM, FECAL, 0.7 UM-MF (COLS./ 100 ML)	STREP- TOCOCCI FECAL, KF AGAR (COLS. PER 100 ML)
NOV												
05...	1130	497	130	8.00	8.0	3.5	1.0	750	13.1	100	K1200	1900
MAR												
13...	1615	E 930	110	7.30	0.0	0.0	1.1	759	11.7	80	100	92
MAY												
13...	1415	3300	77	7.90	17.0	15.0	1.5	755	10.6	106	58	64
AUG												
05...	1245	2300	76	7.90	28.0	21.5	1.0	753	9.0	103	62	K 14

DATE	HARD- NESS (MG/L AS CACO3)	CALCIUM DIS- SOLVED (MG/L AS CA)	MAGNE- SIUM, DIS- SOLVED (MG/L AS MG)	SODIUM, DIS- SOLVED (MG/L AS NA)	POTAS- SIUM, DIS- SOLVED (MG/L AS K)	ALKA- LINITY FIELD (MG/L AS CACO3)	SULFATE DIS- SOLVED (MG/L AS SO4)	CHLO- RIDE, DIS- SOLVED (MG/L AS CL)	FLUO- RIDE, DIS- SOLVED (MG/L AS F)	SILICA, DIS- SOLVED (MG/L AS SIO2)	SOLIDS, RESIDUE AT 180 DEG. C DIS- SOLVED (MG/L)	SOLIDS, SUM OF CONSTI- TUENTS, DIS- SOLVED (MG/L)
NOV												
05...	60	19	3.1	3.7	1.1	53	9.7	4.9	<0.10	1.3	96	77
MAR												
13...	48	15	2.5	3.0	1.2	L 41	11	3.7	<0.10	5.4	75	67
MAY												
13...	35	11	1.8	1.7	0.60	L 28	9.5	2.2	<0.10	2.9	58	47
AUG												
05...	35	11	1.9	2.8	0.70	L 30	12	2.2	<0.10	5.2	48	55

E Estimated discharge.

K Results based on colony count outside the acceptable range (non-ideal colony count).

L Lab alkalinity value reported.

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 downstream from outlet of Spednik Lake.

DRAINAGE AREA.--413 mi².

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

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

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

REMARKS.--Estimated daily discharges: Oct. 11 to Dec. 2. Records good except for period of no gage-height record, Oct. 11 to Dec. 2, which are fair. Flow regulated by Chiputneticook Lakes, combined usable capacity, about 13,200,000,000 ft³. Final regulation is at Spednik Lake Dam about 400 ft upstream. Several observations of water temperature and specific conductance were made during the year.

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

AVERAGE DISCHARGE.--58 years, 726 ft³/s.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 6,730 ft³/s, June 3, 1984, gage height, 11.28 ft; minimum daily, 1.9 ft³/s, Oct. 22 and Nov. 4, 1936, when flow was held back by cofferdam during repairs to dam just upstream.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 1,430 ft³/s, Sept 22, gage height, 6.49 ft; minimum daily, 211 ft³/s, May 5.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1985 TO SEPTEMBER 1986
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	690	e450	e260	678	234	690	232	223	735	828	770	301
2	689	e450	e265	671	236	685	227	220	558	890	767	301
3	681	e450	266	663	238	677	225	220	475	892	767	301
4	790	e385	300	668	243	672	230	220	480	890	765	301
5	846	e260	318	662	373	845	234	211	480	887	762	482
6	840	e270	318	664	455	917	237	233	653	883	761	565
7	840	e275	318	657	455	906	235	237	737	635	758	565
8	841	e275	318	647	455	901	234	229	738	460	759	660
9	840	e275	317	642	455	887	226	229	566	458	758	725
10	825	e275	315	634	594	734	223	229	476	458	758	721
11	e810	e275	315	629	673	622	225	229	476	693	754	723
12	e805	e275	315	623	668	750	229	267	476	802	753	723
13	e805	e275	373	619	668	1040	231	283	663	800	749	726
14	e800	e250	434	615	666	1020	231	283	753	583	744	723
15	e795	e235	437	592	661	762	229	340	752	451	743	965
16	e790	e235	437	574	655	591	225	383	561	450	739	1080
17	e780	e235	511	594	706	935	225	458	497	448	738	1070
18	e775	e245	557	589	739	1130	225	460	491	676	735	1060
19	e770	e260	555	582	735	724	225	462	491	800	732	1050
20	e760	e260	553	583	732	267	227	462	666	799	941	1050
21	e755	e260	546	586	726	486	228	462	742	797	1090	1040
22	e750	e260	545	585	721	593	231	462	740	794	1080	1270
23	e745	e260	634	589	717	593	225	462	724	791	1070	1390
24	e735	e260	728	586	712	588	220	469	752	789	705	1380
25	e730	e260	721	581	709	508	220	469	751	787	337	1370
26	e720	e260	719	582	705	300	224	473	747	782	299	1360
27	e710	e260	707	455	700	239	225	476	738	780	299	1340
28	e565	e260	704	234	694	213	231	476	738	776	300	1320
29	e460	e260	698	226	---	214	231	476	736	775	301	1310
30	e455	e260	690	229	---	218	228	655	735	771	301	1310
31	e450	---	684	230	---	225	---	738	---	769	301	---
TOTAL	22847	8510	14858	17469	16325	19932	6838	11496	19127	22394	21336	27182
MEAN	737	284	479	564	583	643	228	371	638	722	688	906
MAX	846	450	728	678	739	1130	237	738	753	892	1090	1390
MIN	450	235	260	226	234	213	220	211	475	448	299	301

CAL YR 1985 TOTAL 134175 MEAN 368 MAX 846 MIN 216
WTR YR 1986 TOTAL 208314 MEAN 571 MAX 1390 MIN 211

e Estimated

01019000 GRAND LAKE STREAM AT GRAND LAKE STREAM, ME

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

DRAINAGE AREA.--227 mi².

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

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

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

REMARKS. Estimated daily discharge: Dec. 4. Records excellent including day of ice effect, Dec. 4. Flow completely regulated by Grand Lake, 0.8 mi upstream, and other lakes, combined usable capacity about 8,250,000,000 ft³. Several observations of water temperature and specific conductance were made during the year.

AVERAGE DISCHARGE.--58 years, 397 ft³/s.

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

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 1,170 ft³/s, Sep. 22, gage height, 4.16 ft; minimum daily discharge, 114 ft³/s, Apr. 10, 11, and May 3-11.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1985 TO SEPTEMBER 1986
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	271	174	137	222	130	261	134	116	298	331	357	183
2	270	172	139	220	131	261	134	117	301	363	355	397
3	268	172	141	222	132	261	134	114	298	363	357	624
4	338	171	e165	228	132	260	134	114	298	363	359	624
5	376	171	187	228	177	318	134	114	298	363	357	789
6	378	177	186	228	210	363	134	114	295	363	355	947
7	375	178	186	228	210	366	136	114	295	363	355	941
8	373	178	186	226	213	366	138	114	296	363	356	934
9	370	178	185	225	213	366	125	114	298	362	357	926
10	481	179	183	225	238	310	114	114	295	362	359	919
11	429	179	183	222	254	261	114	114	295	359	358	913
12	361	178	183	221	254	364	116	146	295	359	358	910
13	356	180	183	222	255	436	116	157	295	357	355	906
14	355	158	186	221	257	437	116	184	295	358	355	900
15	355	137	188	218	258	335	116	198	295	359	355	941
16	247	135	186	217	257	267	116	198	295	357	357	964
17	193	136	185	216	258	433	116	201	295	355	355	956
18	192	137	183	216	258	525	116	201	294	357	444	941
19	192	137	184	215	258	352	116	211	291	356	512	934
20	190	137	205	283	258	140	116	232	291	355	579	924
21	186	137	232	325	258	283	116	232	291	356	834	916
22	183	137	230	323	261	298	121	232	291	355	832	988
23	183	137	229	323	260	298	117	232	291	355	824	1160
24	183	137	228	323	261	298	117	237	289	354	529	1030
25	183	137	229	320	261	204	116	237	288	352	239	897
26	184	136	228	321	261	150	117	235	288	353	183	889
27	181	136	228	260	261	154	117	235	286	355	184	883
28	182	137	226	134	261	157	116	235	288	355	184	871
29	180	136	225	130	---	158	116	268	288	354	183	860
30	175	137	225	130	---	160	116	298	288	353	183	859
31	175	---	223	130	---	145	---	298	---	358	183	---
TOTAL	8365	4631	6064	7222	6437	8987	3644	5726	8801	11068	11953	25926
MEAN	270	154	196	233	230	290	121	185	293	357	386	864
MAX	481	180	232	325	261	525	138	298	301	363	834	1160
MIN	175	135	137	130	130	140	114	114	286	331	183	183

CAL YR 1985 TOTAL 67180 MEAN 184 MAX 481 MIN 114
WTR YR 1986 TOTAL 108824 MEAN 298 MAX 1160 MIN 114

e Estimated

ST. CROIX RIVER BASIN

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

LOCATION.--Lat 45°08'12", long 67°19'05", Washington County, Hydrologic Unit 01050001, on right bank at site of destroyed international highway bridge at Baring.
DRAINAGE AREA.--1,374 mi².

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

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

GAGE.--Water-stage recorder. Datum of gage is 66.23 ft above National Geodetic Vertical Datum of 1929.

REMARKS.--Estimated daily discharges: Jan. 1 to Jan. 18. Records excellent except for period of ice effect, Jan. 1 to Jan. 18, which is fair. Flow regulated by Chiputneticook Lakes, Grand, and other lakes, combined capacity about 25,000,000,000 ft³. Final regulation is at Woodland, 5.6 mi upstream from gage. Several observations of water temperature and specific conductance were made during the year.

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

AVERAGE DISCHARGE.--27 years (water years 1960-current year), 2,716 ft³/s.

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

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 8,560 ft³/s, Apr. 2, gage height, 9.24 ft; minimum daily, 870 ft³/s, Jun. 22.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1985 TO SEPTEMBER 1986
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1010	1030	2030	e900	4010	1920	5380	3270	1760	1660	1830	2250
2	1030	943	2200	e900	3350	1540	8010	3220	2050	1690	1750	1710
3	1030	991	2290	e900	3260	1870	7640	3170	1960	1490	1750	1310
4	1040	1040	2030	e880	3210	1910	6730	3160	1820	1430	1580	1760
5	1050	1030	2050	e940	3120	1740	6370	3140	1620	911	1650	1540
6	1170	1610	2040	e1000	2900	1990	5320	2730	1850	913	1820	1140
7	1060	1850	2010	e950	2570	1940	4550	2940	1760	944	1870	1040
8	1040	1790	1930	e890	2210	1700	4420	2950	1690	1170	1630	1210
9	1050	2150	1880	e940	2180	1870	4050	2910	1660	1160	1600	1410
10	1060	2240	1730	e1000	2000	1900	3710	2680	1750	1010	1430	1600
11	1270	2190	1060	e930	2150	1560	3410	2020	1740	924	1650	2620
12	1930	1980	996	e905	1920	1760	4170	2040	1540	997	1740	2880
13	1820	2370	1050	e900	2050	1770	4350	1820	1190	1010	1700	2400
14	1680	2080	1060	e895	2070	1850	4120	1570	1010	1020	1710	2130
15	1620	2280	1000	e890	2030	2010	4460	1130	1510	1360	1590	2050
16	2150	2090	1010	e885	2040	2010	4060	1060	1370	1010	1720	2420
17	2070	2130	1410	e885	2040	2160	3550	1070	1660	955	1680	2520
18	1570	2370	1890	e900	1940	2350	3280	1000	1600	1160	1710	2650
19	1900	2220	2000	921	2050	2550	3190	1010	1380	1010	1770	2850
20	1900	2210	1690	1210	1960	3140	3130	1050	996	1010	1690	2760
21	1910	2180	1060	1720	2040	2800	3110	1050	920	1010	1740	2560
22	1830	2080	1140	1400	2100	2640	3210	1050	870	1190	1710	2750
23	1880	2150	1510	1180	1820	2190	3300	1070	874	1450	2440	2770
24	1830	2130	1770	1190	1960	2290	4630	1940	1080	1600	2970	2900
25	1860	2080	1710	1750	1960	2260	5430	2290	993	1850	3260	2870
26	1840	2090	1900	1910	1900	2380	5400	2390	1000	1650	3230	2680
27	1720	1930	1400	2690	1970	2630	6270	2310	995	1360	3230	2610
28	1770	1760	944	4180	1950	3350	4960	2230	1360	1410	3240	2250
29	1510	2030	1130	6000	---	3420	3720	1920	995	1770	3170	2620
30	958	2030	1010	6680	---	3470	3390	1940	1450	1710	3120	2970
31	979	---	1190	5190	---	3670	---	1930	---	1830	2970	---
TOTAL	46537	57054	48120	52511	64760	70640	137320	64060	42453	39664	64950	67230
MEAN	1501	1902	1552	1694	2313	2279	4577	2066	1415	1279	2095	2241
MAX	2150	2370	2290	6680	4010	3670	8010	3270	2050	1850	3260	2970
MIN	958	943	944	880	1820	1540	3110	1000	870	911	1430	1040

CAL YR 1985 TOTAL 516069 MEAN 1414 MAX 3690 MIN 762
WTR YR 1986 TOTAL 755299 MEAN 2069 MAX 8010 MIN 870

e Estimated

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

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

DRAINAGE AREA.--1,460 mi².

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

PERIOD OF DAILY RECORD.--

SPECIFIC CONDUCTANCE: July 1972 to current year.

pH: July 1972 to current year.

WATER TEMPERATURES: September 1969 to current year.

DISSOLVED OXYGEN: September 1969 to current year.

INSTRUMENTATION.--Water-quality monitor since September 1969. Continuous flow through system. Submersible pump located 50 ft. streamward from right bank.

REMARKS.--Monitor not operated during winter periods, water years 1970 to 1975. Other interruptions in the record were due to malfunctions of the monitor or pumping system. Water discharge records from the St. Croix River at Baring (station 01021000) are used for computation of instantaneous discharge.

EXTREMES FOR PERIOD OF DAILY RECORD.--

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

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

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

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

EXTREMES FOR CURRENT YEAR.--

SPECIFIC CONDUCTANCE: Maximum, 168 microsiemens, June 23; minimum, 40 microsiemens, Apr. 2-4, Sept. 9, 10.

pH: Maximum, 7.2 units, Oct. 31, Nov. 1-5, June 23, 24, 26, 27; minimum, 6.4 units Apr. 3-5.

WATER TEMPERATURES: Maximum, 24.5°C, July 26, 27; minimum, 0.0°C, on many days during winter periods.

DISSOLVED OXYGEN: Maximum, 13.8 mg/L, Dec. 2, 4, Mar. 26, Apr. 2; minimum 6.5 mg/L, July 28.

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1985 TO SEPTEMBER 1986

DATE	TIME	STREAM- FLOW, INSTAN- TANEOUS (CFS)	SPE- CIFIC CON- DUCT- ANCE (US/CM)	PH (STAND- ARD UNITS)	TEMPER- ATURE AIR (DEG°C)	TEMPER- ATURE WATER (DEG°C)	TUR- BID- ITY (NTU)	BARO- METRIC PRES- SURE (MM OF HG)	OXYGEN, DIS- SOLVED (MG/L)	OXYGEN, DIS- SOLVED (PER- CENT SATUR- ATION)	COLI- FORM, FECAL, 0.7 UM-MF (COLS. / 100 ML)	STREP- TOCOCCI FECAL, KF AGAR (COLS. PER 100 ML)
NOV												
12...	1400	1860	85	7.00	8.5	4.5	5.0	774	11.4	87	90	26
FEB												
07...	1000	3010	77	6.70	-5.5	0.0	2.5	766	13.5	92	--	--
APR												
16...	1330	4180	62	6.90	14.5	6.0	2.1	759	12.0	97	K 5	K 3
AUG												
06...	1100	1820	94	6.90	30.0	21.5	4.0	764	7.3	83	32	250

DATE	HARD- NESS (MG/L AS CACO3)	CALCIUM DIS- SOLVED (MG/L AS CA)	MAGNE- SIUM, DIS- SOLVED (MG/L AS MG)	SODIUM, DIS- SOLVED (MG/L AS NA)	POTAS- SIUM, DIS- SOLVED (MG/L AS K)	ALKA- LINITY FIELD (MG/L AS CACO3)	SULFATE DIS- SOLVED (MG/L AS SO4)	CHLO- RIDE, DIS- SOLVED (MG/L AS CL)	FLUO- RIDE, DIS- SOLVED (MG/L AS F)	SILICA, DIS- SOLVED (MG/L AS SiO2)	SOLIDS, RESIDUE AT 180 DEG.°C DIS- SOLVED (MG/L)	SOLIDS, SUM OF CONSTI- TUENTS, DIS- SOLVED (MG/L)
NOV												
12...	16	5.1	0.87	10	0.90	15	7.5	12	<0.10	2.3	58	48
FEB												
07...	15	4.5	0.90	8.3	1.3	10 L	13	9.8	<0.10	3.7	--	48
APR												
16...	11	3.3	0.70	5.4	0.70	10 L	10	5.9	<0.10	3.0	50	35
AUG												
06...	14	4.5	0.71	11	1.1	15 L	12	10	<0.10	1.1	66	49

E Estimated discharge.

K Results based on colony count outside the acceptable range (non-ideal colony count).

L Lab alkalinity value reported.

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

SPECIFIC CONDUCTANCE (MICROMHOS/CM AT 25 DEG. C), WATER YEAR OCTOBER 1985 TO SEPTEMBER 1986

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
	OCTOBER			NOVEMBER			DECEMBER			JANUARY		
1	147	139	143	143	136	139	---	---	---			
2	148	140	143	144	134	137	93	86	91			
3	142	136	139	155	144	148	94	84	87			
4	143	136	138	154	143	147	102	87	93			
5	146	143	144	149	142	145	90	88	89			
6	146	137	143	148	124	137	91	90	90			
7	145	134	138	124	93	103	93	90	91			
8	149	142	146	105	91	96	95	91	92			
9	151	145	148	92	82	86	97	93	95			
10	151	146	148	88	86	87	98	94	96			
11	149	142	146	86	83	84	126	92	105			
12	140	102	122	89	86	87	131	127	130			
13	104	97	101	89	81	85	---	---	---			
14	103	98	101	88	82	84	---	---	---			
15	111	91	100	87	79	82	---	---	---			
16	108	88	100	88	83	86	---	---	---			
17	92	88	90	89	85	87	---	---	---			
18	97	90	92	90	84	87	---	---	---			
19	112	95	103	87	85	86	---	---	---			
20	94	90	92	88	85	87	---	---	---			
21	---	---	---	94	87	90	---	---	---			
22	---	---	---	93	87	90	---	---	---			
23	---	---	---	93	91	92	---	---	---			
24	---	---	---	93	92	93	---	---	---			
25	---	---	---	93	90	92	---	---	---			
26	97	88	92	92	89	91	---	---	---			
27	95	91	94	91	88	89	---	---	---			
28	96	94	94	92	88	90	---	---	---			
29	96	91	94	---	---	---	---	---	---			
30	133	94	110	---	---	---	---	---	---			
31	143	134	140	---	---	---	---	---	---			
MONTH	151	88	119	155	79	100	131	84	96			

SPECIFIC CONDUCTANCE (MICROMHOS/CM AT 25 DEG. C), WATER YEAR OCTOBER 1985 TO SEPTEMBER 1986

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
	FEBRUARY			MARCH			APRIL			MAY		
1	---	---	---	96	90	93	64	50	59	68	67	68
2	---	---	---	111	90	97	52	40	45	68	66	68
3	---	---	---	97	90	92	47	40	46	68	65	66
4	---	---	---	98	90	95	50	40	41	67	66	66
5	---	---	---	96	87	91	50	41	42	69	68	68
6	---	---	---	100	90	93	56	41	50	74	67	69
7	---	---	---	97	90	93	57	50	56	77	70	73
8	---	---	---	105	91	97	57	50	55	74	69	72
9	---	---	---	104	99	102	63	50	56	75	74	75
10	---	---	---	101	94	97	67	64	65	75	74	74
11	---	---	---	---	---	---	67	60	61	90	74	80
12	---	---	---	---	---	---	67	60	64	84	74	79
13	---	---	---	---	---	---	62	50	54	88	79	84
14	102	96	99	---	---	---	63	61	62	88	85	86
15	100	96	99	---	---	---	61	50	54	102	88	96
16	96	87	91	---	---	---	62	60	61	118	100	108
17	104	90	94	---	---	---	67	62	64	121	113	118
18	101	90	94	---	---	---	61	60	60	117	111	115
19	96	90	93	---	---	---	61	60	60	117	109	114
20	100	90	94	86	70	79	61	60	60	118	108	112
21	97	90	93	82	70	76	---	---	---	114	110	112
22	97	90	93	84	70	78	---	---	---	114	108	111
23	103	91	97	86	82	84	70	60	63	114	107	111
24	97	91	94	90	80	85	70	56	66	114	88	108
25	98	90	94	91	80	84	56	54	55	93	88	89
26	98	90	94	87	83	85	55	54	55	90	85	88
27	96	87	91	82	71	80	58	52	54	89	83	85
28	98	91	94	81	70	76	62	53	55	89	88	92
29	---	---	---	75	72	73	66	61	63	102	93	96
30	---	---	---	72	70	71	68	66	67	104	93	98
31	---	---	---	70	60	64	---	---	---	100	95	97
MONTH	104	87	94	111	60	86	70	40	57	121	65	90

ST. CROIX RIVER BASIN

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

SPECIFIC CONDUCTANCE (MICROMHOS/CM AT 25 DEG. C), WATER YEAR OCTOBER 1985 TO SEPTEMBER 1986

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
	JUNE			JULY			AUGUST			SEPTEMBER		
1	109	99	102	125	90	105	100	95	97	67	63	66
2	107	100	104	103	90	97	96	93	95	76	64	71
3	106	101	105	105	104	104	111	96	101	83	75	79
4	107	101	104	114	90	103	113	92	101	76	51	65
5	107	100	104	126	91	106	113	97	104	51	50	50
6	108	101	103	137	121	133	106	93	97	51	47	50
7	108	101	104	142	130	137	95	92	93	52	50	51
8	102	101	102	147	130	141	97	90	93	52	50	51
9	107	103	105	133	120	125	100	94	97	50	47	49
10	108	98	103	135	110	122	103	93	98	56	50	52
11	109	92	101	143	130	135	106	100	104	57	52	54
12	99	92	95	150	140	145	100	86	90	60	50	53
13	129	98	110	146	130	141	101	90	93	60	51	59
14	129	116	122	140	130	136	93	90	91	70	51	62
15	140	104	127	143	126	138	101	90	95	77	70	73
16	110	104	107	---	---	---	101	96	99	78	70	75
17	123	108	115	---	---	---	106	96	101	75	71	74
18	110	100	106	131	124	126	101	95	97	75	71	73
19	119	108	113	130	110	119	96	94	95	70	60	64
20	137	104	122	131	122	128	96	93	95	65	61	63
21	150	138	145	131	124	128	97	93	95	70	60	64
22	161	149	155	130	112	121	93	91	92	70	60	63
23	168	159	164	121	102	112	93	76	87	67	60	64
24	166	152	162	106	97	102	77	71	74	---	---	---
25	144	130	134	100	90	93	74	70	71	---	---	---
26	145	130	140	91	85	88	71	65	67	---	---	---
27	145	130	141	95	90	91	65	63	64	---	---	---
28	147	137	143	121	95	110	66	65	65	---	---	---
29	134	101	116	116	97	103	67	63	66	---	---	---
30	157	127	146	105	95	98	64	62	63	---	---	---
31	---	---	---	102	95	97	67	64	65	---	---	---
MONTH	168	92	120	150	85	117	113	62	89	83	47	62
PERIOD	168	40	94									

PH (STANDARD UNITS), WATER YEAR OCTOBER 1985 TO SEPTEMBER 1986

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

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

TEMPERATURE, WATER (DEG. C), WATER YEAR OCTOBER 1985 TO SEPTEMBER 1986

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
OCTOBER			NOVEMBER			DECEMBER			JANUARY			
1	19.0	18.0	18.5	6.5	5.5	6.0	---	---	---	---	---	---
2	19.0	18.0	18.5	7.5	6.5	7.0	2.5	1.0	2.0	---	---	---
3	18.5	17.0	17.5	7.5	7.0	7.0	1.5	.0	.5	---	---	---
4	17.0	16.0	16.5	7.0	6.5	7.0	.0	.0	.0	---	---	---
5	16.5	16.0	16.5	7.5	7.0	7.0	.5	.0	.0	---	---	---
6	17.5	16.5	17.0	9.0	7.5	8.0	.5	.0	.5	---	---	---
7	16.5	15.5	16.0	9.0	8.5	8.5	.5	.0	.0	---	---	---
8	15.5	15.0	15.5	8.5	7.5	8.5	1.0	.0	.5	---	---	---
9	16.0	15.5	15.5	7.5	6.5	7.0	.5	.0	.5	---	---	---
10	16.0	15.0	15.5	7.0	6.5	7.0	.5	.0	.0	---	---	---
11	15.0	12.5	14.0	7.0	5.5	6.5	.5	.0	.5	---	---	---
12	13.0	12.5	12.5	6.0	5.0	5.0	.5	.0	.5	---	---	---
13	12.5	11.5	11.5	6.5	6.0	6.5	---	---	---	---	---	---
14	12.0	12.0	12.0	6.0	5.0	5.5	---	---	---	---	---	---
15	12.0	12.0	12.0	5.0	3.5	4.5	---	---	---	---	---	---
16	12.5	11.5	12.0	3.5	3.0	3.0	---	---	---	---	---	---
17	11.0	10.0	10.5	3.5	3.0	3.5	---	---	---	---	---	---
18	10.5	9.5	10.0	3.5	3.0	3.5	---	---	---	---	---	---
19	11.0	11.0	11.0	4.0	2.5	3.0	---	---	---	---	---	---
20	11.0	9.5	10.0	4.5	5.0	4.0	---	---	---	---	---	---
21	---	---	---	4.5	3.5	4.0	---	---	---	---	---	---
22	---	---	---	3.0	2.5	2.5	---	---	---	---	---	---
23	---	---	---	2.5	2.0	2.5	---	---	---	---	---	---
24	---	---	---	2.0	1.5	2.0	---	---	---	---	---	---
25	---	---	---	1.5	1.0	1.5	---	---	---	---	---	---
26	10.0	8.5	9.0	1.5	.5	1.0	---	---	---	---	---	---
27	10.0	8.5	9.0	1.0	1.0	1.0	---	---	---	---	---	---
28	9.5	7.0	8.0	1.0	.5	1.0	---	---	---	---	---	---
29	7.0	6.0	6.5	---	---	---	---	---	---	---	---	---
30	6.0	5.5	6.0	---	---	---	---	---	---	---	---	---
31	6.5	5.5	6.0	---	---	---	---	---	---	---	---	---
MONTH	19.0	5.5	12.5	9.0	.5	5.0	2.5	.0	.5	---	---	---

TEMPERATURE, WATER (DEG. C), WATER YEAR OCTOBER 1985 TO SEPTEMBER 1986

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

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

TEMPERATURE, WATER (DEG. C), WATER YEAR OCTOBER 1985 TO SEPTEMBER 1986

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
	JUNE			JULY			AUGUST			SEPTEMBER		
1	16.5	15.5	16.0	21.5	18.5	20.0	21.0	19.5	20.5	18.0	15.5	17.0
2	16.0	14.5	15.0	21.5	18.0	19.5	21.0	20.0	20.5	18.0	16.5	17.5
3	15.5	13.5	14.5	19.5	17.5	18.5	20.5	19.0	19.5	18.0	17.5	18.0
4	16.0	14.5	15.0	20.5	18.0	19.0	20.5	19.0	20.0	18.0	17.0	17.5
5	16.0	14.5	15.5	20.5	18.5	19.5	22.0	20.0	21.0	17.5	16.5	17.0
6	16.5	15.5	16.0	19.5	18.0	19.0	22.5	20.5	21.5	17.5	16.5	17.0
7	16.5	16.0	16.0	19.5	17.5	19.0	22.5	20.5	21.5	17.0	16.5	16.5
8	16.5	15.5	16.0	21.5	17.0	19.0	21.5	20.5	21.0	16.5	15.5	16.0
9	16.5	15.5	16.0	21.5	20.5	21.0	22.5	21.0	21.5	17.0	16.0	16.0
10	16.5	15.5	16.0	21.0	19.0	20.0	23.5	22.0	22.5	17.5	16.0	17.0
11	16.5	16.0	16.5	20.0	18.5	19.0	23.5	21.0	22.0	17.0	16.0	16.5
12	16.5	16.0	16.5	20.0	18.0	19.0	22.0	20.5	21.0	17.5	16.0	16.5
13	16.5	15.5	16.0	21.0	19.0	19.5	22.5	20.5	21.5	17.5	16.0	17.0
14	18.0	15.5	16.5	21.0	17.5	19.5	23.0	21.0	22.0	17.0	15.0	15.5
15	20.0	17.5	18.5	18.5	17.0	17.5	22.5	20.5	21.5	15.5	14.0	14.5
16	20.5	19.5	20.0	---	---	---	21.5	20.0	20.5	15.0	13.5	14.0
17	20.5	19.0	19.5	---	---	---	21.0	19.5	20.0	14.5	12.0	13.5
18	19.0	18.0	18.5	21.5	19.0	21.0	21.0	20.0	20.5	14.5	12.0	13.5
19	19.5	18.0	19.0	19.5	19.0	19.0	20.5	19.5	20.0	14.5	12.0	14.0
20	19.5	19.0	19.5	21.5	20.0	21.0	20.5	19.5	20.0	14.5	13.0	14.0
21	20.5	19.5	20.0	22.5	21.5	22.0	21.5	19.5	20.5	14.5	12.0	13.5
22	21.5	20.0	21.0	22.0	21.0	21.5	21.5	20.0	20.5	14.5	12.0	13.5
23	22.0	20.5	21.5	22.0	21.5	22.0	21.0	20.0	20.0	14.0	12.0	13.0
24	22.0	20.0	21.0	23.0	21.0	22.0	20.5	18.0	18.5	---	---	---
25	20.5	17.0	19.0	24.0	22.0	23.0	17.5	17.0	17.5	---	---	---
26	18.0	17.0	17.5	24.5	22.0	23.5	19.0	16.5	17.5	---	---	---
27	18.5	17.0	17.5	24.5	22.0	23.0	18.0	17.0	17.5	---	---	---
28	19.5	17.5	18.0	22.0	21.5	21.5	17.5	16.5	17.0	---	---	---
29	21.5	19.5	20.0	22.0	21.0	21.5	16.5	15.0	16.0	---	---	---
30	21.5	19.0	20.0	22.0	20.5	21.0	17.0	15.0	16.0	---	---	---
31	---	---	---	20.0	19.5	20.0	17.5	15.5	16.5	---	---	---
MONTH	22.0	13.5	17.5	24.5	17.0	20.5	23.5	15.0	20.0	18.0	12.0	15.5
PERIOD	24.5	.0	11.5									

OXYGEN, DISSOLVED (DO), MG/L, WATER YEAR OCTOBER 1985 TO SEPTEMBER 1986

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
	OCTOBER			NOVEMBER			DECEMBER			JANUARY		
1	7.9	7.5	7.7	11.7	11.6	11.7	---	---	---	---	---	---
2	7.9	7.6	7.7	11.9	11.5	11.7	13.8	12.7	13.2	---	---	---
3	7.9	7.6	7.8	12.1	11.5	11.6	13.6	12.7	13.2	---	---	---
4	8.1	7.8	8.0	12.0	11.5	11.7	13.8	12.9	13.3	---	---	---
5	8.9	7.9	8.2	12.0	11.4	11.6	13.3	12.9	13.1	---	---	---
6	8.3	8.0	8.2	11.9	11.0	11.3	13.4	13.1	13.2	---	---	---
7	8.5	8.1	8.3	11.0	10.6	10.8	13.3	13.1	13.2	---	---	---
8	8.6	8.4	8.5	11.1	10.6	10.8	13.2	13.0	13.1	---	---	---
9	8.7	8.4	8.6	11.9	11.1	11.4	13.3	13.1	13.2	---	---	---
10	8.5	8.3	8.4	11.8	11.5	11.6	13.4	13.1	13.2	---	---	---
11	9.2	8.4	8.8	12.0	11.5	11.8	13.2	12.9	13.0	---	---	---
12	9.8	9.3	9.5	12.1	11.9	11.9	13.1	12.6	12.9	---	---	---
13	9.8	9.6	9.7	12.2	11.6	11.8	---	---	---	---	---	---
14	9.8	9.5	9.6	12.0	11.4	11.6	---	---	---	---	---	---
15	9.8	9.6	9.7	12.4	11.8	12.1	---	---	---	---	---	---
16	9.9	9.5	9.7	12.7	12.2	12.4	---	---	---	---	---	---
17	10.6	9.8	10.2	12.7	12.4	12.6	---	---	---	---	---	---
18	10.6	10.3	10.4	13.1	12.4	12.7	---	---	---	---	---	---
19	10.3	10.1	10.2	13.3	12.6	12.7	---	---	---	---	---	---
20	10.8	10.2	10.5	13.2	12.4	12.6	---	---	---	---	---	---
21	---	---	---	12.9	12.3	12.6	---	---	---	---	---	---
22	---	---	---	13.5	12.5	12.8	---	---	---	---	---	---
23	---	---	---	13.1	12.7	12.9	---	---	---	---	---	---
24	---	---	---	13.6	12.9	13.0	---	---	---	---	---	---
25	---	---	---	13.2	12.8	13.0	---	---	---	---	---	---
26	11.0	10.5	10.8	13.2	12.9	13.1	---	---	---	---	---	---
27	10.9	10.5	10.7	13.1	12.9	13.0	---	---	---	---	---	---
28	11.4	10.8	11.1	13.1	13.0	13.1	---	---	---	---	---	---
29	11.8	11.4	11.6	---	---	---	---	---	---	---	---	---
30	11.8	11.4	11.5	---	---	---	---	---	---	---	---	---
31	11.6	11.4	11.5	---	---	---	---	---	---	---	---	---
MONTH	11.8	7.5	9.5	13.6	10.6	12.1	13.8	12.6	13.2			

01021200 DENNY'S RIVER AT DENNYVILLE, ME

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

DRAINAGE AREA.--92.9 mi².

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

Water temperatures: October 1958 to September 1972.

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

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

REMARKS.--Estimated daily discharges: Nov. 26 to Dec. 24, Jan. 1-20, Jan. 23 to Feb. 8, Feb. 15, 16, 18, Feb. 28 to Mar. 1, and Mar. 6-13. Records excellent except for periods of ice effect, Dec. 11-24, and Jan. 1-20, Jan. 23 to Feb. 8, 15, 16, 18, Feb. 28 to Mar. 1 and Mar. 6-13, and period of no gage-height record, Nov. 26 to Dec. 10, which are good.

AVERAGE DISCHARGE.--31 years, 194 ft³/s, 28.36 in/yr.

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

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

Date	Time	Discharge (ft ³ /s)	Gage height (ft)	Date	Time	Discharge (ft ³ /s)	Gage height (ft)
Jan. 28	1200	*1,050	4.54	No other peak greater than base discharge.			

Minimum discharge, 42 ft³/s, Sep. 23, gage height, 0.79 ft.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1985 TO SEPTEMBER 1986
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	48	44	e49	e59	e135	e76	625	221	127	96	129	99
2	46	45	e86	e58	e120	76	530	206	145	95	107	89
3	45	44	e295	e58	e115	75	453	195	150	100	109	83
4	47	43	e245	e58	e105	75	361	174	127	97	140	80
5	50	44	e165	e57	e100	75	301	158	112	95	107	79
6	61	160	e94	e57	e99	e75	247	153	104	94	83	75
7	67	323	e74	e57	e98	e74	222	137	96	95	71	70
8	60	220	e72	e57	e96	e73	239	125	97	96	100	58
9	55	144	e67	e57	96	e73	449	119	99	93	113	53
10	54	151	e65	e56	94	e72	447	112	92	81	98	51
11	63	194	e62	e56	93	e76	338	107	118	64	85	52
12	66	154	e60	e56	91	e79	335	102	127	60	81	50
13	57	172	e58	e56	89	e83	339	94	128	59	73	51
14	57	231	e58	e56	86	88	292	89	128	61	67	49
15	64	191	e57	e56	e85	116	254	86	121	63	64	46
16	137	147	e57	e56	e84	184	225	82	117	63	69	53
17	119	175	e56	e56	82	182	202	85	115	59	92	66
18	91	314	e56	e62	e82	167	185	90	113	62	91	61
19	77	245	e55	e80	82	211	169	87	111	67	107	54
20	68	191	e55	e150	81	593	156	83	108	64	105	50
21	61	157	e54	415	80	530	149	87	107	60	91	47
22	57	124	e54	403	82	446	200	95	105	58	80	44
23	55	106	e53	e340	81	320	256	110	104	56	72	45
24	54	96	e53	e275	81	252	460	297	102	54	299	79
25	54	87	60	e225	80	213	439	452	103	54	540	158
26	52	e76	79	e195	80	206	377	310	101	52	356	156
27	50	e72	80	e430	77	416	485	206	99	68	244	113
28	48	e63	74	e975	e77	720	404	162	100	126	302	84
29	47	e56	68	e700	---	632	309	148	100	120	229	68
30	45	e53	63	e430	---	605	252	132	98	92	154	76
31	45	---	60	e225	---	670	---	125	---	106	119	---
TOTAL	1900	4122	2484	5871	2551	7533	9700	4629	3354	2410	4377	2139
MEAN	61.3	137	80.1	189	91.1	243	323	149	112	77.7	141	71.3
MAX	137	323	295	975	135	720	625	452	150	126	540	158
MIN	45	43	49	56	77	72	149	82	92	52	64	44

CAL YR 1985 TOTAL 37433 MEAN 103 MAX 1350 MIN 37
WTR YR 1986 TOTAL 51070 MEAN 140 MAX 975 MIN 43

e Estimated

PLEASANT RIVER BASIN

01022260 PLEASANT RIVER NEAR EPPING, ME

LOCATION.--Lat. $44^{\circ}41'52''$, long. $67^{\circ}47'16''$, Washington County, Hydrologic Unit 01050002, on right bank at Saco Falls, 100 ft upstream from East Base Road bridge in Columbia, 0.6 mi upstream from the junction of North Branch Pleasant River, and 1.6 mi northeast of the village of Epping.

DRAINAGE AREA.--60.6 mi².

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

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

REMARKS.--Estimated daily discharges: Oct. 16 to Dec. 10, Dec. 13 to Jan. 29 and Feb. 4 to Mar. 13. Records good except for periods of ice-effect, Dec. 13 to Jan. 29 and Feb. 4 to Mar. 13, and period of doubtful gage-height record, Oct. 16 to Dec. 10, which are fair. Several observations of water temperature and specific conductance were made during the year.

AVERAGE DISCHARGE.--6 years, 144 ft³/s, 32.27 in/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 1,100 ft³/s, Apr. 7, 1984, gage height, 10.34 ft; minimum, 17 ft³/s, Sept. 10, 1980, gage height, 4.99 ft.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 440 ft³/s, and maximum (*):

Date	Time	Discharge (ft ³ /s)	Gage height (ft)	Date	Time	Discharge (ft ³ /s)	Gage height (ft)
Jan. 29	1015	ice jam	*9.12	Mar. 21	0430	607	8.58
Jan. 30	0345	*671	8.84				

Minimum discharge 26 ft³/s, July 25-26, gage height 5.16 ft.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1985 TO SEPTEMBER 1986
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	34	e40	e86	e55	394	e68	390	242	108	43	214	100
2	31	e40	e105	e55	352	e66	375	208	111	39	226	86
3	33	e39	e170	e54	315	e66	356	184	121	53	217	77
4	34	e39	e160	e54	e285	e64	329	167	111	59	186	72
5	40	e40	e190	e54	e270	e63	298	149	99	50	171	67
6	51	e90	e150	e54	e245	e65	265	135	89	46	154	69
7	44	e155	e140	e54	e215	e66	235	131	82	54	130	79
8	39	e165	e125	e54	e195	e70	226	136	77	85	117	74
9	49	e135	e115	e54	e170	e78	244	135	76	72	147	63
10	46	e120	e110	e54	e155	e71	270	126	72	57	174	52
11	46	e145	81	e54	e145	e80	291	115	68	47	165	49
12	47	e130	76	e53	e130	e84	286	107	68	42	137	48
13	45	e150	e72	e53	e120	e81	273	101	65	39	114	51
14	57	e165	e70	e53	e110	90	262	94	70	39	95	52
15	70	e155	e69	e53	e105	118	243	88	68	44	83	47
16	e100	e140	e66	e53	e100	138	217	83	61	45	75	50
17	e110	e200	e64	e53	e94	164	192	83	56	41	93	82
18	e90	e220	e63	e53	e90	221	172	85	52	39	100	83
19	e79	e200	e62	e53	e86	259	157	83	48	42	109	70
20	e70	e180	e60	e100	e83	453	143	79	44	44	122	62
21	e62	e160	e60	e200	e80	532	131	76	42	41	113	59
22	e58	e140	e59	e235	e87	535	168	80	40	38	98	54
23	e55	e125	e58	e210	e94	405	224	102	38	35	86	50
24	e54	e115	e58	e195	e84	331	289	134	37	32	111	57
25	e54	e105	e57	e170	e80	290	330	188	35	30	181	71
26	e51	e92	e57	e165	e78	254	351	214	33	29	181	76
27	e49	e83	e57	e250	e74	263	359	200	31	57	223	71
28	e48	e76	e56	e350	e72	318	344	160	34	157	196	65
29	e45	e72	e56	e540	---	388	324	145	46	196	177	59
30	e43	e69	e56	604	---	432	285	131	49	188	152	62
31	e41	---	e55	448	---	411	---	115	---	191	120	---
TOTAL	1675	3585	2663	4487	4308	6524	8029	4076	1931	1974	4467	1957
MEAN	54.0	119	85.9	145	154	210	268	131	64.4	63.7	144	65.2
MAX	110	220	190	604	394	535	390	242	121	196	226	100
MIN	31	39	55	53	72	63	131	76	31	29	75	47
CFSM	.89	1.97	1.42	2.39	2.54	3.47	4.42	2.17	1.06	1.05	2.38	1.08
IN.	1.03	2.20	1.63	2.75	2.64	4.00	4.93	2.50	1.19	1.21	2.74	1.20

CAL YR 1985 TOTAL 34265 MEAN 93.9 MAX 699 MIN 22 CFSM 1.55 IN. 21.0
WTR YR 1986 TOTAL 45676 MEAN 125 MAX 604 MIN 29 CFSM 2.07 IN. 28.0

e Estimated

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

LOCATION.--Lat 44°36'29", long 67°56'10", Washington County, Hydrologic Unit 01050002, on left bank 800 ft upstream from railroad bridge at Cherryfield and 0.7 mi downstream from West Branch of Narraguagus River.
DRAINAGE AREA.--227 mi².

WATER-DISCHARGE RECORDS

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

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

GAGE.--Water-stage recorder. Datum of gage is 44.21 ft above National Geodetic Vertical Datum of 1929. Prior to July 1, 1948, nonrecording gage at same site and datum.

REMARKS.--Estimated daily discharges: Dec. 11 to Jan. 21, Feb. 6-21, and Feb. 26 to Mar. 13. Records good except for periods of ice effect, Dec. 11 to Jan. 21, Feb. 6-21, and Feb. 26 to Mar. 13, which are fair.

AVERAGE DISCHARGE.--38 years, 502 ft³/s, 30.03 in/yr.

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

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

Date	Time	Discharge (ft ³ /s)	Gage height (ft)	Date	Time	Discharge (ft ³ /s)	Gage height (ft)
Jan. 28	2000	*2,830	*12.43	Mar. 29	0200	2,210	11.79
Mar. 20	1300	2,780	12.38				

Minimum discharge, 67 ft³/s, Jul. 26, gage height, 7.41 ft.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1985 TO SEPTEMBER 1986
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	152	116	239	e190	1140	e210	1850	715	332	119	1170	349
2	136	113	498	e190	871	e200	1640	650	367	114	939	296
3	118	110	894	e185	735	e200	1410	596	393	168	753	258
4	116	107	688	e180	635	e200	1180	533	355	178	896	228
5	124	112	615	e180	556	e200	1000	485	315	153	740	205
6	183	506	503	e180	e495	e200	858	457	281	140	529	216
7	257	752	392	e175	e480	e200	796	454	250	241	395	243
8	249	652	367	e175	e440	e200	905	462	235	408	429	230
9	215	533	334	e175	e410	e200	1240	452	232	321	509	208
10	176	499	282	e170	e380	e205	1180	411	209	239	427	188
11	175	588	e265	e170	e350	e220	1080	377	196	183	406	174
12	163	527	e255	e170	e330	e260	1070	347	200	148	398	173
13	153	525	e245	e170	e315	e255	1020	317	195	127	353	187
14	177	582	e240	e165	e300	288	922	293	202	120	289	184
15	221	779	e230	e165	e285	512	814	273	188	123	242	166
16	395	700	e225	e160	e280	830	716	256	173	124	220	190
17	423	690	e220	e160	e270	795	641	255	164	117	243	282
18	406	864	e215	e160	e265	764	582	258	154	117	237	268
19	347	763	e215	e160	e260	984	530	248	140	117	314	234
20	293	665	e210	e400	e255	2520	485	236	129	115	411	205
21	249	588	e210	e1000	e245	2100	454	226	122	108	413	183
22	215	520	e205	1070	283	1660	1020	257	113	96	364	164
23	193	469	e200	1120	287	1330	1300	333	104	86	307	154
24	175	424	e200	988	277	1080	1260	583	99	78	590	182
25	172	385	e200	817	259	891	1430	778	94	72	985	210
26	165	342	e220	697	e255	859	1360	685	87	71	856	233
27	152	315	e205	1370	e235	1290	1320	567	83	198	665	236
28	143	296	e200	2650	e220	2080	1190	489	93	693	663	215
29	133	278	e200	2710	---	2150	1010	506	123	660	611	195
30	124	251	e195	2340	---	2040	844	430	132	481	524	194
31	119	---	e190	1610	---	1950	---	362	---	1020	425	---
TOTAL	6319	14051	9357	20052	11113	26873	31107	13291	5760	6935	16303	6450
MEAN	204	468	302	647	397	867	1037	429	192	224	526	215
MAX	423	864	894	2710	1140	2520	1850	778	393	1020	1170	349
MIN	116	107	190	160	220	200	454	226	83	71	220	154
CFSM	.90	2.06	1.33	2.85	1.75	3.82	4.57	1.89	.85	.99	2.32	.95
IN.	1.04	2.30	1.53	3.29	1.82	4.40	5.10	2.18	.94	1.14	2.67	1.06

CAL YR 1985 TOTAL 113299 MEAN 310 MAX 3490 MIN 12 CFSM 1.37 IN. 18.6
WTR YR 1986 TOTAL 167611 MEAN 459 MAX 2710 MIN 71 CFSM 2.02 IN. 27.5

e Estimated

01022500 NARRAGUAGUS RIVER AT CHERRYFIELD, ME--Continued

WATER-QUALITY RECORDS

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

PERIOD OF DAILY RECORD.--

SPECIFIC CONDUCTANCE: January 1978 to September 1981.

WATER TEMPERATURES: January 1978 to September 1981.

EXTREMES FOR PERIOD OF DAILY RECORD.--

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

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

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1985 TO SEPTEMBER 1986

DATE	TIME	STREAM- FLOW, INSTAN- TANEOUS (CFS)	SPE- CIFIC CON- DUCT- ANCE (US/CM)	PH (STAND- ARD UNITS)	TEMPER- ATURE AIR (DEG C)	TEMPER- ATURE WATER (DEG C)	TUR- BID- ITY (NTU)	BARO- METRIC PRES- SURE (MM HG)	OXYGEN, DIS- SOLVED OF (MG/L)	OXYGEN, (PER- CENT SATUR- ATION)	COLI- FORM, FECAL, 0.7 UM-MF (COLS./ 100 ML)	STREP- TOCOCCI FECAL, KF AGAR (COLS. PER 100 ML)
NOV												
13...	1300	520	38	6.00	11.0	5.5	1.5	758	12.3	98	K 10	K 16
JAN												
07...	1330	E 175	36	6.40	-10.0	0.0	--	757	13.2	91	K 8	K 2
FEB												
07...	1330	E 480	37	6.30	3.0	0.0	1.3	762	14.2	97	K 11	--
APR												
16...	1700	697	23	6.60	23.0	9.0	1.8	758	11.5	100	K 3	K 1
JUN												
24...	1830	96	36	7.30	22.0	21.5	3.0	751	8.4	97	31	52
AUG												
07...	0830	403	29	6.40	28.0	20.5	2.0	764	8.5	94	--	42

DATE	HARD- NESS (MG/L AS CACO3)	CALCIUM DIS- SOLVED (MG/L AS CA)	MAGNE- SIUM, DIS- SOLVED (MG/L AS MG)	SODIUM, DIS- SOLVED (MG/L AS NA)	POTAS- SIUM, DIS- SOLVED (MG/L AS K)	ALKA- LITY FIELD (MG/L AS CACO3)	SULFATE DIS- SOLVED (MG/L AS SO4)	CHLO- RIDE, DIS- SOLVED (MG/L AS CL)	FLUO- RIDE, DIS- SOLVED (MG/L AS F)	SILICA, DIS- SOLVED (MG/L AS SIO2)	SOLIDS, RESIDUE AT 180 DEG. C DIS- SOLVED (MG/L)	SOLIDS, SUM OF CONSTI- TUENTS, DIS- SOLVED (MG/L)
NOV												
13...	10	2.7	0.83	3.3	0.70	5.0	3.7	5.0	<0.10	6.8	26	27
JAN												
07...	9	2.6	0.70	3.0	0.50	L 6.0	10	4.3	0.10	8.2	33	33
FEB												
07...	7	2.0	0.60	2.6	0.70	L 2.0	10	4.3	<0.10	6.2	24	28
APR												
16...	6	1.7	0.47	2.2	0.50	L 4.0	9.5	2.7	<0.10	5.0	29	25
JUN												
24...	8	2.4	0.60	3.3	0.70	L 9.0	9.0	2.4	0.20	3.8	22	28
AUG												
07...	9	2.4	0.63	2.8	0.60	L 6.0	12	3.7	0.10	5.2	46	31

E Estimated discharge.

K Results based on colony count outside the acceptable range (non-ideal colony count).

L Lab alkalinity value reported.

PENOBSCOT RIVER BASIN

01030000 PENOBSCOT RIVER NEAR MATTAWAMKEAG, ME

LOCATION.--Lat 45°34'01", long 68°24'10", Penobscot County, Hydrologic Unit 01020005, on left bank 1800 ft downstream from Mattaseunk Dam and powerhouse, 1.3 mi upstream from Mattaseunk Brook, and 4.5 mi upstream from Mattawamkeag.

DRAINAGE AREA.--3,356 mi², including 249 mi² drained by Chamberlain Lake through Telos Canal.

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

REVISED RECORDS.--WSP 2101: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 191.72 ft above National Geodetic Vertical Datum of 1929.

REMARKS.--Estimated daily discharges: Dec. 5 to Jan. 25. Records fair, including period of ice effect, Dec. 5 to Jan. 25. Flow regulated by many reservoirs above station (Reservoirs in Penobscot River basin). Considerable diurnal fluctuation caused by powerplant just upstream. Several observations of water temperature and specific conductance were made during the year.

AVERAGE DISCHARGE.--46 years, 5819 ft³/s.

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

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 23,500 ft³/s, Sept. 25, gage height, 8.50 ft (from peak-stage indicator), caused by unusual regulation; minimum daily, 2,200 ft³/s, Dec. 25.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1985 TO SEPTEMBER 1986
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	2950	2730	3690	e3500	8040	4560	13600	6660	7360	3910	4740	4650
2	2720	2670	4740	e3300	7220	4750	14800	6540	7080	3270	4700	5250
3	3540	2950	4650	e3400	6850	4770	15600	5770	6550	2670	4560	5810
4	3610	2680	3620	e3400	6400	4670	14500	5780	5870	2820	4190	6330
5	3850	2670	e3400	e3450	5630	4710	12600	5250	5240	3440	4000	5510
6	5110	3810	e3750	e3450	5720	4620	11200	5350	5140	4210	3430	5770
7	5040	8700	e3320	e3350	5890	4600	9080	5450	5390	4010	3240	5840
8	3360	6830	e3350	e3300	5790	4550	8600	6000	5230	4270	4230	5330
9	3400	5520	e3100	e3300	5580	4600	8300	4900	4970	3760	7790	5920
10	2680	5140	e2950	e3400	5530	4810	7970	4330	4870	3190	9130	5360
11	2850	4020	e3000	e3450	5490	4960	8090	5130	4850	3740	8810	5830
12	2700	4350	e3000	e3450	5360	4160	8630	4660	4520	3700	8110	6160
13	3040	3880	e3050	e3450	5230	4580	8180	5130	4940	3770	7010	6360
14	2790	5450	e3000	e3450	5270	4980	8220	4210	4530	3960	6170	6300
15	2800	5330	e3050	e3450	5180	4890	8110	4760	4830	4350	5250	5250
16	3200	4370	e3250	e3400	5160	4200	8010	4230	4860	2950	4860	5530
17	3860	4040	e3600	e3400	4950	5190	7590	4160	4140	3890	4900	5530
18	3110	4380	e3600	e3400	4980	4620	7600	4330	4350	3910	4310	5140
19	2950	4500	e3200	e3550	4890	5270	7510	4200	4610	4210	4400	5040
20	3020	4160	e2950	e4000	4680	5440	7460	4610	3440	4120	4880	5210
21	2920	4860	e2800	e4000	4830	5470	6630	4930	4210	3720	5100	5600
22	2970	4690	e3350	e4250	4750	5730	8030	4530	4330	3400	5150	5990
23	2950	4510	e3300	e4050	4880	5860	9450	6420	3870	3520	4680	5100
24	2640	4090	e2700	e4050	4400	5470	8610	10900	4070	3400	5470	5340
25	2620	3660	e2200	e4500	4970	5160	8930	11700	4130	3660	6440	5040
26	2860	4030	e2900	5340	4640	5440	9070	11400	4100	3960	6210	4340
27	2700	3390	e3300	7720	4240	6560	9250	9660	4140	3840	6900	4840
28	2880	3470	e3100	15300	4700	6570	8220	8540	4400	3610	6520	4440
29	2760	3400	e2950	13500	---	6430	7750	7720	4090	3560	5840	4550
30	2700	3490	e3300	10200	---	8210	6770	7550	3870	3220	6320	4960
31	2750	---	e3600	9200	---	11400	---	7520	---	3950	4390	---
TOTAL	97330	127770	101770	150960	151250	167230	278360	192320	143980	113990	171730	162320
MEAN	3140	4259	3283	4870	5402	5395	9279	6204	4799	3677	5540	5411
MAX	5110	8700	4740	15300	8040	11400	15600	11700	7360	4350	9130	6360
MIN	2620	2670	2200	3300	4240	4160	6630	4160	3440	2670	3240	4340

CAL YR 1985 TOTAL 1489480 MEAN 4081 MAX 8840 MIN 2200
WTR YR 1986 TOTAL 1859010 MEAN 5093 MAX 15600 MIN 2200

e Estimated

01030500 MATTAWAMKEAG RIVER NEAR MATTAWAMKEAG, ME

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

DRAINAGE AREA.--1,418 mi².

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

REVISED RECORDS.--WSP 1501: Drainage area.

GAGE--Water-stage recorder. Elevation of gage is 230 ft above National Geodetic Vertical Datum of 1929, from topographic map.

REMARKS.--Estimated daily discharges: Oct. 11-16, Dec. 15 to Jan. 28, Jan. 30-31, Feb. 20 to Mar. 14, Mar. 20-25 and Mar. 29-31. Records fair except for periods of ice-effect, Dec. 15 to Jan. 28, Jan. 20-31, Feb. 20 to Mar. 14, Mar. 20-25 and Mar. 29-31, which are poor. Several observations of water temperature and specific conductance were made during the year.

AVERAGE DISCHARGE.--52 years, 2,517 ft³/s, 24.10 in/yr.

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

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 14,600 ft³/s, Apr. 4, gage height, 9.70 ft; minimum discharge, 239 ft³/s, Oct. 5, gage height, 0.41 ft.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1985 TO SEPTEMBER 1986
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	308	328	1400	e450	7430	e720	10900	6050	3670	369	801	1480
2	306	308	1460	e440	6980	e690	12600	5340	3530	341	1470	1270
3	284	292	1780	e430	6380	e645	13800	4810	3660	313	1710	1110
4	259	279	1840	e420	5620	e605	14500	4310	3410	287	1650	983
5	239	271	2120	e410	4850	e590	14200	3860	2950	274	1470	879
6	240	383	2040	e400	4190	e570	13200	3470	2550	272	1250	827
7	255	1510	1770	e390	3610	e535	12000	3160	2200	286	1070	773
8	283	3020	1550	e380	3180	e480	10400	2940	1950	321	1050	708
9	312	3440	1380	e370	2850	e510	8830	2740	2080	393	1380	654
10	318	3360	1210	e360	2580	e560	7560	2560	2210	420	3050	618
11	e325	3210	1120	e355	2360	e550	6760	2360	2030	378	4400	622
12	e320	2980	1070	e350	2100	e535	6460	2120	1740	333	4760	802
13	e340	2880	967	e345	1920	e545	6670	1890	1510	292	4410	1170
14	e380	3310	914	e335	1740	e570	7120	1720	1350	272	3700	1480
15	e470	3710	e840	e330	1620	611	7510	1570	1230	271	2910	1500
16	e575	3640	e815	e325	1500	654	7710	1420	1100	290	2340	1340
17	945	3360	e780	e320	1380	712	7770	1330	1050	353	1930	1140
18	1100	3270	e740	e315	1250	750	7780	1280	1020	411	1660	998
19	1060	3270	e710	e310	1190	817	7640	1230	928	570	1460	884
20	973	3210	e670	e350	e1070	e1020	7310	1140	828	716	1310	799
21	864	3270	e650	e400	e1000	e1270	6800	1090	726	670	1190	715
22	767	3350	e610	e480	e960	e1490	6890	1150	650	590	1100	638
23	679	3250	e590	e580	e930	e1700	8120	1470	561	489	1020	596
24	604	3000	e570	e740	e900	e1850	9530	2800	501	390	1030	650
25	559	2700	e550	e950	e870	e1890	10200	5060	434	326	1650	857
26	531	2190	e530	e1300	e830	1920	10200	6940	394	290	2580	1060
27	500	1990	e510	e2000	e790	2240	9630	7690	360	276	2800	1100
28	445	1910	e500	e4100	e760	2750	8780	7310	361	271	2650	1040
29	415	1680	e485	6010	---	e3650	7860	6240	377	311	2410	950
30	381	1500	e475	e6890	---	e4920	6910	5070	384	331	2100	933
31	349	---	e460	e7590	---	e7630	---	4180	---	397	1760	---
TOTAL	15386	70871	31106	38425	70840	43979	275640	104300	45744	11503	64071	28576
MEAN	496	2362	1003	1240	2530	1419	9188	3365	1525	371	2067	953
MAX	1100	3710	2120	7590	7430	7630	14500	7690	3670	716	4760	1500
MIN	239	271	460	310	760	480	6460	1090	360	271	801	596
CFSM	.35	1.67	.71	.87	1.78	1.00	6.48	2.37	1.08	.26	1.46	.67
IN.	.40	1.86	.82	1.01	1.86	1.15	7.23	2.74	1.20	.30	1.68	.75

CAL YR 1985 TOTAL 539524 MEAN 1478 MAX 6070 MIN 81 CFSM 1.04 IN. 14.2
WTR YR 1986 TOTAL 800441 MEAN 2193 MAX 14500 MIN 239 CFSM 1.55 IN. 21.0

e Estimated

01031500 PISCATAQUIS RIVER NEAR DOVER-FOXCROFT, ME

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

DRAINAGE AREA.--298 mi².

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

REVISED RECORDS.--WSP 279: 1902. WSP 1201: 1903-17, 1918-30(M), 1934-35.

WSP 1301: 1909(M). WDR ME-81-1: Drainage area.

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

REMARKS.--Estimated daily discharges: Nov. 27 to Dec. 2, Dec. 6 to Jan. 28, and Feb. 16 to Mar. 14. Records good except for period of ice effect, Nov. 27 to Dec. 2, Dec. 6 to Jan. 28, and Feb. 16 to Mar. 14, which are fair.

Low flow may be regulated by operation of mills above station. Several observations of water temperature and specific conductance were made during the year.

AVERAGE DISCHARGE.--84 years, 606 ft³/s, 27.62 in/yr.

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

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

Date	Time	Discharge (ft ³ /s)	Gage height (ft)	Date	Time	Discharge (ft ³ /s)	Gage height (ft)
Nov. 7	0700	5,910	8.27	Mar. 31	2400	5,310	7.81
Jan. 28	unknown	*8,860	a*10.33				

a From peak-stage indicator

Minimum discharge, 48 ft³/s July 26, gage height, 1.80 ft.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1985 TO SEPTEMBER 1986
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	376	189	e290	e190	1850	e215	4970	652	529	172	1180	176
2	293	183	e450	e190	1480	e210	4700	648	716	134	746	153
3	249	177	1090	e185	1210	e210	3990	558	660	127	585	138
4	220	170	702	e185	956	e205	3010	486	506	149	442	138
5	272	177	493	e185	794	e195	2370	451	411	142	323	131
6	1730	1350	e400	e185	836	e195	1880	476	353	110	246	182
7	1020	4960	e335	e185	833	e195	1650	585	305	305	202	230
8	666	2560	e305	e180	851	e190	1590	1620	316	559	544	176
9	498	1520	e285	e180	780	e190	1420	1610	501	356	722	140
10	415	1130	e265	e180	670	e190	1570	1090	388	221	860	122
11	364	1040	e250	e180	554	e195	1660	837	290	148	568	149
12	316	879	e240	e180	503	e200	1760	692	248	109	491	404
13	299	868	e235	e180	456	e210	1560	592	223	92	356	454
14	501	1010	e230	e180	426	e235	1490	512	225	103	280	342
15	566	924	e220	e175	386	319	1550	447	206	171	233	247
16	1190	746	e215	e175	e365	410	1570	399	177	161	207	205
17	891	692	e210	e175	e340	453	1550	389	186	125	363	180
18	661	734	e210	e175	e320	441	1480	386	179	110	679	153
19	533	769	e210	e170	e310	579	1320	360	148	114	1370	136
20	458	833	e205	e200	e300	1020	1140	533	125	117	800	127
21	390	1010	e205	e350	e290	1180	1040	603	108	112	538	127
22	346	851	e205	e1100	e280	911	1510	1090	95	92	484	113
23	317	726	e200	e880	e265	709	1460	2040	89	75	419	122
24	295	634	e200	e650	e255	606	1120	3240	87	61	434	555
25	288	567	e200	e575	e245	575	988	3340	83	54	516	635
26	275	482	e195	e640	e235	501	1110	2020	88	52	434	564
27	253	e400	e195	e3800	e230	756	1210	1320	88	127	286	403
28	237	e355	e195	e7700	e225	1490	1040	974	259	297	346	307
29	216	e325	e190	4810	---	1950	865	806	287	268	296	255
30	203	e300	e190	3260	---	2950	740	683	217	215	242	262
31	197	---	e190	2440	---	4530	---	575	---	804	205	---
TOTAL	14535	26561	9005	29840	16245	22215	53313	30014	8093	5682	15397	7326
MEAN	469	885	290	963	580	717	1777	968	270	183	497	244
MAX	1730	4960	1090	7700	1850	4530	4970	3340	716	804	1370	635
MIN	197	170	190	170	225	190	740	360	83	52	202	113
CFSM	1.57	2.97	.97	3.23	1.95	2.40	5.96	3.25	.91	.62	1.67	.82
IN.	1.81	3.32	1.12	3.72	2.03	2.77	6.66	3.75	1.01	.71	1.92	.91

CAL YR 1985 TOTAL 182299 MEAN 499 MAX 4960 MIN 35 CFSM 1.68 IN. 22.8

WTR YR 1986 TOTAL 238226 MEAN 653 MAX 7700 MIN 52 CFSM 2.19 IN. 29.7

e Estimated

01033000 SEBEC RIVER AT SEBEC, ME

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

DRAINAGE AREA.--326 mi² (844 km²).

PERIOD OF RECORD.--October 1924 to September 1982, October 1984 to current year.

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

GAGE.--Water-stage recorder. Datum of gage is 296.29 ft above National Geodetic Vertical Datum of 1929. Prior to June 22, 1942, at site on opposite bank, 60 ft downstream at same datum.

REMARKS.--Estimated daily discharges: Jan. 29 to Mar. 5. Records good except for period of no gage-height record Jan. 29 to Mar. 5, which is fair. Considerable regulation by Sebec Lake on Sebec River, 1,000 feet upstream, capacity 2,511,000,000 ft³/s. Several observations of water temperature and specific conductance were made during the year.

AVERAGE DISCHARGE.--60 years, 631 ft³/s.

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

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 3,910 ft³/s, Jan. 29, gage height, 7.25 ft, minimum daily, 22 ft³/s, Oct. 28-30.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1985 TO SEPTEMBER 1986
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	349	38	468	161	e2600	e790	2170	1340	846	366	889	405
2	359	32	576	349	e2150	e800	3290	1310	1070	363	1150	435
3	513	34	464	349	e740	e780	3470	866	735	140	852	90
4	646	34	355	152	e780	e770	3470	379	432	69	419	318
5	527	35	358	86	e545	e760	3410	379	388	70	439	392
6	530	553	358	87	e850	520	3250	366	392	71	569	542
7	537	1210	356	88	e800	483	2750	373	399	1200	578	647
8	520	1210	512	89	e850	762	2490	376	668	1720	1210	920
9	585	1180	595	339	e850	762	2250	372	521	1670	1600	936
10	693	1170	574	589	e780	762	2070	374	393	1260	1620	367
11	731	1190	571	587	e850	761	2060	377	384	629	1430	171
12	624	1180	580	589	e745	762	2090	373	384	500	580	627
13	612	1200	573	236	e475	755	2080	467	384	701	481	1010
14	677	1060	567	40	e490	656	2050	592	384	660	522	1150
15	672	1050	570	42	e850	582	2030	425	384	442	805	469
16	364	1200	637	48	e850	622	2020	368	303	422	456	592
17	53	1220	719	50	e850	472	2000	372	378	369	580	996
18	53	1220	597	50	e355	560	1980	373	271	280	1380	590
19	81	1160	525	306	e27	575	1950	374	61	426	754	305
20	60	1220	394	647	e27	654	1900	373	60	423	437	430
21	65	1210	394	619	e195	849	1850	369	60	421	566	622
22	57	1070	557	617	e850	849	1880	680	61	398	857	1010
23	53	604	1090	615	e850	874	1690	1230	62	388	1140	1090
24	53	521	47	599	e850	915	1540	1790	62	212	1000	1010
25	48	473	51	882	e850	655	1500	2030	64	213	771	1030
26	24	435	52	1150	e840	512	1490	1880	63	234	492	1120
27	23	482	53	1460	e825	484	1470	1170	63	401	404	1080
28	22	354	54	3030	e800	583	1460	1570	67	424	579	1130
29	22	126	54	e3800	---	664	1420	1300	289	426	641	1100
30	22	45	54	e3600	---	1270	1370	1190	368	411	565	1060
31	31	---	54	e3050	---	1640	---	1020	---	823	407	---
TOTAL	9606	22516	12809	24306	22524	22883	64450	24458	9996	16132	24173	21644
MEAN	310	751	413	784	804	738	2148	789	333	520	780	721
MAX	731	1220	1090	3800	2600	1640	3470	2030	1070	1720	1620	1150
MIN	22	32	47	40	27	472	1370	366	60	69	404	90

CAL YR 1985 TOTAL 195233 MEAN 535 MAX 2150 MIN 22
WTR YR 1986 TOTAL 275497 MEAN 755 MAX 3800 MIN 22

e Estimated

PENOBSCOT RIVER BASIN

01034500 PENOBSCOT RIVER AT WEST ENFIELD, ME

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

DRAINAGE AREA.--6,671 mi², including 249 mi² drained by Chamberlain Lake through Telos Canal.

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

Water-quality records: Water years 1966 to 1978.

Specific conductance: July 1973 to September 1978.

Water temperatures: July 1966 to September 1978.

REVISED RECORDS.--WSP 279: 1902-10. WSP 1171: 1940. WSP 1231: 1902-13. WDR ME-81-1: Drainage area.

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

REMARKS.--Estimated daily discharges: Dec. 6 to Mar. 27. Records good except for period of ice effect, Dec. 6 to Mar. 27, which is fair. Flow regulated by many reservoirs above station (Reservoirs in Penobscot River basin). Several observations of water temperature and specific conductance were made during the year.

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

AVERAGE DISCHARGE.--84 years (water years 1903 to current year), 11,942 ft³/s.

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

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 49,600 ft³/s, Apr. 3, gage height, 12.59 ft; maximum gage height, 15.16 ft, Jan. 28, (backwater from ice); minimum discharge, 3,120 ft³/s, Oct. 28, gage height, 1.75 ft.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1985 TO SEPTEMBER 1986
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	5880	3510	6640	e5300	e27900	e7200	44300	20400	15700	6110	11300	8500
2	4980	3540	7550	e5100	e23800	e7000	48200	18800	15900	6010	12600	7950
3	4350	3380	10000	e5100	e19600	e6900	48700	17500	15900	5270	12000	8600
4	5220	3400	9530	e5000	e17500	e6800	46500	16000	14500	4410	11100	8700
5	5500	3500	7920	e4800	e16000	e6700	42300	13700	12700	4200	9750	8640
6	6410	4500	e7500	e4900	e14500	e7300	38100	13600	11100	5050	8520	8380
7	9530	15100	e7000	e4900	e13500	e6600	34300	12700	10600	7310	7350	8780
8	7740	21100	e6700	e4800	e12500	e6100	30100	13300	10400	11800	7610	8840
9	6230	16100	e6400	e4900	e11600	e6200	28400	15000	10600	10400	11700	8460
10	5730	13500	e6100	e5300	e10900	e6300	26500	12000	10400	8680	16100	8820
11	5150	12700	e6000	e5200	e10200	e6300	25300	11600	9870	7200	19200	8230
12	4960	11700	e5700	e5400	e9800	e6400	26400	10700	9100	6610	18800	8880
13	4870	11500	e5600	e4900	e9400	e6500	26200	10300	8490	6500	16900	10400
14	5020	12100	e5500	e4700	e9000	e6600	25900	10300	8590	6330	14600	11200
15	5170	13500	e5300	e4800	e8700	e7000	25500	8790	8040	6980	12500	10900
16	7090	13000	e5200	e4700	e8400	e7400	25300	8840	7840	6510	11100	9660
17	7730	11800	e5800	e4700	e8100	e7800	25100	8260	7700	5550	10000	9180
18	7160	11800	e6400	e4700	e7900	e8300	24700	8290	6840	6230	9290	8700
19	6370	12300	e6500	e4900	e7800	e9000	24100	8150	7300	6890	10100	8590
20	5420	12300	e5400	e6000	e7700	e9800	23100	8020	6690	7330	10200	8060
21	5760	12900	e5500	e6500	e7600	e11800	21900	8470	5770	7020	9610	7720
22	4860	13100	e5600	e7400	e7800	e13100	23200	8820	6100	6510	9340	8080
23	4980	12300	e5900	e8400	e8300	e13300	28300	11400	6180	6020	9160	8520
24	4930	11000	e6000	e9600	e8200	e12800	28700	19500	5680	5710	9610	8570
25	4260	10100	e5300	e10100	e8000	e12200	28300	29100	5500	5160	11400	10200
26	3980	8160	e4800	e10500	e7800	e12000	28800	30400	5640	5340	12700	10500
27	4070	8530	e5500	e16300	e7700	e13200	29500	27100	5730	6540	13000	9790
28	3710	7670	e5300	e29600	e7400	18000	28000	23600	6000	6810	13000	9380
29	3820	7220	e5000	e48400	---	21600	25100	21200	6420	6760	12400	8910
30	3820	6830	e4800	e38600	---	27200	22700	18500	6340	6470	11200	8770
31	3610	---	e5200	e32400	---	35100	---	16900	---	7120	10500	---
TOTAL	168310	308140	191640	317900	317600	332500	903500	461240	267620	204830	362640	269910
MEAN	5429	10270	6182	10250	11340	10730	30120	14880	8921	6607	11700	8997
MAX	9530	21100	10000	48400	27900	35100	48700	30400	15900	11800	19200	11200
MIN	3610	3380	4800	4700	7400	6100	21900	8020	5500	4200	7350	7720
CFSM	.81	1.54	.93	1.54	1.70	1.61	4.51	2.23	1.34	.99	1.75	1.35
IN.	.94	1.72	1.07	1.77	1.77	1.85	5.04	2.57	1.49	1.14	2.02	1.51

CAL YR 1985 TOTAL 2866770 MEAN 7854 MAX 21100 MIN 3380 CFSM 1.18 IN. 16.0
WTR YR 1986 TOTAL 4105830 MEAN 11250 MAX 48700 MIN 3380 CFSM 1.69 IN. 22.9

e Estimated

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

LOCATION.--Lat 44°49'33", long 68°41'48", Penobscot County, Hydrologic Unit 01020005, on left bank 0.4 mi downstream from Veazie Dam at Eddington, on Monument Drive, 750 ft north of intersection with State Highway 178.

DRAINAGE AREA.--7,764 mi², including 249 mi² drained by Chamberlain Lake through Telos Canal.

WATER-DISCHARGE RECORDS

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

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

GAGE.--Water-stage recorder. Datum of gage is 7.20 ft, National Geodetic Vertical Datum of 1929.

REMARKS.--Estimated daily discharges: Oct. 1-18, and Dec. 14 to Jan. 20. Records good except for period of ice effect, Dec. 14 to Jan. 20, and period of no gage-height record, Oct. 1-18, which are fair. Flow regulated by many reservoirs above station (Reservoirs in Penobscot River Basin).

AVERAGE DISCHARGE.--7 years, 14,770 ft³/s.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 136,000 ft³/s, June 4, 1984, gage height, 20.60 ft; minimum daily discharge, 3,500 ft³/s, Mar. 14, 1980.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 53,700 ft³/s, Apr. 3, gage height, 13.68 ft; minimum daily discharge, 4,470 ft³/s, Nov. 4.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1985 TO SEPTEMBER 1986
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	e7750	4760	8270	e6000	31700	8610	47200	23600	18200	6220	10500	10400
2	e6600	4660	8050	e5700	27000	8810	51700	22800	17400	6310	13800	9280
3	e5650	4670	8930	e6500	24900	8730	52900	21700	18100	6260	14100	8780
4	e5900	4470	8850	e5000	23700	9050	51600	19600	17200	6320	13800	9310
5	e6800	4590	9650	e5550	22900	8690	47800	15800	14700	6290	12900	9410
6	e7000	5250	8650	e5700	20000	8810	42100	15200	12800	5110	10700	9570
7	e9200	8890	9530	e5600	17900	8400	37300	14600	11900	6300	9730	9600
8	e10000	20000	8690	e6100	16400	7710	32400	14200	11600	10500	8550	9830
9	e6500	18400	8300	e6500	15100	8900	30000	15800	10700	13200	8750	9650
10	e6100	15600	8080	e6600	14000	9040	27400	15600	11100	11600	13000	9390
11	e5850	14000	5940	e6500	12700	7910	26200	12900	10600	9110	18200	9310
12	e5700	13300	6530	e6600	12700	8200	26200	12600	10200	7450	21500	9040
13	e5700	12900	6500	e6600	12400	8720	26400	11500	9160	6710	18100	10700
14	e5700	13100	e6600	e6900	11900	8240	26000	11600	8390	6300	15800	11900
15	e5700	14300	e5800	e5600	11600	8530	25800	10800	8570	6310	14600	12300
16	e6700	14300	e6300	e5400	11800	9230	25500	9460	8130	6850	12500	11400
17	e8650	13500	e6800	e5450	11600	9380	25200	8910	8020	6630	11800	11300
18	e9250	13100	e7500	e5500	10400	10000	24700	8670	7500	5870	10900	9960
19	8660	13400	e7800	e5600	10000	11000	24600	9190	6680	6430	11600	9440
20	7950	13700	e6250	e6100	9820	12800	24100	8210	7290	7710	12200	9090
21	7080	13800	e6050	7600	9050	14300	23400	8690	6460	9590	11600	8690
22	7090	14200	e5800	9220	9010	16200	23600	9300	5850	7060	10600	8350
23	6070	13900	e6400	9850	9370	17400	26000	9990	6250	6580	10500	8740
24	6340	12800	e6900	10900	9470	15900	27700	17300	6230	6360	10500	9260
25	6050	12300	e7300	11000	9370	14000	27300	25400	5940	5880	12200	10100
26	5410	11100	e5500	10400	9570	14600	27400	28200	5880	5300	13200	11700
27	5250	9780	e5000	16300	9740	16300	28400	26700	5920	6200	14200	11400
28	5250	9530	e6000	31000	9090	20000	27700	24900	5890	7440	14200	10400
29	4890	8810	e5900	47000	---	23500	26200	23500	6140	9950	14100	10200
30	5110	8120	e5650	46300	---	25800	24800	22100	6540	10500	14100	9650
31	4970	---	e5700	38700	---	35000	---	19600	---	7910	13300	---
TOTAL	204870	341230	219220	357770	403190	393760	937600	498420	289340	230250	401530	298150
MEAN	6609	11370	7072	11540	14400	12700	31250	16080	9645	7427	12950	9938
MAX	10000	20000	9650	47000	31700	35000	52900	28200	18200	13200	21500	12300
MIN	4890	4470	5000	5000	9010	7710	23400	8210	5850	5110	8550	8350

CAL YR 1985 TOTAL 3333190 MEAN 9132 MAX 26200 MIN 4320
WTR YR 1986 TOTAL 4575330 MEAN 12540 MAX 52900 MIN 4470

e Estimated

01036390 PENOBSCOT RIVER AT EDDINGTON, ME--Continued

WATER-QUALITY RECORDS

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

PERIOD OF DAILY RECORD.--

SPECIFIC CONDUCTANCE: April 1979 to September 1984.

pH: April 1979 to September 1984.

WATER TEMPERATURES: April 1979 to September 1984.

DISSOLVED OXYGEN: April 1979 to September 1984.

INSTRUMENTATION.--Water-quality monitor since April 1979. Continuous flow through system. Submersible pump located 150 ft streamward from left bank.

REMARKS.--Beginning in water year 1985, monitor not operated during winter period, November 1, to April 30. Other interruptions in the record were due to malfunctions of the monitor or pumping system.

EXTREMES FOR PERIOD OF DAILY RECORD.--

SPECIFIC CONDUCTANCE: Maximum, 92 microsiemens, Mar. 17, 1980; minimum, 25 microsiemens, Apr. 19, 1983.

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

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

DISSOLVED OXYGEN: Maximum recorded, 15.6 mg/L, Feb. 28, 1984, minimum, 6.5 mg/L July 17, 18, 1980.

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1985 TO SEPTEMBER 1986

DATE	TIME	STREAM- FLOW, INSTAN- TANEOUS (CFS)	SPE- CIFIC CON- DUCT- ANCE (US/CM)	PH (STAND- ARD UNITS)	TEMPER- ATURE AIR (DEG C)	TEMPER- ATURE WATER (DEG C)	TUR- BID- ITY (NTU)	BARO- METRIC PRES- SURE (MM OF HG)	OXYGEN, DIS- SOLVED (MG/L)	OXYGEN, DIS- SOLVED SATUR- ATION	COLI- FORM, FECAL, 0.7 UM-MF (COLS./ 100 ML)	STREP- TOCOCCI FECAL, KF AGAR (COLS. PER 100 ML)
OCT												
17...	1015	8650	60	7.40	7.5	10.5	1.0	774	11.6	102	K 3400	74
APR												
17...	1200	25200	40	6.80	--	7.5	1.5	762	12.7	106	K 80	K 9
MAY												
22...	1245	9290	49	7.20	16.0	17.0	1.6	760	9.6	100	220	44
AUG												
12...	1200	21000	48	7.20	25.0	22.0	5.1	766	8.9	101	190	30

DATE	HARD- NESS (MG/L AS CACO3)	CALCIUM DIS- SOLVED (MG/L AS CA)	MAGNE- SIUM, DIS- SOLVED (MG/L AS MG)	SODIUM, DIS- SOLVED (MG/L AS NA)	POTAS- SIUM, DIS- SOLVED (MG/L AS K)	ALKA- LINITY FIELD (MG/L AS CACO3)	SULFATE DIS- SOLVED (MG/L AS SO4)	CHLO- RIDE, DIS- SOLVED (MG/L AS CL)	FLUO- RIDE, DIS- SOLVED (MG/L AS F)	SILICA, DIS- SOLVED (MG/L AS SiO2)	SOLIDS, RESIDUE AT 180 DEG. C DIS- SOLVED (MG/L)	SOLIDS, SUM OF CONSTI- TUENTS, DIS- SOLVED (MG/L)
OCT												
17...	20	5.9	1.3	4.6	0.60	14	6.4	6.0	<0.10	3.5	50	37
APR												
17...	14	4.1	0.80	1.9	0.60	L 10	11	2.4	<0.10	4.0	38	31
MAY												
22...	17	5.0	1.0	3.2	0.70	L 12	7.9	4.3	<0.10	2.3	39	32
AUG												
12...	16	4.9	0.95	2.4	1.0	L 13	10	2.7	<0.10	3.7	45	34

E Estimated discharge.

K Results based on colony count outside the acceptable range (non-ideal colony count).

L Lab alkalinity value reported.

01036390 PENOBSCOT RIVER AT EDDINGTON, ME--Continued

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1985 TO SEPTEMBER 1986

DATE	NITRO- GEN, NO2+NO3 DIS- SOLVED (MG/L AS N)	NITRO- GEN, AMMONIA DIS- SOLVED (MG/L AS N)	NITRO- GEN, AMMONIA DIS- SOLVED (MG/L AS NH4)	NITRO- GEN,AM- MONIA + ORGANIC TOTAL (MG/L AS N)	PHOS- PHORUS, TOTAL (MG/L AS P)	PHOS- PHORUS, DIS- SOLVED (MG/L AS P)	PHOS- PHORUS, ORTHO, DIS- SOLVED (MG/L AS P)	ALUM- INUM, DIS- SOLVED (UG/L AS AL)	ARSENIC DIS- SOLVED (UG/L AS AS)	BARIUM, DIS- SOLVED (UG/L AS BA)
OCT 17...	<0.100	<0.010	0.01	0.50	0.040	0.030	<0.010	50	<1	7
APR 17...	<0.100	0.050	0.06	0.40	0.020	0.010	<0.010	80	<1	5
MAY 22...	<0.100	0.060	0.08	0.40	0.030	0.020	<0.010	50	<1	8
AUG 12...	<0.100	0.040	0.05	0.60	0.030	0.010	0.010	--	--	--

DATE	BERYL- LIUM, DIS- SOLVED (UG/L AS BE)	CADMIUM DIS- SOLVED (UG/L AS CD)	CHRO- MIUM, DIS- SOLVED (UG/L AS CR)	COBALT, DIS- SOLVED (UG/L AS CO)	COPPER, DIS- SOLVED (UG/L AS CU)	IRON, DIS- SOLVED (UG/L AS FE)	LEAD, DIS- SOLVED (UG/L AS PB)	LITHIUM DIS- SOLVED (UG/L AS LI)	MANGA- NESE, DIS- SOLVED (UG/L AS MN)	MERCURY DIS- SOLVED (UG/L AS HG)
OCT 17...	3	2	1	<3	2	150	<1	<4	16	<0.1
APR 17...	<0.5	5	<1	<3	11	85	2	<4	12	<0.1
MAY 22...	<0.5	1	<1	<3	6	73	4	<4	15	<0.1
AUG 12...	--	--	--	--	--	--	--	--	--	--

DATE	MOLYB- DENUM, DIS- SOLVED (UG/L AS MO)	NICKEL, DIS- SOLVED (UG/L AS NI)	SELE- NIUM, DIS- SOLVED (UG/L AS SE)	SILVER, DIS- SOLVED (UG/L AS AG)	STRON- TIUM, DIS- SOLVED (UG/L AS SR)	VANA- DIUM, DIS- SOLVED (UG/L AS V)	ZINC, DIS- SOLVED (UG/L AS ZN)	SEDI- MENT, SUS- PENDEDED (MG/L)	SEDI- MENT, DIS- CHARGE, SUS- PENDEDED (T/DAY)	SED. SUSP. SIEVE DIAM. % FINER THAN .062 MM
OCT 17...	<10	<1	<1	<1	29	<6	4	3	70	91
APR 17...	<10	4	<1	<1	20	<6	36	341	23200	100
MAY 22...	<10	1	<1	<1	25	<6	6	163	4090	100
AUG 12...	--	--	--	--	--	--	--	12	680	73

RADIOCHEMICAL ANALYSES, WATER YEAR OCTOBER 1985 TO SEPTEMBER 1986

DATE	GROSS ALPHA, DIS- SOLVED (UG/L AS U-NAT)	GROSS ALPHA, SUSP. TOTAL (UG/L AS U-NAT)	GROSS BETA, DIS- SOLVED (PCI/L AS CS-137)	GROSS BETA, SUSP. TOTAL (PCI/L AS CS-137)	GROSS BETA, DIS- SOLVED (PCI/L AS SR/ YT-90)	GROSS BETA, SUSP. TOTAL (PCI/L AS SR/ YT-90)	RADIUM 226, DIS- SOLVED, RADON METHOD (PCI/L)	URANIUM DIS- SOLVED, EXTRAC- TION (UG/L)
OCT 17...	--	--	--	--	--	--	--	--
APR 17...	<0.4	0.6	0.8	<0.7	0.8	<0.6	0.03	<0.04
MAY 22...	--	--	--	--	--	--	--	--
AUG 12...	<0.4	0.7	1.1	<0.4	1.0	<0.4	0.03	0.05

PENOBSCOT RIVER BASIN

01036390 PENOBSCOT RIVER AT EDDINGTON, ME--Continued

SPECIFIC CONDUCTANCE (MICROMHOS/CM AT 25 DEG. C), WATER YEAR OCTOBER 1985 TO SEPTEMBER 1986

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
	OCTOBER			NOVEMBER			DECEMBER			JANUARY		
1	61	58	59									
2	62	60	61									
3	63	61	62									
4	62	58	61									
5	62	60	61									
6	62	51	57									
7	53	50	52									
8	---	---	---									
9	---	---	---									
10	---	---	---									
11	---	---	---									
12	---	---	---									
13	---	---	---									
14	---	---	---									
15	---	---	---									
16	---	---	---									
17	---	---	---									
18	---	---	---									
19	---	---	---									
20	---	---	---									
21	---	---	---									
22	---	---	---									
23	---	---	---									
24	---	---	---									
25	---	---	---									
26	---	---	---									
27	---	---	---									
28	---	---	---									
29	---	---	---									
30	---	---	---									
31	---	---	---									
MONTH	63	50	59									

SPECIFIC CONDUCTANCE (MICROMHOS/CM AT 25 DEG. C), WATER YEAR OCTOBER 1985 TO SEPTEMBER 1986

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

PH (STANDARD UNITS), WATER YEAR OCTOBER 1985 TO SEPTEMBER 1986

[illegible]

01036390 PENOBSCOT RIVER AT EDDINGTON, ME--Continued

TEMPERATURE, WATER (DEG. C), WATER YEAR OCTOBER 1985 TO SEPTEMBER 1986												
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
	OCTOBER			NOVEMBER			DECEMBER			JANUARY		
1	18.0	17.0	17.5									
2	17.0	17.0	17.0									
3	17.0	16.0	16.5									
4	16.5	16.0	16.0									
5	16.0	15.0	15.5									
6	16.0	15.0	15.0									
7	15.5	14.0	14.5									
8	---	---	---									
9	---	---	---									
10	---	---	---									
11	---	---	---									
12	---	---	---									
13	---	---	---									
14	---	---	---									
15	---	---	---									
16	---	---	---									
17	---	---	---									
18	---	---	---									
19	---	---	---									
20	---	---	---									
21	---	---	---									
22	---	---	---									
23	---	---	---									
24	---	---	---									
25	---	---	---									
26	---	---	---									
27	---	---	---									
28	---	---	---									
29	---	---	---									
30	---	---	---									
31	---	---	---									
MONTH	18.0	14.0	16.0									

TEMPERATURE, WATER (DEG. C), WATER YEAR OCTOBER 1985 TO SEPTEMBER 1986												
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
	FEBRUARY			MARCH			APRIL			MAY		
1							---	---	---	14.0	13.0	13.0
2							---	---	---	14.0	13.0	13.5
3							---	---	---	13.0	11.0	12.0
4							---	---	---	11.0	10.0	10.5
5							---	---	---	10.0	9.0	9.5
6							---	---	---	9.5	9.0	9.0
7							---	---	---	9.5	9.0	9.0
8							---	---	---	9.5	9.0	9.0
9							---	---	---	10.5	8.0	9.0
10							---	---	---	11.5	10.0	10.5
11							---	---	---	12.5	11.0	11.5
12							---	---	---	12.0	11.0	11.5
13							---	---	---	13.0	11.0	12.0
14							---	---	---	14.5	12.0	13.0
15							---	---	---	15.5	13.0	14.0
16							---	---	---	16.0	14.0	15.0
17							---	---	---	15.5	15.0	15.0
18							8.0	7.0	7.5	17.5	15.0	16.0
19							8.5	7.5	8.0	19.5	16.0	17.5
20							9.0	8.0	8.5	18.5	18.0	18.0
21							9.0	8.0	9.0	18.0	17.0	17.5
22							9.5	9.0	9.0	17.5	17.0	17.0
23							9.0	8.0	8.5	17.0	16.0	16.0
24							8.0	7.0	7.5	16.0	15.0	15.5
25							8.0	7.0	7.5	15.0	14.0	14.5
26							8.5	7.0	7.5	15.0	14.0	14.5
27							10.0	8.0	9.0	16.0	14.0	15.0
28							11.0	9.5	10.5	16.5	15.0	15.5
29							13.0	11.0	11.5	16.5	16.0	16.0
30							13.0	12.0	13.0	17.5	16.0	16.5
31							---	---	---	18.5	17.0	17.5
MONTH							13.0	7.0	9.0	19.5	8.0	13.5

Reservoirs in Penobscot River Basin

01027000 CHESUNCOOK, RIPOGENUS, AND CARIBOU LAKES AND MOOSE POND in West Branch Penobscot River basin are controlled by Ripogenus Dam, in T. 3, R. 11, Piscataquis County, Maine, 36 mi upstream from Millinocket and 42 mi northeast of Greenville, present dam completed in 1917, used for power; usable capacity of reservoir, 30,000,000,000 ft³. Records furnished by Great Northern Paper Co.

01027000 AMBAJEJUS, PEMADUMCOOK, NORTH TWIN, SOUTH TWIN, AND ELBOW LAKES in West Branch Penobscot River basin are controlled by North Twin Dam, Penobscot County, 3 mi upstream from Millinocket, Maine, used for power; usable capacity of reservoir, 15,000,000,000 ft³. Records furnished by Great Northern Paper Co.

01028500 CHAMBERLAIN AND TELOS LAKES AND ROUND POND in East Branch Penobscot River basin are controlled by dams in outlets of Chamberlain and Telos Lakes, although regulation is at Telos Dam, in T. 6, R. 11, Piscataquis County, Maine. Telos Dam rebuilt during 1941, used for power; usable capacity, 5,050,000,000 ft³ between gage height 2.0 ft and 11.0 ft. Records furnished by Bangor Hydroelectric Co.

01029000 SECOND AND GRAND LAKES in East Branch Penobscot River basin are controlled by dam rebuilt in 1942 at outlet of Grand Lake, in T. 6, R. 8, Penobscot County, Maine, used for power; usable capacity, 1,785,000,000 ft³ between elevations 643.0 ft and 655.0 ft. Records furnished by Bangor Hydroelectric Co.

01032500 SEBEC LAKE on Sebec River, Piscataquis County, at Sebec, Maine, used for power; usable capacity, 2,511,000,000 ft³ between elevations 316.1 ft and 325.1 ft. Records furnished by Bangor Hydroelectric Co.

MONTHEND CONTENTS, IN MILLIONS OF CUBIC FEET, WATER YEAR OCTOBER 1985 TO SEPTEMBER 1986

DATE	CHESUNCOOK, RIPOGENUS, CARIBOU, AMBAJEJUS PEMADUMCOOK, NORTH TWIN, SOUTH TWIN, AND ELBOW LAKES, AND MOOSE POND*	CHAMBERLAIN, TELOS, SECOND, AND GRAND LAKES, AND ROUND POND	SEBEC LAKE
Sept. 30, 1985.....	21,681	2,360	1,202
Oct. 31.....	20,359	1,826	1,474
Nov. 30.....	24,444	2,988	1,808
Dec. 31.....	21,658	3,039	2,072
Jan. 31, 1986.....	20,332	3,635	1,749
Feb. 28.....	20,578	3,009	1,665
Mar. 31.....	16,445	1,537	1,529
Apr. 30.....	39,242	5,216	1,866
May 31.....	43,557	6,103	1,984
June 30.....	39,933	5,889	2,013
July 31.....	39,778	5,769	2,042
Aug. 31.....	46,671	5,813	1,229
Sept. 30.....	44,124	4,105	1,121

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

SHEEPSCOT RIVER BASIN

75

01038000 SHEEPSCOT RIVER AT NORTH WHITEFIELD, ME

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

DRAINAGE AREA.--145 mi².

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

Specific conductance: July 1974 to September 1976.

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

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

GAGE.--Water-stage recorder. Datum of gage is 101.05 ft above National Geodetic Vertical Datum of 1929.

REMARKS.--Estimated daily discharges: Dec. 15, 18-22, 26, 27, 29-31, Jan. 3-30, Feb. 4, 6-17, 20, 23, Feb. 26 to Mar. 1, Mar. 8-10. Records good except for periods of ice effect, Dec. 15, 18-22, 26, 27, 29-31, Jan. 3-9, Feb. 4, 6-17, 20, 23, Feb. 26 to Mar. 1, Mar. 8-10, and period of no gage-height record, Jan. 10-30, which are fair. Some regulation at low flow by sawmill at North Whitefield. Several observations of water temperature and specific conductance were made during the year.

AVERAGE DISCHARGE.--48 years, 249 ft³/s, 23.32 in/yr.

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

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

Date	Time	Discharge (ft ³ /s)	Gage height (ft)	Date	Time	Discharge (ft ³ /s)	Gage height (ft)
Jan. 29	Unknown	*2,780	a*7.80	Mar. 28	0600	1,190	5.31
Mar. 20	0400	1,580	5.89				

a From peak-stage and water.

Minimum discharge, 15 ft³/s, Oct. 3, gage height, 1.81 ft.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1985 TO SEPTEMBER 1986
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	18	25	121	69	981	e140	988	445	391	58	67	45
2	16	25	200	70	782	139	885	422	411	62	66	42
3	15	24	307	e68	628	121	770	364	391	96	66	41
4	17	22	269	e75	e515	114	641	308	330	89	77	38
5	29	28	262	e77	448	113	554	286	293	79	68	37
6	104	271	240	e83	e395	111	480	277	264	74	59	56
7	74	290	217	e96	e360	114	529	291	235	74	56	62
8	51	189	189	e100	e320	e110	624	515	217	70	59	54
9	41	150	174	e89	e270	e105	647	488	199	65	63	47
10	36	154	159	e88	e255	e105	584	434	174	60	64	43
11	33	192	149	e86	e230	105	550	405	161	56	65	41
12	30	181	143	e85	e210	107	514	375	161	53	66	37
13	30	172	137	e84	e195	105	468	335	149	52	62	34
14	33	175	140	e83	e175	111	427	299	143	54	55	32
15	44	256	e130	e82	e165	289	389	263	129	54	50	30
16	84	236	129	e82	e150	471	359	229	116	50	52	33
17	65	251	124	e80	e145	478	337	219	118	48	46	36
18	51	351	e120	e80	139	555	308	203	113	44	53	37
19	46	324	e110	e80	134	973	277	186	100	45	75	33
20	45	305	e100	e450	e130	1480	247	171	93	47	76	31
21	43	289	e94	e700	133	1240	224	161	85	44	62	30
22	38	266	e91	e800	187	1150	347	173	76	41	56	29
23	35	249	91	e720	e205	1000	318	266	70	38	53	30
24	34	232	91	e670	196	882	304	680	66	36	61	33
25	33	213	90	e630	183	750	380	890	61	33	99	40
26	32	177	e91	e600	e175	660	575	783	56	33	74	36
27	31	160	e83	e1600	e160	841	644	710	56	46	69	33
28	29	149	83	e2600	e150	1170	594	630	60	58	67	31
29	29	140	e77	e2100	---	1130	540	568	62	49	59	31
30	27	129	e75	e1750	---	1120	490	492	68	49	51	33
31	25	---	e68	1330	---	1080	---	438	---	68	47	---
TOTAL	1218	5625	4354	15507	8016	16869	14994	12306	4848	1725	1943	1135
MEAN	39.3	187	140	500	286	544	500	397	162	55.6	62.7	37.8
MAX	104	351	307	2600	981	1480	988	890	411	96	99	62
MIN	15	22	68	68	130	105	224	161	56	33	46	29
CFSM	.27	1.29	.97	3.45	1.97	3.75	3.45	2.74	1.11	.38	.43	.26
IN.	.31	1.44	1.12	3.98	2.06	4.33	3.85	3.16	1.24	.44	.50	.29

CAL YR 1985 TOTAL 48390 MEAN 133 MAX 1140 MIN 10 CFSM .91 IN. 12.4

WTR YR 1986 TOTAL 88540 MEAN 243 MAX 2600 MIN 15 CFSM 1.67 IN. 22.7

e Estimated

01040500 MOOSEHEAD LAKE AT EAST OUTLET, ME

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

DRAINAGE AREA.--1,266 mi².

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

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

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 gage height 7.0 ft. Remaining wooden section rebuilt of concrete in 1955-56. Lake outlet dredged in 1948 to permit drawing level down to gage height 10.0 ft at a faster rate than formerly. Usable capacity, 23,730,000,000 ft³ between gage heights 10.0 ft and 17.5 ft. Water is used primarily for power. Some water was diverted through gates in dam at West Outlet; monthly mean diversion, in cubic feet per second, during water year 1986 is given below:

October	67	February	75	June	77
November	71	March	72	July	76
December	76	April	74	August	77
January	76	May	79	September	70

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

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

EXTREMES FOR CURRENT YEAR.--Maximum gage height observed, 17.60 ft, May 9; minimum observed, 14.27 ft, Oct. 15.

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

14.0	12,530	17.0	22,110
15.0	15,700	18.0	25,380
16.0	18,900		

GAGE HEIGHT (FEET ABOVE DATUM), WATER YEAR OCTOBER 1985 TO SEPTEMBER 1986
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	15.14	14.55	16.60	16.53	17.06	16.23	15.64	17.21	17.39	16.44	16.97	16.75
2	15.08	14.55	16.60	16.50	17.10	16.18	15.85	17.22	17.42	16.42	16.98	16.68
3	14.95	14.60	16.64	16.49	17.16	16.08	15.99	17.30	17.33	16.41	17.04	16.62
4	14.88	14.65	16.65	16.60	17.16	15.98	16.13	17.38	17.23	16.40	17.05	16.50
5	14.80	14.72	16.68	16.60	17.23	15.92	16.20	17.38	17.20	16.40	17.06	16.40
6	14.76	14.84	16.68	16.60	17.30	15.87	16.39	17.42	17.16	16.41	17.04	16.38
7	14.70	15.03	16.70	16.62	17.28	15.86	16.48	17.44	17.08	16.68	17.02	16.33
8	14.69	15.16	16.73	16.62	17.28	15.80	16.56	17.50	16.98	16.84	17.03	16.26
9	14.61	15.23	16.74	16.56	17.31	15.71	16.68	17.60	16.96	16.88	17.07	16.16
10	14.55	15.35	16.74	16.53	17.31	15.65	16.78	17.56	16.88	16.90	17.13	16.08
11	14.50	15.42	16.75	16.52	17.29	15.61	16.86	17.59	16.82	16.92	17.14	16.00
12	14.41	15.50	16.79	16.49	17.28	15.57	16.95	17.58	16.84	16.95	17.14	15.98
13	14.34	15.62	16.79	16.44	17.28	15.51	17.02	17.55	16.84	16.95	17.20	15.93
14	14.29	15.69	16.79	16.40	17.24	15.46	17.08	17.48	16.80	16.95	17.20	15.86
15	14.27	15.74	16.79	16.40	17.20	15.53	17.12	17.44	16.76	16.98	17.18	15.74
16	14.30	15.80	16.79	16.34	17.12	15.44	17.19	17.38	16.72	17.00	17.17	15.65
17	14.34	15.85	16.79	16.28	17.10	15.35	17.28	17.39	16.70	17.03	17.20	15.57
18	14.38	15.97	16.77	16.27	17.05	15.29	17.36	17.33	16.68	17.03	17.20	15.47
19	14.44	16.05	16.77	16.22	16.98	15.24	17.39	17.28	16.65	17.07	17.22	15.40
20	14.46	16.07	16.75	16.18	16.92	15.20	17.42	17.40	16.57	17.07	17.30	15.32
21	14.46	16.14	16.71	16.22	16.82	15.18	17.45	17.40	16.57	17.07	17.28	15.24
22	14.46	16.20	16.68	16.20	16.80	15.18	17.45	17.38	16.53	17.07	17.32	15.16
23	14.47	16.28	16.66	16.20	16.74	15.18	17.40	17.40	16.45	17.06	17.24	15.08
24	14.52	16.33	16.65	16.22	16.64	15.13	17.40	17.50	16.42	17.02	17.17	15.12
25	14.52	16.38	16.65	16.23	16.56	15.13	17.28	17.57	16.40	16.98	17.15	15.12
26	14.52	16.42	16.65	16.26	16.44	15.13	17.30	17.54	16.39	16.97	17.14	15.12
27	14.54	16.47	16.64	16.40	16.40	15.21	17.30	17.52	16.37	16.97	17.10	15.12
28	14.54	16.50	16.63	16.68	16.31	15.19	17.30	17.50	16.43	16.96	17.08	15.03
29	14.54	16.56	16.62	16.80	---	15.20	17.20	17.48	16.44	16.95	16.96	14.95
30	14.55	16.56	16.58	16.90	---	15.28	17.21	17.45	16.44	16.95	16.88	14.93
31	14.55	---	16.56	16.98	---	15.45	---	17.42	---	16.95	16.80	---
MAX	15.14	16.56	16.79	16.98	17.31	16.23	17.45	17.60	17.42	17.07	17.32	16.75
MIN	14.27	14.55	16.56	16.18	16.31	15.13	15.64	17.21	16.37	16.40	16.80	14.93
*	14,275	20,698	20,698	22,046	19,892	17,140	22,792	23,466	20,308	21,950	21,470	15,483
#	-1,873	+6,423	0	+1,348	-2,154	-2,752	+5,652	+ 674	-3,158	+1,642	-480	-5,987

CAL YR 1985.....# +7,218

WTR YR 1986.....# - 665

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

Change in contents, in millions of cubic feet

01042500 KENNEBEC RIVER AT THE FORKS, ME

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

DRAINAGE AREA.--1,590 mi².

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

REVISED RECORDS.--WSP 1231: 1902-04, 1906-08, 1912, 1914, 1919-20(M), 1923(M), 1926(M), 1928-29(M), 1936(M), 1938(M). WSP 1301: 1928-35 (adjusted monthly runoff). WDR ME-82-1: Drainage area.

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

REMARKS.--Estimated daily discharges: Jan. 6 - 10. Records excellent except for period of no gage-height record, Jan. 6 - 10, which are good. Flow regulated by Moosehead Lake (station 01040500), Brassua Lake, and Moxie, Indian, and First Roach Ponds (Reservoirs in Kennebec River Basin). Several observations of water temperature and specific conductance were made during the year.

AVERAGE DISCHARGE.--85 years, 2,621 ft³/s.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 30,300 ft³/s, June 1, 1984, gage height, 13.78 ft; minimum, 85 ft³/s, Sept. 3, 1953, gage height, 1.02 ft.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 9,130 ft³/s, July 8, gage height, 6.44 ft; minimum daily, 254 ft³/s, July 13.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1985 TO SEPTEMBER 1986
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	3440	1820	472	2700	2330	3860	3350	2330	5470	1150	832	2920
2	4440	913	1880	3230	1670	1760	3640	1760	5420	1320	962	4030
3	4320	806	1420	3450	2110	3580	3290	1730	5240	1550	566	4700
4	3740	2040	2210	3330	3130	3600	2790	738	5240	1170	1530	5510
5	3350	1640	2480	451	2400	4090	2260	1940	5100	1170	1780	5410
6	3240	2010	2430	e4700	1810	4040	1690	2440	4980	255	1870	3940
7	3590	1960	1360	e4400	1680	3910	1530	2650	5000	1630	2210	360
8	4110	2380	1060	e4100	873	2650	1570	2470	4850	2460	2250	3350
9	4000	2190	2430	e3700	735	1750	1910	4360	4730	1700	1560	4320
10	3870	1480	3000	e3100	1500	3780	1850	5290	4570	1650	737	4930
11	3530	1040	2820	1800	1460	4180	1870	5210	3280	1340	2280	5050
12	3600	2190	3150	1000	3490	4450	3190	5380	2720	1220	2470	4550
13	3120	1820	2940	3630	2200	4260	848	5150	3120	245	2990	4120
14	4230	3060	2030	4210	2460	4030	3140	5180	1870	1550	3290	2880
15	3440	1030	449	4460	2330	3150	2290	5700	1260	1630	3260	4300
16	2010	784	3290	4150	1360	2670	1090	4990	2650	1600	2840	4320
17	1380	746	3590	2840	3150	3270	1390	4810	2750	1700	312	4080
18	1270	1570	3770	2450	3270	3690	3290	5010	2700	1620	3280	4080
19	1420	1120	3540	1710	3480	3780	2420	4870	2690	968	3800	4250
20	856	3590	2740	3710	3960	3280	3620	4820	2160	405	3570	3410
21	2430	1150	1700	2850	3860	3410	3640	5330	1320	1590	3730	593
22	2570	1070	815	1460	3810	2860	4310	5090	1340	1650	3850	4190
23	2180	732	2420	1330	4320	2320	5290	6230	2690	1620	3240	3780
24	1750	664	3060	1890	4140	2850	5630	7100	2320	1660	1920	4510
25	1860	2040	2690	1910	4160	2840	6230	8460	2150	1570	3870	3940
26	1240	2440	3100	2110	4050	2820	6170	8050	1690	1100	3770	3480
27	774	2440	2940	1820	4000	2460	5890	7670	1920	625	3790	3080
28	3080	1450	2040	3800	3830	2130	6140	6470	805	1790	4320	1660
29	2580	1860	815	3340	---	905	5220	5460	359	2030	3960	3920
30	2550	516	3630	3220	---	2310	2940	5530	1140	2140	3930	4660
31	2480	---	3690	2630	---	3670	---	5460	---	812	2280	---
TOTAL	86450	48551	73961	89481	77568	98355	98488	147678	91534	42920	81049	114323
MEAN	2789	1618	2386	2886	2770	3173	3283	4764	3051	1385	2614	3811
MAX	4440	3590	3770	4700	4320	4450	6230	8460	5470	2460	4320	5510
MIN	774	516	449	451	735	905	848	738	359	245	312	360

CAL YR 1985 TOTAL 759494 MEAN 2081 MAX 9200 MIN 280
WTR YR 1986 TOTAL 1050360 MEAN 2878 MAX 8460 MIN 245

e Estimated

01046500 KENNEBEC RIVER AT BINGHAM, ME

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

DRAINAGE AREA.--2,715 mi².

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

Water-quality records: Water years 1966-78.

Specific conductance: October 1975 to September 1978.

Water temperatures: October 1975 to September 1978.

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

GAGE.--Water-stage recorder. Datum of gage is 330.20 ft above National Geodetic Vertical Datum of 1929. June 1907 to June 1910, nonrecording gage on highway bridge at different datum.

REMARKS.--Estimated daily discharges: Nov. 12 to Jan. 26 and Sept. 5-30. Records good except for periods of doubtful gage-height record, Nov. 12 to Jan. 26 and Sept. 5-30, which are fair. Flow regulated by Moosehead Lake (station 01040500), Brassua and Flagstaff Lakes, First Roach, Indian, Moxie, and Wyman Ponds (Reservoirs in Kennebec River Basin). Considerable diurnal fluctuation caused by powerplant above station. Several observations of water temperature and specific conductance were made during the year.

AVERAGE DISCHARGE.--58 years (water years 1908-09, 1931 to current year), 4,463 ft³/s.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 65,200 ft³/s, June 1, 1984, gage height, 15.61 ft; minimum daily, 110 ft³/s, Dec. 25, 1947.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 17,500 ft³/s, Jan. 28, gage height, 10.54 ft; minimum daily, 2,090 ft³/s, Sept. 8.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1985 TO SEPTEMBER 1986
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	3790	4310	e4040	e4230	4880	5410	11900	5190	7600	2590	2100	4620
2	4150	4150	e3780	e4110	4670	5580	11400	5100	7520	2590	2560	4660
3	4320	4160	e3200	e4100	4490	5650	10200	4950	7370	2550	3110	4420
4	4200	4140	e3660	e4020	4620	6170	8420	5040	7060	2670	2360	4970
5	4330	4090	e3970	e4080	4240	6210	5640	4790	6990	2700	2560	e4750
6	4290	3660	e3610	e4270	4540	6230	5170	4560	6990	2610	2820	e4700
7	4480	6820	e3780	e4250	4210	6310	4930	4760	6770	2600	3030	e3460
8	5370	7160	e3920	e4250	3490	6440	5080	6980	6610	3070	3230	e2090
9	5310	5400	e3960	e4150	3360	6200	5020	7470	6620	2650	3150	e4350
10	5450	4110	e3970	e4170	3360	6320	5020	7610	6270	2600	3170	e4540
11	5400	3590	e3940	e4000	2750	5960	5060	7120	4890	2740	3080	e4560
12	5030	e3250	e4000	e4100	2710	6120	5060	7170	4490	2760	3060	e4630
13	4840	e3810	e4080	e4100	2390	6120	5010	7270	4200	2750	3190	e4650
14	4640	e3840	e3930	e4000	3410	6250	4680	6570	3750	2740	3280	e4740
15	4010	e3540	e3230	e4250	4360	6280	4580	6580	3590	2680	3330	e4790
16	3850	e3260	e3820	e4190	4640	6300	4300	6580	3720	2720	3600	e4700
17	4130	e3460	e4150	e4190	4580	6210	5250	6900	3630	2690	3610	e4650
18	4050	e3530	e3840	e4040	4480	6330	6060	6970	3760	2880	3830	e4620
19	3640	e3300	e4330	e3970	4650	6290	6240	7360	3680	2570	4120	e4210
20	3740	e3630	e4240	e4010	4900	6260	6450	6780	3580	2750	3910	e4060
21	3520	e3800	e4140	e3730	4880	6280	6950	7770	3290	2550	3900	e4260
22	3820	e4070	e4160	e3580	5300	5670	7150	9010	3200	2620	3940	e4780
23	3900	e2990	e4180	e3500	5250	5640	7970	11300	3250	2690	3910	e4890
24	3940	e3330	e4180	e3500	5110	5650	10900	13300	3280	2740	4080	e4330
25	3440	e3210	e4010	e3590	5400	5500	10200	14600	3150	2730	4020	e4180
26	3650	e3630	e4390	e4130	5930	5100	9310	12200	3130	2880	4000	e3730
27	3880	e3690	e4030	13100	5770	4750	10700	11100	3060	2750	4430	e3790
28	4520	e3740	e4220	14400	5980	4860	10700	10100	2940	2310	4690	e4410
29	3940	e3760	e4180	8380	---	4990	9870	8560	2740	2470	4560	e4760
30	4110	e4000	e4180	7550	---	5840	6130	8500	2650	2560	4610	e4830
31	4120	---	e4180	5350	---	11700	---	8060	---	2340	4530	---
TOTAL	131860	119430	123300	153290	124350	188620	215350	240250	139780	82550	109770	132130
MEAN	4254	3981	3977	4945	4441	6085	7178	7750	4659	2663	3541	4404
MAX	5450	7160	4390	14400	5980	11700	11900	14600	7600	3070	4690	4970
MIN	3440	2990	3200	3500	2390	4750	4300	4560	2650	2310	2100	2090

CAL YR 1985 TOTAL 1283170 MEAN 3516 MAX 13000 MIN 725
WTR YR 1986 TOTAL 1760680 MEAN 4824 MAX 14600 MIN 2090

e Estimated

01047000 CARRABASSETT RIVER NEAR NORTH ANSON, ME

LOCATION.--Lat 44°52'09", long 69°57'20", Somerset County, Hydrologic Unit 01030003, on left bank 3.4 mi upstream from Mill Stream and North Anson.

DRAINAGE AREA.--353 mi².

PERIOD OF RECORD.--November and December 1901, June 1902 to May 1907, August 1925 to current year. Monthly discharge only for some periods, published in WSP 1301.

REVISED RECORDS.--WSP 1231: 1904-07, 1928(M), 1932(M), 1936(M), 1938(M), 1944(M), 1950(M). WDR ME-81-1: Drainage area.

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

REMARKS.--Estimated daily discharges: Dec. 4 to Jan. 28 and Feb. 4 to Mar. 31. Records good except for periods of ice effect, Dec. 4 to Jan. 26 and Feb. 4 to Mar. 31, and period of no gage-height record Jan. 27 and 28, which are fair. Several observations of water temperature and specific conductance were made during the year.

AVERAGE DISCHARGE.--65 years (water years 1902-06, 1926 to current year), 720 ft³/s, 27.70 in/yr.

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

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

Date	Time	Discharge (ft ³ /s)	Gage height (ft)	Date	Time	Discharge (ft ³ /s)	Gage height (ft)
Nov. 7	unknown	7,940	10.09	Mar. 31	2245	6,790	9.38
Jan. 27	unknown	*22,100	*17.36				

Minimum discharge, 64 ft³/s, July 26, gage height, 2.59 ft.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1985 TO SEPTEMBER 1986
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	377	223	368	e210	1470	e315	5280	796	551	162	903	201
2	311	219	612	e200	1180	e305	4940	739	854	150	1470	190
3	272	216	e1000	e200	1020	e300	3960	657	688	189	1040	185
4	242	214	e2100	e195	e980	e300	2970	557	531	205	701	209
5	324	225	e1100	e190	e880	e295	2350	519	449	196	467	201
6	3460	3300	e1000	e185	e820	e290	1770	598	399	181	329	359
7	1700	5520	e730	e180	e780	e280	1490	869	352	176	278	355
8	1030	2670	e600	e175	e720	e270	1530	2350	358	173	392	252
9	626	1550	e530	e175	e700	e270	1470	2050	455	157	1030	213
10	467	1130	e465	e170	e660	e265	1560	1470	353	142	720	194
11	345	1080	e420	e165	e630	e265	1780	1040	307	134	756	213
12	299	750	e380	e160	e600	e265	1740	823	318	129	585	415
13	293	755	e360	e155	e580	e275	1500	706	296	99	359	371
14	472	1060	e345	e155	e550	e290	1360	596	298	124	347	281
15	585	908	e325	e155	e525	e520	1480	530	277	197	306	222
16	1710	708	e315	e150	e500	e860	1570	485	248	160	248	226
17	962	669	e310	e150	e470	e1150	1590	492	277	123	272	261
18	706	715	e300	e150	e450	e1100	1540	491	307	112	217	235
19	567	782	e295	e250	e430	e1350	1390	461	250	116	278	208
20	417	929	e285	e500	e420	e2500	1220	1600	224	142	332	200
21	370	1320	e280	e790	e410	e1900	1190	1330	208	141	256	182
22	342	991	e270	e1000	e385	e1500	1610	1700	195	129	236	202
23	323	861	e260	e760	e370	e1220	1490	2170	188	80	228	225
24	308	737	e255	e620	e355	e1100	1140	2490	191	71	330	721
25	301	563	e250	e570	e345	e1000	1080	3340	171	67	407	605
26	294	471	e245	e1000	e345	e940	1610	1970	158	69	298	484
27	277	465	e240	e6000	e330	e1850	1780	1190	145	501	266	366
28	261	424	e230	e7580	e320	e3200	1360	1110	259	527	376	306
29	244	397	e230	4620	---	e3750	1080	955	244	306	301	274
30	241	378	e220	2980	---	e4400	927	741	195	546	249	275
31	238	---	e215	2070	---	e5800	---	600	---	1120	220	---
TOTAL	18364	30230	14535	31860	17225	38125	55757	35425	9746	6624	14197	8631
MEAN	592	1008	469	1028	615	1230	1859	1143	325	214	458	288
MAX	3460	5520	2100	7580	1470	5800	5280	3340	854	1120	1470	721
MIN	238	214	215	150	320	265	927	461	145	67	217	182
CFSM	1.68	2.85	1.33	2.91	1.74	3.48	5.27	3.24	.92	.61	1.30	.82
IN.	1.94	3.19	1.53	3.36	1.82	4.02	5.88	3.73	1.03	.70	1.50	.91

CAL YR 1985 TOTAL 206266 MEAN 565 MAX 5520 MIN 49 CFSM 1.60 IN. 21.7
WTR YR 1986 TOTAL 280719 MEAN 769 MAX 7580 MIN 67 CFSM 2.18 IN. 29.6

e Estimated

KENNEBEC RIVER BASIN

01049000 SEBASTICOOK RIVER NEAR PITTSFIELD, ME

LOCATION.--Lat 44°43'00", long 69°24'56", Somerset County, Hydrologic Unit 01030003, on right bank 1.7 mi upstream from Twentyfivemile Stream and 5.0 mi south of Pittsfield.

DRAINAGE AREA.--572 mi².

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

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

GAGE.--Water-stage recorder. Datum of gage is 133.94 ft above National Geodetic Vertical Datum of 1929.

REMARKS.--Estimated daily discharges: Oct. 18 to Dec. 3, Dec. 16-19, Dec. 23 to Jan. 21, Jan. 24-25, Jan. 30 to Feb. 17, Feb. 23 to Mar. 3, and Mar. 7-11. Records good except for periods ice effect Dec. 16-19, Dec. 23 to Jan. 21, Jan. 24-25, Jan. 30 to Feb. 17, Feb. 23 to Mar. 3, and Mar. 7-11, and periods of no gage-height records Oct. 18 to Dec. 3, which are fair. Flow regulated by dam 0.4 mi upstream, and by Great Moose and Sebasticook Lakes and Plymouth Pond, combined capacity about 2,345,000,000 ft³. Several observations of water temperature and specific conductance were made during the year.

AVERAGE DISCHARGE.--56 years (water years 1930 to current year), 960 ft³/s.

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

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 7,280 ft³/s, Feb. 2, gage height, 8.99 ft, from peak-stage indicator; minimum daily, 46 ft³/s, Dec. 17.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1985 TO SEPTEMBER 1986
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	489	e385	e620	e140	e7150	e150	3900	1160	2230	191	945	614
2	493	e375	e750	e135	e7070	e145	4220	1110	2030	198	1010	576
3	490	e365	e950	e130	e6300	e200	4380	994	1940	317	967	798
4	488	e360	1100	e130	e4900	159	4240	884	1790	271	941	985
5	481	e390	1090	e125	e3400	134	3990	805	1440	313	848	899
6	454	e600	1040	e125	e2200	118	3650	753	1230	211	805	975
7	430	e1100	924	e125	e1780	e110	3320	771	903	230	536	842
8	428	e1000	864	e120	e1670	e120	3180	1020	934	469	346	905
9	520	e950	819	e120	e1480	e130	3090	1300	840	297	402	754
10	860	e850	773	e120	e1320	e145	2980	1570	751	348	496	702
11	962	e760	695	e115	e1210	e155	2860	1560	713	317	555	622
12	886	e700	694	e115	e1110	179	2730	1460	635	171	514	665
13	842	e640	647	e120	e1030	234	2580	1280	485	143	627	689
14	814	e580	564	e130	e960	237	2480	1190	612	233	448	703
15	823	e650	508	e140	e770	627	2310	1060	568	384	392	704
16	915	e800	e120	e145	e670	996	2170	843	509	152	370	721
17	831	e1050	e46	e150	e600	953	1970	889	408	99	359	752
18	e760	e1600	e49	e145	551	1060	1830	793	340	255	374	778
19	e710	e1500	e265	e140	503	1150	1580	710	220	184	722	836
20	e670	e1350	410	e180	445	1600	1480	593	297	258	652	816
21	e630	e1200	356	e330	431	1700	1370	465	355	222	375	827
22	e590	e1100	286	517	481	1690	1300	487	244	208	295	772
23	e560	e1000	e195	836	e365	1620	1200	779	241	186	223	818
24	e530	e920	e190	e820	e305	1430	1030	1520	237	175	336	1150
25	e510	e860	e180	e720	e265	1460	1020	2470	204	161	415	1250
26	e480	e800	e170	1010	e250	1490	932	2890	172	160	731	1410
27	e465	e750	e165	2310	e110	1750	1250	3000	177	267	988	1340
28	e445	e710	e160	4620	e98	2410	1270	3080	252	626	1210	1170
29	e430	e680	e155	5630	---	2850	1300	3210	409	545	1090	1050
30	e415	e650	e150	e6100	---	3180	1130	2940	302	412	886	940
31	e400	---	e145	e6580	---	3540	---	2570	---	726	741	---
TOTAL	18801	24675	15080	32123	47424	31722	70742	44156	21468	8729	19599	26063
MEAN	606	822	486	1036	1694	1023	2358	1424	716	282	632	869
MAX	962	1600	1100	6580	7150	3540	4380	3210	2230	726	1210	1410
MIN	400	360	46	115	98	110	932	465	172	99	223	576

CAL YR 1985 TOTAL 198153 MEAN 543 MAX 2550 MIN 31
WTR YR 1986 TOTAL 360582 MEAN 988 MAX 7150 MIN 46

e Estimated

01049130 JOHNSON BROOK AT SOUTH ALBION, ME

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

DRAINAGE AREA.--2.92 mi².

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

GAGE.--Water-stage recorder. Elevation of gage is 230 ft above National Geodetic Vertical Datum of 1929, from topographic map.

REMARKS.--Estimated daily discharges: Dec. 11 to Jan. 26, Jan. 29 to Mar. 5, and Aug. 9 to Sept. 30. Records are good except for periods of ice effect, Dec. 11 to Jan. 26, and Jan. 29 to Mar. 5 and period of no gage-height record, Aug. 9 to Sept 30 and flows below 1.5 ft³/s, which are fair.

AVERAGE DISCHARGE.--6 years, 4.80 ft³/s, 22.32 in/yr.

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

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

Date	Time	Discharge (ft ³ /s)	Gage height (ft)	Date	Time	Discharge (ft ³ /s)	Gage height (ft)
Jan. 27	1145	*61	*10.47	Mar. 19	1745	49	10.21

Minimum discharge, 0.05 ft³/s, July 25, 26, gage-height 8.24 ft.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1985 TO SEPTEMBER 1986
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.46	.51	1.9	e.81	e14	e1.3	17	5.4	2.7	.33	.99	e.90
2	.35	.49	6.4	e.79	e10	e1.1	13	5.2	7.4	.68	1.1	e.82
3	.25	.46	7.4	e.77	e8.6	e1.1	10	4.2	6.1	1.1	1.2	e.80
4	.51	.37	6.1	e1.2	e6.8	e1.2	9.1	3.6	4.2	.94	1.2	e.78
5	1.3	.90	4.3	e4.5	e5.0	e1.3	6.9	3.1	3.0	.93	.84	e.76
6	3.3	5.0	3.6	e2.5	e3.7	1.4	5.5	3.1	2.3	.88	.66	e1.0
7	2.8	7.4	2.9	e1.8	e3.0	1.7	6.7	7.2	1.8	.69	.61	e1.2
8	2.3	6.1	2.6	e1.5	e2.5	2.1	8.5	15	1.7	.57	1.8	e1.1
9	1.7	4.2	2.4	e1.3	e2.1	2.4	9.6	14	1.5	.34	e1.7	e.96
10	1.4	4.0	2.0	e1.2	e1.8	1.8	9.0	10	1.2	.27	e1.5	e.88
11	1.2	3.9	e1.8	e1.2	e1.5	1.7	8.5	6.7	1.4	.22	e1.5	e.80
12	.83	3.4	e1.7	e1.1	e1.3	1.7	7.4	4.9	1.4	.18	e1.5	e.75
13	.67	4.0	e1.7	e1.1	e1.1	1.6	6.5	3.6	1.3	.18	e1.4	e.70
14	.77	4.1	e1.6	e1.1	e1.0	2.3	5.4	3.0	1.3	.23	e1.3	e.65
15	1.6	7.8	e1.6	e1.0	e.91	7.1	4.3	2.7	1.2	.22	e1.2	e.62
16	2.9	6.3	e1.6	e.96	e.82	9.8	3.9	2.4	1.2	.17	e1.1	e.62
17	2.5	7.9	e1.6	e.90	e.79	8.9	3.4	2.4	1.5	.14	e1.0	e.69
18	2.1	8.6	e1.4	e.88	e.88	12	2.8	2.3	1.1	.16	e1.1	e.74
19	2.0	8.2	e1.3	e.86	e1.0	32	2.5	2.1	.92	.21	e1.3	e.70
20	1.7	7.1	e1.1	e9.0	e1.2	41	2.5	1.8	.81	.20	e1.5	e.66
21	1.4	5.9	e1.0	e12	e1.4	34	2.5	1.5	.73	.19	e1.4	e.62
22	1.2	4.6	e.89	e15	e1.5	25	5.2	2.3	.64	.13	e1.2	e.60
23	1.1	4.1	e.89	e13	e2.5	21	4.8	7.4	.57	.10	e1.1	e.58
24	1.0	3.7	e.88	e11	e2.1	15	4.6	19	.53	.08	e1.2	e.70
25	1.0	3.2	e.88	e9.0	e1.9	11	6.1	23	.50	.06	e2.0	e.81
26	.96	2.9	e.88	e8.0	e1.7	12	11	17	.41	.35	e1.7	e.76
27	.88	2.7	e.88	50	e1.6	21	14	10	.54	2.3	e1.5	e.70
28	.75	2.5	e.88	51	e1.4	28	11	7.5	.75	1.2	e1.6	e.65
29	.63	2.2	e.86	e45	---	28	9.2	4.9	.58	1.0	e1.3	e.64
30	.57	2.0	e.84	e26	---	26	6.5	3.6	.44	.91	e1.1	e.70
31	.53	---	e.82	e17	---	22	---	2.8	---	1.1	e.96	---
TOTAL	40.66	124.53	64.70	291.47	82.10	376.5	217.4	201.7	49.72	16.06	39.56	22.89
MEAN	1.31	4.15	2.09	9.40	2.93	12.1	7.25	6.51	1.66	.52	1.28	.76
MAX	3.3	8.6	7.4	51	14	41	17	23	7.4	2.3	2.0	1.2
MIN	.25	.37	.82	.77	.79	1.1	2.5	1.5	.41	.06	.61	.58
CFSM	.45	1.42	.71	3.22	1.00	4.16	2.48	2.23	.57	.18	.44	.26
IN.	.52	1.59	.82	3.71	1.05	4.80	2.77	2.57	.63	.20	.50	.29

CAL YR 1985 TOTAL 1019.10 MEAN 2.79 MAX 32 MIN .03 CFSM .96 IN. 13.0
WTR YR 1986 TOTAL 1527.27 MEAN 4.18 MAX 51 MIN .06 CFSM 1.43 IN. 19.5

e Estimated

KENNEBEC RIVER BASIN

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

LOCATION.--Lat 43°28'25", long 69°41'08", Kennebec County, Hydrologic Unit 01030003, on right bank at North Sidney, 5.3 mi downstream from Sebasticook River, and 11.5 mi upstream from Cushnoc Dam at Augusta.
DRAINAGE AREA.--5,403 mi².

WATER-DISCHARGE RECORDS

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

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

GAGE.--Water-stage recorder. Datum of gage is 14.97 ft above National Geodetic Vertical Datum of 1929. Prior to Oct 1, 1979, at datum 22.05 ft higher. Since July 10, 1980, auxiliary water-stage recorder 11.5 mi downstream from base gage.

REMARKS.--Estimated daily discharges: Oct. 1, 2, Dec. 13 to Jan. 27, Feb. 7 to Mar. 21, July 26-29. Records fair. Flow regulated by Moosehead Lake (station 01040500), Brassua and Flagstaff Lakes, First Roach, Indian, Moxie, and Wyman Ponds (Reservoirs in Kennebec River Basin).

AVERAGE DISCHARGE.--8 years, 9,151 ft³/s.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 113,000 ft³/s, June 1, 1984, gage height, 26.60 ft; minimum daily, 2,420 ft³/s, Mar. 10, 1980.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 106,000 ft³/s, Jan. 28, gage height, 25.56 ft; minimum daily, 2,400 ft³/s, Nov. 2.

REVISIONS.--Revised figures for discharge for water years 1984 and 1985, superseding those published in the corresponding reports are given herein.

EXTREMES FOR WATER YEAR 1985.--Maximum discharge, 17,000 ft³/s, Apr. 17, gage height, 11.82 ft; minimum daily, 3,030 ft³/s, Feb. 8, 9.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	e4110	e4280	e18700	e7070	e6460	e12900	e15000	28500	110000	17400	e4820	e4060
2	e4110	e4260	e15800	e6830	e6390	e12500	e16200	29100	99500	16400	e4880	e3900
3	e4280	e4130	14500	e6560	e6340	e11700	e16800	25600	86800	15000	e4690	e3980
4	e4220	e4420	12400	e6430	e6940	e11000	18300	24900	66800	14200	e4560	e4110
5	e4180	e10500	10700	e6340	e7280	e10300	20200	31900	54600	13800	e4540	e4200
6	e4280	e14100	9560	e6360	e7280	e9990	21600	28300	39600	14000	e4570	e4420
7	e4440	e8730	17800	e6250	e7490	e9900	56000	24800	e33900	15000	e4700	e4940
8	e4400	e6650	21200	e6080	e7140	e9340	71000	22400	e35300	16100	e4520	e4870
9	e4240	e6140	16700	e6070	e6820	e8610	49000	22500	33800	19100	e4400	e5100
10	e4050	e6700	15200	e6560	e6710	e7830	38000	22200	25700	e14900	e4420	e5110
11	e4250	e7130	13000	e6370	e6400	e7440	31700	18900	24700	e14100	e4500	e5260
12	e4240	e9420	12200	e6560	e6130	e6940	26500	17300	21900	e15200	e4500	e5960
13	e4660	e7960	e15900	e6560	e6080	e6780	24600	27200	18500	e15500	e4520	e6120
14	e4980	e7150	e43600	e6580	e6340	e6440	25500	25300	16100	e14400	e4290	e5840
15	e4920	e6870	e42100	e6530	e6860	e6440	24700	26200	12500	e13200	e4480	e5700
16	e4640	e7050	e35900	e6040	e8660	e7310	26400	25600	10900	e13000	e4580	e5050
17	e4420	e14000	e31100	e5970	e9330	e7410	26800	24100	8750	e7800	e4630	e5220
18	e4340	e12100	e26200	e6230	e10500	e7440	33600	21700	8850	e5790	e4530	e5040
19	e4280	e9730	e22900	e6250	e10400	e8080	35900	19300	9140	e5740	e4520	e4870
20	e4210	e9120	16400	e6110	e9900	17500	35500	17300	9420	e5870	e4620	e4320
21	e4090	e10200	e13500	e5840	e10200	24600	30000	15700	9290	e5740	e4270	e4490
22	e4290	e14900	e10900	e5670	e10300	25400	31100	15600	9100	e5840	e4350	e5260
23	e4330	e13700	e9880	e5780	e9520	26700	28500	13300	8380	e5740	e4590	e4950
24	e4360	e13700	e9220	e6000	e8970	27000	25000	13100	8360	e5760	e4540	e6210
25	e4450	e23300	e8290	e6610	e10400	24900	24800	13000	8640	e5110	e4610	e6110
26	e4450	e39400	e8240	e6340	e14600	21900	28900	12400	23700	e5080	e4720	e5170
27	e4400	e29100	e8270	e6360	e14400	21000	37300	12700	29000	e4850	e5140	e5670
28	e4430	e22900	e7430	e6470	e12800	19800	32100	13700	23700	e5560	e4800	e5920
29	e4240	e21100	e7770	e6270	e12700	18400	30500	14600	19200	e6150	e4780	e5500
30	e3920	e23500	e7980	e6220	---	e17400	29300	36800	16500	e5830	e4330	e4580
31	e4290	---	e7320	e6160	---	e15100	---	71300	---	e4830	e4230	---
TOTAL	134500	372240	510660	195470	253340	428050	910800	715300	882630	326990	141630	151930
MEAN	4339	12410	16470	6305	8736	13810	30360	23070	29420	10550	4569	5064
MAX	4980	39400	43600	7070	14600	27000	71000	71300	110000	19100	5140	6210
MIN	3920	4130	7320	5670	6080	6440	15000	12400	8360	4830	4230	3900

CAL YR 1983 TOTAL 4519520 MEAN 12380 MAX 105000 MIN 3820
WTR YR 1984 TOTAL 5023540 MEAN 13730 MAX 110000 MIN 3900

e Estimated

01049265 KENNEBEC RIVER AT NORTH SIDNEY, ME--Continued

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	e4520	e3580	e3700	e4260	e3260	e6050	e12900	8130	6350	e9060	e6040	e5000
2	e4990	e3580	e3370	e4030	e3280	e5740	e12300	7370	6430	e7920	e6300	e4900
3	e5340	e3460	e3240	e3830	e3240	e5330	e10600	6550	6600	e6940	e6130	e4750
4	e4860	e3480	e3280	e3750	e3210	e4940	e10400	5420	6150	e5560	e6000	e5450
5	e5100	e3560	e3130	e3760	e3050	e4880	e10300	5340	5220	e5480	e5870	e8720
6	e4740	e3440	e3140	e3650	e3110	e4790	e9740	5220	4740	e5400	e4740	e8730
7	e4820	e3500	e3160	e3610	e3040	e4640	e11000	5880	4640	e4680	e4580	e7390
8	e4740	e3500	e3260	e3570	e3030	e4400	e12200	7250	4700	e7440	e4450	e6320
9	e4590	e3460	e3360	e3470	e3030	e4630	e11600	5360	4720	e9720	e4550	e5420
10	e4310	e3460	e3380	e3490	e3130	e4700	10900	5260	e4370	e9150	e4770	e6310
11	e4380	e3780	e3370	e3460	e3130	e4770	9920	5160	e4440	e8100	e4690	e5750
12	e4560	e4610	e3810	e3460	e3090	e6120	9200	5630	e4350	e6620	e4640	e5980
13	e4330	e6000	e3890	e3370	e3780	e11800	8280	4910	e4300	e6050	e4250	e6160
14	e4220	e4560	e4120	e3450	e6140	e13900	8210	4830	e4560	e6090	e4140	e6030
15	e4150	e4810	e3900	e3410	e5370	e13400	8380	5190	e4550	e5930	e4340	e6040
16	e4030	e4270	e3600	e3210	e5180	e12500	8730	5160	e4440	e7000	e4210	e5880
17	e3960	e3800	e3590	e3220	e4930	e11700	14100	5010	e4360	e12000	e4260	e5940
18	e4010	e3780	e3610	e3320	e5190	e10500	12400	5430	e4430	e12700	e4270	e5550
19	e3970	e3650	e3630	e3180	e4680	e9250	11400	6340	e5610	e11300	e4220	e5860
20	e3970	e3570	e3750	e3240	e4300	e8220	11000	6750	e4730	e9160	e4240	e5570
21	e3710	e3340	e3570	e3240	e4260	e7820	11200	5970	e4250	e6890	e4170	e5160
22	e3760	e3500	e3630	e3170	e4060	e7150	12000	6280	e4100	e7080	e4300	e5400
23	e3730	e3490	e3590	e3150	e4040	e7120	13100	5970	e4030	e7290	e4220	e5830
24	e3700	e3300	e3780	e3230	e4670	e7160	12800	6440	e4380	e7080	e4150	e5720
25	e3980	e3320	e3720	e3200	e6040	e6880	12100	6310	e4970	e5850	e4300	e5640
26	e3950	e3810	e3670	e3230	e5950	e6140	12100	6280	e4920	e5880	e4560	e6150
27	e3870	e3220	e3430	e3150	e5960	e6050	11900	6200	e4660	e6250	e4560	e6800
28	e4180	e3220	e3520	e3070	e5760	e5930	10600	6420	e5110	e5950	e4780	e11000
29	e4270	e3360	e3640	e3150	---	e9410	10400	6970	e7140	e6630	e5020	e8530
30	e4090	e3360	e3800	e3170	---	e12900	10100	6760	e8740	e5270	e4950	e6860
31	e3820	---	e4300	e3180	---	e12300	---	6710	---	e5460	e4910	---
TOTAL	132650	112060	110940	105680	117910	241120	329860	186500	151990	225930	146610	188840
MEAN	4279	3735	3579	3409	4211	7778	11000	6016	5066	7288	4729	6295
MAX	5340	6000	4300	4260	6140	13900	14100	8130	8740	12700	6300	11000
MIN	3700	3220	3130	3070	3030	4400	8210	4830	4030	4680	4140	4750

CAL YR 1984 TOTAL 4361790 MEAN 11920 MAX 110000 MIN 3130
WTR YR 1985 TOTAL 2050090 MEAN 5617 MAX 14100 MIN 3030

e Estimated

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1985 TO SEPTEMBER 1986
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	e6200	3310	6400	e5240	19000	e6650	39400	12500	14100	3250	6410	5950
2	e6550	2400	8040	e5170	16300	e6480	34200	11400	14600	3940	5700	6770
3	e4830	2560	9470	e5170	14600	e6750	31900	11000	15700	4280	8840	6490
4	e160	3340	8450	e4480	13200	e7030	26300	9830	13700	3980	6830	7010
5	4630	2880	7970	e4660	12400	e7600	22400	9280	13000	3420	6480	7300
6	8930	7420	7640	e5010	11200	e7840	18800	9320	12300	2830	6100	6570
7	8660	19100	7330	e5110	e10200	e8060	17100	10500	11900	3350	5640	6440
8	8160	16200	7050	e5020	e9500	e7640	17900	17600	11200	3530	5900	5830
9	7430	11900	7110	e5120	e8700	e7400	18100	19000	10800	3280	6140	4530
10	6640	9530	7160	e5230	e8000	e6480	17600	15800	10500	2840	6820	5520
11	6760	9630	6860	e4900	e7400	e6680	17400	13900	9300	3200	6080	5610
12	6200	8350	e970	e5090	e6600	e6200	17500	13200	7270	3450	6310	6680
13	5690	8550	e6670	e5020	e6100	e6400	15800	12700	7130	2990	5810	6110
14	6070	8820	e6320	e4850	e5500	e6810	15000	12000	6750	3240	5570	5940
15	6480	9230	e5960	e4950	e6100	e8050	14200	11700	6600	3330	4940	6400
16	9290	8340	e5360	e4960	e7470	e10200	13700	10700	6190	3710	5460	6030
17	8150	8020	e5740	e5140	e7150	e12500	12500	10300	7350	3260	5880	5960
18	7010	8790	e5250	e5080	e7310	e13100	12500	10800	6490	3010	5400	6020
19	5620	9380	e5340	e4990	e7200	e14000	14000	10900	5860	3570	6170	5830
20	5570	9540	e6070	e5230	e7510	e16000	13400	11100	5450	3460	5840	5230
21	5330	10300	e6000	e6570	e7680	e16700	13300	11900	5490	3030	5510	5970
22	4940	10100	e5590	e8790	e7710	16500	15600	13700	4840	3250	5240	5880
23	4830	8860	e5400	e8560	e7230	14900	16600	16300	3980	3250	5650	5350
24	6990	7740	e5340	e7720	e6980	14000	16900	23800	4350	3470	6530	7680
25	5070	7690	e5330	e7220	e7160	13200	17700	31100	4150	3640	6760	8170
26	3520	7080	e5720	e8640	e6830	12400	18200	27800	3850	e3840	5990	7340
27	3710	7430	e5130	e46800	e6590	16100	21100	21700	3340	e4560	6520	6570
28	4890	6860	e5310	88100	e6370	22500	20600	19300	3500	e6020	7320	6160
29	4270	6850	e5190	44400	---	25400	19200	18200	3620	e4920	7190	6850
30	4480	6370	e5140	28700	---	28300	15000	16700	3040	4130	6760	6890
31	3890	---	e5070	23100	---	37400	---	15300	---	6210	6430	---
TOTAL	186950	246570	196380	379020	247990	389270	563900	459330	236350	114240	192220	189080
MEAN	6031	8219	6335	12230	8857	12560	18800	14820	7878	3685	6201	6303
MAX	9290	19100	9470	88100	19000	37400	39400	31100	15700	6210	8840	8170
MIN	3520	2400	5070	4480	5500	6200	12500	9280	3040	2830	4940	4530

CAL YR 1985 TOTAL 2324340 MEAN 6368 MAX 19100 MIN 2400
WTR YR 1986 TOTAL 3401300 MEAN 9319 MAX 88100 MIN 2400

e Estimated

01049265 KENNEBEC RIVER AT NORTH SIDNEY, ME--Continued

WATER-QUALITY RECORDS

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

PERIOD OF DAILY RECORD.--

SPECIFIC CONDUCTANCE: October 1978 to September 1984.

pH: October 1978 to September 1984.

WATER TEMPERATURES: October 1978 to September 1984.

DISSOLVED OXYGEN: October 1978 to September 1984.

INSTRUMENTATION.--Water-quality monitor since October 1978. Continuous flow through system. Submersible pump located 50 ft. streamward from right bank.

REMARKS.--Beginning in water year 1985, monitor not operated during winter period, November 1, to April 30. Other interruptions in the record were due to malfunctions of the monitor or pumping system.

EXTREMES FOR PERIOD OF DAILY RECORD.--

SPECIFIC CONDUCTANCE: Maximum, 174 microsiemens, July 13, 1979; minimum, 30 microsiemens, June 1, 2, 4, 1984, Sept. 23, 1986.

pH: Maximum, 7.4 units, Jan. 23, June 26, 29, July 13, 1979, Sept. 11, 1984, Aug. 21-23, 27-29, Sept. 2, 17, 18, 21, 22, 1986; minimum, 6.1 units, Mar. 26, July 27, 1979, June 29, 1981.

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

DISSOLVED OXYGEN: Maximum, 15.4 mg/L, Apr. 7, 1984; minimum, 4.0 mg/L, Sept. 23, 1986.

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1985 TO SEPTEMBER 1986

DATE	TIME	STREAM- FLOW, INSTAN- TANEOUS (CFS) (00061)	SPE- CIFIC CON- DUCT- ANCE (US/CM) (00095)	PH (STAND- ARD UNITS) (00400)	TEMPER- ATURE AIR (DEG°C) (00020)	TEMPER- ATURE WATER (DEG°C) (00010)	TUR- BID- ITY (NTU) (00076)	BARO- METRIC PRES- SURE (MM OF HG) (00025)	OXYGEN, DIS- SOLVED (PER- CENT SATUR- ATION) (MG/L) (00300)	OXYGEN, DIS- SOLVED (PER- CENT SATUR- ATION) (00301)	COLI- FORM, FECAL, 0.7 UM-MF (COLS./ 100 ML) (31625)	STREP- TOCOCCI FECAL, KF AGAR (COLS. PER 100 ML) (31673)
OCT 30...	1200	5760	52	7.50	10.0	8.5	1.3	765	11.1	94	<1200	K 26
MAR 05...	1430	E 7600	64	6.80	11.5	0.5	1.6	753	14.2	100	400	64
APR 15...	1230	14300	58	7.40	12.0	6.0	2.3	765	12.5	100	K 40	K 6
28...	1430	20600	53	7.40	--	11.0	2.5	762	11.7	106	70	K 10
JUN 23...	0900	3800	68	7.00	18.0	18.5	2.0	753	8.8	95	K 1200	K 38
AUG 21...	1010	5370	66	7.40	--	22.0	2.2	769	8.6	97	K 170	170
DATE	HARD- NESS (MG/L AS CACO3) (00900)	CALCIUM DIS- SOLVED (MG/L AS CA) (00915)	MAGNE- SIUM, DIS- SOLVED (MG/L AS MG) (00925)	SODIUM, DIS- SOLVED (MG/L AS NA) (00930)	POTAS- SIUM, DIS- SOLVED (MG/L AS K) (00935)	ALKA- LINITY FIELD (MG/L AS CACO3) (90410)	SULFATE DIS- SOLVED (MG/L AS SO4) (00945)	CHLO- RIDE, DIS- SOLVED (MG/L AS CL) (00940)	FLUO- RIDE, DIS- SOLVED (MG/L AS F) (00950)	SILICA, DIS- SOLVED (MG/L AS SIO2) (00955)	SOLIDS, RESIDUE AT 180 DEG.°C DIS- SOLVED (MG/L) (70300)	SOLIDS, SUM OF CONSTITUENTS, DIS- SOLVED (MG/L) (70301)
OCT 30...	18	5.3	1.2	2.6	0.60	14	5.4	3.5	<0.10	3.5	42	31
MAR 05...	20	6.0	1.2	5.0	0.60	12 L	12	5.4	<0.10	4.8	48	42
APR 15...	18	5.4	1.1	3.3	0.70	14 L	10	4.7	<0.10	3.9	44	38
28...	16	4.9	1.0	3.1	0.60	12 L	8.6	4.0	<0.10	4.2	44	34
JUN 23...	17	5.2	1.0	5.3	0.80	15 L	9.3	6.1	<0.10	3.5	47	40
AUG 21...	19	5.7	1.2	5.5	1.1	16 L	11	4.0	<0.10	3.6	48	42

E Estimated discharge.

K Results based on colony count outside the acceptable range (non-ideal colony count).

L Lab alkalinity value reported.

01049265 KENNEBEC RIVER AT NORTH SIDNEY, ME--Continued

SPECIFIC CONDUCTANCE (MICROMHOS/CM AT 25 DEG. C), WATER YEAR OCTOBER 1985 TO SEPTEMBER 1986

[illegible]

SPECIFIC CONDUCTANCE (MICROMHOS/CM AT 25 DEG. C), WATER YEAR OCTOBER 1985 TO SEPTEMBER 1986

[illegible]

SPECIFIC CONDUCTANCE (MICROMHOS/CM AT 25 DEG. C), WATER YEAR OCTOBER 1985 TO SEPTEMBER 1986

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		JUNE			JULY			AUGUST			SEPTEMBER	
1	---	---	---	75	70	72	---	---	---	57	56	57
2	---	---	---	81	73	77	---	---	---	57	53	55
3	---	---	---	100	78	86	---	---	---	53	47	50
4	51	49	50	99	70	80	---	---	---	---	---	---
5	52	50	51	71	69	70	---	---	---	---	---	---
6	52	50	51	70	68	69	---	---	---	---	---	---
7	52	49	50	74	70	72	---	---	---	---	---	---
8	52	49	51	75	68	71	---	---	---	---	---	---
9	52	48	51	82	75	78	---	---	---	---	---	---
10	52	44	48	80	73	75	---	---	---	---	---	---
11	52	48	50	78	74	76	---	---	---	---	---	---
12	---	---	---	81	74	77	---	---	---	---	---	---
13	---	---	---	82	76	79	---	---	---	---	---	---
14	63	60	61	81	73	77	---	---	---	---	---	---
15	64	61	62	84	78	81	---	---	---	---	---	---
16	66	62	64	86	77	81	63	58	60	54	48	52
17	65	62	63	81	75	78	65	56	61	54	49	52
18	64	60	62	80	70	75	76	60	66	55	49	51
19	66	63	65	74	69	71	73	59	63	57	55	56
20	74	67	71	76	73	75	60	56	57	72	56	62
21	74	65	69	79	73	76	63	57	61	72	62	67
22	72	68	70	87	80	84	63	57	60	72	59	67
23	71	67	69	88	79	84	63	57	59	72	30	63
24	69	66	67	85	77	80	---	---	---	67	61	56
25	69	65	67	86	74	81	---	---	---	63	56	59
26	68	63	66	77	74	75	---	---	---	57	55	56
27	70	66	68	---	---	---	62	56	59	55	54	54
28	69	66	68	---	---	---	73	59	65	59	54	58
29	71	66	70	---	---	---	67	54	58	59	55	57
30	72	66	69	---	---	---	55	50	52	55	54	55
31	---	---	---	---	---	---	57	52	55	---	---	---
MONTH	74	44	61	100	68	77	76	50	60	72	30	57
PERIOD	100	30	61									

PH (STANDARD UNITS), WATER YEAR OCTOBER 1985 TO SEPTEMBER 1986

[illegible]

01049265 KENNEBEC RIVER AT NORTH SIDNEY, ME--Continued

TEMPERATURE, WATER (DEG. C), WATER YEAR OCTOBER 1985 TO SEPTEMBER 1986

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
	OCTOBER			NOVEMBER			DECEMBER			JANUARY		
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												
MONTH												

TEMPERATURE, WATER (DEG. C), WATER YEAR OCTOBER 1985 TO SEPTEMBER 1986

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
	FEBRUARY			MARCH			APRIL			MAY		
1												
2										12.0	10.5	11.5
3										13.0	12.0	12.5
4										12.0	11.0	11.5
5										11.0	10.0	10.5
6										10.0	9.5	9.5
7										9.5	9.0	9.0
8										9.0	8.5	8.5
9										9.0	8.0	8.5
10										10.0	8.0	9.0
11										11.5	8.5	10.0
12										11.0	9.5	10.5
13										12.0	10.5	11.0
14										12.5	10.5	11.5
15										13.0	10.5	12.0
16										13.5	11.5	12.5
17										13.5	12.5	13.0
18										14.5	12.5	13.5
19										15.5	13.5	14.0
20										15.5	13.5	14.0
21										15.5	14.0	15.0
22										15.0	13.5	14.5
23										14.5	13.5	14.0
24										13.0	12.5	13.0
25										13.0	12.5	13.0
26										14.5	13.0	13.5
27										15.0	14.0	14.5
28										---	---	---
29										---	---	---
30										---	---	---
31										---	---	---
MONTH										15.5	7.5	12.0

TEMPERATURE, WATER (DEG. C), WATER YEAR OCTOBER 1985 TO SEPTEMBER 1986

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
	JUNE			JULY			AUGUST			SEPTEMBER		
1	---	---	---	21.0	18.5	19.5	---	---	---	20.0	19.0	19.5
2	---	---	---	19.5	18.5	19.0	---	---	---	20.5	19.0	20.0
3	---	---	---	19.0	18.0	18.5	---	---	---	20.5	19.5	19.5
4	16.0	14.0	15.0	20.0	18.0	19.0	---	---	---	---	---	---
5	16.5	15.0	15.5	20.0	18.5	19.5	---	---	---	---	---	---
6	17.5	15.5	16.5	21.0	19.0	20.0	---	---	---	---	---	---
7	17.5	16.0	17.0	21.5	19.5	20.5	---	---	---	---	---	---
8	17.0	16.0	16.5	22.0	20.0	21.0	---	---	---	---	---	---
9	18.0	16.5	17.0	22.5	20.5	21.5	---	---	---	---	---	---
10	18.0	16.0	17.0	22.5	20.5	21.5	---	---	---	---	---	---
11	17.5	16.5	17.0	22.0	20.0	21.0	---	---	---	---	---	---
12	---	---	---	21.0	19.5	20.5	---	---	---	---	---	---
13	---	---	---	21.0	19.0	20.5	---	---	---	---	---	---
14	18.0	16.0	17.0	20.5	19.5	20.0	---	---	---	---	---	---
15	18.5	17.5	18.0	22.0	19.5	20.5	---	---	---	---	---	---
16	19.0	18.0	18.5	22.5	20.5	21.5	22.5	22.0	22.0	18.0	17.0	17.5
17	18.5	17.5	18.0	23.0	20.5	22.0	23.5	22.0	22.5	17.5	16.5	17.0
18	18.0	17.0	17.5	23.5	21.0	22.0	23.0	22.0	22.5	17.5	16.5	17.0
19	19.5	17.5	18.5	22.0	21.0	21.5	22.0	21.5	22.0	18.0	17.0	17.5
20	19.0	18.5	18.5	21.5	21.0	21.0	22.0	21.5	22.0	17.5	15.5	17.0
21	20.0	18.0	19.0	23.0	20.5	22.0	22.5	21.5	22.0	17.5	16.5	17.0
22	20.5	18.5	19.5	23.0	21.5	22.5	23.0	22.0	22.5	17.5	16.5	17.0
23	19.5	18.5	19.0	24.5	21.5	23.0	22.0	21.0	21.5	17.5	16.0	16.5
24	20.5	18.5	19.5	25.0	22.0	23.5	---	---	---	17.5	16.5	17.0
25	19.5	18.0	19.0	24.5	23.0	23.5	---	---	---	17.5	16.5	17.0
26	20.0	18.0	19.0	25.0	23.0	23.5	---	---	---	17.0	16.0	16.5
27	19.5	18.5	19.0	---	---	---	21.0	20.5	20.5	17.0	16.0	16.5
28	21.0	18.5	19.5	---	---	---	20.5	19.0	20.0	16.5	15.5	16.0
29	21.5	19.5	20.5	---	---	---	19.0	18.0	18.5	16.5	16.0	16.5
30	20.5	19.0	20.0	---	---	---	19.5	18.0	19.0	18.0	17.0	17.0
31	---	---	---	---	---	---	20.5	19.5	20.0	---	---	---
MONTH	21.5	14.0	18.0	25.0	18.0	21.0	23.5	18.0	21.0	20.5	15.0	17.5
PERIOD	25.0	7.5	17.5									

OXYGEN, DISSOLVED (DO), MG/L, WATER YEAR OCTOBER 1985 TO SEPTEMBER 1986

[illegible]

01049373 MILL STREAM AT WINTHROP, ME

LOCATION.--Lat 44°18'24", long 69°58'18", Kennebec County, Hydrologic Unit 01030003, on right bank 500 ft downstream from bridge on Main Street, at Winthrop.

DRAINAGE AREA.--32.7 mi².

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

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

GAGE.--Water-stage recorder. Datum of gage is 176.42 ft above National Geodetic Vertical Datum of 1929.

REMARKS.--Estimated daily discharges: July 11 to Sept. 30. Records good except for period of no gage-height record, July 11 to Sept. 30, which are poor. Some regulation at low flow by Maranacook Lake Outlet dam 0.3 mi upstream. Several observations of water temperature and specific conductance were made during the year.

AVERAGE DISCHARGE.--9 years, 55.0 ft³/s, 22.84 in/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 671 ft³/s, June 2, 1984, gage height, 4.76 ft, from floodmarks; minimum, 1.0 ft³/s, Dec. 19, 1978, gage height, 0.99 ft.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 262 ft³/s, Feb. 4, gage height, 3.49 ft; minimum, 2.5 ft³/s, Nov. 4, gage height, 1.16 ft, caused by upstream regulation.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1985 TO SEPTEMBER 1986
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	5.0	4.9	16	20	173	40	190	109	78	5.2	e23	e13
2	5.0	4.2	22	20	158	38	180	103	79	6.2	e25	e13
3	4.6	4.0	20	19	141	35	169	95	87	19	e25	e13
4	5.0	3.1	16	19	190	34	157	87	102	30	e25	e13
5	7.2	4.7	17	20	234	33	146	78	90	27	e24	e14
6	7.4	4.7	20	20	204	32	136	75	74	24	e24	e14
7	6.7	6.2	23	19	180	34	135	74	66	21	e25	e13
8	7.3	7.6	22	19	160	34	139	86	65	20	e25	e13
9	7.8	7.8	22	19	145	33	140	89	57	20	e24	e12
10	7.3	7.6	21	19	130	32	135	81	51	18	e23	e12
11	5.5	5.7	21	19	116	30	131	76	49	e19	e24	e11
12	6.0	6.8	21	20	104	29	126	69	47	e20	e23	e11
13	6.3	9.7	20	19	94	29	120	67	45	e21	e22	e10
14	6.5	13	21	18	85	31	112	65	43	e20	e21	e9.6
15	7.3	13	21	18	78	41	104	61	41	e19	e20	e9.4
16	6.7	12	20	18	71	48	97	58	37	e18	e20	e9.0
17	6.1	13	20	17	64	52	89	56	28	e19	e19	e8.4
18	5.8	12	20	19	61	56	81	55	23	e22	e19	e8.2
19	7.0	12	20	19	57	74	74	52	22	e24	e19	e8.0
20	5.7	16	19	20	54	109	69	53	21	e22	e20	e7.5
21	4.0	16	20	17	53	118	65	72	20	e21	e19	e7.4
22	4.8	15	20	12	55	116	70	69	20	e22	e19	e7.2
23	5.2	14	21	15	52	112	68	73	19	e23	e19	e7.0
24	6.4	15	21	17	49	105	66	80	28	e23	e20	e6.8
25	6.2	17	21	19	47	99	64	111	26	e22	e21	e6.6
26	5.9	19	21	33	45	97	79	106	23	e22	e19	e6.4
27	5.8	19	20	138	42	114	80	127	22	e28	e18	e6.3
28	5.3	19	20	230	40	156	82	118	23	e28	e17	e6.2
29	3.8	17	20	230	---	174	81	103	21	e27	e16	e6.2
30	4.4	16	20	213	---	184	84	92	16	e27	e15	e6.1
31	5.4	---	20	194	---	186	---	81	---	e26	e14	---
TOTAL	183.4	335.0	626	1499	2882	2305	3269	2521	1323	663.4	647	288.3
MEAN	5.92	11.2	20.2	48.4	103	74.4	109	81.3	44.1	21.4	20.9	9.61
MAX	7.8	19	23	230	234	186	190	127	102	30	25	14
MIN	3.8	3.1	16	12	40	29	64	52	16	5.2	14	6.1
CFSM	.18	.34	.62	1.48	3.15	2.27	3.33	2.49	1.35	.65	.64	.29
IN.	.21	.38	.71	1.71	3.28	2.62	3.72	2.87	1.51	.75	.74	.33

CAL YR 1985 TOTAL 8489.6 MEAN 23.3 MAX 132 MIN 3.1 CFSM .71 IN. 9.66
WTR YR 1986 TOTAL 16542.1 MEAN 45.3 MAX 234 MIN 3.1 CFSM 1.39 IN. 18.8

e Estimated

01049400 COBBOSSEECONTEE LAKE AT EAST WINTHROP, ME

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

DRAINAGE AREA.--131 mi².

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

GAGE.--Water-stage recorder. Datum of gage is 160.00 ft above National Geodetic Vertical Datum of 1929; gage reading have been reduced to elevations above National Geodetic Vertical Datum of 1929.

REMARKS.--Estimated daily gage heights: Oct. 1. Records good including period of no gage height record, Oct. 1.

EXTREMES FOR PERIOD OF RECORD.--Maximum daily elevation, 169.46 ft June 3, 1984; minimum daily elevation, 162.71 ft Nov. 9, 10, 11, 1985.

EXTREMES FOR CURRENT YEAR.--Maximum daily elevation, 167.75 ft May 26, 29, 30; minimum daily elevation, 163.11 ft Nov. 4.

ELEVATION, IN FEET, WATER YEAR OCTOBER 1985 TO SEPTEMBER 1986
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	e164.74	163.12	164.32	165.07	167.46	165.89	167.59	167.37	167.59	166.98	167.03	166.96
2	164.64	163.12	164.44	165.07	167.44	165.86	167.59	167.39	167.57	167.00	167.07	166.93
3	164.50	163.12	164.58	165.11	167.37	165.83	167.57	167.40	167.51	167.05	167.16	166.91
4	164.40	163.11	164.62	165.15	167.26	165.80	167.53	167.40	167.43	167.06	167.22	166.91
5	164.35	163.16	164.64	165.18	167.20	165.77	167.47	167.40	167.38	167.04	167.23	166.91
6	164.33	163.42	164.68	165.19	167.11	165.74	167.41	167.41	167.39	167.04	167.26	166.92
7	164.21	163.54	164.72	165.19	166.99	165.77	167.39	167.43	167.41	167.03	167.33	166.89
8	164.08	163.60	164.74	165.19	166.86	165.74	167.39	167.46	167.43	167.02	167.40	166.85
9	163.97	163.62	164.75	165.18	166.73	165.70	167.36	167.39	167.42	167.00	167.42	166.82
10	163.85	163.66	164.76	165.18	166.62	165.68	167.32	167.34	167.41	166.97	167.45	166.78
11	163.72	163.69	164.76	165.18	166.57	165.66	167.29	167.24	167.40	166.94	167.47	166.75
12	163.59	163.71	164.79	165.17	166.50	165.63	167.23	167.13	167.40	166.93	167.41	166.72
13	163.49	163.75	164.81	165.17	166.43	165.62	167.17	167.08	167.39	166.93	167.34	166.66
14	163.39	163.79	164.87	165.17	166.36	165.63	167.07	167.08	167.38	166.92	167.25	166.61
15	163.33	163.86	164.88	165.17	166.28	165.73	166.97	167.07	167.36	166.90	167.18	166.54
16	163.30	163.90	164.89	165.16	166.20	165.80	166.86	167.06	167.35	166.89	167.16	166.45
17	163.26	163.97	164.90	165.16	166.12	165.86	166.77	167.05	167.34	166.87	167.15	166.32
18	163.26	164.02	164.92	165.16	166.04	165.92	166.76	167.04	167.31	166.90	167.17	166.19
19	163.26	164.06	164.92	165.19	165.98	166.18	166.76	167.01	167.27	166.91	167.17	166.06
20	163.25	164.09	164.93	165.27	165.96	166.45	166.76	166.99	167.22	166.91	167.17	165.92
21	163.25	164.12	164.94	165.33	165.99	166.62	166.75	167.00	167.18	166.90	167.17	165.81
22	163.24	164.14	164.96	165.37	166.02	166.74	166.79	167.08	167.16	166.88	167.14	165.69
23	163.23	164.18	164.98	165.40	166.01	166.86	166.79	167.19	167.14	166.87	167.12	165.59
24	163.23	164.22	164.99	165.42	165.99	166.98	166.81	167.37	167.12	166.86	167.15	165.52
25	163.23	164.23	165.01	165.45	165.99	167.06	166.90	167.53	167.08	166.85	167.13	165.45
26	163.22	164.24	165.03	165.78	165.97	167.14	167.05	167.65	167.05	166.86	167.10	165.38
27	163.20	164.25	165.04	166.45	165.95	167.27	167.17	167.70	167.04	166.94	167.09	165.29
28	163.17	164.27	165.05	166.84	165.92	167.43	167.25	167.73	167.05	166.95	167.07	165.22
29	163.15	164.29	165.06	167.12	---	167.50	167.30	167.75	167.03	166.96	167.04	165.16
30	163.15	164.30	165.07	167.36	---	167.55	167.33	167.75	167.01	166.99	167.01	165.11
31	163.14	---	165.08	167.48	---	167.59	---	167.66	---	167.01	166.98	---
MAX	164.74	164.30	165.08	167.48	167.46	167.59	167.59	167.75	167.59	167.06	167.47	166.96
MIN	163.14	163.11	164.32	165.07	165.92	165.62	166.75	166.99	167.01	166.85	166.98	165.11

CAL YR 1985 MAX 167.23 MIN 163.11

WTR YR 1986 MAX 167.75 MIN 163.11

e Estimated

KENNEBEC RIVER BASIN

01049500 COBBOSSEECONTEE STREAM AT GARDINER, ME

LOCATION.--Lat 44°13'42", long 69°46'42", Kennebec County, Hydrologic Unit 01030003, on left bank 300 ft upstream from Winter Street bridge in Gardiner, 0.4 mi upstream from mouth, and 0.8 mi downstream from Gardiner Water District dam.

DRAINAGE AREA.--217 mi².

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

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

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

REMARKS.--Estimated daily discharges: Jan. 26-29. Records good except for period of doubtful gage-height record, Jan. 26-29, which is fair. Flow regulated by Cobbosseecontee Lake (station 01049400) and several other lakes upstream.

AVERAGE DISCHARGE.--84 years (water years 1891-64, 1977 to current year), 346 ft³/s.

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

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 2,170 ft³/s, Jan. 30, gage height, 7.80 ft; minimum daily, 14 ft³/s, Nov. 14.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1985 TO SEPTEMBER 1986
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	516	214	224	108	1640	286	1080	400	668	112	29	126
2	504	210	243	106	1740	278	955	391	758	96	30	126
3	481	207	264	106	1310	270	919	383	833	94	29	126
4	489	109	255	106	1190	265	869	301	795	94	28	126
5	527	43	247	106	1250	262	865	277	611	94	30	129
6	735	66	242	107	1330	266	862	285	351	94	29	131
7	693	76	234	108	1360	277	1010	295	273	94	32	129
8	595	106	229	111	1340	276	1110	652	270	94	31	201
9	556	43	223	122	1320	273	1090	845	265	93	31	239
10	511	54	217	137	1280	327	993	827	260	93	31	238
11	458	78	210	152	1180	357	941	795	257	93	84	237
12	348	114	210	168	890	336	866	764	255	93	131	237
13	292	139	153	181	701	309	839	418	253	93	136	233
14	416	14	112	195	752	317	824	297	253	91	134	234
15	375	130	112	208	804	425	723	295	246	92	204	230
16	396	216	112	221	797	931	538	292	252	94	250	236
17	343	228	112	235	772	878	484	294	252	93	248	238
18	237	273	112	252	755	763	350	293	248	92	244	246
19	239	376	112	271	719	980	278	290	252	90	242	249
20	237	329	110	301	511	1280	279	265	250	91	242	251
21	237	319	110	317	399	1090	280	250	245	94	242	254
22	232	351	110	333	416	1030	303	251	242	107	239	254
23	227	347	110	343	435	824	336	255	239	98	236	247
24	225	324	110	361	438	611	421	374	240	61	235	245
25	222	306	110	378	418	515	647	620	237	26	171	242
26	219	287	110	e165	396	530	823	614	168	27	128	252
27	215	271	109	e1050	374	883	866	486	138	28	130	253
28	202	253	108	e1390	322	1390	853	382	137	28	129	254
29	220	240	108	e1690	---	1400	719	393	132	29	128	241
30	219	232	108	1770	---	1360	511	545	133	30	126	301
31	217	---	108	1700	---	1320	---	654	---	30	126	---
TOTAL	11383	5955	4934	12798	24839	20309	21634	13483	9513	2438	4105	6505
MEAN	367	198	159	413	887	655	721	435	317	78.6	132	217
MAX	735	376	264	1770	1740	1400	1110	845	833	112	250	301
MIN	202	14	108	106	322	262	278	250	132	26	28	126

CAL YR 1985 TOTAL 70102 MEAN 192 MAX 1600 MIN 14
WTR YR 1986 TOTAL 137896 MEAN 378 MAX 1770 MIN 14

e Estimated

01049550 TOGUS STREAM AT TOGUS, MAINE

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

DRAINAGE AREA.--23.7 mi².

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

GAGE.--Water-stage recorder and concrete control. Datum of gage is 131.28 ft above National Geodetic Vertical Datum of 1929. Prior to Oct. 1, 1982, at datum 0.28 ft lower.

REMARKS.--Estimated daily discharges: Oct. 24 to Dec. 11, Jan. 14-17, Feb. 26 to Mar. 4, Mar. 27 to Apr. 19, and Apr. 24, 25. Records good except for period of ice effect, Jan. 14-17, and periods of no gage-height record, Oct. 24 to Dec. 11, Feb. 26 to Mar. 4, Mar. 27 to Apr. 19, and Apr. 24, 25, which are fair. Several observations of water temperature and specific conductance were made during the year.

AVERAGE DISCHARGE.--5 years, 45.3 ft³/s, 25.9 in/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge 850 ft³/s, Apr. 25, 1983, gage height, 6.92 ft; minimum discharge 0.79 ft³/s, Sept. 30, 1984, gage height, 2.60 ft.

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

Date	Time	Discharge (ft ³ /s)	Gage height (ft)	Date	Time	Discharge (ft ³ /s)	Gage height (ft)
Jan. 29	1400	*486	*5.75	Mar. 20	1300	223	4.54

Minimum daily discharge, 2.5 ft³/s, Nov. 3-4.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1985 TO SEPTEMBER 1986
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	9.4	e2.6	e17	20	177	e20	e130	55	47	6.2	5.7	6.5
2	8.7	e2.6	e50	19	147	e18	e115	54	57	9.0	8.5	6.4
3	8.1	e2.5	e80	18	125	e17	e105	49	54	11	9.3	6.4
4	8.8	e2.5	e70	18	108	e19	e90	45	46	8.9	8.6	6.1
5	19	e6.0	e63	18	99	28	e82	44	42	8.6	7.4	6.3
6	30	e46	e59	20	90	26	e78	44	39	8.8	7.1	7.5
7	14	e60	e56	21	83	25	e90	47	37	10	6.5	6.3
8	16	e35	e54	22	77	26	e100	72	34	8.2	7.3	6.4
9	7.2	e22	e53	21	69	25	e96	66	33	7.2	7.0	6.1
10	5.1	e25	e52	21	70	24	e90	58	27	6.8	7.3	6.1
11	4.8	e35	e49	18	67	25	e84	56	28	6.3	8.6	6.0
12	5.7	e30	47	17	58	24	e78	54	26	5.9	8.5	5.9
13	5.7	e26	45	17	55	24	e72	47	24	5.5	7.5	5.7
14	5.7	e24	45	e17	52	26	e66	42	22	6.4	7.0	5.7
15	17	e43	42	e17	49	55	e62	38	20	5.7	6.8	5.6
16	15	e39	42	e17	47	64	e57	35	31	5.5	6.5	17
17	9.9	e50	39	e16	45	67	e53	36	39	5.2	6.5	74
18	6.7	e70	37	16	41	82	e48	34	41	5.3	7.8	58
19	6.3	e58	34	14	39	97	e44	30	46	5.1	9.2	50
20	5.2	e52	31	14	37	213	39	29	51	4.9	9.0	45
21	4.5	e47	30	23	36	202	41	27	23	5.0	7.9	43
22	4.2	e43	28	86	33	181	46	37	10	5.2	7.8	39
23	3.6	e38	28	128	32	150	51	54	9.0	5.0	7.1	38
24	e3.5	e35	27	129	30	114	e50	90	8.1	4.9	10	37
25	e3.2	e31	26	168	29	99	e49	108	7.1	4.4	9.3	34
26	e3.1	e28	26	259	e25	96	74	83	6.6	3.8	8.8	32
27	e3.0	e25	26	330	e24	e130	77	64	7.3	6.0	8.7	20
28	e2.9	e22	24	448	e22	e180	69	60	7.7	5.4	8.2	3.3
29	e2.8	e20	23	481	---	e160	64	57	7.2	5.4	7.6	3.6
30	e2.7	e18	22	373	---	e150	57	54	6.6	6.8	7.0	5.0
31	e2.6	---	21	235	---	e140	---	51	---	6.7	6.8	---
TOTAL	244.4	938.2	1246	3021	1766	2507	2157	1620	836.6	199.1	241.3	591.9
MEAN	7.88	31.3	40.2	97.5	63.1	80.9	71.9	52.3	27.9	6.42	7.78	19.7
MAX	30	70	80	481	177	213	130	108	57	11	10	74
MIN	2.6	2.5	17	14	22	17	39	27	6.6	3.8	5.7	3.3
CFSM	.33	1.32	1.70	4.11	2.66	3.41	3.03	2.20	1.18	.27	.33	.83
IN.	.38	1.47	1.96	4.74	2.77	3.94	3.39	2.54	1.31	.31	.38	.93

CAL YR 1985 TOTAL 8511.7 MEAN 23.3 MAX 187 MIN 1.9 CFSM .98 IN. 13.4
WTR YR 1986 TOTAL 15368.4 MEAN 42.1 MAX 481 MIN 2.5 CFSM 1.78 IN. 24.1

e Estimated

KENNEBEC RIVER BASIN

Reservoirs in Kennebec River Basin

- 01038500 BRASSUA LAKE on Moose River, 4 mi southwest of Rockwood, Maine, completed in 1928 for power, has usable capacity of 8,560,000,000 ft³ between elevations 1,043.0 ft and 1,073.0 ft. Elevation record furnished by Kennebec Water Power Co.
- 01040000 FIRST ROACH POND on Roach River, at Kokadjo, Maine, used for power, has usable capacity of 938,000,000 ft³ between gage heights 1.0 ft and 8.0 ft. Gage-height record furnished by Kennebec Water Power Co.
- 01040500 MOOSEHEAD LAKE on Kennebec River (see p. 76).
- 01041500 INDIAN POND on Kennebec River, in T. 1, R. 6, Maine, 13 mi downstream from east outlet of Moosehead Lake, completed in 1954 for power, has usable capacity of 690,000,000 ft³ in normal operating range between elevations 950.0 ft and 955.0 ft. Elevation record furnished by Central Maine Power Co.
- 01042000 MOXIE POND on Moxie Stream, 4.8 mi east of The Forks, Maine, used for power, has usable capacity of 640,000,000 ft³ between gage heights 6.0 ft and 14.0 ft. Gage-height record furnished by Kennebec Water Power Co.
- 01043000 FLAGSTAFF LAKE on Dead River, in T. 3, R. 4, Maine, 0.8 mi upstream from Black Brook, completed in 1950 for power, has usable capacity of 12,050,000,000 ft³ between elevations 1,110.0 ft and 1,146.0 ft. Elevation record furnished by Kennebec Water Power Co.
- 01045500 WYMAN POND on Kennebec River, 1.5 mi upstream from Bingham, Maine, completed in 1930 for power, has usable capacity of 2,943,000,000 ft³ in normal operating range between elevations 462.0 ft and 485.0 ft. Elevation record furnished by Central Maine Power Co.

MONTHEND USABLE CONTENTS, IN MILLIONS OF CUBIC FEET, WATER YEAR OCTOBER 1985 TO SEPTEMBER 1986

DATE	BRASSUA LAKE	FIRST ROACH POND	INDIAN POND	MOXIE POND	FLAGSTAFF LAKE	WYMAN POND
Sept. 30, 1985.....	8,552	570	728	577	9,340	2,694
Oct. 31.....	8,086	0	378	250	8,740	2,921
Nov. 30.....	6,616	0	594	0	9,643	2,822
Dec. 31.....	3,597	0	579	0	8,314	2,804
Jan. 31, 1986.....	2,352	329	651	210	10,429	2,937
Feb. 28.....	4,906	0	549	0	10,320	2,883
Mar. 31.....	4,387	262	692	60	8,456	2,919
Apr. 30.....	8,815	842	855	604	12,080	2,943
May 31.....	8,859	870	850	595	11,532	2,905
June 30.....	8,586	733	815	559	9,554	2,838
July 31.....	8,344	938	716	595	7,364	2,951
Aug. 31.....	8,899	774	863	586	7,792	2,796
Sept. 30.....	8,991	597	757	550	8,081	2,857

NOTE.--All values observed at 0700 on first day of following month.

01052500 DIAMOND RIVER NEAR WENTWORTH LOCATION, NH

LOCATION.--Lat 44°52'40", long 71°03'25", Coos County, Hydrologic Unit 01040001, on left bank 1.0 mi upstream from mouth and 1.6 mi north of Wentworth Location.

DRAINAGE AREA.--152 mi².

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

Water-quality records: Water year 1954.

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

GAGE.--Water-stage recorder. Elevation of gage is 1,275 ft above National Geodetic Vertical Datum of 1929, from topographic map.

REMARKS.--Estimated daily discharges: Dec. 4 to Jan 20, Jan. 28 to Feb. 5, Feb. 8 to Mar. 13, Jun. 9-24, and Jul. 15-29. Records good except for periods of ice effect, Dec. 4 to Jan. 20, Jan. 28 to Feb. 5, and Feb. 8 to Mar. 13, and periods of once-a-day telemark readings, Jun. 9-24 and July 15-29, which are fair. Several observations of water temperature and specific conductance were made during the year.

AVERAGE DISCHARGE.--45 years, 349 ft³/s, 31.18 in/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 8,630 ft³/s, June 16, 1943, gage height, 10.66 ft, from rating curve extended above 4,300 ft³/s; maximum gage height, 12.23 ft, Feb. 21, 1981, (ice jam); minimum discharge, 6.8 ft³/s, Aug. 27, 28, 1949, Sept. 1, 1952, gage height, 0.81 ft.

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

Date	Time	Discharge (ft ³ /s)	Gage height (ft)	Date	Time	Discharge (ft ³ /s)	Gage height (ft)
Jan. 27	2300	*4,790	*8.27	Mar. 31	1700	4,690	8.20

Minimum discharge, 40 ft³/s, July 12, gage height, 1.37 ft.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1985 TO SEPTEMBER 1986
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	199	107	180	e88	e490	e105	3050	383	270	96	166	118
2	165	105	309	e87	e425	e100	2990	388	504	78	519	104
3	157	102	318	e84	e355	e98	2210	353	277	76	346	102
4	135	98	e185	e83	e300	e96	1460	303	205	72	219	102
5	143	144	e170	e82	e260	e95	1130	313	172	69	141	97
6	321	754	e160	e81	230	e93	942	549	158	85	111	185
7	240	1030	e155	e78	210	e91	725	652	136	76	113	128
8	178	627	e150	e77	e195	e90	625	751	160	60	404	98
9	150	425	e145	e76	e190	e89	591	544	e302	50	1060	89
10	147	395	e140	e75	e180	e88	677	397	e170	43	588	80
11	220	498	e135	e73	e170	e105	553	328	e130	40	339	222
12	198	381	e130	e72	e165	e150	486	290	e180	40	247	718
13	186	694	e125	e71	e160	e190	452	257	e135	44	174	384
14	333	1040	e125	e70	e155	265	549	226	e115	73	138	259
15	352	607	e120	e69	e150	465	865	203	e110	e250	115	188
16	721	388	e120	e68	e145	743	1100	191	e100	e145	106	262
17	413	383	e115	e67	e135	591	1280	211	e160	e105	107	326
18	285	379	e115	e66	e135	480	1300	220	e210	e86	169	218
19	264	362	e110	e66	e130	461	1180	195	e130	e75	292	176
20	266	635	e110	e190	e125	1510	1040	414	e100	e68	162	161
21	215	699	e105	1160	e120	1870	1100	348	e95	e63	116	180
22	189	439	e105	1080	e120	1090	1150	418	e70	e59	97	165
23	173	354	e105	676	e115	618	815	421	e65	e55	87	222
24	160	309	e105	700	e115	387	644	460	e85	e52	172	688
25	158	259	e100	913	e110	317	726	479	90	e49	643	462
26	163	206	e98	1180	e110	281	903	331	83	e47	427	339
27	147	233	e97	3010	e105	783	851	259	93	e90	301	257
28	135	211	e96	e1800	e105	1130	682	223	375	e115	421	212
29	122	194	e94	e1100	---	1210	555	213	208	e145	245	195
30	114	189	e92	e820	---	2220	466	231	127	686	176	679
31	112	---	e90	e640	---	4120	---	197	---	302	141	---
TOTAL	6761	12247	4204	14702	5205	19931	31097	10748	5015	3294	8342	7416
MEAN	218	408	136	474	186	643	1037	347	167	106	269	247
MAX	721	1040	318	3010	490	4120	3050	751	504	686	1060	718
MIN	112	98	90	66	105	88	452	191	65	40	87	80
CFSM	1.43	2.69	.89	3.12	1.22	4.23	6.82	2.28	1.10	.70	1.77	1.63
IN.	1.65	3.00	1.03	3.60	1.27	4.88	7.61	2.63	1.23	.81	2.04	1.81

CAL YR 1985 TOTAL 122056 MEAN 334 MAX 3260 MIN 26 CFSM 2.20 IN. 29.9
WTR YR 1986 TOTAL 128962 MEAN 353 MAX 4120 MIN 40 CFSM 2.32 IN. 31.6

e Estimated

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

DRAINAGE AREA.--1,046 mi².

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

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

GAGE.--Water-stage recorder. Datum of gage is 1,227.30 ft above National Geodetic Vertical Datum of 1929. Prior to Dec. 8, 1943, nonrecording gage at Errol Dam at datum 5.0 ft higher.

REMARKS.--No estimated daily discharges. Records excellent. Flow regulated by Rangeley, Mooselookmeguntic, Richardson, Aziscohos, and Umbagog Lakes (Reservoirs in Androscoggin River Basin), combined usable capacity, 28,100,000,000 ft³, with final regulation at Errol Dam, 0.4 mi upstream. Several observations of water temperature and specific conductance were made during the year.

AVERAGE DISCHARGE.--81 years, 1,904 ft³/s.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 16,500 ft³/s, May 22, 1969, gage height 9.40 ft; minimum daily, leakage only at various times when gates in dam were closed.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 5,310 ft³/s, Apr. 3, gage-height, 4.94 ft; minimum daily, 717 ft³/s, Jan. 28.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1985 TO SEPTEMBER 1986
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1640	1720	1550	2080	1780	2380	2800	1580	1990	1800	1830	1730
2	1630	1720	1620	2150	1780	2290	4640	1570	1900	1800	1820	1750
3	1610	1720	1650	2140	1760	2410	5240	1560	1920	1790	1550	1740
4	1610	1720	1660	2130	1740	2390	4880	1550	1920	1790	1550	1740
5	1560	1720	1720	2110	2150	2730	3970	1550	1830	1790	1750	1800
6	1490	1700	1760	2120	2240	3370	3640	1490	1830	1780	1720	1810
7	1590	1290	1790	2140	2320	3080	2680	1440	1830	1780	1700	1810
8	1620	1050	1780	2240	2180	2470	2130	1580	1830	1810	1690	1810
9	1620	1150	1780	2310	2150	2460	2100	1690	1830	1840	1720	1690
10	1610	1220	1790	2130	2100	2480	1750	1700	1810	1850	1700	1810
11	1650	1230	1790	2080	2250	2490	1670	1650	1760	1860	1510	1800
12	1670	1260	1890	2030	2310	2490	1470	1570	1770	1840	1570	1810
13	1650	1240	2020	1970	2380	2490	1490	1590	1860	1820	1660	1820
14	1590	1210	2020	2250	2370	2500	1600	1640	1880	1770	1720	1810
15	1510	1280	2050	2270	2260	2530	1590	1680	1880	1750	1760	1800
16	1320	1290	2070	2270	1850	2540	1600	1700	1880	1810	1760	1750
17	1410	1310	2100	2210	2620	2260	1600	1720	1880	1820	1760	1770
18	1520	1380	2090	2060	2340	2000	1420	1720	1870	1840	1780	1770
19	1520	1410	2110	1880	2470	2050	1430	1720	1870	1850	1790	1770
20	1500	1420	2120	2030	2630	1440	1460	1680	1850	1840	1600	1730
21	1580	1420	2140	2130	2310	1480	1610	1690	1880	1840	1900	1700
22	1590	1410	2150	2190	2180	1480	1770	1920	1870	1850	1800	1680
23	1620	1410	2140	2140	2350	1500	1790	2160	1870	1840	1800	1690
24	1660	1430	2140	2130	2600	1640	1570	2400	1870	1860	1800	1700
25	1660	1460	2150	2100	2390	1740	1610	2510	1870	1840	1800	1710
26	1630	1560	2180	2110	2390	1780	1630	2550	1880	1840	1830	1720
27	1650	1610	2190	1110	1910	1610	1430	2550	1910	1720	1840	1720
28	1690	1620	2180	717	2740	1430	1350	2540	1920	1790	1700	1720
29	1700	1600	2170	1740	---	1130	1610	2470	1910	1820	1520	1720
30	1710	1560	2150	1920	---	1050	1590	2460	1860	1830	1690	1740
31	1710	---	2140	1650	---	1630	---	2340	---	1840	1680	---
TOTAL	49520	43120	61090	62537	62550	65320	65120	57970	56030	56300	53300	52620
MEAN	1597	1437	1971	2017	2234	2107	2171	1870	1868	1816	1719	1754
MAX	1710	1720	2190	2310	2740	3370	5240	2550	1990	1860	1900	1820
MIN	1320	1050	1550	717	1740	1050	1350	1440	1760	1720	1510	1680

CAL YR 1985 TOTAL 559292 MEAN 1532 MAX 4010 MIN 519
WTR YR 1986 TOTAL 685477 MEAN 1878 MAX 5240 MIN 717

01054000 ANDROSCOGGIN RIVER NEAR GORHAM, NH

LOCATION.--Lat 44°26'30", long 71°11'16", Coos County, Hydrologic Unit 01040001, on right bank at Pulsifer Rips, 2.2 mi downstream from Dead River, and 4.0 mi upstream from Gorham.

DRAINAGE AREA.--1,361 mi².

PERIOD OF RECORD.--October 1913 to current year. October 1922 to February 1929, monthly discharge only, published in WSP 1301. Prior to October 1928, published as "at Berlin."

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

GAGE.--Water-stage recorder. Datum of gage is 832.88 ft above National Geodetic Vertical Datum of 1929. Prior to Sept. 30, 1922, nonrecording gage showing head and tailwater elevations at site 3 mi upstream at different datum.

REMARKS.--No estimated daily discharges. Records excellent. Flow regulated by Rangeley, Mooselookmeguntic, Richardson, Aziscohos, and Umbagog Lakes combined usable capacity, 28,100,000,000 ft³, with final regulation at Errol Dam 35 mi upstream. Diurnal fluctuations caused by power plant 0.8 mi upstream. Several observations of water temperature and specific conductance were made during the year.

AVERAGE DISCHARGE.--73 years, 2,467 ft³/s.

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

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 9,060 ft³/s, Apr. 3, gage height, 7.14 ft; minimum daily, 1,770 ft³/s, Oct. 30.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1985 TO SEPTEMBER 1986
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1950	1920	1920	2430	2640	2780	7050	2170	2650	2020	2170	1890
2	1960	1920	2120	2320	2630	2540	8150	2180	2580	1960	2510	1950
3	1920	1930	2300	2400	2550	2500	8740	2130	2420	1970	2400	1970
4	1910	1920	1880	2330	2350	2570	7790	2060	2330	2070	1890	1890
5	1920	2020	2210	2310	2310	2580	6210	2060	2210	1960	1940	1940
6	1980	2900	2220	2340	2610	2990	5420	2180	2110	1940	1950	2220
7	1930	3330	2130	2270	2710	3260	4610	2260	2100	1960	1930	2230
8	1890	2480	2170	2280	2660	2910	3670	2460	2100	1930	2070	2080
9	1940	1970	2140	2400	2510	2600	3490	2620	2180	1960	2580	2000
10	1900	1820	2130	2600	2540	2590	3330	2400	2090	1950	2610	1880
11	1860	2010	2130	2400	2400	2630	2770	2280	2090	1970	2240	2010
12	1920	1940	2160	2310	2530	2680	2710	2150	2090	1970	1940	2120
13	1900	1990	2250	2300	2620	2700	2510	2020	2060	1990	1910	2130
14	1950	2280	2280	2190	2660	2760	2560	1980	2170	2060	1910	2060
15	1980	2270	2200	2430	2660	2980	2700	2040	2130	2110	1950	2020
16	2370	2010	2400	2460	2500	3170	2750	2040	2100	2010	1970	2170
17	1980	1940	2380	2420	2260	3250	2800	2080	2340	1970	2000	2260
18	1890	1940	2340	2440	2720	2810	2740	2110	2290	1990	2020	2150
19	2010	2050	2210	2330	2600	2860	2470	2090	2140	1980	2000	2070
20	1990	2180	2410	2230	2680	3510	2400	2170	2080	1990	1980	2060
21	1890	2380	2370	2480	2810	3230	2470	2230	2080	1950	1840	2030
22	2000	2140	2380	2720	2520	2860	2890	2410	2070	1930	1990	2060
23	2010	2030	2410	2680	2420	2540	3000	2790	2080	1940	1940	2030
24	1900	1980	2420	2530	2590	2420	2660	3120	2090	1930	2120	2280
25	1940	1920	2430	2440	2760	2400	2350	3690	2090	1950	2200	2240
26	1910	1890	2360	2550	2600	2480	2890	3290	2070	1970	2190	2110
27	1860	2000	2370	6060	2580	3240	2960	3190	2090	2100	2220	2080
28	1870	2030	2430	5610	2170	3930	2360	2990	2200	1990	2640	2050
29	1920	2020	2370	3550	---	4020	2260	2900	2210	2030	2100	2050
30	1770	1970	2420	3680	---	5040	2330	2850	2260	2320	1900	2140
31	1890	---	2320	3270	---	7560	---	2830	---	2360	1940	---
TOTAL	60110	63180	70260	84760	71590	96390	111040	75770	65500	62230	65050	62170
MEAN	1939	2106	2266	2734	2557	3109	3701	2444	2183	2007	2098	2072
MAX	2370	3330	2430	6060	2810	7560	8740	3690	2650	2360	2640	2280
MIN	1770	1820	1880	2190	2170	2400	2260	1980	2060	1930	1840	1880

CAL YR 1985 TOTAL 741790 MEAN 2032 MAX 6680 MIN 1510
WTR YR 1986 TOTAL 888050 MEAN 2433 MAX 8740 MIN 1770

ANDROSCOGGIN RIVER BASIN

01054200 WILD RIVER AT GILEAD, ME
(Hydrologic bench-mark station)

LOCATION.--Lat 44°23'27", long 70°58'47", Oxford County, Hydrologic Unit 01040002, on right bank 200 ft upstream from highway bridge on U.S. Route 2, 2,000 ft upstream from mouth, and 0.4 mi west of Gilead.
DRAINAGE AREA.--69.6 mi².

WATER-DISCHARGE RECORDS

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

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

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

REMARKS.--Estimated Daily discharges: Dec. 5 to Jan. 20, Jan. 23-27, Feb. 5 to Mar. 19, Mar. 21-23 and Mar. 25. Records good except for periods of ice effect, Dec. 5 to Jan. 20, Jan. 23-27, Feb. 5 to Mar. 19, Mar. 21-23 and Mar. 25, which are fair.

AVERAGE DISCHARGE.--22 years, 183 ft³/s, 35.71 in/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 13,400 ft³/s, Apr. 5, 1984, gage height, 12.95 ft; minimum, 7.6 ft³/s, July 16, 1971, gage height, 1.89 ft.

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

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

Date	Time	Discharge (ft ³ /s)	Gage height (ft)	Date	Time	Discharge (ft ³ /s)	Gage height (ft)
Nov. 06	0545	4,040	7.75	Jan. 26	1715	ice jam	*14.78
Jan. 20	2200	4,070	7.77	Jan. 27	1000	*12,200	12.35

Minimum discharge, 21 ft³/s, July 24-26, gage height, 3.07 ft.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1985 TO SEPTEMBER 1986
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	74	44	83	e70	211	e53	960	255	144	40	187	52
2	60	43	557	e70	225	e52	1150	230	218	42	412	48
3	53	42	280	e69	251	e52	728	194	149	63	206	46
4	48	40	154	e67	211	e51	486	170	119	58	128	52
5	354	483	e135	e65	e165	e51	381	164	99	47	86	54
6	424	2520	e120	e64	e160	e51	327	167	92	43	68	73
7	163	841	e115	e63	e150	e51	311	179	85	41	69	58
8	108	348	e105	e62	e145	e51	337	299	92	35	266	48
9	85	226	e100	e61	e135	e51	319	248	83	30	316	44
10	74	209	e99	e60	e125	e50	334	188	67	27	190	40
11	66	184	e97	e59	e115	e50	290	167	98	26	131	40
12	58	153	e94	e58	e110	e120	242	152	123	26	100	43
13	81	221	e92	e57	e105	e84	226	138	141	41	73	42
14	113	221	e90	e56	e98	e84	248	125	120	58	63	37
15	198	233	e88	e55	e93	e140	287	116	83	110	55	34
16	338	160	e88	e55	e89	e235	324	112	66	55	55	83
17	151	170	e87	e55	e85	e140	332	118	155	39	54	94
18	110	195	e86	e65	e82	e110	319	112	101	34	104	64
19	95	190	e84	e93	e79	e270	280	101	74	30	170	53
20	83	360	e83	e800	e75	757	251	95	62	29	88	48
21	73	283	e82	1640	e72	e230	281	163	58	29	66	66
22	67	183	e81	497	e69	e185	421	465	51	26	59	68
23	62	154	e80	e225	e66	e180	292	304	50	23	51	57
24	59	133	e78	e135	e63	149	219	764	54	22	202	85
25	66	112	e77	e150	e60	e135	347	960	48	21	144	65
26	62	99	e76	e1590	e58	173	1290	357	45	22	96	54
27	55	121	e75	e6580	e56	710	803	241	45	110	110	48
28	50	109	e74	1100	e55	742	484	193	58	97	140	44
29	47	107	e73	450	---	782	372	157	51	152	87	43
30	46	90	e72	334	---	1600	309	144	47	743	68	70
31	45	---	e71	269	---	1470	---	121	---	339	59	---
TOTAL	3368	8274	3476	14974	3208	8859	12950	7199	2678	2458	3903	1653
MEAN	109	276	112	483	115	286	432	232	89.3	79.3	126	55.1
MAX	424	2520	557	6580	251	1600	1290	960	218	743	412	94
MIN	45	40	71	55	55	50	219	95	45	21	51	34
CFSM	1.56	3.96	1.61	6.94	1.65	4.11	6.20	3.34	1.28	1.14	1.81	.79
IN.	1.80	4.42	1.86	8.00	1.71	4.73	6.92	3.85	1.43	1.31	2.09	.88

CAL YR 1985 TOTAL 63451 MEAN 174 MAX 2520 MIN 12 CFSM 2.50 IN. 33.9
WTR YR 1986 TOTAL 73000 MEAN 200 MAX 6580 MIN 21 CFSM 2.87 IN. 39.0

e Estimated

01054200 WILD RIVER AT GILEAD, ME--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 1964 to current year.

PERIOD OF DAILY RECORD.--

WATER TEMPERATURES: July 1964 to September 1983.

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.

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1985 TO SEPTEMBER 1986

DATE	TIME	STREAM- FLOW, INSTAN- TANEOUS (CFS)	SPE- CIFIC CON- DUCT- ANCE (US/CM)	PH (STAND- ARD UNITS)	TEMPER- ATURE AIR (DEG C)	TEMPER- ATURE WATER (DEG C)	TUR- BID- ITY (NTU)	BARO- METRIC PRES- SURE (MM OF HG)	OXYGEN, DIS- SOLVED (MG/L)	OXYGEN, DIS- SOLVED CENT SATUR- ATION	COLI- FORM, FECAL, 0.7 UM-MF (COLS./ 100 ML)	STREP- TOCOCCI FECAL, KF AGAR (COLS. PER 100 ML)
OCT												
23...	1100	62	22	6.50	14.0	5.0	0.20	754	12.1	96	K 3	K 2
FEB												
25...	1200	E 60	20	6.30	1.0	0.0	--	734	14.0	99	<1	<1
MAR												
12...	0800	E120	27	6.30	1.0	0.0	0.50	749	14.2	99	>60	<1
APR												
09...	1300	266	16	6.40	11.0	4.5	1.4	726	12.0	97	--	<1
AUG												
14...	0930	135	20	6.60	30.0	17.0	0.40	749	9.9	104	K 11	K 18

DATE	HARD- NESS (MG/L AS CACO3)	CALCIUM DIS- SOLVED (MG/L AS CA)	MAGNE- SIUM, DIS- SOLVED (MG/L AS MG)	SODIUM, DIS- SOLVED (MG/L AS NA)	POTAS- SIUM, DIS- SOLVED (MG/L AS K)	ALKA- LINITY FIELD (MG/L AS CACO3)	SULFATE DIS- SOLVED (MG/L AS SO4)	CHLO- RIDE, DIS- SOLVED (MG/L AS CL)	FLUO- RIDE, DIS- SOLVED (MG/L AS F)	SILICA, DIS- SOLVED (MG/L AS SIO2)	SOLIDS, RESIDUE AT 180 DEG. C DIS- SOLVED (MG/L)	SOLIDS, SUM OF CONSTI- TUENTS, DIS- SOLVED (MG/L)
OCT												
23...	5	1.4	0.48	1.1	0.30	5.0	3.7	1.0	<0.10	6.3	19	18
FEB												
25...	--	--	--	--	--	--	--	--	--	--	--	--
MAR												
12...	6	1.4	0.50	1.5	0.50	L 3.0	7.2	1.2	<0.10	7.0	23	21
APR												
09...	5	1.2	0.40	0.90	0.40	L 3.0	6.0	0.60	<0.10	4.9	17	16
AUG												
14...	5	1.3	0.47	1.1	0.90	L 4.0	6.1	0.70	<0.10	6.4	22	19

DATE	NITRO- GEN, NO2+NO3 DIS- SOLVED (MG/L AS N)	NITRO- GEN, AMMONIA DIS- SOLVED (MG/L AS N)	NITRO- GEN, AMMONIA DIS- SOLVED (MG/L AS NH4)	NITRO- GEN,AM- MONIA + ORGANIC TOTAL (MG/L AS N)	PHOS- PHORUS, TOTAL (MG/L AS P)	PHOS- PHORUS, DIS- SOLVED (MG/L AS P)	PHOS- PHORUS, ORTHO, DIS- SOLVED (MG/L AS P)	ALUM- INUM, DIS- SOLVED (UG/L AS AL)	ARSENIC DIS- SOLVED (UG/L AS AS)	BARIUM, DIS- SOLVED (UG/L AS BA)
OCT										
23...	<0.100	0.090	0.12	<0.10	0.010	0.010	0.020	80	<1	7
FEB										
25...	<0.100	0.030	0.04	0.20	<0.010	<0.010	<0.010	--	--	--
MAR										
12...	<0.100	0.040	0.05	0.50	<0.010	<0.010	0.010	70	<1	7
APR										
09...	<0.100	0.020	0.03	<0.20	<0.010	<0.010	<0.010	130	<1	6
AUG										
14...	<0.100	0.020	0.03	<0.20	0.010	0.010	<0.010	--	--	--

E Estimated discharge.

K Results based on colony count outside the acceptable range (non-ideal colony count).

L Lab alkalinity value reported.

ANDROSCOGGIN RIVER BASIN

01054200 WILD RIVER AT GILEAD, ME--Continued

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1985 TO SEPTEMBER 1986

DATE	BERYL- LIUM, DIS- SOLVED (UG/L AS BE)	CADMIUM, DIS- SOLVED (UG/L AS CD)	CHRO- MIUM, DIS- SOLVED (UG/L AS CR)	COBALT, DIS- SOLVED (UG/L AS CO)	COPPER, DIS- SOLVED (UG/L AS CU)	IRON, DIS- SOLVED (UG/L AS FE)	LEAD, DIS- SOLVED (UG/L AS PB)	LITHIUM DIS- SOLVED (UG/L AS LI)	MANGA- NESE, DIS- SOLVED (UG/L AS MN)	MERCURY DIS- SOLVED (UG/L AS HG)
OCT 23...	<0.5	41	<1	<3	2	47	<1	<4	4	<0.1
FEB 25...	--	--	--	--	--	--	--	--	--	--
MAR 12...	<0.5	<1	<1	<3	4	25	1	<4	3	<0.1
APR 09...	<0.5	<1	4	<3	2	27	2	<4	4	<0.1
AUG 14...	--	--	--	--	--	--	--	--	--	--

DATE	MOLYB- DENUM, DIS- SOLVED (UG/L AS MO)	NICKEL, DIS- SOLVED (UG/L AS NI)	SELE- NIUM, DIS- SOLVED (UG/L AS SE)	SILVER, DIS- SOLVED (UG/L AS AG)	STRON- TIUM, DIS- SOLVED (UG/L AS SR)	VANA- DIUM, DIS- SOLVED (UG/L AS V)	ZINC, DIS- SOLVED (UG/L AS ZN)	SEDI- MENT, DIS- SUS- PENDE (MG/L)	SEDI- MENT, DIS- CHARGE, SUS- PENDE (T/DAY)	SED. SUSP. SIEVE DIAM. % FINER THAN .062 MM
OCT 23...	<10	<1	<1	<1	14	<6	23	1	0.17	66
FEB 25...	--	--	--	--	--	--	--	1	--	75
MAR 12...	<10	<1	<1	1	14	<6	18	1	--	75
APR 09...	<10	<1	<1	<1	10	<6	7	1	0.72	75
AUG 14...	--	--	--	--	--	--	--	6	2.2	74

RADIOCHEMICAL ANALYSES, WATER YEAR OCTOBER 1985 TO SEPTEMBER 1986

DATE	GROSS ALPHA, DIS- SOLVED (UG/L AS U-NAT) (80030)	GROSS ALPHA, SUSP. TOTAL (UG/L AS U-NAT) (80040)	GROSS BETA, DIS- SOLVED (PCI/L AS CS-137) (03515)	GROSS BETA, SUSP. TOTAL (PCI/L AS CS-137) (03516)	GROSS BETA, DIS- SOLVED (PCI/L AS SR/ YT-90) (80050)	GROSS BETA, SUSP. TOTAL (PCI/L AS SR/ YT-90) (80060)	RADIUM 226, DIS- SOLVED, RADON METHOD (PCI/L) (09511)	URANIUM DIS- SOLVED, EXTRAC- TION (UG/L) (80020)
OCT 23...	--	--	--	--	--	--	--	--
FEB 25...	--	--	--	--	--	--	--	--
MAR 12...	--	--	--	--	--	--	--	--
APR 09...	<0.6	<0.7	0.6	<0.7	0.6	<0.7	0.03	0.19
AUG 14...	--	--	--	--	--	--	--	--

01054500 ANDROSCOGGIN RIVER AT RUMFORD, ME

LOCATION.--Lat 44°32'33", long 70°32'50", Oxford County, Hydrologic Unit 01040002, on right bank below lower power plant of Rumford Falls Power Co. in Rumford and 1,000 ft upstream from Swift River.

DRAINAGE AREA.--2,068 mi².

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

REVISED RECORDS.--WSP 1001: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 420.00 ft above National Geodetic Vertical Datum of 1929. Aug. 1, 1937, to Nov. 19, 1979, nonrecording gages in pond above dam in tailrace of upper plant. Prior to Aug. 1, 1937, nonrecording gages in pond and tailrace of middle plant.

REMARKS.--Estimated daily discharges: Oct. 5-20, Nov. 9-15, June 30, and July 1 and 28. Records fair, including periods of doubtful gage-height record, Oct. 5-20, Nov. 9-15, June 30, and July 1 and 28. Prior to Nov. 19, 1979, discharge computed from flow over upper dam and through wheels. Flow regulated by Rangeley, Mooselookmeguntic, Richardson, Umbagog, and Aziscohos Lakes (Reservoirs in Androscoggin River Basin), with final regulation at Errol Dam about 84 mi upstream. Several observations of water temperature and specific conductance were made during the year.

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

AVERAGE DISCHARGE.--94 years, 3,727 ft³/s.

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

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 40,400 ft³/s, Jan. 28, gage height 17.07 ft; minimum daily, 1,910 ft³/s, Jan. 1.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1985 TO SEPTEMBER 1986
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	2260	2190	2540	2820	5890	2810	17100	4740	4410	e2500	3820	2350
2	2290	2180	3350	2760	4930	3420	15800	5250	4930	2620	4500	2300
3	2260	2200	4600	2810	4830	3190	15700	4840	4820	2730	5010	2280
4	2250	2160	2840	2690	4640	3060	13200	4500	4090	2750	3630	2270
5	e3500	2310	2980	2680	3990	3100	10900	4380	3820	2740	2770	2280
6	e4850	9100	3470	2750	3910	3110	9120	4510	3530	2390	2730	2520
7	e3100	10100	2980	2720	3980	3420	8230	4930	3390	2370	2660	2740
8	e2650	6660	3020	2480	4020	3850	7570	6000	3080	2320	3170	2530
9	e2400	e4700	2920	2720	4070	3510	6950	6190	3350	2230	4440	2370
10	e2350	e3700	2700	2980	3830	3390	6920	5460	3180	2260	4720	2230
11	e2300	e3200	2970	3070	3770	3270	6330	4810	3050	2220	3960	2210
12	e2350	e3050	2880	2840	3710	3500	5570	4510	3200	2270	3080	2330
13	e2420	e2900	2580	2860	3590	3780	5040	4270	3090	2330	2640	2490
14	e2500	e3700	2750	2670	3660	3610	4820	4010	2940	2470	2500	2330
15	e2880	e3650	2290	1910	3770	3840	5170	3780	2860	2850	2420	2280
16	e4000	3650	2720	2770	3780	4680	5450	3760	2720	2730	2450	2480
17	e3200	3180	2890	2920	3500	5300	5420	3830	2980	2330	2430	2960
18	e2700	3230	2690	2940	3070	5090	5370	3910	3300	2340	2430	2790
19	e2500	3440	2130	3100	3630	5040	5100	3810	2770	2330	2700	2450
20	e2380	3810	2750	3120	3630	6850	4590	3720	2400	2320	2530	2430
21	2140	4580	3040	4510	3700	6850	4360	4110	2400	2320	2520	2450
22	2320	3970	3160	4790	3700	5700	5060	5130	2460	2380	2200	2580
23	2410	3390	2990	4360	3500	5280	5340	5910	2390	2290	2190	2520
24	2340	3070	3090	3800	3280	4730	4790	5860	2390	2170	2620	2710
25	2400	2860	3140	3400	3190	4320	4310	9130	2410	2280	3060	3000
26	2380	2620	2870	3780	3420	4120	7460	7680	2420	2500	3070	2700
27	2290	2730	2810	23500	3100	6030	8740	6110	2420	3320	2730	2520
28	2210	2810	2990	33700	3080	9650	6660	5520	2610	e3220	3350	2400
29	2220	2660	2860	14600	---	10400	5030	5120	2750	3050	3290	2370
30	2170	2640	2740	8370	---	14700	4520	4940	e2490	4580	2520	2410
31	2170	---	2800	7240	---	19300	---	4580	---	5430	2400	---
TOTAL	80190	110440	90540	167660	107170	168900	220620	155300	92650	82640	94540	74280
MEAN	2587	3681	2921	5408	3827	5448	7354	5010	3088	2666	3050	2476
MAX	4850	10100	4600	33700	5890	19300	17100	9130	4930	5430	5010	3000
MIN	2140	2160	2130	1910	3070	2810	4310	3720	2390	2170	2190	2210

CAL YR 1985 TOTAL 1127960 MEAN 3090 MAX 11500 MIN 1770
WTR YR 1986 TOTAL 1444930 MEAN 3959 MAX 33700 MIN 1910

e Estimated

ANDROSCOGGIN RIVER BASIN

01055000 SWIFT RIVER NEAR ROXBURY, ME

LOCATION.--Lat 44°38'32", long 70°35'17", Oxford County, Hydrologic Unit 01040002, on left bank 0.2 mi downstream from Philbrick Brook, 2.1 mi downstream from Roxbury, and 7.2 mi upstream from mouth.

DRAINAGE AREA.--96.9 mi².

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

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

GAGE.--Water-stage recorder. Datum of gage is 615.67 ft above National Geodetic Vertical Datum of 1929.

REMARKS.--Estimated daily discharges: Dec. 4-28, Dec. 31 to Jan. 7, Jan. 20, 24, Jan. 29 to Mar. 23 and Mar. 25. Records are good except for periods of ice effect, Dec. 4-28, Dec. 31 to Jan. 7, Jan. 20, 24, Jan. 29 to Mar. 23 and Mar. 25, which are fair. Several observations of water temperature and specific conductance were made during the year.

AVERAGE DISCHARGE.--57 years, 199 ft³/s, 27.89 in/yr.

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

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 2,400 ft³/s and maximum (*):

Date	Time	Discharge (ft ³ /s)	Gage height (ft)	Date	Time	Discharge (ft ³ /s)	Gage height (ft)
Jan. 27	1230	*11,900	*10.98	No other peak greater than base discharge.			
Minimum discharge, 13 ft ³ /s, Jul. 25, 26, gage height, 1.05 ft.							

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1985 TO SEPTEMBER 1986
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	67	54	101	e66	e185	e62	1220	259	178	48	184	52
2	54	53	395	e66	e175	e61	1250	242	261	43	932	46
3	50	52	295	e65	e160	e60	879	207	169	68	302	43
4	46	52	e135	e65	e145	e60	624	178	136	71	328	49
5	264	89	e120	e65	e135	e60	493	190	116	49	162	49
6	676	1300	e110	e65	e125	e59	409	296	105	46	109	176
7	227	982	e100	e64	e115	e59	348	442	92	41	89	108
8	138	377	e96	63	e110	e59	323	607	110	34	173	71
9	106	239	e91	62	e105	e58	338	372	120	27	153	57
10	93	240	e87	59	e100	e58	391	273	87	23	130	48
11	83	261	e83	56	e98	e58	346	234	98	21	125	71
12	72	197	e80	54	e95	e58	295	207	111	20	132	145
13	76	295	e78	53	e92	e58	284	184	93	25	87	99
14	128	351	e75	52	e88	e80	327	165	97	99	69	69
15	272	241	e73	51	e86	e230	415	152	78	165	58	58
16	463	173	e71	47	e83	e395	489	144	66	76	60	125
17	210	178	e70	45	e81	e155	527	155	145	47	59	133
18	144	208	e70	46	e79	e135	515	146	107	35	55	89
19	123	203	e69	47	e77	e195	457	142	77	28	65	72
20	109	386	e69	e185	e76	e770	404	174	63	27	54	66
21	95	423	e69	883	e73	e710	423	262	55	26	46	86
22	86	248	e69	512	e72	e335	485	515	47	22	44	85
23	81	202	e69	310	e70	e230	386	395	45	18	41	123
24	75	172	e68	e195	e68	159	302	378	51	16	191	270
25	77	145	e68	e175	e67	e145	452	615	45	14	123	173
26	75	123	e67	e550	e65	143	1060	308	43	25	90	127
27	68	131	e67	e7040	e64	425	776	226	52	227	178	102
28	63	118	e66	1720	e63	585	487	196	121	137	203	87
29	58	111	66	e560	---	719	368	163	71	82	109	80
30	56	107	66	e315	---	1500	311	157	60	334	79	131
31	56	---	e66	e220	---	1880	---	132	---	260	63	---
TOTAL	4191	7711	3009	13756	2752	9561	15384	8116	2899	2154	4493	2890
MEAN	135	257	97.1	444	98.3	308	513	262	96.6	69.5	145	96.3
MAX	676	1300	395	7040	185	1880	1250	615	261	334	932	270
MIN	46	52	66	45	63	58	284	132	43	14	41	43
CFSM	1.40	2.65	1.00	4.58	1.01	3.18	5.29	2.70	.99	.72	1.50	.99
IN.	1.61	2.96	1.16	5.28	1.06	3.67	5.91	3.12	1.11	.83	1.72	1.11

CAL YR 1985 TOTAL 57405 MEAN 157 MAX 1310 MIN 5.1 CFSM 1.62 IN. 22.0
WTR YR 1986 TOTAL 76916 MEAN 211 MAX 7040 MIN 14 CFSM 2.17 IN. 29.5

e Estimated

01055500 NEZINSCOT RIVER AT TURNER CENTER, ME

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

DRAINAGE AREA.--169 mi².

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

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

GAGE.--Water-stage recorder. Datum of gage is 276.29 ft above National Geodetic Vertical Datum of 1929.

REMARKS.--Estimated daily discharges: Dec. 3, 4, 7, Dec. 9 to Jan. 27, and Jan. 29 to Mar. 25. Records good except for periods of ice effect, Dec. 3, 4, 7, Dec. 9 to Jan. 27, and Jan. 29 to Mar. 25, which are fair. Several observations of water temperature and specific conductance were made during the year.

AVERAGE DISCHARGE.--45 years, 306 ft³/s, 24.59 in/yr.

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

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

Date	Time	Discharge (ft ³ /s)	Gage height (ft)	Date	Time	Discharge (ft ³ /s)	Gage height (ft)
Jan. 28	0700	*5,740	*7.17	Mar. 31	1500	1,930	4.61

Minimum discharge, 29 ft³/s, July 26, gage height, 1.06 ft.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1985 TO SEPTEMBER 1986
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	115	57	138	e115	e800	e170	1700	351	276	69	284	69
2	88	55	254	e110	e710	e165	1350	310	448	70	275	61
3	73	54	e420	e110	e640	e165	1060	272	583	90	287	56
4	75	53	e255	e110	e570	e155	840	242	411	114	237	54
5	104	78	262	e110	e510	e155	692	228	300	115	178	54
6	246	569	231	e110	e480	e140	585	236	241	100	136	71
7	269	944	e185	e110	e430	e135	604	271	204	88	280	86
8	185	681	177	e110	e400	e135	777	487	201	78	505	82
9	135	438	e160	e105	e380	e130	809	528	206	67	838	71
10	110	331	e140	e105	e355	e130	718	428	174	61	712	64
11	92	289	e130	e100	e330	e130	636	360	152	53	462	60
12	78	251	e125	e89	e315	e145	575	311	164	49	334	58
13	73	230	e120	e85	e300	e150	509	276	167	50	249	60
14	82	244	e115	e84	e280	e155	451	248	165	54	193	64
15	122	299	e115	e77	e265	e310	405	225	147	60	157	60
16	250	289	e115	e72	e255	e480	359	211	129	61	138	67
17	246	277	e115	e70	e245	e430	324	222	144	55	130	84
18	176	326	e115	e75	e235	e470	297	225	156	48	116	83
19	139	380	e110	e86	e230	e640	276	195	138	44	102	71
20	119	391	e110	e195	e220	e960	256	169	124	43	95	62
21	105	382	e110	e390	e215	e945	251	163	109	42	86	65
22	93	326	e110	e445	e210	e735	331	217	92	38	77	68
23	83	283	e110	e465	e200	e635	341	297	84	35	68	72
24	77	255	e110	e480	e195	e570	291	415	83	33	106	101
25	76	227	e115	e480	e190	e480	299	1380	80	31	171	118
26	74	183	e120	e690	e185	479	584	1150	73	32	140	103
27	71	176	e125	e2900	e180	790	803	709	72	96	110	91
28	67	165	e120	5150	e175	1320	684	612	84	215	114	80
29	60	155	e115	e2880	---	1610	528	494	89	163	113	73
30	60	143	e115	e1350	---	1720	421	384	78	182	92	76
31	59	---	e115	e930	---	1890	---	318	---	283	79	---
TOTAL	3602	8531	4657	18188	9500	16524	17756	11934	5374	2519	6864	2184
MEAN	116	284	150	587	339	533	592	385	179	81.3	221	72.8
MAX	269	944	420	5150	800	1890	1700	1380	583	283	838	118
MIN	59	53	110	70	175	130	251	163	72	31	68	54
CFSM	.69	1.68	.89	3.47	2.01	3.15	3.50	2.28	1.06	.48	1.31	.43
IN.	.79	1.88	1.03	4.00	2.09	3.64	3.91	2.63	1.18	.55	1.51	.48

CAL YR 1985 TOTAL 65735 MEAN 180 MAX 1530 MIN 14 CFSM 1.07 IN. 14.5
WTR YR 1986 TOTAL 107633 MEAN 295 MAX 5150 MIN 31 CFSM 1.74 IN. 23.7

e Estimated

01056000 GULF ISLAND POND NEAR LEWISTON, ME

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

DRAINAGE AREA.--2,863 mi².

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

PERIOD OF DAILY RECORD.--

SPECIFIC CONDUCTANCE: July 1981 to current year.

pH: July 1981 to current year.

WATER TEMPERATURES: July 1981 to current year.

DISSOLVED OXYGEN: July 1981 to current year.

INSTRUMENTATION.--Water quality monitor since July 1981. Continuous flow through system. Submersible pump located 30 ft below top of dam.

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

EXTREMES FOR PERIOD OF DAILY RECORD.--

SPECIFIC CONDUCTANCE: Maximum, 187 microsiemens, Feb. 8, 1985; minimum, 24 microsiemens, June 2, 1984.

pH: Maximum recorded, 7.3 units, Aug. 20, 1983, Dec. 20, 21, 1985; minimum, 6.0 units, Aug. 17, 1981, Apr. 7-8, 1984.

WATER TEMPERATURES: Maximum, 26.5°C, Aug. 9, 1983; minimum, -0.5°C, Jan. 9, 1985.

DISSOLVED OXYGEN: Maximum, 15.5 mg/L, Dec. 15, 1983, April 7, 1984; minimum, 2.3 mg/L, July 28, 1982.

EXTREMES FOR CURRENT YEAR.--

SPECIFIC CONDUCTANCE: Maximum, 171 microsiemens, Oct. 1; minimum, 31 microsiemens, Jan. 29.

pH: Maximum, 7.3 units, Dec. 20, 21; minimum, 6.2 units, Apr. 1-5.

WATER TEMPERATURES: Maximum, 25.0°C, July 27; minimum, 0.0°C, on many days during winter periods.

DISSOLVED OXYGEN: Maximum, 14.8 mg/L, Mar. 26; minimum, 3.7 mg/L, July 7.

SPECIFIC CONDUCTANCE (MICROMHOS/CM AT 25 DEG. C), WATER YEAR OCTOBER 1985 TO SEPTEMBER 1986

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
OCTOBER			NOVEMBER			DECEMBER			JANUARY			
1	171	104	125	122	120	121	95	91	92	---	---	---
2	143	89	110	123	120	122	103	92	98	---	---	---
3	146	81	114	126	122	124	104	97	102	---	---	---
4	126	85	104	129	124	127	104	101	103	---	---	---
5	127	77	96	132	128	131	107	102	105	---	---	---
6	105	82	90	138	131	133	109	105	107	---	---	---
7	113	104	109	142	129	137	110	108	109	---	---	---
8	132	115	124	127	83	100	109	102	107	---	---	---
9	134	126	130	86	59	68	106	94	101	---	---	---
10	127	115	122	59	54	56	101	92	97	---	---	---
11	124	119	121	55	54	54	101	94	97	---	---	---
12	119	114	117	58	55	57	100	97	98	---	---	---
13	118	108	113	62	58	59	101	98	99	---	---	---
14	112	104	109	65	58	62	106	101	104	---	---	---
15	110	104	106	74	64	69	117	103	106	---	---	---
16	121	109	112	81	74	78	109	105	108	---	---	---
17	119	111	114	86	81	83	111	108	109	---	---	---
18	133	116	122	89	84	86	118	109	114	---	---	---
19	131	127	129	91	85	89	117	113	115	---	---	---
20	127	125	127	90	79	85	126	117	120	---	---	---
21	127	124	125	83	80	81	136	123	127	---	---	---
22	125	110	119	86	84	85	137	127	133	---	---	---
23	114	100	108	89	87	87	---	---	---	137	128	133
24	110	100	103	89	88	88	---	---	---	128	122	125
25	109	104	107	88	86	87	---	---	---	123	107	117
26	110	109	109	86	82	83	---	---	---	114	91	99
27	112	109	110	83	82	82	---	---	---	108	86	94
28	111	110	111	87	83	85	---	---	---	85	82	93
29	115	111	113	91	87	89	---	---	---	33	31	32
30	118	115	117	93	89	90	---	---	---	37	33	35
31	122	118	119	---	---	---	---	---	---	41	37	39
MONTH	171	77	114	142	54	90	137	91	107	137	31	81

ANDROSCOGGIN RIVER BASIN

01056000 GULF ISLAND POND NEAR LEWISTON, ME--Continued

PH (STANDARD UNITS), WATER YEAR OCTOBER 1985 TO SEPTEMBER 1986

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

PH (STANDARD UNITS), WATER YEAR OCTOBER 1985 TO SEPTEMBER 1986

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

01056000 GULF ISLAND POND NEAR LEWISTON, ME--Continued

PH (STANDARD UNITS), WATER YEAR OCTOBER 1985 TO SEPTEMBER 1986

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
	JUNE			JULY			AUGUST			SEPTEMBER		
1	6.7	6.6	6.7	7.1	6.9	7.0	6.7	6.7	6.7	6.9	6.8	6.9
2	6.8	6.7	6.8	7.0	6.9	7.0	6.7	6.6	6.7	7.0	6.8	6.8
3	6.8	6.7	6.7	7.0	6.8	6.9	6.7	6.6	6.6	7.0	6.9	7.0
4	6.8	6.6	6.7	6.9	6.8	6.8	6.6	6.6	6.6	7.0	6.7	6.9
5	6.8	6.7	6.8	6.9	6.8	6.8	6.6	6.5	6.6	6.8	6.7	6.7
6	6.9	6.8	6.8	6.8	6.8	6.8	6.6	6.5	6.6	6.8	6.6	6.7
7	6.9	6.8	6.8	6.8	6.7	6.8	6.6	6.5	6.5	6.7	6.6	6.7
8	6.8	6.7	6.7	6.8	6.8	6.8	6.6	6.5	6.5	6.7	6.7	6.7
9	6.9	6.7	6.8	6.8	6.7	6.8	6.6	6.4	6.5	6.7	6.7	6.7
10	6.9	6.8	6.8	7.2	6.8	7.0	6.5	6.4	6.4	6.8	6.7	6.8
11	6.9	6.8	6.8	7.2	7.0	7.1	6.5	6.4	6.4	6.7	6.7	6.7
12	6.9	6.8	6.9	7.0	6.9	7.0	6.5	6.4	6.5	6.7	6.6	6.7
13	6.9	6.8	6.9	6.9	6.9	6.9	6.5	6.3	6.4	6.8	6.7	6.7
14	6.9	6.9	6.9	6.9	6.8	6.9	6.4	6.3	6.4	6.8	6.7	6.7
15	6.9	6.7	6.8	7.0	6.9	6.9	6.4	6.3	6.3	6.7	6.7	6.7
16	6.8	6.8	6.8	6.9	6.9	6.9	6.4	6.3	6.3	6.7	6.7	6.7
17	7.0	6.8	7.0	6.9	6.8	6.8	6.3	6.3	6.3	6.8	6.7	6.7
18	7.0	6.9	6.9	6.8	6.8	6.8	6.3	6.3	6.3	6.9	6.8	6.8
19	6.9	6.8	6.8	6.8	6.8	6.8	6.7	6.3	6.5	6.9	6.9	6.9
20	6.8	6.7	6.8	6.8	6.8	6.8	6.6	6.5	6.6	6.9	6.9	6.9
21	6.8	6.6	6.7	---	---	---	6.6	6.5	6.5	6.9	6.9	6.9
22	6.6	6.5	6.6	---	---	---	6.8	6.5	6.6	6.9	6.9	6.9
23	---	---	---	---	---	---	6.7	6.6	6.7	6.9	6.9	6.9
24	7.0	6.6	6.7	---	---	---	6.8	6.7	6.7	6.9	6.8	6.9
25	6.7	6.6	6.7	6.8	6.7	6.7	6.8	6.7	6.8	7.0	6.8	6.9
26	6.7	6.6	6.7	6.8	6.7	6.8	6.8	6.7	6.8	6.9	6.8	6.9
27	6.7	6.6	6.6	6.8	6.8	6.8	6.8	6.8	6.8	6.9	6.9	6.9
28	6.6	6.6	6.6	6.9	6.9	6.9	6.8	6.8	6.8	6.9	6.9	6.9
29	6.6	6.6	6.6	6.8	6.8	6.8	6.8	6.8	6.8	6.9	6.8	6.9
30	7.1	6.6	6.8	6.8	6.8	6.8	6.8	6.8	6.8	6.9	6.8	6.9
31	---	---	---	6.8	6.7	6.8	6.9	6.9	6.9	---	---	---
MONTH	7.1	6.5	6.8	7.2	6.7	6.9	6.9	6.3	6.6	7.0	6.6	6.8
YEAR	7.3	6.2	6.8									

TEMPERATURE, WATER (DEG. C), WATER YEAR OCTOBER 1985 TO SEPTEMBER 1986

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

01056000 GULF ISLAND POND NEAR LEWISTON, ME--Continued

OXYGEN, DISSOLVED (DO), MG/L, WATER YEAR OCTOBER 1985 TO SEPTEMBER 1986

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
	OCTOBER			NOVEMBER			DECEMBER			JANUARY		
1	8.3	7.6	8.1	9.8	9.5	9.7	12.3	12.1	12.2	---	---	---
2	8.2	7.5	8.0	10.0	9.8	9.9	12.7	12.2	12.4	---	---	---
3	8.0	7.5	7.7	9.9	9.7	9.8	12.5	12.2	12.3	---	---	---
4	7.8	7.6	7.7	9.9	9.7	9.8	12.6	12.2	12.4	---	---	---
5	7.7	7.3	7.5	10.3	9.9	10.0	13.0	12.4	12.7	---	---	---
6	7.6	6.7	7.3	10.4	10.2	10.3	13.0	12.8	12.9	---	---	---
7	7.6	7.3	7.5	11.0	10.4	10.8	13.1	12.7	12.8	---	---	---
8	7.8	7.5	7.6	11.3	11.0	11.2	13.4	12.9	13.2	---	---	---
9	8.1	7.7	7.9	11.3	11.2	11.3	13.6	13.1	13.3	---	---	---
10	8.4	7.9	8.2	11.3	11.2	11.2	13.7	13.2	13.4	---	---	---
11	8.2	7.9	8.1	11.2	11.0	11.1	13.7	13.4	13.6	---	---	---
12	8.3	8.1	8.2	11.1	11.0	11.0	13.7	13.3	13.5	---	---	---
13	8.3	8.0	8.2	11.2	11.0	11.0	13.4	13.2	13.3	---	---	---
14	8.5	8.2	8.3	11.2	11.0	11.1	13.4	13.0	13.3	---	---	---
15	8.5	8.4	8.5	11.2	11.0	11.1	13.3	13.0	13.1	---	---	---
16	8.5	8.3	8.4	11.5	11.2	11.4	13.4	13.1	13.3	---	---	---
17	8.5	8.2	8.4	11.7	11.5	11.5	13.4	13.2	13.3	---	---	---
18	8.7	8.4	8.5	11.8	11.7	11.7	13.2	12.8	13.1	---	---	---
19	8.9	8.7	8.8	12.3	11.7	11.8	14.2	12.8	13.3	---	---	---
20	8.9	8.7	8.8	12.4	11.6	12.1	14.6	14.1	14.3	---	---	---
21	9.0	8.8	8.9	12.4	12.2	12.3	14.6	14.3	14.4	---	---	---
22	9.2	8.9	9.0	12.3	12.2	12.3	14.4	14.1	14.3	---	---	---
23	9.4	9.0	9.2	12.4	12.3	12.3	---	---	---	12.5	10.1	12.0
24	9.4	9.1	9.4	12.4	12.2	12.3	---	---	---	12.9	12.4	12.6
25	9.5	9.4	9.4	12.3	12.1	12.2	---	---	---	---	---	---
26	9.5	9.3	9.4	12.2	12.1	12.1	---	---	---	13.8	12.6	13.3
27	9.4	9.0	9.2	12.2	12.1	12.1	---	---	---	13.8	13.1	13.6
28	9.5	9.2	9.3	12.1	12.1	12.1	---	---	---	14.0	12.6	13.2
29	9.6	9.4	9.5	12.3	12.1	12.2	---	---	---	14.4	14.0	14.3
30	9.6	9.5	9.6	12.3	12.1	12.2	---	---	---	14.5	14.2	14.4
31	9.7	9.5	9.6	---	---	---	---	---	---	14.3	13.6	14.2
MONTH	9.7	6.7	8.5	12.4	9.5	11.3	14.6	12.1	13.2	14.5	10.1	13.5

OXYGEN, DISSOLVED (DO), MG/L, WATER YEAR OCTOBER 1985 TO SEPTEMBER 1986

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
	FEBRUARY			MARCH			APRIL			MAY		
1	14.2	14.0	14.1	13.8	13.6	13.7	14.1	13.9	14.0	10.1	9.7	9.9
2	14.0	13.9	14.0	13.8	13.6	13.7	14.0	12.8	13.7	9.8	9.5	9.6
3	14.0	13.9	14.0	13.9	13.7	13.8	13.6	13.0	13.3	9.6	9.3	9.5
4	13.9	13.8	13.9	13.9	13.7	13.8	13.8	13.4	13.6	9.3	9.1	9.2
5	13.8	13.5	13.6	13.9	13.8	13.8	13.7	13.3	13.6	---	---	---
6	13.7	13.5	13.6	13.8	13.7	13.8	13.6	13.2	13.4	---	---	---
7	13.6	13.5	13.6	13.8	13.5	13.7	13.3	13.2	13.2	---	---	---
8	13.5	13.4	13.5	13.8	13.4	13.6	13.2	13.0	13.2	9.0	8.7	8.8
9	13.5	13.4	13.4	13.9	13.7	13.8	13.1	12.8	13.0	9.8	8.8	9.3
10	13.3	13.2	13.3	13.9	13.7	13.8	13.1	12.6	12.9	10.3	9.6	10.0
11	13.3	13.2	13.3	13.9	13.7	13.8	13.0	12.7	12.9	10.7	9.9	10.3
12	13.3	13.2	13.2	14.2	13.9	14.0	12.8	12.4	12.6	10.7	10.5	10.7
13	13.2	13.2	13.2	14.1	14.0	14.0	12.6	12.1	12.4	10.7	10.5	10.6
14	---	---	---	14.0	13.9	13.9	12.4	11.9	12.1	10.6	10.3	10.4
15	---	---	---	14.0	13.8	13.9	12.2	12.0	12.1	10.3	10.0	10.2
16	---	---	---	14.0	13.9	13.9	12.2	12.0	12.1	10.1	9.8	9.9
17	---	---	---	14.0	13.8	13.9	12.0	11.7	11.9	9.8	9.6	9.7
18	---	---	---	14.0	13.8	13.9	11.8	11.4	11.6	9.5	9.2	9.4
19	---	---	---	13.9	13.7	13.7	11.5	11.1	11.3	9.2	8.9	9.1
20	---	---	---	13.9	13.7	13.7	11.2	11.0	11.1	9.3	8.9	9.1
21	---	---	---	13.8	13.5	13.7	11.1	10.9	11.0	9.0	8.5	8.7
22	---	---	---	14.1	13.6	13.7	10.9	10.7	10.8	8.6	8.3	8.4
23	---	---	---	14.4	14.0	14.3	10.9	10.7	10.8	8.2	7.9	8.0
24	---	---	---	14.5	14.3	14.4	---	---	---	7.8	7.4	7.6
25	---	---	---	14.4	14.3	14.3	---	---	---	7.7	7.2	7.4
26	---	---	---	14.8	14.1	14.4	10.5	10.4	10.5	8.6	7.7	8.1
27	---	---	---	14.7	14.0	14.3	10.5	10.3	10.4	---	---	---
28	---	---	---	14.0	13.8	13.9	10.3	10.1	10.2	---	---	---
29	---	---	---	14.2	13.6	13.8	10.2	10.0	10.1	---	---	---
30	---	---	---	14.3	14.0	14.1	10.2	10.0	10.1	8.9	8.5	8.7
31	---	---	---	14.3	13.4	14.0	---	---	---	8.7	8.0	8.4
MONTH	14.2	13.2	13.6	14.8	13.4	13.9	14.1	10.0	12.1	10.7	7.2	9.2

01057000 LITTLE ANDROSCOGGIN RIVER NEAR SOUTH PARIS, ME

LOCATION.--Lat 44°18'13", long 70°32'24", Oxford County, Hydrologic Unit 01040002, on island 50 ft upstream from Snow Falls and 6 mi upstream from South Paris.

DRAINAGE AREA.--73.5 mi².

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

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

GAGE.--Water-stage recorder. Datum of gage is 447.00 ft above National Geodetic Vertical Datum of 1929. Prior to Apr. 30, 1924, nonrecording gage, and Oct. 1, 1931, to Sep. 27, 1984, water-stage recorder at site 1.0 mi downstream at different datum.

REMARKS.--Estimated daily discharges: Dec. 10 to Jan. 19, and Feb. 4 to Mar. 14. Records good except for periods of ice effect, Dec. 10 to Jan. 19, and Feb. 4 to Mar. 14, which are fair. Several observations of water temperature and specific conductance were made during the year.

AVERAGE DISCHARGE.--65 years (water years 1914-23, 1932 to current year), 139 ft³/s, 25.68 in/yr.

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

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

Date	Time	Discharge (ft ³ /s)	Gage height (ft)	Date	Time	Discharge (ft ³ /s)	Gage height (ft)
Jan. 27	1515	*4,790	*9.76	Aug. 9	0300	1,010	5.87
Mar. 31	0415	1,180	6.10				

Minimum discharge, 5.9 ft³/s, July 26, gage height, 2.16 ft.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1985 TO SEPTEMBER 1986
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	53	28	74	e34	259	e60	870	183	140	22	99	30
2	40	27	185	e34	241	e60	718	163	341	23	143	25
3	32	26	273	e34	216	e59	546	143	278	43	124	22
4	30	26	292	e34	e165	e58	416	129	205	51	83	22
5	64	39	134	e34	e150	e57	333	125	158	42	54	22
6	222	516	118	e34	e145	e55	285	129	130	35	48	43
7	142	508	99	e34	e135	e55	307	142	107	30	209	37
8	94	298	93	e34	e130	e54	412	212	116	23	606	29
9	67	215	83	e34	e125	e53	402	194	115	18	796	23
10	53	175	e62	e34	e120	e53	344	164	85	15	428	20
11	42	155	e57	e34	e110	e53	299	141	82	12	271	19
12	36	132	e53	e33	e105	e54	278	125	103	11	196	25
13	36	134	e51	e33	e100	e55	250	118	100	12	137	56
14	58	151	e49	e33	e95	e57	227	103	102	24	102	35
15	85	175	e47	e32	e90	145	206	88	80	34	74	27
16	212	153	e45	e32	e86	241	190	84	64	24	67	60
17	142	145	e44	e33	e84	234	175	103	94	18	64	71
18	101	182	e42	e34	e81	247	160	102	75	15	53	49
19	78	212	e41	e36	e79	308	147	86	57	12	50	38
20	63	221	e40	156	e78	472	138	73	48	12	44	31
21	55	217	e39	336	e74	363	136	98	41	11	36	44
22	49	173	e39	282	e72	278	192	163	35	9.8	31	49
23	44	150	e38	216	e69	239	166	170	30	8.1	26	52
24	40	133	e37	164	e67	225	144	315	28	7.2	138	100
25	42	119	e37	133	e65	198	165	765	21	6.5	128	81
26	43	98	e36	267	e67	211	416	388	22	6.9	83	61
27	39	96	e35	3140	e61	438	418	266	23	74	74	48
28	37	91	e35	2010	e61	779	312	239	42	66	93	38
29	32	85	e35	832	---	775	252	191	35	52	65	34
30	31	76	e35	484	---	940	212	162	27	157	49	46
31	31	---	e34	336	---	1090	---	136	---	150	38	---
TOTAL	2093	4756	2282	8996	3130	7966	9116	5500	2784	1024.5	4409	1237
MEAN	67.5	159	73.6	290	112	257	304	177	92.8	33.0	142	41.2
MAX	222	516	292	3140	259	1090	870	765	341	157	796	100
MIN	30	26	34	32	61	53	136	73	21	6.5	26	19
CFSM	.92	2.16	1.00	3.95	1.52	3.50	4.13	2.41	1.26	.45	1.94	.56
IN.	1.06	2.41	1.15	4.55	1.58	4.03	4.61	2.78	1.41	.52	2.23	.63

CAL YR 1985 TOTAL 32477.5 MEAN 89.0 MAX 876 MIN 3.7 CFSM 1.21 IN. 16.4
WTR YR 1986 TOTAL 53293.5 MEAN 146 MAX 3140 MIN 6.5 CFSM 1.99 IN. 27.0

e Estimated

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

DRAINAGE AREA.--3,263 mi².

PERIOD OF RECORD.--Discharge: October 1928 to current year. Monthly discharge only for October 1928, published in WSP 1301.

Water-quality records: Water years 1966-75.

REVISED RECORDS.--WSP 781: 1930, 1933-34. WSP 1301: 1932-36: WDR ME-81-1: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 109.18 ft above National Geodetic Vertical Datum of 1929.

REMARKS.--Estimated daily discharges: Sept. 16-24. Records excellent except for period of doubtful gage-height record, Sept. 16-24, which is good. Considerable diurnal fluctuation and some regulation by powerplants above station. Flow regulated by Rangeley, Mooselookmeguntic, Richardson, Aziscohos, Umbagog, Auburn, and Thompson Lakes and Gulf Island Pond (Reservoirs in Androscoggin River Basin) with major regulation at Errol Dam 136 mi upstream. Several observations of water temperature and specific conductance were made during the year.

AVERAGE DISCHARGE.--58 years, 6,150 ft³/s.

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

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 59,200 ft³/s, Jan. 28, gage height, 16.59 ft; minimum daily, 691 ft³/s, June 23.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1985 TO SEPTEMBER 1986
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	4260	2970	3180	3640	13700	3700	30400	8010	6480	4310	7460	3640
2	3420	2310	4070	3610	11400	3080	26100	7530	5890	4410	7040	3590
3	3390	1970	5260	3530	10100	4550	25200	6990	7810	4570	7050	3350
4	3430	2510	5930	3180	9400	4970	22200	5800	7640	4560	7100	3600
5	1850	3180	4920	2990	8570	4970	19000	5490	6210	1930	4560	3540
6	2890	6450	4700	3430	8180	4940	15900	5890	5800	1550	4140	2230
7	6610	18000	4600	3580	7890	4970	14700	6130	4690	1870	4030	2040
8	5210	13000	3600	3370	7220	5110	14500	8080	4500	2630	2530	2360
9	3730	8470	4030	3340	6920	5060	13600	9170	4400	2920	7020	2710
10	3660	6920	4200	3560	6760	5400	13000	8200	4410	3070	7740	3460
11	3480	6810	4300	3130	6830	5800	12200	7600	4450	3030	7630	2430
12	2690	4350	4050	2870	6680	4880	11300	6920	4380	2780	6620	3640
13	2260	4400	4020	3650	6690	4810	10300	6400	4370	2020	4300	3190
14	2990	4860	3350	3730	6430	2380	9230	5580	4370	2140	4150	4720
15	3650	6840	2840	3560	6590	6720	9020	4590	4380	3000	4080	4800
16	3820	5690	2790	3260	6380	6730	9200	4140	4340	3180	3810	e3700
17	5710	5650	3560	3260	4040	7370	8930	4390	4680	3580	3820	e3150
18	5140	5290	3570	2970	5450	8480	9040	4860	4610	3460	3730	e3050
19	3350	5030	3720	2910	5420	10300	8600	4830	5320	3080	3390	e3150
20	3090	5890	3580	3880	5400	11800	7690	4840	5490	2950	3350	e3250
21	3220	6440	2850	5000	5600	13500	7530	4730	5360	2650	3310	e3050
22	3410	6950	2460	7410	6200	11800	7650	6230	2040	2550	3240	e3000
23	3450	6230	2840	6840	5530	10000	7820	6850	691	2360	3210	e3400
24	3520	4820	3150	6270	5490	9240	8230	8830	1510	2510	3220	e3150
25	3890	4590	3470	5590	5460	8360	7770	13400	2570	2510	3390	3530
26	1920	5180	4240	7080	5730	8170	9250	14300	3280	1400	3750	3830
27	1030	5100	4220	26100	5650	8710	15400	11000	3490	2330	3930	3740
28	2820	4270	3600	55200	5330	16300	13100	8850	1920	4900	3950	3590
29	3130	3760	3460	42500	---	20600	10200	7840	3120	4360	3960	3500
30	2880	3430	3260	24100	---	22500	8960	7620	3930	3990	3890	3380
31	2780	---	3400	17000	---	30200	---	7460	---	7390	3930	---
TOTAL	106680	171360	117220	270540	195040	275400	386020	222550	132131	97990	143330	99770
MEAN	3441	5712	3781	8727	6966	8884	12870	7179	4404	3161	4624	3326
MAX	6610	18000	5930	55200	13700	30200	30400	14300	7810	7390	7740	4800
MIN	1030	1970	2460	2870	4040	2380	7530	4140	691	1400	2530	2040

CAL YR 1985 TOTAL 1569380 MEAN 4300 MAX 18000 MIN 755
WTR YR 1986 TOTAL 2218030 MEAN 6077 MAX 55200 MIN 691

e Estimated

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

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

DRAINAGE AREA.--3,434 mi².

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

PERIOD OF DAILY RECORD.--

SPECIFIC CONDUCTANCE: November 1975 to September 1981.

WATER TEMPERATURES: November 1975 to September 1981.

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

REMARKS.--Water-discharge records for Androscoggin River at Auburn (station 01059000) used for computation of mean daily discharge.

EXTREMES FOR PERIOD OF DAILY RECORD.--

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

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

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1985 TO SEPTEMBER 1986

DATE	TIME	DIS- CHARGE, IN CUBIC FEET PER SECOND	SPE- CIFIC CON- DUCT- ANCE (US/CM)	PH (STAND- ARD UNITS)	TEMPER- ATURE AIR (DEG C)	TEMPER- ATURE WATER (DEG C)	TUR- BID- ITY (NTU)	BARO- METRIC PRES- SURE (MM OF HG)	OXYGEN, DIS- SOLVED (MG/L)	OXYGEN, DIS- SOLVED (PER- CENT SATUR- ATION)	COLI- FORM, FECAL, 0.7 UM-MF (COLS./ 100 ML)	STREP- TOCOCCI FECAL, KF AGAR (COLS. PER 100 ML)
OCT												
24...	1345	E 3700	130	7.10	8.5	11.5	2.5	769	11.2	102	310	55
DEC												
17...	1400	E 3750	113	7.00	2.0	0.0	3.3	760	14.4	99	270	180
FEB												
11...	0830	E 7190	85	6.70	2.0	0.0	2.3	759	15.0	103	270	--
APR												
14...	1200	E 9710	65	7.20	18.0	6.5	2.8	762	12.7	103	53	K 18
JUN												
30...	0900	E 4140	125	7.00	24.0	21.0	1.2	753	8.8	100	K 44	K 41
AUG												
19...	0930	E 3570	95	7.20	20.0	23.0	2.3	763	8.7	101	K 160	59

DATE	HARD- NESS (MG/L AS CACO3)	CALCIUM DIS- SOLVED (MG/L AS CA)	MAGNE- SIUM, DIS- SOLVED (MG/L AS MG)	SODIUM, DIS- SOLVED (MG/L AS NA)	POTAS- SIUM, DIS- SOLVED (MG/L AS K)	ALKA- LINITY FIELD (MG/L AS CACO3)	SULFATE DIS- SOLVED (MG/L AS SO4)	CHLO- RIDE, DIS- SOLVED (MG/L AS CL)	FLUO- RIDE, DIS- SOLVED (MG/L AS F)	SILICA, DIS- SOLVED (MG/L AS SIO2)	SOLIDS, RESIDUE AT 180 DEG. C DIS- SOLVED (MG/L)	SOLIDS, SUM OF CONSTI- TUENTS, DIS- SOLVED (MG/L)
OCT												
24...	20	6.4	1.0	15	1.3	15	12	19	<0.10	5.0	85	70
DEC												
17...	19	6.0	1.0	13	1.6	14	13	16	<0.10	5.9	72	66
FEB												
11...	15	4.6	0.90	9.2	1.1	L 6.0	11	9.7	<0.10	5.6	--	46
APR												
14...	12	3.7	0.70	6.4	0.90	L 9.0	11	8.2	<0.10	5.3	59	43
JUN												
30...	19	5.8	1.0	15	1.4	L 15	20	17	<0.10	4.7	78	76
AUG												
19...	16	4.9	0.90	11	1.2	L 10	13	10	<0.10	5.0	63	53

E Estimated discharge.

K Results based on colony count outside the acceptable range (non-ideal colony count).

L Lab alkalinity value reported.

01059400 ANDROSCOGGIN RIVER AT BRUNSWICK, ME--Continued

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1985 TO SEPTEMBER 1986

DATE	NITRO- GEN, NO2+NO3 DIS- SOLVED (MG/L AS N)	NITRO- GEN, AMMONIA DIS- SOLVED (MG/L AS N)	NITRO- GEN, AMMONIA DIS- SOLVED (MG/L AS NH4)	NITRO- GEN,AM- MONIA + ORGANIC TOTAL (MG/L AS N)	PHOS- PHORUS, TOTAL (MG/L AS P)	PHOS- PHORUS, DIS- SOLVED (MG/L AS P)	PHOS- PHORUS, ORTHO, DIS- SOLVED (MG/L AS P)	ALUM- INUM, DIS- SOLVED (UG/L AS AL)	ARSENIC DIS- SOLVED (UG/L AS AS)	BARIUM, DIS- SOLVED (UG/L AS BA)
OCT 24...	0.190	0.120	0.15	0.60	0.050	0.030	0.040	110	<1	13
DEC 17...	0.170	0.080	0.10	0.50	0.040	0.020	0.020	--	--	--
FEB 11...	0.280	0.100	0.13	0.60	0.030	0.020	<0.010	<1	<1	13
APR 14...	0.190	0.070	0.09	0.40	0.020	0.010	<0.010	110	<1	10
JUN 30...	0.280	0.070	0.09	0.50	0.030	0.020	0.010	--	--	--
AUG 19...	0.220	0.070	0.09	0.40	0.040	0.020	<0.010	--	--	--

[illegible][illegible]

Reservoirs in Androscoggin River Basin

- 01050500 RANGELEY LAKE on Rangeley Stream, at Oquossoc, Maine, used for power, has usable capacity of 1,339,200,000 ft in top 4.0 ft of lake (top of flashboards). Gage-height record furnished by Union Water Power Co.
- 01051000 MOOSELOOKMEGUNTIC LAKE at Upper Dam, in Richardson Township, Maine, used for power, has usable capacity of 8,370,000,000 ft between gage heights 8.3 ft and 20.5 ft. Gage-height record furnished by Union Water Power Co.
- 01051500 UPPER AND LOWER RICHARDSON LAKES on Rapid River, at Middle Dam, Maine, used for power, has usable capacity of 5,691,500,000 ft between gage heights 3.0 ft and 20.5 ft. Gage-height record furnished by Union Water Power Co.
- 01052000 AZISCOHOS LAKE on Magalloway River in Lincoln Township, 3 mi east of village of Wilsons Mills, Maine, completed in 1911 for power, has usable capacity of 9,593,000,000 ft between elevations 1,490.0 ft and 1,535.0 ft. Elevation record furnished by Union Water Power Co.
- 01053000 UMBAGOG LAKE on Androscoggin River at Errol Dam, 0.6 mi northeast of Errol, NH, used for power, has usable capacity of 3,080,160,000 ft between gage heights 5.5 ft and 15.0 ft. Gage-height record furnished by Union Water Power Co.
- 01056000 GULF ISLAND POND on Androscoggin River, 3 mi upstream from Lewiston, Maine, completed in 1928 for power, has capacity of 1,100,000,000 ft in top 10 ft of pond below elevation 262.0 ft. Elevation record furnished by Central Maine Power Co.
- 01056500 LAKE AUBURN on outlet stream to Androscoggin River at East Auburn, Maine, used for storing water supply of Auburn and Lewiston, has usable capacity of 580,000,000 ft between elevations 254.7 ft and 260.7 ft. Elevation record furnished by Auburn Water District.
- 01058000 THOMPSON LAKE on short outlet stream to Little Androscoggin River at Oxford, Maine, used for process water, has usable capacity of 950,000,000 ft between gage heights 95.0 ft and 100.0 ft. Gage-height record furnished by Robinson Manufacturing Co.

MONTHEND CONTENTS, IN MILLIONS OF CUBIC FEET, WATER YEAR OCTOBER 1985 TO SEPTEMBER 1986

DATE	RANGELEY LAKE	MOOSELOOKMEGUNTIC LAKE	UPPER AND LOWER RICHARDSON LAKES	AZISCOHOS LAKE
SEPT. 30, 1985	1,061	5,266	3,844	5,918
OCT. 31.	167	5,657	3,677	4,060
NOV. 30.	529	6,012	5,500	4,735
DEC. 31.	559	5,196	3,566	5,150
JAN. 31, 1986	920	5,091	2,868	5,752
FEB. 28.	572	3,654	2,996	5,510
MAR. 31.	321	2,974	4,176	6,156
APR. 30.	1,480	7,152	5,557	9,717
MAY 31.	1,437	8,226	5,519	9,546
JUNE 30.	1,272	7,438	5,237	8,620
JULY 31.	1,172	6,474	3,880	7,472
AUG. 31.	1,145	5,764	4,010	7,220
SEPT. 30.	1,004	5,408	3,307	7,206

DATE	UMBAGOG LAKE	GULF ISLAND POND	LAKE AUBURN	THOMPSON LAKE
SEPT. 30, 1985	1,668	2,400	386	1,694
OCT. 31.	2,456	2,363	331	1,584
NOV. 30.	1,884	2,264	386	1,632
DEC. 31.	1,030	2,358	386	1,632
JAN. 31, 1986	2,651	2,413	616	1,818
FEB. 28.	1,884	2,195	640	1,706
MAR. 31.	2,690	2,464	604	1,742
APR. 30.	2,417	2,492	592	1,854
MAY 31.	2,885	2,366	616	2,027
JUNE 30.	2,651	2,411	616	1,879
JULY 31.	2,398	2,489	580	1,837
AUG. 31.	2,224	2,383	556	1,862
SEPT. 30.	1,977	2,384	496	1,611

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

01060000 ROYAL RIVER AT YARMOUTH, ME

LOCATION.--Lat 43°47'57", long 70°10'45", Cumberland County, Hydrologic Unit 01060001, on right bank 150 ft upstream from East Main Street bridge in Yarmouth.

DRAINAGE AREA.--141 mi².

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

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

GAGE.--Water-stage recorder. Elevation of gage is 10 ft above National Geodetic Vertical Datum of 1929, from topographic map.

REMARKS.--Estimated daily discharges: Dec. 11 to Jan. 21, Jan. 27, 28, and Feb. 3-20. Records good except for periods of ice effect, Dec. 11 to Jan. 21 and Feb. 3-20, and period of no gage-height record, Jan. 27, 28, which are fair. Low flow may be regulated by operation of mills upstream. Several observations of water temperature and specific conductance were made during the year.

AVERAGE DISCHARGE.--37 years, 276 ft³/s, 26.58 in/yr.

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

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

Date	Time	Discharge (ft ³ /s)	Gage height (ft)	Date	Time	Discharge (ft ³ /s)	Gage height (ft)
Jan. 28	--	a*5,480	a*6.20	Mar. 28	1100	1,620	3.47
Mar. 20	1300	2,190	3.98				

a Estimated

Minimum discharge, 30 ft³/s, Oct. 2.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1985 TO SEPTEMBER 1986
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	39	39	103	e57	444	135	599	243	137	49	107	40
2	30	38	748	e57	282	123	482	219	579	60	106	40
3	33	38	986	e56	e230	118	422	194	539	157	120	39
4	42	38	404	e56	e205	119	357	166	307	168	112	39
5	123	148	305	e56	e185	132	312	158	206	140	96	41
6	419	1270	218	e56	e170	139	274	158	224	107	73	53
7	241	1170	157	e56	e165	134	530	181	214	87	64	62
8	115	521	162	e60	e155	124	862	410	193	71	69	53
9	79	276	140	e74	e145	114	860	412	183	60	86	47
10	63	195	117	e65	e140	110	559	299	139	48	76	43
11	53	197	e110	e62	e130	113	446	229	126	45	76	41
12	47	186	e100	e60	e125	134	387	191	152	41	84	39
13	51	169	e96	e58	e120	141	325	164	199	43	73	42
14	70	209	e91	e57	e115	148	282	145	217	55	59	42
15	85	762	e87	e56	e110	576	251	134	164	59	67	39
16	148	556	e83	e56	e105	984	225	125	131	50	58	41
17	128	622	e79	e55	e105	916	207	126	159	44	59	53
18	88	808	e75	e58	e105	989	190	126	144	40	61	53
19	81	483	e73	e70	e100	1370	170	114	103	59	77	46
20	83	442	e70	e480	e100	2130	158	99	118	57	79	42
21	71	270	e68	e830	125	1610	155	99	164	48	66	45
22	60	214	e66	631	303	948	222	183	116	44	55	49
23	55	190	e68	466	343	567	221	240	88	39	52	52
24	51	177	e70	329	329	460	222	313	88	35	51	61
25	52	159	e71	286	268	441	314	740	91	35	48	64
26	51	136	e70	624	215	423	477	592	76	34	46	54
27	48	132	e67	e3560	181	795	736	315	63	205	47	49
28	46	120	e64	e4480	155	1500	555	224	67	193	46	45
29	42	115	e61	2110	---	1210	368	194	63	115	46	42
30	44	102	e59	964	---	967	285	159	54	102	44	41
31	40	---	e58	606	---	785	---	135	---	115	42	---
TOTAL	2578	9682	4926	16491	5155	18455	11453	7087	5104	2405	2145	1397
MEAN	83.2	323	159	532	184	595	382	229	170	77.6	69.2	46.6
MAX	419	1270	986	4480	444	2130	862	740	579	205	120	64
MIN	30	38	58	55	100	110	155	99	54	34	42	39
CFM	.59	2.29	1.13	3.77	1.31	4.22	2.71	1.62	1.21	.55	.49	.33
IN.	.68	2.55	1.30	4.35	1.36	4.87	3.02	1.87	1.35	.63	.57	.37

CAL YR 1985 TOTAL 58311 MEAN 160 MAX 2900 MIN 20 CFM 1.13 IN. 15.4
WTR YR 1986 TOTAL 86878 MEAN 238 MAX 4480 MIN 30 CFM 1.69 IN. 22.9

e Estimated

01064000 PRESUMPCOT RIVER AT OUTLET OF SEBAGO LAKE, ME

LOCATION.--Lat 42°49'03", long 70°27'01", Cumberland County, Hydrologic Unit 01060001, at dam of hydroelectric plant at Eel Weir Falls 1.0 mi downstream from lake outlet.

DRAINAGE AREA.--441 mi².

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

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

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

REMARKS.--Discharge computed from wheel ratings and from records of openings of two regulating gates at Eel Weir hydroelectric plant. Water wasted at rare intervals through gates in dam on outlet of Sebago Lake; flow computed from records of gate openings. Water diverted by Portland Water District and leakage through Dam, totaling about 40 ft³/s, not included in figures of daily discharge. Flow regulated by Long Lake and Sebago Lake, surface area, 45.6 mi², which have a combined usable capacity of 11,000,000,000 ft³.

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

AVERAGE DISCHARGE.--99 years, 660 ft³/s.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1985 TO SEPTEMBER 1986
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	175	170	175	175	350	838	554	554	831	831	670	670
2	175	170	175	175	350	838	554	554	819	831	670	655
3	175	179	175	175	508	838	554	554	831	819	670	655
4	175	179	175	175	508	846	554	554	831	819	670	670
5	175	179	175	175	554	846	554	670	831	819	670	670
6	175	179	175	175	825	846	554	670	831	819	670	670
7	175	179	175	175	833	846	998	670	831	819	670	670
8	175	179	175	175	833	846	998	670	831	819	670	670
9	175	179	175	175	833	846	998	670	831	819	670	670
10	175	175	175	175	833	846	998	670	831	819	670	670
11	175	175	175	175	833	846	998	670	831	819	670	670
12	175	175	175	175	833	846	998	670	831	819	670	670
13	175	175	175	277	833	846	985	831	831	819	670	670
14	175	175	175	350	833	846	985	831	831	655	670	655
15	175	175	175	350	833	846	985	831	831	670	670	655
16	175	175	175	350	833	846	985	831	831	670	670	655
17	175	175	175	350	833	596	998	831	819	670	670	655
18	175	175	175	350	833	554	998	831	831	670	655	655
19	175	175	175	350	833	554	998	831	831	670	670	655
20	175	175	170	350	833	554	998	831	831	670	670	655
21	175	175	175	350	833	554	819	831	831	670	670	655
22	175	175	175	350	833	554	831	831	831	670	670	655
23	175	175	175	350	833	554	831	831	831	655	670	655
24	175	175	175	350	833	554	831	831	831	670	670	655
25	175	175	175	350	833	554	831	831	831	670	670	655
26	175	175	175	350	833	554	554	831	831	670	670	670
27	175	175	175	0	833	554	554	831	831	670	670	670
28	175	175	175	350	833	554	554	831	831	670	670	670
29	175	175	175	350	---	554	554	831	831	670	670	655
30	175	175	175	350	---	554	554	831	831	670	670	655
31	175	---	175	350	---	554	---	831	---	670	670	---
TOTAL	5425	5268	5420	8327	21421	21864	24157	23365	24906	22701	20755	19860
MEAN	175	176	175	269	765	705	805	754	830	732	670	662
MAX	175	179	175	350	833	846	998	831	831	831	670	670
MIN	175	170	170	0	350	554	554	554	819	655	655	655

CAL YR 1985 TOTAL 88380.00 MEAN 242 MAX 592 MIN 83
WTR YR 1986 TOTAL 203469.00 MEAN 557 MAX 998 MIN 0

PRESUMPSCOT RIVER BASIN

01064118 PRESUMPSCOT RIVER AT WESTBROOK, ME

LOCATION.--Lat 43°41'13", long 70°20'49", Cumberland County, Hydrologic Unit 01060001, on right bank, 0.4 mi downstream from Cumberland Street Bridge in Westbrook, under S. D. Warren owned bridge.

DRAINAGE AREA.--577 mi².

PERIOD OF RECORD.--October 1975 to current year. Prior to October 1984, published as "near West Falmouth".

GAGE.--Water-stage recorder. Datum of gage is 17.39 ft above National Geodetic Vertical Datum of 1929. Prior to Dec. 13, 1984, at site 4.1 mi. downstream at datum 6.24 ft lower.

REMARKS.--Estimated daily discharges: Oct. 1-3, Oct. 23 to Nov. 5, Dec. 10 to Jan. 18, Apr. 30 to May 2, July 15-18, 21-24, 26, 27, July 30 to Aug. 1, Aug. 14, 15, 23-25, 27, Aug. 30 to Sept. 1, Sept. 3-8, 10-12, 17-19, 24 and 25. Records good except for period of ice effect, Dec. 10 to Jan. 18 and periods of unknown backwater conditions, Oct. 1-3, Oct. 23 to Nov. 5, Apr. 30 to May 2, July 15-18, 21-24, 26, 27, July 30 to Aug. 1, Aug. 14, 15, 23-25, 27, Aug. 30 to Sept. 1, Sept. 3-8, 10-12, 17-19, 24 and 25, which are fair. Flow regulated by Sebago Lake and many small powerplants upstream.

AVERAGE DISCHARGE.--11 years, 1,000 ft³/s.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 12,500 ft³/s, Mar. 14, 1977, gage height, 21.11 ft, former site and datum; minimum daily, 30 ft³/s, July 9, 1976, former site and datum.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 6,400 ft³/s, Jan. 27, gage height 19.11 ft; minimum daily, 215 ft³/s, Oct. 2.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1985 TO SEPTEMBER 1986
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	e220	e255	347	e240	615	1080	965	e720	942	919	e800	e680
2	e215	e250	1080	e240	517	1090	1110	e710	1340	944	811	697
3	e245	e245	1090	e240	560	1080	1040	710	1200	1070	851	e690
4	293	e240	560	e240	674	1050	754	712	1050	1120	753	e680
5	423	e450	371	e240	856	968	689	850	985	1080	722	e700
6	662	2090	421	e240	860	1130	683	972	1120	1010	767	e700
7	471	1360	375	e245	782	1130	1240	984	1170	945	695	e700
8	300	667	452	e250	1020	1070	1630	1210	961	1010	705	e710
9	254	422	318	e260	1030	1070	1660	1130	1190	984	731	737
10	275	489	e300	e250	1030	1050	1460	961	950	972	736	e720
11	271	379	e290	e245	996	1090	1410	814	949	903	699	e700
12	260	322	e280	e260	1080	1150	1380	957	776	740	715	e690
13	261	393	e270	e340	1050	1160	1310	1140	1160	841	699	698
14	265	494	e265	e405	983	1190	1260	976	1150	841	e700	705
15	317	1330	e260	e420	907	2110	1250	880	1060	e720	e710	737
16	374	791	e260	e420	920	2040	1220	976	1040	e710	724	1110
17	309	988	e255	e420	964	1720	1170	1020	1290	e700	726	e680
18	320	1100	e250	e425	973	1540	1170	972	1130	e700	640	e670
19	339	706	e250	474	948	2050	1160	925	1030	719	755	e670
20	330	533	e250	1640	919	2320	1170	889	1200	732	604	740
21	332	330	e250	1680	1010	1460	1120	891	1360	e730	764	831
22	330	429	e255	1310	1340	1210	853	1020	1140	e720	722	829
23	e320	412	e255	1230	1290	1120	981	1070	991	e710	e710	773
24	e300	398	e255	968	1230	1080	887	1300	1010	e720	e700	e690
25	e290	404	e260	729	1160	1060	1010	1650	916	759	e690	e690
26	e280	368	e255	1760	1090	1120	1120	1180	1030	e800	692	738
27	e275	310	e250	5390	1060	1440	1320	1070	976	e860	e700	701
28	e270	428	e250	3020	1080	1800	1010	1050	898	1050	701	803
29	e265	348	e245	1040	---	1530	910	1000	899	898	716	744
30	e260	391	e240	969	---	1380	e780	974	919	e800	e700	719
31	e260	---	e240	793	---	1330	---	956	---	e810	e690	---
TOTAL	9586	17322	10699	26383	26944	41618	33722	30669	31832	26517	22328	21932
MEAN	309	577	345	851	962	1343	1124	989	1061	855	720	731
MAX	662	2090	1090	5390	1340	2320	1660	1650	1360	1120	851	1110
MIN	215	240	240	240	517	968	683	710	776	700	604	670

CAL YR 1985 TOTAL 138615 MEAN 380 MAX 2670 MIN 123
WTR YR 1986 TOTAL 299552 MEAN 821 MAX 5390 MIN 215

e Estimated

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

LOCATION.--Lat 43°43'28", long 70°18'12", Cumberland County, Hydrologic Unit 01060001, on right bank 50 ft. upstream from bridge on Blackstrap Road, 0.1 mi downstream from Maine Turnpike, 0.6 mi downstream from Meader Brook, 0.9 mi upstream from Piscataqua River, and 1.5 mi south of West Falmouth.

DRAINAGE AREA.--598 mi².

PERIOD OF RECORD.--Water years 1973-74; 1976 to current year.

PERIOD OF DAILY RECORD.--

SPECIFIC CONDUCTANCE: July 1976 to September 1984.

pH: July 1976 to September 1984.

WATER TEMPERATURES: July 1976 to September 1984.

DISSOLVED OXYGEN: July 1976 to September 1984.

INSTRUMENTATION.--Water-quality monitor since July 1976. Continuous flow through system. Suction lift pump located in gage. Pump intake located 30 ft streamward from right bank.

REMARKS.--Beginning in water year 1985, monitor not operated during winter period November 1 to April 30. Other interruptions in the record were due to malfunctions of the monitor or pumping system. Beginning in the 1985 water year, water-discharge records for the Presumpscot River at Westbrook (station 01064118) are used for computation of mean daily discharge.

EXTREMES FOR PERIOD OF DAILY RECORD.--

SPECIFIC CONDUCTANCE: Maximum, 375 microsiemens, Jan. 8, 1979; minimum, 21 microsiemens, July 28, 1982.

pH: Maximum, 9.4 units, Dec. 7, 1977; minimum, 5.3 units, May 22, 1978.

WATER TEMPERATURES: Maximum, 29.0°C, July 21, 1977, Aug. 8, 9, 1980; minimum, 0.0°C, on many days during winter periods.

DISSOLVED OXYGEN: Maximum, 15.0 mg/L, Jan 30, 1983; minimum, 4.4 mg/L, Aug. 8, 1980.

EXTREMES OUTSIDE PERIOD OF DAILY RECORD.--

DISSOLVED OXYGEN: minimum, 1.6 mg/L, July 9, 1976.

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1985 TO SEPTEMBER 1986

DATE	TIME	DIS- CHARGE, IN CUBIC FEET PER SECOND	SPE- CIFIC CON- DUCT- ANCE (US/CM)	PH (STAND- ARD UNITS)	TEMPER- ATURE AIR (DEG°C)	TEMPER- ATURE WATER (DEG°C)	TUR- BID- ITY (NTU)	BARO- METRIC PRES- SURE (MM OF HG)	OXYGEN, DIS- SOLVED (PER- CENT SATUR- ATION)	OXYGEN, DIS- SOLVED (PER- CENT SATUR- ATION)	COLI- FORM, FECAL, 0.7 UM-MF (COLS./ 100 ML)	STREP- TOCOCCI FECAL, KF AGAR (COLS. PER 100 ML)
OCT												
24...	1000	310	201	7.60	7.5	11.0	4.5	771	10.0	90	310	78
DEC												
17...	1100	265	162	7.30	8.0	2.0	4.8	762	13.3	96 K	17000	550
FEB												
12...	0800	1120	83	7.00	-2.0	0.0	2.5	757	13.8	95 K	7500	--
APR												
29...	1530	943	102	7.20	20.0	13.5	3.0	760	10.6	102	200	4000
JUL												
01...	1300	952	89	7.20	25.0	20.5	4.0	763	8.8	98	130	K 36
AUG												
20...	0930	626	105	7.60	28.0	23.0	1.4	769	8.3	96	--	220

DATE	HARD- NESS (MG/L AS CACO3)	CALCIUM DIS- SOLVED (MG/L AS CA)	MAGNE- SIUM, DIS- SOLVED (MG/L AS MG)	SODIUM, DIS- SOLVED (MG/L AS NA)	POTAS- SIUM, DIS- SOLVED (MG/L AS K)	ALKA- LINITY FIELD (MG/L AS CACO3)	SULFATE DIS- SOLVED (MG/L AS SO4)	CHLO- RIDE, DIS- SOLVED (MG/L AS CL)	FLUO- RIDE, DIS- SOLVED (MG/L AS F)	SILICA, DIS- SOLVED (MG/L AS SIO2)	SOLIDS, RESIDUE AT 180 DEG.°C DIS- SOLVED (MG/L)	SOLIDS, SUM OF CONSTITUENTS, DIS- SOLVED (MG/L)
OCT												
24...	28	9.5	1.1	27	2.0	34	--	--	<0.10	3.8	130	110
DEC												
17...	28	9.4	1.2	19	1.6	25	12	25	<0.10	4.2	89	89
FEB												
12...	17	5.3	0.80	9.6	1.0	L 12	9.2	10	<0.10	3.2	--	46
APR												
29...	19	6.0	1.0	12	1.2	L 17	11	13	<0.10	3.8	68	59
JUL												
01...	16	5.2	0.70	11	0.90	L 14	9.5	11	<0.10	1.8	46	49
AUG												
20...	18	5.9	0.80	13	1.2	L 18	10	10	<0.10	2.0	66	54

E Estimated discharge.

K Results based on colony count outside the acceptable range (non-ideal colony count).

L Lab alkalinity value reported.

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1985 TO SEPTEMBER 1986

[illegible]

01064140 PRESUMPCOT RIVER NEAR WEST FALMOUTH, ME--Continued

SPECIFIC CONDUCTANCE (MICROMHOS/CM AT 25 DEG. C), WATER YEAR OCTOBER 1985 TO SEPTEMBER 1986

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
	OCTOBER			NOVEMBER			DECEMBER			JANUARY		
1	244	210	229									
2	287	249	278									
3	291	214	266									
4	222	176	204									
5	186	156	174									
6	160	131	139									
7	172	149	164									
8	225	169	181									
9	284	205	248									
10	209	185	199									
11	213	187	207									
12	225	193	217									
13	212	189	199									
14	217	186	204									
15	215	176	204									
16	170	159	164									
17	205	165	174									
18	209	163	182									
19	203	179	191									
20	203	194	197									
21	197	189	193									
22	195	185	191									
23	211	186	196									
24	---	---	---									
25	---	---	---									
26	---	---	---									
27	---	---	---									
28	---	---	---									
29	---	---	---									
30	---	---	---									
31	---	---	---									
MONTH	291	131	200									

SPECIFIC CONDUCTANCE (MICROMHOS/CM AT 25 DEG. C), WATER YEAR OCTOBER 1985 TO SEPTEMBER 1986

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
	FEBRUARY			MARCH			APRIL			MAY		
1										142	123	129
2										124	106	121
3										123	103	117
4										126	115	120
5										114	102	112
6										103	91	97
7										107	90	97
8										101	92	97
9										105	96	100
10										109	92	100
11										112	108	110
12										110	96	106
13										---	---	---
14										---	---	---
15										---	---	---
16										---	---	---
17										100	92	95
18										99	92	94
19										102	80	92
20										97	82	89
21										100	89	95
22										101	83	97
23										106	81	96
24										109	94	99
25										100	82	88
26										101	82	92
27										104	98	101
28										---	---	---
29										---	---	---
30										104	92	99
31										101	96	99
MONTH										142	80	102

125

PH (STANDARD UNITS), WATER YEAR OCTOBER 1985 TO SEPTEMBER 1986

[illegible]

PRESUMPCOT RIVER BASIN

01064140 PRESUMPCOT RIVER NEAR WEST FALMOUTH, ME--Continued

TEMPERATURE, WATER (DEG. C), WATER YEAR OCTOBER 1985 TO SEPTEMBER 1986

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
	OCTOBER			NOVEMBER			DECEMBER			JANUARY		
1	20.5	19.0	20.0									
2	20.5	20.0	20.5									
3	20.5	18.5	19.5									
4	18.5	17.5	18.0									
5	18.0	17.0	17.5									
6	17.0	15.5	16.5									
7	16.0	15.0	15.5									
8	16.0	15.0	15.5									
9	16.5	16.0	16.5									
10	17.5	16.0	16.5									
11	17.0	15.5	16.5									
12	16.0	15.0	15.5									
13	15.5	15.0	15.0									
14	16.0	15.0	15.5									
15	15.5	15.0	15.5									
16	15.0	14.0	14.5									
17	15.0	13.5	14.0									
18	14.5	13.5	14.0									
19	14.5	14.0	14.5									
20	14.5	13.5	14.0									
21	14.0	12.5	13.5									
22	13.5	12.5	13.0									
23	13.5	12.0	12.5									
24	---	---	---									
25	---	---	---									
26	---	---	---									
27	---	---	---									
28	---	---	---									
29	---	---	---									
30	---	---	---									
31	---	---	---									
MONTH	20.5	12.0	16.0									

TEMPERATURE, WATER (DEG. C), WATER YEAR OCTOBER 1985 TO SEPTEMBER 1986

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
	FEBRUARY			MARCH			APRIL			MAY		
1										13.5	13.0	13.5
2										13.5	12.5	13.0
3										13.5	12.5	13.0
4										13.5	12.5	13.0
5										12.5	11.5	12.0
6										12.0	11.5	11.5
7										11.5	10.5	11.0
8										10.5	10.0	10.0
9										11.0	9.5	10.0
10										12.0	10.0	11.0
11										12.5	11.0	12.0
12										12.0	11.5	11.5
13										---	---	---
14										---	---	---
15										---	---	---
16										---	---	---
17										14.5	13.0	13.5
18										15.5	13.5	14.5
19										17.0	14.5	16.0
20										17.5	16.0	17.0
21										17.5	16.0	16.5
22										16.0	16.0	16.0
23										16.0	15.5	15.5
24										15.5	14.5	15.0
25										15.0	14.5	14.5
26										16.5	14.5	15.5
27										16.5	15.0	16.0
28										---	---	---
29										---	---	---
30										18.0	17.0	17.5
31										18.0	17.0	17.5
MONTH										18.0	9.5	14.0

01064500 SACO RIVER NEAR CONWAY, NH

LOCATION.--Lat 43°59'27", long 71°05'29", Carroll County, Hydrologic Unit 01060002, on left bank at Odell Falls 1.8 mi downstream from Swift River and Conway.

DRAINAGE AREA.--385 mi².

PERIOD OF RECORD.--August 1903 to December 1909, January 1910 to June 1912 (gage heights only), February 1929 to current year. Monthly discharge only for some periods, published in WSP 1301. Prior to 1912, published as "at Center Conway."

REVISED RECORDS.--WSP 1301: 1908-09. WRD ME-81-1: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 418.19 ft above National Geodetic Vertical Datum of 1929. Aug. 26, 1903 to June 30, 1912, nonrecording gage at site 0.8 mi downstream at different datum.

REMARKS.--Estimated daily discharges: Oct. 1-15, Oct. 18 to Nov. 7, Dec. 8 to Jan. 19, and Jan. 27 to Mar. 25. Records good except for periods of ice-effect, Dec. 8 to Jan. 19 and Jan. 27 to Mar. 25, periods of no gage-height record, Oct. 18 to Nov. 7 and Mar. 11-25, and period of doubtful gage-height record, Oct. 1-15, which are fair. Several observations of water temperature and specific conductance were made during the year.

AVERAGE DISCHARGE.--63 years (water years 1904-09, 1930 to current year), 935 ft³/s, 32.98 in/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 43,900 ft³/s, Mar. 27, 1953, gage height, 17.20 ft, (from rating curve extended above 23,000 ft³/s on basis of slope-area measurement of peak flow); maximum gage height, 19.03 ft, Mar. 07, 1979, (ice jam); minimum discharge, 40 ft³/s, Mar. 16, 1932, gage height, 1.61 ft.

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

Date	Time	Discharge (ft ³ /s)	Gage height (ft)	Date	Time	Discharge (ft ³ /s)	Gage height (ft)
Jan. 28	unknown	*29,500	a*13.73	No other peak greater than base discharge.			

a From peak-stage indicator.

Minimum discharge, not determined, occurred during period of ice effect; minimum daily discharge, 182 ft³/s, Jan. 19.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1985 TO SEPTEMBER 1986
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	e540	e350	633	e235	e1450	e315	5310	1610	810	348	810	453
2	e480	e340	1540	e225	e1300	e310	5410	1470	1320	349	1790	420
3	e430	e335	1610	e225	e1150	e300	4520	1240	1060	432	1170	398
4	e400	e330	1050	e220	e1050	e290	3360	1090	856	483	818	392
5	e470	e800	969	e215	e975	e285	2700	1010	748	437	633	394
6	1620	e1500	830	e215	e900	e275	2320	996	719	409	527	515
7	e830	e2600	742	e210	e830	e270	2150	1020	690	386	577	482
8	e620	2200	e660	e205	e780	e265	2200	1340	703	351	1860	401
9	e550	1530	e610	e205	e730	e260	2050	1190	666	322	1400	362
10	e500	1330	e570	e205	e695	e260	2000	985	573	298	1130	339
11	e470	1230	e540	e200	e650	e255	1810	892	586	294	870	327
12	e440	1070	e500	e200	e615	e260	1620	834	802	298	751	338
13	e420	1180	e475	e195	e580	e265	1490	775	1040	354	617	404
14	e540	1220	e445	e195	e550	e290	1470	725	951	382	539	340
15	e730	1470	e420	e195	e530	e1000	1540	687	749	529	487	308
16	2590	1160	e400	e195	e500	e2000	1630	662	633	407	461	398
17	1330	1150	e375	e190	e480	e1250	1760	678	822	346	448	512
18	e1280	1250	e360	e190	e460	e780	1810	665	768	337	479	415
19	e890	1160	e345	e185	e445	e890	1730	623	619	277	825	375
20	e825	1480	e330	856	e430	e3800	1610	592	559	269	590	345
21	e785	1720	e320	2070	e415	e1950	1690	799	531	261	477	387
22	e730	1270	e310	1280	e395	e1450	2650	1990	483	272	426	439
23	e680	1120	e300	920	e385	e1250	2140	1540	446	280	387	394
24	e610	998	e290	596	e375	e1100	1600	2170	450	299	983	488
25	e540	906	e285	523	e360	e995	1830	3330	433	199	1200	455
26	e470	794	e275	989	e345	914	3900	1910	427	206	973	389
27	e460	787	e270	e16500	e335	1920	3600	1400	400	309	772	357
28	e440	753	e260	e20000	e325	3140	2710	1170	409	354	951	332
29	e405	705	e255	e6200	---	3140	2200	990	389	479	689	321
30	e380	657	e245	e2800	---	5530	1940	931	362	1770	572	448
31	e360	---	e240	e1850	---	7310	---	823	---	1260	504	---
TOTAL	21815	33395	16454	58489	18035	42319	72750	36137	20004	12997	24716	11928
MEAN	704	1113	531	1887	644	1365	2425	1166	667	419	797	398
MAX	2590	2600	1610	20000	1450	7310	5410	3330	1320	1770	1860	515
MIN	360	330	240	185	325	255	1470	592	362	199	387	308
CFSM	1.83	2.89	1.38	4.90	1.67	3.55	6.30	3.03	1.73	1.09	2.07	1.03
IN.	2.11	3.23	1.59	5.65	1.74	4.09	7.03	3.49	1.93	1.26	2.39	1.15

CAL YR 1985 TOTAL 257450 MEAN 705 MAX 4680 MIN 100 CFSM 1.83 IN. 24.9
WTR YR 1986 TOTAL 369039 MEAN 1011 MAX 20000 MIN 185 CFSM 2.63 IN. 35.7

e Estimated

01065000 OSSIPEE RIVER AT EFFINGHAM FALLS, NH

LOCATION.--Lat 43°47'44", long 71°03'36", Carroll County, Hydrologic Unit 01060002, on left bank 0.3 mi upstream from bridge on State Highway 153 at Effingham Falls, 0.3 mi downstream from outlet of Ossipee Lake, and 4 mi northwest of Effingham.

DRAINAGE AREA.--330 mi².

PERIOD OF RECORD.--Discharge: September 1942 to current year.
Water-quality records: Water year 1955.

GAGE.--Water-stage recorder. Elevation of gage is 390 ft above National Geodetic Vertical Datum of 1929, from topographic map.

REMARKS.--Estimated daily discharges: Jan. 29 to Feb. 14, Mar. 25-28, and Aug. 8-12. Records good except for periods of no gage-height record, Jan. 29 to Feb. 14, Mar. 25-28, and Aug. 8-12, which are fair. Flow regulated by Ossipee and Silver Lakes and Pine River Pond, combined capacity, 1,430,000,000 ft³. Several observations of water temperature and specific conductance were made during the year.

AVERAGE DISCHARGE.--44 years, 691 ft³/s.

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

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 3,230 ft³/s, Apr. 2, gage height, 7.48 ft; minimum, 176 ft³/s, Sept. 26; minimum daily, 179 ft³/s, Sept. 27.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1985 TO SEPTEMBER 1986
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	431	341	691	245	e2300	459	3150	1050	958	229	1460	229
2	429	228	691	247	e1400	444	3220	819	945	236	1390	229
3	424	229	705	258	e1150	430	3140	695	940	237	1390	229
4	262	325	710	271	e1020	416	2930	692	653	238	1330	230
5	187	445	711	280	e950	403	2670	689	482	229	1240	396
6	189	564	736	289	e900	395	2410	685	484	229	987	474
7	341	685	739	288	e860	357	2200	682	487	231	810	472
8	416	874	710	280	e820	306	2080	679	491	232	e1350	469
9	415	1050	689	280	e790	314	2010	547	495	232	e1500	580
10	410	1030	681	279	e750	321	1920	453	490	229	e1600	713
11	406	1010	672	276	e740	330	1690	455	487	227	e1750	695
12	403	991	667	273	e700	328	1530	444	489	228	e1850	608
13	403	905	528	272	e640	341	1450	437	497	229	1540	564
14	401	858	441	268	e550	361	1360	428	511	230	1140	554
15	402	864	439	261	546	424	1270	428	516	231	774	544
16	410	881	438	255	536	510	1190	427	514	230	535	539
17	416	893	438	254	527	609	1110	301	519	230	533	534
18	421	901	436	254	518	691	904	212	511	229	532	528
19	423	909	435	257	512	1030	736	214	508	227	529	522
20	423	916	434	279	504	1600	734	210	501	227	416	515
21	423	920	432	341	460	1770	727	211	494	226	275	509
22	427	920	430	431	455	1760	583	222	488	225	243	578
23	430	915	429	493	455	1640	467	363	483	238	225	634
24	430	910	428	512	450	1480	469	953	479	246	227	620
25	426	903	426	510	447	e1350	604	1420	477	231	228	529
26	423	892	423	553	437	e1250	699	1520	473	233	228	290
27	423	787	421	1310	420	e1500	716	1530	315	235	373	179
28	422	706	418	2560	450	e2070	948	1320	229	238	476	180
29	525	703	416	e2850	---	2240	1070	1150	227	258	318	180
30	521	700	320	e2800	---	2490	1060	1080	227	893	228	180
31	515	---	233	e2750	---	2830	---	1010	---	1490	229	---
TOTAL	12577	23255	16367	20476	20287	30449	45047	21326	15370	9123	25706	13503
MEAN	406	775	528	661	725	982	1502	688	512	294	829	450
MAX	525	1050	739	2850	2300	2830	3220	1530	958	1490	1850	713
MIN	187	228	233	245	420	306	467	210	227	225	225	179

CAL YR 1985 TOTAL 168302 MEAN 461 MAX 1700 MIN 84
WTR YR 1986 TOTAL 253486 MEAN 694 MAX 3220 MIN 179

e Estimated

01065500 OSSIPEE RIVER AT CORNISH, ME

LOCATION.--Lat 43°48'26", long 70°47'55", Oxford County, Hydrologic Unit 01060002, on left bank 100 ft downstream from highway bridge in Cornish and 1.3 mi upstream from mouth.

DRAINAGE AREA.--452 mi².

PERIOD OF RECORD.--July 1916 to current year.

REVISED RECORDS.--WSP 1301: 1927-29(M). WDR ME-81-1: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 276.10 ft above National Geodetic Vertical Datum of 1929. Prior to Aug. 21, 1929, nonrecording gage, and Aug. 21, 1929, to Sept. 30, 1942, water-stage recorder at same site and datum 1 ft higher.

REMARKS.--Estimated daily discharges: Dec. 5-8, Dec. 14 to Feb. 2, Feb. 12 to Mar. 4, and Mar. 7-12. Records good except for periods of ice effect, Dec. 5-8, Dec. 14 to Feb. 2, Feb. 12 to Mar. 4 and Mar. 7-12, and for period of no gage-height record Jan. 27 to Feb. 1, which are fair. Flow partly regulated by mill at Kezer Falls and by Ossipee and Silver Lakes, and Pine River, Bickford, and Colcord Ponds, combined capacity 1,600,000,000 ft³. Several observations of water temperature and specific conductance were made during the year.

AVERAGE DISCHARGE.--70 years, 882 ft³/s.

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

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 5,770 ft³/s, Jan. 28, gage height, 8.06 ft; minimum daily, 228 ft³/s, Sept. 28.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1985 TO SEPTEMBER 1986
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	485	548	856	e425	e4390	e505	3890	1320	1150	291	1700	275
2	482	289	951	e450	e2860	e480	3910	1200	1290	310	1610	280
3	479	269	1010	e480	2500	e510	3780	906	1270	370	1670	275
4	456	269	922	e490	2090	e490	3540	881	1040	441	1620	277
5	283	508	e885	e540	1770	521	3260	877	660	371	1440	320
6	362	907	e825	e540	1580	511	2950	880	798	354	1300	541
7	329	1090	e860	e490	1390	e425	2830	881	742	348	1040	528
8	492	1020	e880	e475	1350	e280	2790	894	734	322	1820	515
9	484	1270	858	e485	1230	e405	2690	854	701	309	2030	515
10	480	1260	836	e495	1180	e360	2560	648	648	295	2190	738
11	473	1240	827	e465	1120	e425	2350	625	648	285	2530	739
12	462	1210	826	e475	e1000	e455	2030	618	693	285	2270	701
13	466	1160	768	e475	e880	489	1920	596	744	320	1910	611
14	479	1070	e605	e440	e830	517	1810	563	737	341	1480	592
15	520	1220	e600	e435	e765	801	1700	560	689	337	1100	578
16	597	1150	e600	e445	e770	1040	1590	553	672	308	682	626
17	536	1190	e600	e430	e790	1130	1480	523	772	292	649	617
18	513	1250	e555	e435	e870	1210	1350	360	704	288	644	585
19	513	1220	e695	e440	e750	1670	1020	330	642	295	648	570
20	507	1210	e880	e490	680	2880	992	316	657	291	631	561
21	502	1190	e670	e615	e615	2760	995	335	683	288	397	584
22	497	1170	e675	e770	e615	2470	1020	367	624	273	357	589
23	496	1160	e675	e815	e605	2350	748	424	598	264	301	712
24	494	1140	e690	e825	e570	2240	715	976	584	288	305	728
25	496	1120	e690	e965	e555	2070	794	1950	569	275	301	692
26	490	1100	e660	e1340	e480	1980	1050	1900	552	273	287	469
27	483	1050	e670	e3680	e565	2270	1130	1810	516	374	310	269
28	477	895	e650	e5680	e530	2840	1170	1740	329	363	528	228
29	536	879	e500	e5580	---	3200	1390	1430	297	445	490	229
30	592	869	e445	e5390	---	3430	1350	1320	303	773	300	240
31	588	---	e400	e4620	---	3730	---	1220	---	1720	280	---
TOTAL	15049	29923	22564	39680	33330	44444	58804	27857	21046	11789	32820	15184
MEAN	485	997	728	1280	1190	1434	1960	899	702	380	1059	506
MAX	597	1270	1010	5680	4390	3730	3910	1950	1290	1720	2530	739
MIN	283	269	400	425	480	280	715	316	297	264	280	228

CAL YR 1985 TOTAL 225916 MEAN 619 MAX 2350 MIN 84

WTR YR 1986 TOTAL 352490 MEAN 966 MAX 5680 MIN 228

e Estimated

SACO RIVER BASIN

01066000 SACO RIVER AT CORNISH, ME
(National stream-quality accounting network station)

LOCATION.--Lat 43°48'29", long 70°46'53", Cumberland County, Hydrologic Unit 01060002, on left bank 300 ft upstream from highway bridge at Cornish and 0.4 mi downstream from Ossipee River.

DRAINAGE AREA.--1,293 mi².

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--June 1916 to current year.

REVISED RECORDS.--WSP 1301: 1917-18(M), 1936(M). WDR ME-81-1: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 263.48 ft above National Geodetic Vertical Datum of 1929. Prior to Oct. 30, 1919, nonrecording gage on bridge downstream at different datum.

REMARKS.--Estimated daily discharges: Jan. 16 to Mar. 23. Records good except for periods of ice effect, Jan. 16 to Mar. 23, and period of no gage height record, Jan. 30 to Feb. 21, which are fair. Flow partly regulated by powerplants above station and by Ossipee, Silver, Conway, and Kezar Lakes, and Moose, Hancock, Pine River, Bickford, and Colcord Ponds, combined capacity, 3,400,000,000 ft³.

AVERAGE DISCHARGE.--70 years, 2,713 ft³/s.

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

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 15,400 ft³/s, Jan. 31; maximum gage height, 14.58 ft, Jan. 30 (backwater from ice); minimum daily discharge, 258 ft³/s, Aug. 18.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1985 TO SEPTEMBER 1986
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1790	1290	2330	1530	e13800	e2100	9960	4940	3360	1150	3210	1380
2	1710	1040	2430	1530	e13000	e1650	11200	4630	3670	1020	3060	1200
3	1680	954	2590	1390	e11800	e1720	12000	4160	3610	1300	3300	1250
4	1540	910	2630	1540	e10000	e1900	12000	3900	3330	1270	3320	1280
5	1300	1240	2580	1520	e8500	e1950	11400	3680	2950	1130	3140	1110
6	1420	2020	2640	1480	e7500	e1650	10600	3390	2950	1230	2890	1260
7	1540	3010	2550	1610	e6700	e1380	9940	3210	2770	1200	2460	1250
8	1750	3570	2480	1590	e6010	e1600	9390	3180	2640	1090	3560	1470
9	1740	3900	2510	1760	e5800	e1350	8700	3140	2440	1010	4070	1370
10	1580	3960	2310	1640	e5600	e1250	8010	2810	2250	863	4340	1450
11	1520	3970	2270	1570	e7500	e1200	7390	2670	2170	851	4760	1460
12	1410	3890	2220	1640	e7800	e1300	6720	2650	2130	796	4310	1420
13	1340	3730	2040	1550	e7800	e1400	6210	2390	2260	883	3760	1320
14	1410	3510	1790	1570	e7400	e1520	5800	2290	2350	905	3170	1300
15	1400	3690	1760	1540	e7100	e1800	5430	2180	2390	1020	2590	1110
16	1560	3580	1440	e1550	e6700	e2100	5050	2090	2300	825	2060	1210
17	1940	3610	1570	e1500	e6400	e2500	4780	1990	2320	961	1940	1220
18	1970	3600	1570	e1450	e5800	e2800	4470	1830	2150	877	1860	1280
19	2100	3550	1490	e1400	e4000	e3500	4050	1800	1990	866	1720	1240
20	2040	3520	1740	e1500	e3300	e3800	3920	1770	2030	822	1760	1210
21	1990	3480	2000	e1800	e2750	e3400	3860	1500	2020	795	1550	1270
22	1990	3470	1940	e2060	e2500	e5000	3840	1690	1830	769	1420	1280
23	1970	3470	1930	e2200	e2300	e5400	3570	2000	1720	733	1290	1370
24	1800	3400	1930	e2300	e3000	5580	3600	2940	1640	684	1220	1430
25	1560	3230	1990	e2600	e3600	5270	3710	4300	1590	675	1260	1400
26	1680	3090	1700	e3000	e3150	5000	4010	4700	1520	656	1470	1190
27	1660	2930	2200	e6600	e2800	5420	4260	4660	1510	896	1550	979
28	1510	2680	1980	e8000	e2600	6340	4630	4590	1320	887	1750	916
29	1490	2560	1920	e10500	---	7010	5000	4180	1130	1180	1730	898
30	1430	2460	1910	e12300	---	7870	5010	3990	925	1650	1530	868
31	1510	---	1530	e14200	---	9000	---	3640	---	3110	1440	---
TOTAL	51330	89314	63970	96420	175210	103760	198510	96890	67265	32104	77490	37391
MEAN	1656	2977	2064	3110	6257	3347	6617	3125	2242	1036	2500	1246
MAX	2100	3970	2640	14200	13800	9000	12000	4940	3670	3110	4760	1470
MIN	1300	910	1440	1390	2300	1200	3570	1500	925	656	1220	868

CAL YR 1985 TOTAL 661398 MEAN 1812 MAX 5080 MIN 258
WTR YR 1986 TOTAL 1089650 MEAN 2985 MAX 14200 MIN 656

e Estimated

01066000 SACO RIVER AT CORNISH, ME--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 1954, 1975 to current year.

PERIOD OF DAILY RECORD.--

SPECIFIC CONDUCTANCE: July 1975 to September 1981.

WATER TEMPERATURES: July 1975 to September 1981.

EXTREMES FOR PERIOD OF DAILY RECORD.--

SPECIFIC CONDUCTANCE: Maximum, >310 microsiemens, (monitor limitation) Nov. 6, Dec. 13, 23, 24, 26, 27, 1978;
minimum, 16 microsiemens Oct. 13, 1978.

WATER TEMPERATURES: Maximum, 29.0°C Aug. 2, 1975; minimum, 0.0°C on many days during winter periods.

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1985 TO SEPTEMBER 1986

DATE	TIME	STREAM- FLOW, INSTAN- TANEOUS (CFS)	SPE- CIFIC CON- DUCT- ANCE (US/CM)	PH (STAND- ARD UNITS)	TEMPER- ATURE AIR (DEG C)	TEMPER- ATURE WATER (DEG C)	TUR- BID- ITY (NTU)	BARO- METRIC PRES- SURE	OXYGEN, DIS- SOLVED (PER- CENT SATUR- ATION)	OXYGEN, DIS- SOLVED (PER- CENT SATUR- ATION)	COLI- FORM, FECAL, 0.7 UM-MF (COLS. / 100 ML)	STREP- TOCOCCHI FECAL, KF AGAR (COLS. PER 100 ML)
								(MM OF HG)		(MG/L)		
OCT												
23...	1415	2020	38	6.40	9.5	9.0	0.50	765	10.8	93	K 5	K 2
FEB												
12...	1230	E 12300	32	6.20	1.0	0.0	1.7	748	14.2	99	22	--
APR												
10...	1230	7900	29	6.40	9.0	5.0	2.4	734	12.1	98	K 2	K 1
22...	1000	3910	46	6.60	22.0	10.0	1.5	745	10.6	96	K 7	K 2
JUL												
02...	1200	1010	40	7.10	13.0	20.5	24	748	8.3	94	86	36
AUG												
14...	1345	3210	34	6.90	30.0	22.0	0.80	760	8.8	101	--	28

DATE	HARD- NESS (MG/L AS CACO3)	CALCIUM DIS- SOLVED (MG/L AS CA)	MAGNE- SIUM, DIS- SOLVED (MG/L AS MG)	SODIUM, DIS- SOLVED (MG/L AS NA)	POTAS- SIUM, DIS- SOLVED (MG/L AS K)	ALKA- LINITY FIELD (MG/L AS CACO3)	SULFATE DIS- SOLVED (MG/L AS SO4)	CHLO- RIDE, DIS- SOLVED (MG/L AS CL)	FLUO- RIDE, DIS- SOLVED (MG/L AS F)	SILICA, DIS- SOLVED (MG/L AS SiO2)	SOLIDS, RESIDUE AT 180 DEG. C DIS- SOLVED (MG/L)	SOLIDS, SUM OF CONSTI- TUENTS, DIS- SOLVED (MG/L)
OCT												
23...	8	2.6	0.43	3.0	0.60	6.0	4.5	4.1	0.30	6.2	29	26
FEB												
12...	8	2.5	0.40	2.4	0.70	L 3.0	8.0	3.6	0.20	7.2	26	27
APR												
10...	7	2.0	0.40	2.6	0.50	L 4.0	7.6	3.3	0.20	5.5	19	25
22...	7	2.3	0.40	2.7	0.50	L 5.0	6.5	3.5	0.20	5.7	28	25
JUL												
02...	9	2.8	0.50	3.8	0.70	L 7.0	6.8	4.0	0.30	5.4	38	29
AUG												
14...	8	2.4	0.43	2.9	1.0	L 6.0	7.7	3.6	0.30	5.8	29	28

E Estimated discharge.

K Results based on colony count outside the acceptable range (non-ideal colony count).

L Lab alkalinity value reported.

01066000 SACO RIVER AT CORNISH, ME--Continued

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1985 TO SEPTEMBER 1986

DATE	NITRO- GEN, NO2+NO3 DIS- SOLVED (MG/L AS N)	NITRO- GEN, AMMONIA DIS- SOLVED (MG/L AS N)	NITRO- GEN, AMMONIA DIS- SOLVED (MG/L AS NH4)	NITRO- GEN,AM- MONIA + ORGANIC TOTAL (MG/L AS N)	PHOS- PHORUS, TOTAL (MG/L AS P)	PHOS- PHORUS, DIS- SOLVED (MG/L AS P)	PHOS- PHORUS, ORTHO, DIS- SOLVED (MG/L AS P)	ALUM- INUM, DIS- SOLVED (UG/L AS AL)	ARSENIC DIS- SOLVED (UG/L AS AS)	BARIUM, DIS- SOLVED (UG/L AS BA)
OCT 23...	<0.100	0.120	0.15	0.20	0.010	0.010	0.020	60	<1	6
FEB 12...	--	--	--	--	--	--	--	--	--	--
APR 10...	0.100	0.030	0.04	0.30	0.010	<0.010	<0.010	100	<1	7
22...	0.110	0.030	0.04	0.30	0.010	0.010	<0.010	90	<1	6
JUL 02...	0.120	0.010	0.01	0.20	0.020	<0.010	<0.010	--	--	--
AUG 14...	<0.100	0.030	0.04	0.20	0.020	0.020	0.020	--	--	--

[illegible][illegible]

PISCATAQUA RIVER BASIN

135

01072100 SALMON FALLS RIVER AT MILTON, NH

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

DRAINAGE AREA.--108 mi².

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

GAGE.--Water-stage recorder and concrete control. Elevation of gage is 405 ft above National Geodetic Vertical Datum of 1929, from topographic map.

REMARKS.--Estimated daily discharges: Oct. 21 to Mar. 13. Records fair except for period of 5 day per week observations during construction, Oct. 21 to Mar. 13, which are poor. Flow regulated by Great East and Lovell Lakes, and Horn, Wilson, and Milton (also controls Northeast and Town House) Ponds, combined usable capacity, 1,280,000,000 ft³. Several observations of water temperature and specific conductance were made during the year.

AVERAGE DISCHARGE.--18 years, 198 ft³/s.

EXTREMES FOR PERIOD OF RECORD.--Maximum observed discharge, 4,000 ft³/s, Apr. 6, 1984, gage height, 6.70 ft; minimum daily, 19 ft³/s, Aug. 30, Sept. 13, 1970.

EXTREMES FOR CURRENT YEAR.--Maximum observed discharge, 1,680 ft³/s, Jan. 28, gage height, 5.42 ft; minimum daily, 24 ft³/s, Aug. 30, 31, and Sept. 1.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1985 TO SEPTEMBER 1986
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	205	e 37	e136	e 98	e578	e152	582	197	67	43	88	24
2	203	e 38	e128	e 98	e445	e150	454	142	85	43	88	81
3	196	e 38	e123	e100	e352	e150	311	107	127	43	129	132
4	225	e 39	e158	e102	e347	e147	193	102	147	47	175	143
5	236	e 40	e170	e104	e342	e142	174	105	142	51	175	157
6	257	e146	e128	e109	e323	e140	193	105	152	58	156	157
7	306	e288	e128	e107	e314	e137	194	106	159	100	140	157
8	295	e277	e138	e104	e287	e140	242	108	145	134	140	193
9	299	e242	e144	e104	e251	e142	329	116	110	127	140	226
10	348	e219	e138	e104	e229	e142	381	116	74	122	137	228
11	359	e195	e113	e102	e233	e142	283	113	74	99	100	221
12	324	e204	e113	e 96	e229	e177	166	114	85	84	67	215
13	299	e143	e128	e 96	e211	e153	198	83	143	84	66	202
14	289	e114	e128	e 98	e187	162	207	56	167	86	66	193
15	282	e161	e130	e102	e180	284	150	60	162	86	65	175
16	270	e189	e136	e104	e175	501	105	62	143	86	64	159
17	264	e219	e138	e104	e172	599	128	64	159	86	64	144
18	225	e245	e111	e104	e170	609	103	64	164	86	63	101
19	189	e252	e 59	e109	e167	647	48	64	157	86	63	72
20	189	e252	e 68	e125	e167	987	47	64	157	86	54	72
21	e184	e245	e 81	e186	e167	974	49	64	157	62	46	72
22	e184	e207	e 96	e235	e167	752	45	70	157	41	46	79
23	e184	e184	e109	e274	e165	590	45	71	155	41	46	108
24	e184	e161	e107	e341	e162	487	45	125	150	41	46	132
25	e181	e146	e104	e399	e160	421	53	294	94	40	38	103
26	e178	e138	e102	e463	e157	332	88	224	43	40	33	77
27	e114	e138	e100	e741	e155	384	163	174	43	40	30	77
28	e 49	e141	e102	e1500	e155	610	236	141	43	40	26	77
29	e 50	e144	e104	e1270	---	697	256	89	43	40	26	77
30	e 39	e141	e104	e 914	---	683	223	66	43	40	24	95
31	e 39	---	e100	e 719	---	638	---	67	---	57	24	---
TOTAL	6646	4983	3624	9112	6647	12271	5691	3333	3547	2119	2425	3949
MEAN	214	166	117	294	237	396	190	108	118	68.4	78.2	132
MAX	359	288	170	1500	578	987	582	294	167	134	175	228
MIN	39	37	59	96	155	137	45	56	43	40	24	24

CAL YR 1985 TOTAL 42566 MEAN 117 MAX 727 MIN 29
WTR YR 1986 TOTAL 64347 MEAN 176 MAX 1500 MIN 24

e Estimated

DISCHARGE AT PARTIAL-RECORD STATIONS AND MISCELLANEOUS SITES

DISCHARGE MEASUREMENTS MADE AT MISCELLANEOUS SITES DURING WATER YEAR 1986

Stream	Tributary to	Location	Drainage area (mi ²)	Measured previously water years)	Measurements	
					Date	Discharge (ft ³ /s)
ANDROSCOGGIN RIVER BASIN						
Swift River	Androscoggin River	Lat 44°33'17", long 70°32'43", downstream side of Route 2 high- way bridge at Rumford.	125	many	05-01-86	340
					06-26-86	82.4
					07-24-86	20.8
AROOSTOOK RIVER BASIN						
Aroostook River	St. John River	Lat 46°50'09", long 67°56'00", 7.2 miles above the Route 165 Bridge at Fort Fairfield.	--	--	11-05-85	483

WATER QUALITY DATA, WATER YEAR OCTOBER 1985 TO SEPTEMBER 1986

DATE	TIME	STREAM- FLOW, INSTAN- TANEOUS (CFS)	TEMPER- ATURE WATER (DEG C)	TEMPER- ATURE AIR (DEG C)	SPE- CIFIC CON- DUCT- ANCE (US/CM)	DATE	TIME	STREAM- FLOW, INSTAN- TANEOUS (CFS)	TEMPER- ATURE WATER (DEG C)	TEMPER- ATURE AIR (DEG C)	SPE- CIFIC CON- DUCT- ANCE (US/CM)
ST. JOHN RIVER BASIN											
01010000 ST. JOHN RIVER AT NINEMILE BRIDGE, ME (LAT 46 42 00N LONG 069 42 59W)											
OCT 1985						JUN					
28...	1459	762	5.0	5.0	60	18...	0800	1730	15.0	12.0	52
JAN 1986						AUG					
22...	1600	482	0.0	0.0	43	28...	1800	3500	17.0	14.0	50
APR											
03...	0930	18800	3.0	8.0	61						
01010070 BIG BLACK RIVER NEAR DEPOT MTN, ME (LAT 46 53 38N LONG 069 45 08W)											
OCT 1985						APR					
29...	1045	91	4.0	2.0	50	03...	1314	3710	3.0	2.0	58
FEB 1986						JUN					
19...	1245	72	0.0	-1.0	83	17...	1900	518	14.0	10.0	47
01010500 ST. JOHN RIVER AT DICKEY, ME (LAT 47 06 44N LONG 069 05 25W)											
OCT 1985						MAY					
08...	1130	5680	5.0	4.0	60	13...	1105	5340	10.0	9.0	43
JAN 1986						JUL					
29...	0920	E10900	0.0	-10.0	74	24...	1015	2590	19.0	17.5	46
MAR											
18...	1730	762	0.0	4.0	76						
01011000 ALLAGASH RIVER NEAR ALLAGASH, ME (LAT 47 04 14N LONG 069 04 51W)											
OCT 1985						MAR					
08...	1445	962	12.0	14.0	76	19...	0900	505	0.0	1.0	60
DEC						MAY					
06...	0830	E1180	0.0	-15.0	62	13...	1330	2360	11.5	16.0	47
JAN 1986						JUL					
29...	1500	1450	0.0	-10.0	64	24...	1150	1120	21.0	22.5	48
01013500 FISH RIVER NEAR FORT KENT, ME (LAT 47 14 14N LONG 068 34 56W)											
OCT 1985						MAR					
09...	1015	400	8.5	10.0	66	18...	1230	564	1.5	4.0	71
DEC						MAY					
05...	1415	922	0.5	-2.0	66	13...	1630	2350	9.0	15.0	59
JAN 1986						JUL					
29...	1600	E1290	0.0	-5.0	72	24...	1930	704	21.0	22.0	63
01014000 ST. JOHN RIVER BELOW FISH R, AT FORT KENT, ME (LAT 47 15 27N LONG 068 35 35W)											
DEC 1985						JUL 1986					
05...	0850	4790	0.0	-2.0	78	24...	1805	6020	22.5	25.0	56
01015800 AROOSTOOK RIVER NEAR MASARDIS, ME (LAT 46 31 21N LONG 068 22 23W)											
DEC 1985						JUL					
04...	1220	818	0.0	-3.0	60	23...	1440	389	22.5	18.0	58
JAN 1986											
28...	1530	E1100	0.0	-8.0	47						
01017000 AROOSTOOK RIVER AT WASHBURN, ME (LAT 46 46 36N LONG 068 09 29W)											
OCT 1985						MAR 1986					
07...	1900	648	12.0	10.0	78	20...	0930	514	0.0	-1.5	66
DEC											
06...	1300	1340	0.0	-1.0	99						

WATER QUALITY DATA, WATER YEAR OCTOBER 1985 TO SEPTEMBER 1986

DATE	TIME	STREAM- FLOW, INSTAN- TANEOUS (CFS)	TEMPER- ATURE WATER (DEG C)	TEMPER- ATURE AIR (DEG C)	SPE- CIFIC CON- DUCT- ANCE (US/CM)	DATE	TIME	STREAM- FLOW, INSTAN- TANEOUS (CFS)	TEMPER- ATURE WATER (DEG C)	TEMPER- ATURE AIR (DEG C)	SPE- CIFIC CON- DUCT- ANCE (US/CM)
ST. CROIX RIVER BASIN											
01018500 ST. CROIX RIVER AT VANCEBORO, ME (LAT 45 34 08N LONG 067 25 47W)											
OCT 1985						MAR					
10...	1100	836	15.0	14.0	30	12...	1228	622	3.0	1.5	34
DEC						APR					
09...	1415	315	2.5	-1.0	32	10...	1500	222	4.0	4.5	36
FEB 1986						MAY					
04...	1400	246	2.0	-5.0	34	19...	1430	462	13.0	27.0	27
01019000 GRAND LAKE STREAM AT GRAND LAKE STREAM, ME (LAT 45 10 23N LONG 067 46 06W)											
OCT 1985						MAY					
10...	1445	540	16.0	19.0	25	19...	1710	232	11.5	32.0	24
DEC						JUL					
09...	1540	183	1.0	-4.0	26	16...	1645	359	19.0	23.0	26
FEB 1986						SEP					
04...	1540	132	0.0	-10.0	27	24...	1530	896	15.5	12.0	34
MAR											
12...	1412	436	2.5	4.0	27						
01021000 ST. CROIX RIVER AT BARING, ME (LAT 45 08 12N LONG 067 19 05W)											
OCT 1985						MAY					
10...	1715	1060	16.0	13.5	213	19...	2015	1110	19.0	24.0	182
DEC						JUL					
10...	0758	1740	0.5	-5.0	148	17...	0715	959	20.0	22.0	177
FEB 1986						SEP					
04...	1644	3130	0.0	-10.0	100	25...	0800	2610	13.0	12.0	120
MAR											
12...	1555	1940	2.5	1.0	154						
DENNYS RIVER BASIN											
01021200 DENNYS RIVER AT DENNYSVILLE, ME (LAT 44 54 03N LONG 067 14 56W)											
OCT 1985						MAY					
11...	1045	63	12.0	6.5	44	20...	1010	82	17.0	12.0	36
DEC						JUL					
10...	1100	62	0.0	-5.0	38	17...	1455	60	22.0	23.0	36
FEB 1986						SEP					
05...	0940	E100	0.5	-1.0	36	25...	1415	198	18.0	17.0	47
MAR											
13...	0830	E83	0.5	-1.0	47						
PLEASANT RIVER BASIN											
01022260 PLEASANT RIVER NEAR EPPING, ME (SW SITE 13) (LAT 44 41 52N LONG 067 47 16W)											
OCT 1985						MAR					
11...	1305	46	12.0	18.0	31	13...	1044	E81	0.5	4.0	29
DEC						MAY					
10...	1240	76	0.0	1.0	31	20...	1245	80	18.0	17.0	24
FEB 1986						JUL					
05...	1110	E270	0.5	0.0	29	18...	1430	36	20.0	18.0	27

WATER QUALITY DATA, WATER YEAR OCTOBER 1985 TO SEPTEMBER 1986

DATE	TIME	STREAM- FLOW, INSTAN- TANEOUS (CFS)	TEMPER- ATURE WATER (DEG C)	TEMPER- ATURE AIR (DEG C)	SPE- CIFIC CON- DUCT- ANCE (US/CM)	DATE	TIME	STREAM- FLOW, INSTAN- TANEOUS (CFS)	TEMPER- ATURE WATER (DEG C)	TEMPER- ATURE AIR (DEG C)	SPE- CIFIC CON- DUCT- ANCE (US/CM)
NARRAGUAGUS RIVER BASIN											
		01022500	NARRAGUAGUS RIVER AT CHERRYFIELD, ME (LAT 44 36 29N LONG 067 56 10W)								
OCT 1985						MAR					
11...	1420	175	13.5	16.0	40	13...	1258	247	0.5	2.0	33
DEC						MAY					
11...	1120	276	0.5	3.0	32	21...	0930	227	17.0	12.0	29
FEB 1986						JUL					
05...	1158	568	0.5	0.0	29	15...	1115	121	19.5	20.5	30
PENOBSCOT RIVER BASIN											
		01030000	PENOBSCOT RIVER NEAR MATTAWAMKEAG, ME (LAT 45 34 01N LONG 068 24 10W)								
OCT 1985						APR					
16...	0905	1380	11.5	9.5	59	22...	1330	7490	12.0	14.0	45
DEC						JUN					
09...	0955	E3100	0.5	-3.0	52	17...	1300	3420	19.0	16.0	40
FEB 1986						AUG					
04...	0905	7670	0.5	-15.0	51	11...	1330	8920	22.0	23.0	54
MAR											
06...	0755	4380	0.5	-7.0	57						
		01030500	MATTAWAMKEAG RIVER NEAR MATTAWAMKEAG, ME (LAT 45 30 18N LONG 068 18 07W)								
OCT 1985						APR					
16...	1155	574	13.0	14.5	74	22...	1545	7000	10.0	12.5	38
DEC						JUN					
09...	1035	1400	0.0	-3.0	61	17...	1510	1040	19.0	18.5	47
FEB 1986						AUG					
04...	0950	5670	0.0	-12.5	60	11...	1100	4440	22.0	22.0	35
MAR											
06...	0900	641	0.0	-5.0	64						
		01031500	PISCATAQUIS RIVER NEAR DOVER-FOXCROFT, ME (LAT 45 10 31N LONG 069 18 55W)								
OCT 1985						APR					
15...	1405	503	11.0	12.0	43	23...	1130	1470	10.0	11.0	46
DEC						JUN					
10...	1125	E265	0.0	-1.0	75	18...	1125	190	17.5	15.0	45
FEB 1986						AUG					
03...	1000	1280	0.0	-5.0	96	12...	1315	493	22.0	23.0	36
		01033000	SEBEC RIVER AT SEBEC, ME (LAT 45 16 12N LONG 069 06 44W)								
OCT 1985						APR					
15...	1315	660	13.0	12.0	29	23...	0905	1580	6.0	7.0	25
DEC						JUN					
10...	1000	599	0.5	-1.5	29	18...	0920	368	17.5	14.0	26
FEB 1986						AUG					
03...	1045	2410	0.5	-2.0	36	12...	1045	454	22.0	20.0	25
		01034500	PENOBSCOT RIVER AT WEST ENFIELD, ME (LAT 45 14 12N LONG 068 38 56W)								
OCT 1985						APR					
16...	0715	6150	12.0	9.0	76	21...	0900	22100	10.0	9.5	56
DEC						JUN					
09...	1225	E6400	0.0	-0.5	80	17...	0845	7820	18.5	17.0	50
FEB 1986						AUG					
04...	0730	E17500	0.0	-16.0	63	11...	1530	19400	22.0	24.5	61

MISCELLANEOUS TEMPERATURE AND SPECIFIC CONDUCTANCE DETERMINATIONS--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1985 TO SEPTEMBER 1986

DATE	TIME	STREAM- FLOW, INSTAN- TANEOUS (CFS)	TEMPER- ATURE WATER (DEG C)	TEMPER- ATURE AIR (DEG C)	SPE- CIFIC CON- DUCT- ANCE (US/CM)	DATE	TIME	STREAM- FLOW, INSTAN- TANEOUS (CFS)	TEMPER- ATURE WATER (DEG C)	TEMPER- ATURE AIR (DEG C)	SPE- CIFIC CON- DUCT- ANCE (US/CM)
SHEEPSCOT RIVER BASIN											
01038000 SHEEPSCOT RIVER AT NORTH WHITEFIELD, ME (LAT 44 13 23N LONG 069 35 38W)											
DEC 1985						JUN					
10...	1420	157	0.5	0.0	47	16...	1130	116	22.5	26.0	45
JAN 1986						JUL					
08...	1020	95	0.0	-11.0	75	21...	1210	45	23.0	27.0	52
APR											
25...	0830	372	10.5	10.0	43						
KENNEBEC RIVER BASIN											
01042500 KENNEBEC RIVER AT THE FORKS, ME (LAT 45 20 25N LONG 069 57 48W)											
OCT 1985						JUN					
28...	0945	748	7.0	5.0	38	06...	1220	5200	14.0	16.0	37
JAN 1986						SEP					
24...	1115	5350	0.0	-12.0	51	03...	1430	6000	17.0	14.0	35
APR											
01...	1115	3960	14.0	3.0	25						
01046500 KENNEBEC RIVER AT BINGHAM, ME (LAT 45 03 06N LONG 069 53 12W)											
OCT 1985						JUN (continued)					
29...	1430	4280	8.0	8.0	40	30...	1350	4280	17.0	13.0	38
APR 1986						SEP					
01...	1410	9850	5.0	16.0	50	04...	0830	5960	17.0	17.0	52
JUN											
06...	1320	7080	14.0	12.0	43						
01047000 CARRABASSETT RIVER NEAR NORTH ANSON, ME (LAT 44 52 09N LONG 069 57 20W)											
OCT 1985						JUN					
29...	1630	247	7.0	7.0	40	06...	0915	403	13.0	10.0	38
JAN 1986						SEP					
24...	1400	613	0.0	-4.0	55	03...	1015	187	17.0	15.0	37
01049000 SEBASTICOOK RIVER NEAR PITTSFIELD, ME (LAT 44 43 00N LONG 069 24 56W)											
OCT 1985						MAR					
01...	1345	489	18.0	19.0	121	11...	1130	E155	1.0	3.0	115
DEC						MAY					
03...	1245	1080	2.0	-2.0	109	15...	1315	1050	15.0	20.0	77
FEB 1986						JUL					
06...	1145	E2200	0.0	-5.0	64	10...	1300	518	22.0	24.0	110
01049130 JOHNSON BROOK AT SOUTH ALBION, ME (LAT 44 29 53N LONG 069 29 12W)											
OCT 1985						MAR					
01...	1145	0.42	15.0	19.0	105	11...	1045	1.8	0.5	3.0	113
DEC						MAY					
03...	1430	7.4	1.0	-2.0	90	15...	1100	2.5	15.0	24.0	109
FEB 1986						JUL					
06...	1030	4.6	0.0	-5.0	89	11...	1200	0.22	18.0	22.0	148

WATER QUALITY DATA, WATER YEAR OCTOBER 1985 TO SEPTEMBER 1986

DATE	TIME	STREAM- FLOW, INSTAN- TANEOUS (CFS)	TEMPER- ATURE WATER (DEG C)	TEMPER- ATURE AIR (DEG C)	SPE- CIFIC CON- DUCT- ANCE (US/CM)	DATE	TIME	STREAM- FLOW, INSTAN- TANEOUS (CFS)	TEMPER- ATURE WATER (DEG C)	TEMPER- ATURE AIR (DEG C)	SPE- CIFIC CON- DUCT- ANCE (US/CM)
KENNEBEC RIVER BASIN--Continued											
01049373 MILL STREAM AT WINTHROP, ME (LAT 44 18 24N LONG 069 58 18W)											
OCT 1985						MAY					
03...	1030	4.4	16.0	18.0	64	05...	1330	76	11.0	9.0	62
DEC						15...	1530	62	12.0	22.0	59
02...	1430	29	5.5	13.0	66	JUL					
FEB 1986						08...	1300	21	22.0	20.0	66
07...	1100	178	0.5	-5.0	65						
MAR											
10...	1300	30	2.5	-4.5	63						
01049500 COBBOSSEECONTEE STREAM AT GARDINER, ME (LAT 44 13 15N LONG 069 47 25W)											
DEC 1985						JUN					
06...	1450	242	1.0	-1.5	98	23...	1325	242	21.0	22.0	70
JAN 1986						JUL					
08...	0850	108	1.0	-14.0	94	21...	1100	93	24.0	27.5	70
APR											
25...	0805	645	11.0	9.5	65						
01049550 TOGUS STREAM AT TOGUS, ME (LAT 44 15 57N LONG 069 41 55W)											
DEC 1985						JUN					
04...	1230	68	1.0	-2.0	56	16...	0950	18	19.5	23.5	54
JAN 1986						JUL					
08...	0915	19	0.0	-12.0	75	31...	1440	6.1	21.0	21.0	55
APR											
25...	1305	47	12.0	17.0	59						
ANDROSCOGGIN RIVER BASIN											
01052500 DIAMOND RIVER NEAR WENTWORTH LOCATION, NH (LAT 44 52 40N LONG 071 03 25W)											
OCT 1985						APR					
01...	0955	204	12.0	11.0	39	28...	1025	694	10.0	17.0	22
DEC						JUN					
05...	1105	E170	0.0	-3.0	42	24...	1320	86	22.0	27.5	34
FEB 1986						JUL					
05...	1140	E260	0.0	2.0	42	29...	1045	55	21.0	22.0	39
01053500 ANDROSCOGGIN RIVER AT ERROL, NH (LAT 44 46 57N LONG 071 07 46W)											
OCT 1985						APR					
01...	1115	1650	15.5	13.5	29	28...	1220	1310	12.5	19.0	23
DEC						JUN					
05...	1210	1760	2.0	-2.0	42	24...	1505	1860	19.0	23.0	27
FEB 1986						JUL					
05...	1340	3740	1.0	3.0	42	28...	0940	1850	22.0	23.0	31
01054000 ANDROSCOGGIN RIVER NEAR GORHAM, NH (LAT 44 26 10N LONG 071 11 27W)											
OCT 1985						APR					
01...	1300	1930	17.0	19.0	85	28...	1515	1980	14.0	19.0	70
DEC						JUN					
05...	1400	2330	0.0	-1.0	86	24...	1620	2100	21.0	24.0	64
FEB 1986						JUL					
05...	1455	2520	1.5	4.0	79	25...	0850	2040	22.0	23.0	70

MISCELLANEOUS TEMPERATURE AND SPECIFIC CONDUCTANCE DETERMINATIONS--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1985 TO SEPTEMBER 1986

DATE	TIME	STREAM- FLOW, INSTAN- TANEOUS (CFS)	TEMPER- ATURE WATER (DEG C)	TEMPER- ATURE AIR (DEG C)	SPE- CIFIC CON- DUCT- ANCE (US/CM)	DATE	TIME	STREAM- FLOW, INSTAN- TANEOUS (CFS)	TEMPER- ATURE WATER (DEG C)	TEMPER- ATURE AIR (DEG C)	SPE- CIFIC CON- DUCT- ANCE (US/CM)
ANDROSCOGGIN RIVER BASIN--Continued											
01054200 WILD RIVER AT GILEAD, ME (LAT 44 23 26N LONG 070 58 46W)											
OCT 1985						JUN					
01...	1345	71	15.0	21.0	35	24...	1725	50	20.0	24.5	20
DEC						JUL					
05...	1635	163	0.0	-1.0	18	25...	1115	21	23.0	26.0	23
FEB 1986											
05...	1705	163	0.0	4.5	34						
01054500 ANDROSCOGGIN RIVER AT RUMFORD, ME (LAT 44 32 33N LONG 070 32 50W)											
DEC 1985						JUN					
04...	0905	2860	2.0	-4.0	78	26...	0810	2040	24.0	12.0	80
MAY 1986						JUL					
01...	0925	4240	16.0	24.0	81	24...	1200	2070	27.0	22.0	92
01055000 SWIFT RIVER NEAR ROXBURY, ME (LAT 44 38 32N LONG 070 35 17W)											
OCT 1985						JUN					
22...	1110	87	5.0	9.0	28	26...	1210	42	15.0	16.0	27
DEC						JUL					
04...	0805	E135	0.0	-8.0	32	24...	1240	16	22.0	23.0	32
JAN 1986											
10...	1030	58	0.0	-1.0	51						
01055500 NEZINSCOT RIVER AT TURNER CENTER, ME (LAT 44 16 10N LONG 070 13 49W)											
DEC 1985						JUN					
03...	1400	E255	0.5	-5.0	61	23...	1100	80	19.0	18.0	54
APR 1986						JUL					
21...	1205	243	11.5	12.5	46	22...	1030	35	20.0	18.0	79
01057000 LITTLE ANDROSCOGGIN RIVER NEAR SOUTH PARIS, ME (LAT 44 17 08N LONG 070 32 16W)											
OCT 1985						FEB					
22...	1400	49	8.0	14.0	50	26...	1300	67	0.0	-8.0	46
DEC						JUN					
04...	1035	311	0.0	-2.0	52	19...	1215	56	16.5	22.0	42
JAN 1986						JUL					
10...	1210	34	0.0	2.0	65	31...	0915	157	17.0	16.0	40
01059000 ANDROSCOGGIN RIVER NEAR AUBURN, ME (LAT 44 04 20N LONG 070 12 31W)											
OCT 1985						FEB					
07...	1250	6870	16.0	15.0	97	26...	1015	6500	0.5	-9.0	75
DEC						APR					
03...	1230	5260	2.0	-4.0	92	21...	0950	7370	11.5	10.0	63
JAN 1986						JUN					
08...	1345	3300	0.0	-10.0	119	19...	0920	5140	20.0	20.0	73

WATER QUALITY DATA, WATER YEAR OCTOBER 1985 TO SEPTEMBER 1986

DATE	TIME	STREAM- FLOW, INSTAN- TANEOUS (CFS)	TEMPER- ATURE WATER (DEG C)	TEMPER- ATURE AIR (DEG C)	SPE- CIFIC CON- DUCT- ANCE (US/CM)	DATE	TIME	STREAM- FLOW, INSTAN- TANEOUS (CFS)	TEMPER- ATURE WATER (DEG C)	TEMPER- ATURE AIR (DEG C)	SPE- CIFIC CON- DUCT- ANCE (US/CM)
ROYAL RIVER BASIN											
01060000 ROYAL RIVER AT YARMOUTH, ME (LAT 43 47 57N LONG 070 10 45W)											
OCT 1985						APR					
07...	1005	235	14.5	13.0	114	24...	0815	203	12.0	10.5	78
DEC						JUN					
03...	1010	1040	3.0	-4.0	75	20...	0925	96	18.5	17.0	84
JAN 1986						AUG					
09...	0835	95	0.0	-7.0	123	01...	0815	115	19.5	20.0	93
SACO RIVER BASIN											
01064500 SACO RIVER NEAR CONWAY, NH (LAT 43 59 27N LONG 071 05 29W)											
DEC 1985						JUN					
06...	0715	835	0.5	-2.0	45	25...	0850	430	16.0	13.0	41
FEB 1986						AUG					
06...	0750	900	0.0	-12.0	48	04...	1055	820	20.0	22.0	31
APR											
29...	0740	2340	11.0	10.5	25						
01065500 OSSIPEE RIVER AT CORNISH, ME (LAT 43 48 26N LONG 070 47 55W)											
OCT 1985						APR					
21...	1000	495	11.0	7.5	55	29...	1015	1390	15.0	20.0	31
DEC						JUN					
06...	0955	825	0.5	-1.0	46	25...	1210	564	20.5	16.0	33
FEB 1986						AUG					
06...	1220	1690	0.0	-10.0	46	13...	1300	1940	23.0	24.0	40
MAR											
11...	1235	E425	0.0	7.0	49						
01066000 SACO RIVER AT CORNISH, ME (LAT 43 48 35N LONG 070 46 53W)											
OCT 1985						AUG 1986					
21...	1120	1980	10.0	9.0	39	13...	0930	3920	22.0	24.0	31
DEC											
06...	0850	2630	0.0	-1.0	44						

GROUND-WATER LEVELS

ANDROSCOGGIN COUNTY

440730070035304. Local number, AN 988C.

LOCATION.--Lat 44°07'23", long 70°04'02", Hydrologic Unit 01040002, on Bowdoin Road, 0.4 mi east of State Highway 126, in Sabattus. Owner: U.S. Geological Survey.

AQUIFER.--Glacial sand and gravel (ice-contact deposits) of Pleistocene age.

WELL CHARACTERISTICS.--Wash-bored observation artesian well, diameter 1.5 in., depth 43 ft, screened 38 to 43 ft.

INSTRUMENTATION.--Measurements with chalked tape by USGS personnel.

DATUM.--Elevation of land-surface datum is 220 ft above National Geodetic Vertical Datum of 1929, from topographic maps. Measuring point: Top of pipe at land-surface datum, which is 2.7 ft above land-surface datum.

REMARKS.--Water level affected by pumping of nearby well.

PERIOD OF RECORD.--October 1976 to January 1984 and August 29, 1984 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 3.95 ft below land-surface datum, May 29, 1979; lowest measured, 6.54 ft, below land-surface datum, Oct. 03, 1985.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM WATER YEAR OCTOBER 1985 TO SEPTEMBER 1986

WATER LEVEL		WATER LEVEL		WATER LEVEL		WATER LEVEL		WATER LEVEL		WATER LEVEL	
Oct. 03	6.54	Nov. 29	5.52	Jan. 29	5.46	Mar. 31	4.86	May 30	5.26	Jul. 30	6.33
Oct. 29	5.69	Dec. 30	5.70	Feb. 26	5.56	Apr. 30	5.17	Jun. 30	6.26	Aug. 29	4.62

AROOSTOOK COUNTY

464807068284401. Local number, Ar 1A.

LOCATION.--Lat 46°48'07", long 68°28'44", Hydrologic Unit 01010003, on State Highway 11, about 3.1 mi north of the village of Portage Lake. Owner: William Condon

AQUIFER.--Bedrock of Ordovician age.

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

INSTRUMENTATION.--Measurement with chalked tape by local observer.

DATUM.--Elevation of land-surface datum is 713.08 ft above National Geodetic Datum 1929, from topographic maps.

Measuring point: Top of 1.5 in. pipe coupling, at land-surface datum.

PERIOD OF RECORD.--November 1975 to current year. Records prior to October 1981 have not been published, but are available in the files of the Geological Survey.

EXTREMES FOR PERIOD OF RECORD.--Highest water level, overflowed, Jan. 27, 1976, Mar. 14, 1977, Apr. 27, 1978, Apr. 13, 1984, and Mar. 13, 1985; lowest measured 10.10 ft below land-surface datum, Jan. 13, 1976 and Feb. 25, 1977.

WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1985 TO SEPTEMBER 1986

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
Oct. 15	5.20	Dec. 13	3.68	Feb. 11	5.20	Apr. 14	Z	Jun. 11	3.10	Aug. 14	2.34
27	5.36	27	5.88	26	6.40	28	2.40	29	4.15	26	1.95
Nov. 18	3.05	Jan. 13	7.50	Mar. 12	7.21	May 13	3.27	Jul. 10	3.87	Sep. 12	1.50
28	2.84	30	3.23	31	Z	28	2.50	28	4.35	27	2.68

Z=well frozen

AROOSTOOK COUNTY--Continued

471457068353001. Local number, Ar 890.

LOCATION.--Lat 47°14'57", long 68°35'30", Hydrologic Unit 01010003, 0.25 mi southeast of the intersection of State Highways 11 and 161 and U.S. Highway 1, Fort Kent. Owner: U.S. Geological Survey.

AQUIFER.--Glacial sand and gravel (ice-contact deposits) of Pleistocene age.

WELL CHARACTERISTICS.--Drilled observation artesian well, diameter 6 in., November 1976 constructed depth 50 ft, open end. November 1982 measured depth 48 ft.

INSTRUMENTATION.--Digital water-level recorder--60 minute punch.

DATUM.--Elevation of land-surface datum is 530 ft above National Geodetic Datum 1929, from topographic maps.

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

REMARKS.--Record lost between Oct. 1-8, because recorder stopped.

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

REVISED RECORDS.--WDR ME-84-1: 1980, 1981.

EXTREMES FOR PERIOD OF RECORD.--Highest water level, 0.52 ft below land-surface datum, May 2, 1984; lowest, 15.28 ft below land-surface datum, Jan. 22 and 23, 1979.

WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1985 TO SEPTEMBER 1986
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	---	12.12	11.85	11.71	9.71	10.66	7.12	5.18	6.74	8.86	9.42	7.76
10	11.54	12.05	11.82	11.74	9.82	10.85	6.99	5.61	7.12	8.80	9.47	7.93
15	11.69	12.02	11.91	11.89	10.08	10.89	6.58	6.10	7.61	9.28	9.40	7.14
20	11.82	11.95	11.70	11.97	10.23	11.05	5.61	6.62	8.15	9.24	9.31	7.54
25	11.84	11.88	11.57	11.91	10.32	11.14	4.87	6.08	8.50	9.48	8.84	7.54
EOM	12.09	12.00	11.67	10.58	10.47	10.17	4.76	6.37	8.37	9.77	7.97	7.37
WTR YR 1986	MEAN	9.45	HIGH	4.68	APR 28	AND OTHERS	LOW	12.13	NOV 3-4			

463642069344601. Local number, Ar 891.

LOCATION.--Lat 46°36'42", long 69°34'46", Hydrologic Unit 01010002, about 2.7 mi west of the village of Clayton Lake, T 11, R 14. Owner: International Paper Co.

AQUIFER.--Seboomook Formation of Devonian age.

WELL CHARACTERISTICS.--Drilled observation artesian well, diameter 6 in., depth 80 ft, open hole.

INSTRUMENTATION.--Digital water-level recorder--60-minute punch.

DATUM.--Elevation of land-surface datum is 1,050 ft above National Geodetic Datum 1929, from topographic maps.

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

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

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

REVISED RECORDS.--WDR ME-84-1: 1980, 1981.

EXTREMES FOR PERIOD OF RECORD.--Highest water level, 6.96 ft below land-surface datum, Apr. 26, 1983; lowest, 16.62 ft below land-surface datum, Aug. 23, 1982.

WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1985 TO SEPTEMBER 1986
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	15.52	15.49	14.17	15.04	13.10	14.59	10.79	13.09	13.49	14.41	14.06	14.59
10	15.04	14.51	14.48	15.20	13.63	14.76	12.16	12.88	13.71	13.90	13.69	15.01
15	15.02	14.76	14.66	15.36	14.00	14.51	12.19	13.87	14.38	14.23	14.26	12.30
20	14.82	14.72	14.84	15.19	14.34	14.27	11.46	14.37	14.82	14.30	14.67	13.54
25	15.02	13.99	14.97	14.79	14.27	14.38	11.51	10.36	14.44	14.90	12.92	13.60
EOM	15.35	14.19	15.26	12.82	14.52	11.38	12.11	12.64	14.18	15.04	14.04	13.91
WTR YR 1986	MEAN	14.02	HIGH	10.03	APR 4	LOW	15.95	OCT 2				

GROUND-WATER LEVELS

CUMBERLAND COUNTY

435453070013601. Local number, C 26.

LOCATION.--Lat 43°54'53", long 70°01'36", Hydrologic Unit 01060001, 0.3 mi northwest of the intersection of Durham Road and U.S. Highway 1 in Brunswick. Owner: Brunswick and Topsham Water District.

AQUIFER.--Stratified sand and gravel deposits of Pleistocene age.

WELL CHARACTERISTICS.--Drilled observation artesian well, diameter 12 in., reported depth 101 ft in 1953, screened 81 to 101 ft. November 1982 measured depth 96 ft.

INSTRUMENTATION.--Digital water-level recorder--60 minute punch.

DATUM.--Elevation of land-surface datum is 139 ft above National Geodetic Datum 1929, from topographic maps.

Measuring point: Electric tape gage index 2.93 ft above land-surface datum.

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

REVISED RECORDS.--WDR ME-82-1: 1978, 1981 WDR ME-83-1: 1977, WRD ME-84-1: 1980, 1981.

EXTREMES FOR PERIOD OF RECORD.--Highest water level, 25.95 ft below land-surface datum, Jun. 9, 1984; lowest 36.41 ft below land-surface datum, Feb. 10, 1966.

WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1985 TO SEPTEMBER 1986
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	31.46	31.58	31.11	31.43	31.15	31.46	31.27	30.96	30.89	31.00	31.30	31.60
10	31.44	31.33	31.15	31.54	31.23	31.54	31.11	30.96	30.90	31.02	31.34	31.68
15	31.49	31.34	31.18	31.66	31.27	31.53	31.12	30.97	30.88	31.07	31.39	31.72
20	31.55	31.11	31.27	31.52	31.38	31.43	31.08	30.97	30.91	31.10	31.46	31.79
25	31.52	31.09	31.28	31.51	31.33	31.37	31.13	30.97	30.93	31.17	31.50	31.84
EOM	31.61	31.11	31.39	31.24	31.40	31.26	31.01	30.91	30.95	31.23	31.58	31.87
WTR YR 1986	MEAN	31.29	HIGH	30.83	JUN 8	LOW	34.07	OCT 1				

FRANKLIN COUNTY

451128070280301. Local number, FW 893.

LOCATION.--Lat 45°11'28", long 70°28'03", Hydrologic Unit 01030002, approximately 150 feet northwest of the intersection of State Highway 27 and Eustis Hill Road, Eustis. Owner: U.S. Geological Survey.

AQUIFER.--Glacial sand and gravel.

WELL CHARACTERISTICS.--A wash-bored observation well, diameter 2 in., August 1985. Measured depth 20 ft, screened 15-20 ft.

INSTRUMENTATION.--Digital water-level recorder--60 minute punch.

DATUM.--Elevation of land-surface datum is 1169.000 ft above National Geodetic Datum 1929, from topographic maps.

Measuring point: File mark on 6" casing inside of shelter, which is 3.20 ft above the general land surface.

REMARKS.--Water-quality records for the current year are published elsewhere in this report. May 6 through June 23, period of doubtful gage height record.

PERIOD OF RECORD.--August 1985 to current year. Records prior to October 1985 have not been published, but are available in the files of the Geological Survey.

EXTREMES FOR PERIOD OF RECORD.--Highest water level 6.76 ft below land surface datum, May 2-4, 1986; lowest water level 9.04 ft below land surface datum, Jan. 26-27, 1986.

WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1985 TO SEPTEMBER 1986
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	8.85	8.97	8.47	8.64	8.79	8.86	8.03	7.68	---	7.38	8.01	8.41
10	8.85	8.83	8.50	8.79	8.76	8.96	7.67	---	---	7.49	8.07	8.52
15	8.87	8.70	8.49	8.89	8.75	8.96	7.51	---	---	7.62	8.09	8.60
20	8.88	8.59	8.52	8.97	8.77	8.95	7.25	---	---	7.72	8.15	8.71
25	8.88	8.53	8.55	9.03	8.79	8.93	7.01	---	7.09	7.83	8.22	8.79
EOM	8.92	8.48	8.58	8.93	8.80	8.83	6.81	---	7.27	7.92	8.33	8.86
WTR YR 1986	HIGH	6.76	MAY 2 AND OTHERS	LOW	9.04	JAN 26 AND OTHERS						

HANCOCK COUNTY

444950068220601. Local number, H 1.

LOCATION.--Lat 44°49'50", long 68°22'06", Hydrologic Unit 01050002, on State Highway 9, 0.25 mi west of the intersection with State Highway 181 in Amherst. Owner: Walter Jordan

AQUIFER.--Glacial till of Pleistocene age.

WELL CHARACTERISTICS.--Dug observation water-table well, diameter 18 in., depth 14 ft, cased with rock to 14 ft, open end.

INSTRUMENTATION.--Digital water-level recorder--60-minute punch.

DATUM.--Elevation of land-surface datum is 330 ft above National Geodetic Datum 1929, from topographic maps.

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

REMARKS.--Record lost between Nov. 7 through Dec. 10, Feb. 27 through Mar. 12, and May 22 through Jul. 14 because recorder stopped.

PERIOD OF RECORD.--November 1943 to current year. Records for May 15-30, 1979; April 26-30, 1981; and the monthly summary for January 1981 are unreliable and should not be used.

REVISED RECORDS.--WDR ME-82-1: 1981, WRD ME-84-1: 1980, 1981.

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

WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1985 TO SEPTEMBER 1986
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	10.94	10.42	---	7.21	4.63	---	6.43	5.95		---	8.08	6.31
10	11.07	---	---	7.53	4.96	---	6.41	5.83		---	8.40	6.62
15	11.06	---	6.14	7.89	5.33	6.59	6.39	5.74		8.57	8.81	7.02
20	11.07	---	6.39	7.58	5.48	6.49	6.39	5.57		9.13	8.01	7.15
25	11.07	---	6.51	5.72	5.86	6.46	6.36	---		9.72	6.07	7.29
EOM	10.45	---	6.97	4.04	---	6.45	6.15	---		9.31	5.99	7.48
WTR YR 1986	MEAN	7.30	HIGH	2.57	JAN 28	LOW	13.66	SEP 12	AND OTHERS			

441440068182701. Local number, H 137.

LOCATION.--Lat 44°14'40", long 68°18'27", Hydrologic Unit 01050002, Seawall Campground of Acadia National Park, 1.3 mi south of Southwest Harbor. Owner: National Park Service.

AQUIFER.--Bedrock of Devonian age.

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

INSTRUMENTATION.--Measurement with popper--by local observer.

DATUM.--Elevation of land-surface datum is 40 ft above National Geodetic Datum 1929, from topographic maps.

Measuring point: Top of casing 1.3 ft above land-surface datum.

PERIOD OF RECORD.--June 1981 to current year. Water levels prior to October 1981 have not been published but are available in the files of the Geological Survey.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 7.2 ft below land-surface datum, Mar. 23, 1984 and Aug. 08, 1985; lowest measured, 14.9 ft below land-surface datum, Oct. 25, 1984.

WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1985 TO SEPTEMBER 1986
MEAN VALUES

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
Oct. 08	9.66	Dec. 12	10.2	Feb. 13	9.7	Apr. 10	8.4	Jun. 12	8.0	Aug. 14	8.7
10	9.70	26	10.0	27	9.5	24	7.9	26	8.9	28	8.5
Nov. 14	8.30	Jan. 09	8.9	Mar. 13	9.4	May 03	9.7	Jul. 10	8.4	Sep. 12	9.1
27	9.40	23	8.6	27	8.9	22	8.1	24	9.2	26	9.1

GROUND-WATER LEVELS

KENNEBEC COUNTY

441849069442001. Local number, K 52.

LOCATION.--Lat 44°18'49", long 69°44'20", Hydrologic Unit 01030003, on Cony Road, 0.3 mi south of State Highway 105, in Augusta. Owner: Walter Panek.

AQUIFER.--Glacial till of Pleistocene age.

WELL CHARACTERISTICS.--Dug observation water-table well, diameter 36 in., depth 22 ft, cased with rock to 22 ft, open end.

INSTRUMENTATION.--Water-level recorder from Oct. 1 through Aug. 4, Digital water-level recorder--60 minute punch installed Aug. 5.

DATUM.--Elevation of land-surface datum is 220 ft. above National Geodetic Datum 1929, from topographic maps.

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

REMARKS.--Record lost between Jan. 31 through Mar. 31, May 22-29, and Jul. 2 through Aug. 4, because timer stopped.

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

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

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

WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1985 TO SEPTEMBER 1986
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	12.07	10.36	4.58	6.51	---	---	4.41	4.88	4.80	---	7.79	5.95
10	11.90	8.69	4.92	6.82	---	---	4.13	4.23	5.39	---	7.21	6.10
15	11.80	6.90	5.26	7.08	---	---	4.44	4.93	5.85	---	6.55	6.34
20	11.40	4.26	5.57	7.37	---	---	4.81	5.24	6.32	---	6.12	6.61
25	10.96	4.48	5.93	4.93	---	---	4.74	---	6.76	---	5.62	6.78
EOM	10.52	4.78	6.23	---	---	---	4.33	4.63	7.09	---	5.72	6.80
WTR YR 1986		MEAN	650	HIGH	3.34	JAN 27	LOW	12.08	OCT 5			

440918069564001. Local number, K 766.

LOCATION.--Lat 44°09'18", long 69°56'40", Hydrologic Unit 01030003, 690 ft northeast of the intersection of Hallowell Neck Road, Libby Road, and Plains Road, Litchfield. Owner: U.S. Geological Survey.

AQUIFER.--Glacial sand and gravel (ice-contact deposits) of Pleistocene age.

WELL CHARACTERISTICS.--Drilled observation water-table well, diameter 6 in., depth 62 ft, cased to 59 ft, open end.

INSTRUMENTATION.--Digital water-level recorder--60 minute punch.

DATUM.--Elevation of land-surface datum is 300 ft above National Geodetic Datum 1929, from topographic maps.

Measuring point: Floor of recorder shelter at land-surface datum, which is 2.7 ft above the general land surface.

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

REVISIONS.--Water levels, October 1979 to September 1981, were incorrectly reported from land surface. They should be referenced from land-surface datum.

EXTREMES FOR PERIOD OF RECORD.--Highest water level, 38.76 ft below land-surface datum, Jun. 02, 1984; lowest, 51.46 ft below land-surface datum, Sept. 21-24, 1981.

WATER LEVEL, IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 1985 TO SEPTEMBER 1986
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	50.52	50.83	50.35	50.54	48.78	49.05	47.07	46.68	46.62	47.34	48.13	48.86
10	50.47	50.66	50.35	50.62	48.77	49.13	46.86	46.72	46.70	47.47	48.21	48.99
15	50.50	50.63	50.34	50.71	48.81	49.12	46.88	46.81	46.79	47.62	48.32	49.14
20	50.52	50.57	50.37	50.79	48.87	48.14	46.93	46.93	46.93	47.76	48.42	49.24
25	50.62	50.53	50.40	50.74	48.88	47.78	46.96	46.67	47.05	47.91	48.56	49.37
EOM	50.73	50.51	50.51	48.93	48.93	47.18	46.62	46.61	47.21	48.01	48.73	49.46
WTR YR 1986		MEAN	48.75	HIGH	46.57	MAY 26 AND OTHERS		LOW	50.83	NOV 5-6		

GROUND-WATER LEVELS

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KENNEBEC COUNTY

440810069553601. Local number, K 872 A.

LOCATION.--Lat 44°08'17", long 69°55'36", Hydrologic Unit 01030003, on Small Road, 0.40 mi north of State Highway 197, Litchfield. Owner: Stephen Condon.

AQUIFER.--Bedrock of Devonian age.

INSTRUMENTATION.--Digital water-level recorder--60 minute punch.

WELL CHARACTERISTICS.--Drilled observation artesian well, diameter 6 in., depth 404 ft, cased to bedrock, open end.

DATUM.--Elevation of land-surface datum is 220 ft above National Geodetic Datum 1929, from topographic maps.

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

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

REVISED RECORDS.--WDR ME-82-1: 1980, WRD ME-84-1: 1980, 1981.

EXTREMES FOR PERIOD OF RECORD.--Highest water level, 6.24 ft below land-surface datum, Jan. 27, 1985; lowest, 19.11 ft below land-surface datum, Oct. 4, 1980.

WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1985 TO SEPTEMBER 1986
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	17.20	11.86	9.58	11.50	9.89	10.61	9.61	10.22	10.21	12.03	12.05	13.65
10	11.83	9.47	10.33	11.68	10.40	10.78	9.08	9.83	10.94	12.56	12.14	13.78
15	11.83	9.19	10.63	11.80	10.71	9.37	9.82	10.66	11.26	12.94	12.03	14.65
20	11.05	9.34	10.94	10.89	10.98	7.51	10.41	11.13	11.74	13.16	12.17	16.81
25	11.29	10.08	11.08	9.82	10.13	9.31	9.61	8.69	12.08	13.55	12.64	14.41
EOM	11.76	10.52	11.36	8.88	10.47	8.74	9.53	10.14	12.42	13.29	13.17	16.03

WTR YR 1986 MEAN 11.22 HIGH 6.24 JAN 27 LOW 22.61 OCT 1

OXFORD COUNTY

444637070552301. Local number, O 400.

LOCATION.--Lat 44°46'37", long 70°55'23", Hydrologic Unit 01040001, at Middle Dam, Lower Richardson Lake.

Owner: Union Water Power Co.

AQUIFER.--Glacial till of Pleistocene age.

WELL CHARACTERISTICS.--Dug observation water-table well, diameter 24 in., depth 15 ft, cased with concrete pipe to 15 ft, open end.

INSTRUMENTATION.--Measurement with chalked tape by well observer.

DATUM.--Elevation of land-surface datum is 1,450 ft above National Geodetic Datum 1929, from topographic maps.

Measuring point: Top of concrete pipe 1.8 ft above land-surface datum.

REMARKS.--Prior to 1973 well was used for domestic supply. Water quality records for the current year are published elsewhere in this report.

PERIOD OF RECORD.--April 1944 to current year. Records from May 16 to September 30, 1982 are unreliable and should not be used.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 0.4 ft above land-surface datum, Apr. 11, 1976; lowest measured, 12.2 ft below land-surface datum, Oct. 9, 16, 23, 1966.

WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1985 TO SEPTEMBER 1986

DATE	LEVEL	DATE	LEVEL	DATE	LEVEL	DATE	LEVEL	DATE	LEVEL	DATE	LEVEL
Oct. 02	10.66	Dec. 01	5.89	Feb. 02	4.28	Apr. 06	1.77	Jun. 01	4.89	Aug. 03	9.16
06	10.52	08	5.97	09	4.03	13	2.17	08	5.36	17	7.31
13	10.25	15	7.17	16	3.77	20	2.36	15	6.02	24	7.40
20	9.97	29	6.72	23	5.03	27	2.71	22	6.47	31	7.76
Nov. 03	9.52	Jan. 05	6.42	Mar. 09	6.05	May 04	5.28	29	6.92	Sep. 07	8.05
10	9.10	19	7.49	16	6.08	11	4.89	Jul. 06	7.49	14	8.25
17	7.87	26	6.51	23	4.04	18	5.97	13	8.04	21	8.30
24	6.49			30	2.19	25	5.78	20	8.41	28	8.20
								27	8.40		

GROUND-WATER LEVELS

OXFORD COUNTY

440642070583401. Local number, O 615.

LOCATION.--Lat 44°06'41", long 70°58'32", Hydrologic Unit 01060002, at the intersection of State Highway 113 and road to Fish Street, Fryeburg. Owner: U.S. Geological Survey.

AQUIFER.--Glacial sand and gravel (outwash) of Pleistocene age.

WELL CHARACTERISTICS.--Wash-bored observation water-table well, diameter 1.5 in., depth 40 ft, which is screened 35 to 40 ft.

INSTRUMENTATION.--Measurement with chalked tape by local observer.

DATUM.--Elevation of land-surface datum is 390 ft above National Geodetic Datum 1929, from topographic maps.

Measuring point: Top of casing at land-surface datum, which is 2.9 ft above the general land surface.

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

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 4.20 ft below land-surface datum, Mar. 20, 1983; lowest measured, 11.58 ft below land-surface datum, Oct. 1, 1978.

WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1985 TO SEPTEMBER 1986

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
Oct. 01	10.57	Dec. 02	8.60	Feb. 07	7.20	Apr. 07	4.75	Jun. 22	8.55	Aug. 07	9.40
12	10.20	28	9.20	Mar. 19	6.70	May 10	7.50	26	8.25	Sep. 14	9.60
Nov. 20	8.60										

442515070481001. Local number, O 616.

LOCATION.--Lat 44°25'15", long 70°48'11", Hydrologic Unit 01040002, at Bethel Airport, Bethel.

Owner: U.S. Geological Survey.

AQUIFER.--Glacial sand and gravel (outwash) of Pleistocene age.

WELL CHARACTERISTICS.--Wash-bored observation water-table well, diameter 1.5 in., August 1978 constructed depth 21 ft, screened 16 to 21 ft. November 1982 measured depth 20 ft.

INSTRUMENTATION.--Measurements with chalked tape by local observer.

DATUM.--Elevation of land-surface datum is 650 ft above National Geodetic Datum 1929, from topographic maps.

Measuring point: Top of casing 0.6 ft below land-surface datum, which is 2.0 ft above the general land surface.

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

REVISED RECORDS.--WDR ME-82-1: 1979, 1980, 1981. WDR ME-83-1: 1979.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 6.1 ft, below land-surface datum, Apr. 15, 1984; lowest measured, 13.2 ft below land-surface datum, Oct. 30, 1985.

WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1985 TO SEPTEMBER 1986

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
Oct. 15	12.9	Dec. 15	11.7	Feb. 14	10.2	Apr. 15	8.4	Jun. 16	9.5	Aug. 15	10.5
30	13.2	30	12.4	27	10.2	28	8.4	26	10.30	29	10.6
Nov. 18	12.6	Jan. 15	12.3	Mar. 17	10.2	May 16	9.5	Jul. 29	11.2	Sep. 15	11.1
30	11.7	28	9.8	28	8.71	28	9.3			29	11.5

OXFORD COUNTY--Continued

440823070291501. Local number, O 1214.

LOCATION.--Lat 44°08'23", long 70°29'15", Hydrologic Unit 01040002, on State Highway 121, about 0.1 mi east of the intersection with Skeetfield Road, in Oxford. Owner: U.S. Geological Survey.

AQUIFER.--Stratified sand (outwash) of Pleistocene age.

WELL CHARACTERISTICS.--Drilled observation water-table well, diameter 6 in., September 1980 constructed depth 39 ft, cased with 6 in. steel to 35 ft, screened 35 to 39 ft. November 1982 measured depth 38 ft.

INSTRUMENTATION.--Digital water-level recorder--60 minute punch.

DATUM.--Elevation of land surface datum is 334.04 ft above National Geodetic Datum 1929, from topographic maps.

Measuring point: Electric tape gage index at land surface datum, which is 1.2 ft above the general land surface.

REMARKS.--Test hole adjacent to this well shows a depth to bedrock of 174 ft.

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

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

EXTREMES FOR PERIOD OF RECORD.--Highest water level, 4.07 ft below measuring-point datum, Jun. 3, 1984; lowest, 10.27 ft below measuring-point datum, Nov. 3-6, 1985.

WATER LEVEL, IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 1985 TO SEPTEMBER 1986
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	10.22	10.27	9.80	10.04	9.04	9.43	8.40	8.05	8.07	8.62	9.05	9.23
10	10.22	10.12	9.80	10.13	9.08	9.49	8.28	8.10	8.15	8.70	8.95	9.31
15	10.22	9.99	9.80	10.19	9.16	9.52	8.17	8.21	8.25	8.78	8.87	9.39
20	10.14	9.96	9.84	10.24	9.25	9.03	8.17	8.32	8.35	8.84	8.95	9.46
25	10.12	9.88	9.89	10.08	9.34	8.87	8.19	8.28	8.46	9.00	9.06	9.51
EOM	10.20	9.83	10.01	9.08	9.38	8.51	8.09	8.07	8.54	9.01	9.17	9.57
WTR YR 1986	MEAN	9.19	HIGH	8.05	MAY 3	AND OTHERS	LOW	10.27	NOV 3	AND OTHERS		

PENOBSCOT COUNTY

445319068560101. Local number, Pe 456.

LOCATION.--Lat 44°53'19", long 68°56'01", Hydrologic Unit 01020005, on Kenduskeag-Levant Road, 2.5 mi south of Kenduskeag, near Kenduskeag-Levant town line, Kenduskeag. Owner: Clarence W. Parker, Jr.

AQUIFER.--Bedrock of Silurian age.

WELL CHARACTERISTICS.--Drilled observation artesian well, diameter 6 in., depth 98 ft, open hole.

INSTRUMENTATION.--Digital water-level recorder--60 minute punch.

DATUM.--Elevation of land-surface datum is 190 ft above National Geodetic Datum 1929, from topographic maps.

Measuring point: Floor of fiberglass shelter 0.36 ft above land-surface datum, which is 4.3 ft above the general land surface.

REMARKS.--Record lost between Oct. 1-7, Nov. 4 through Dec. 9, Jan. 25 through Feb. 2, Apr. 24 through May 20 and Jun. 19 through Aug. 5, because recorder stopped.

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

REVISED RECORDS.--WRD ME-84-1: 1979, 1980, 1981.

REVISIONS.--Water levels, September 1979 to October 1981, were incorrectly reported from land surface. They should be referenced from land-surface datum.

EXTREMES FOR PERIOD OF RECORD.--Highest water level, 14.92 ft below land-surface datum, Apr. 26, 1983; lowest, 26.64 ft below land-surface datum, Nov. 6, 1982.

WATER LEVEL, IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 1985 TO SEPTEMBER 1986
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	---	---	---	22.31	26.70	21.30	18.37	---	20.43	---	---	21.18
10	24.50	---	21.08	22.59	20.98	21.61	18.50	---	20.44	---	20.56	21.48
15	24.36	---	21.28	22.81	---	21.75	18.96	---	20.76	---	20.78	21.79
20	23.69	---	21.56	22.51	---	19.93	19.42	---	---	---	20.89	22.04
25	23.50	---	21.75	---	---	19.28	---	21.01	---	---	20.81	22.18
EOM	21.04	---	22.08	---	---	18.11	---	20.34	---	---	20.89	22.28
WTR YR 1986	MEAN	21.65	HIGH	18.09	APR 2	LOW	55.90	FEB 6				

GROUND-WATER LEVELS

PENOBSCOT COUNTY

451955068344501. Local number, Pe 457.

LOCATION.--Lat 45°19'55", long 68°34'45", Hydrologic Unit 01020005, in Lincoln about 0.2 mi, southeast of U.S. Highway 2 in South Lincoln on road toward Pollack Brook (South Lincoln Station). Owner: Lincoln Water District.

AQUIFER.--Glacial sand and gravel (ice-contact deposits) of Pleistocene age.

WELL CHARACTERISTICS.--Wash-bored observation water-table well, diameter 2.5 in., depth 39 ft, cased with iron pipe, open hole.

INSTRUMENTATION.--Measurement with chalked tape by local observer.

DATUM.--Elevation of land-surface datum is 200 ft above National Geodetic Datum 1929, from topographic maps.

Measuring point: Top of casing 2.6 ft above land-surface datum.

REMARKS.--Water levels may be affected by pumping from nearby municipal well.

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

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 17.97 ft below land-surface datum, May 2, 1983; lowest measured, 29.62 ft below land-surface datum, Sep. 23, 1985.

WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1985 TO SEPTEMBER 1986

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
Oct. 22	25.87s	Mar. 03	23.90s	Jun. 10	23.12s	Jul. 11	24.70s	Aug. 01	25.60s	Sep. 08	25.50s
Nov. 08	26.13s	31	23.58s	17	23.38s	16	24.60s	18	25.44s	09	25.55s
Jan. 22	25.06s	Apr. 03	22.63s	23	24.31s	18	24.90s	26	25.23s	10	25.40s
Feb. 24	23.64s	28	22.06s	25	23.96s	22	25.55s	28	25.15s	12	25.35s
		May 06	22.50s	26	23.93s	23	24.70s	29	25.20s	15	25.20s
		19	23.30s	27	24.00s	24	25.29s			22	25.50s
				30	24.60s	25	25.48s			25	25.50s
										29	25.70s

s=well pumping

WASHINGTON COUNTY

450713067162801. Local number, W 796.

LOCATION.--Lat 45°07'13", long 67°16'28", Hydrologic Unit 01050001, in Calais, on Charlotte Road, about 2.25 mi south of U.S. Highway 1. Owner: U.S. Government (Moosehorn National Wildlife Refuge).

AQUIFER.--Bedrock of Devonian age.

WELL CHARACTERISTICS.--Drilled observation artesian well, diameter 6 in., September 1967 reported depth 150 ft, cased with steel to 21 ft, open hole. November 1982 measured depth 146 ft.

INSTRUMENTATION.--Measurement with chalked tape by local observer.

DATUM.--Elevation of land-surface datum is about 130 ft above National Geodetic Datum 1929, from topographic maps.

Measuring point: Top of casing at land-surface datum, which is 0.8 ft above the general land surface.

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

EXTREMES FOR PERIOD OF RECORD.--Highest water level observed, overflowed Feb. 14, Sept. 25, and Dec. 16, 1981, Apr. 16, 1982, Mar. 20 and 26, Apr. 22 and 28, May 4, Jun. 1, Dec. 14 and 15, 1983, Apr. 3, 15, and 28, 1984; lowest measured, 5.34 ft below land-surface datum, Sept. 16, 1980.

WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1985 TO SEPTEMBER 1986

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
Oct. 16	3.35	Dec. 21	3.86	Feb. 16	3.96	Apr. 16	0.26	Jun. 26	3.57	Aug. 18	1.76
28	4.82	28	4.19	25	3.72	27	0.22	Jul. 16	4.10	29	1.26
Nov. 15	1.76	Jan. 17	4.51	Mar. 16	3.33	May 15	2.54	27	4.28	Sep. 17	3.64
27	3.10	28	4.18	28	0.24	25	0.86			28	2.44

WASHINGTON COUNTY

445227067520101. Local number, W 797.

LOCATION.--Lat 44°52'27", long 67°52'01", Hydrologic Unit 01050002, about 0.35 mi south of State Highway 9 in Township T24MD, Hadley Lakes. Owner: U.S. Geological Survey.

AQUIFER.--Glacial sand and gravel.

WELL CHARACTERISTICS.--A wash-bored observation well, diameter 2 in., September 1985. Measured depth 30 ft, screened depth 25-30 ft.

INSTRUMENTATION.--Digital water-level recorder--60 minute punch.

DATUM.--Elevation of land-surface datum is 250.00 ft above National Geodetic Datum 1929, from topographic maps.

Measuring point: V-notch on top of casing, northside of shelter which is 3.42 ft above the general land surface.

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

PERIOD OF RECORD.--September 1985 to current year. Records prior to October 1985 have not been published, but are available in the files of the Geological Survey.

EXTREMES FOR PERIOD OF RECORD.--Highest water level 3.29 ft below land surface datum, Mar. 28-31, 1986; lowest water level 6.25 ft below land surface datum, Oct. 12-16, 1985.

WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1985 TO SEPTEMBER 1986
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	---	6.21	---	5.68	4.21	5.14	3.69	3.64	4.06	4.64	5.69	5.37
10	6.21	5.94	---	5.73	4.49	5.29	3.69	3.49	4.18	4.72	5.65	5.47
15	6.25	5.62	5.37	5.78	4.70	5.22	3.66	3.70	4.30	5.31	5.66	5.60
20	6.10	5.29	5.47	5.70	4.91	4.04	3.76	3.89	4.35	5.64	5.75	5.69
25	6.08	5.35	5.52	5.18	5.04	3.94	3.50	3.97	4.44	5.65	5.65	5.77
EOM	6.14	---	5.60	3.87	5.12	3.33	3.39	3.93	4.54	5.73	5.38	5.82
WTR YR 1986	MEAN	6.01	HIGH	3.29	MAR 29 AND OTHERS	LOW	6.25	OCT 12 AND OTHERS				

QUALITY OF GROUND WATER

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1985 TO SEPTEMBER 1986

STATION NUMBER	GEO- LOGIC UNIT	DATE	TIME	SPE- CIFIC CON- DUCT- ANCE (US/CM)	PH (STAND- ARD UNITS)	TEMPER- ATURE (DEG C)	HARD- NESS (MG/L AS CACO3)	CALCIUM DIS- SOLVED (MG/L AS CA)	MAGNE- SIUM, DIS- SOLVED (MG/L AS MG)
AROOSTOOK COUNTY									
463642069344601	340DVNN	10-09-85	11:30	186	7.9	10.0	87	31	2.3
463642069344601		05-07-86	13:45	130	7.3	7.0	78	28	2.0
FRANKLIN COUNTY									
451128070280301	1120TSH	10-03-85	13:00	62	7.0	6.0	21	4.2	2.5
451128070280301		05-05-86	13:30	38	7.3	5.0	19	4.0	2.3
KENNEBEC COUNTY									
440810069553601	340DVNN	10-01-85	11:00	290	7.0	10.0	120	46	2.0
OXFORD COUNTY									
444637070552301	112TILL	10-02-85	13:40	74	6.4	9.0	19	5.1	1.6
WASHINGTON COUNTY									
445227067520101	1120TSH	10-09-85	12:05	29	5.8	9.0	5	1.3	0.3
445227067520101		05-06-86	10:00	15	5.9	8.0	5	1.4	0.4

Geologic unit (aquifer)

1120TSH Outwash, Pleistocene age.

340DVNN Devonian System, Devonian age.

112TILL Till, Pleistocene age.

QUALITY OF GROUND WATER

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CHEMICAL ANALYSES, WATER YEAR OCTOBER 1985 TO SEPTEMBER 1986

STATION NUMBER	SODIUM, DIS- SOLVED (MG/L AS NA)	PERCENT SODIUM	SODIUM AD- SORP- TION RATIO	POTAS- SIUM, DIS- SOLVED (MG/L AS K)	ALKA- LITY LAB (MG/L AS CACO3)	SULFATE DIS- SOLVED (MG/L AS SO4)	CHLO- RIDE, DIS- SOLVED (MG/L AS CL)	FLUO- RIDE, DIS- SOLVED (MG/L AS F)
AROOSTOOK COUNTY,--Continued								
463642069344601	2.6	6	0.1	0.7	81	7.9	4.8	<0.1
463642069344601	2.4	6	0.1	0.3	74	8.2	2.7	<0.1
FRANKLIN COUNTY,--Continued								
451128070280301	2.2	17	0.2	1.7	23	4.0	0.7	<0.1
451128070280301	2.0	17	0.2	1.9	22	5.5	0.5	0.1
KENNEBEC COUNTY,--Continued								
440810069553601	5.5	8	0.2	5.3	104	16	13	<0.1
OXFORD COUNTY,--Continued								
444637070552301	2.9	23	0.3	1.4	15	7.8	1.4	<0.1
WASHINGTON COUNTY,--Continued								
445227067520101	2.3	50	0.5	0.3	6.4	<5.0	0.5	--
445227067520101	2.8	52	0.6	0.3	8.0	1.4	1.5	<0.1

QUALITY OF GROUND WATER

CHEMICAL ANALYSIS, WATER YEAR OCTOBER 1985 TO SEPTEMBER 1986

STATION NUMBER	SILICA, DIS- SOLVED (MG/L AS SIO2)	SOLIDS, RESIDUE AT 180 DEG. C DIS- SOLVED (MG/L)	SOLIDS, SUM OF CONSTITUENTS, DIS- SOLVED (MG/L)	NITRO- GEN, NO2+NO3 TOTAL (MG/L AS N)	PHOS- PHORUS, TOTAL (MG/L AS P)	PHOS- PHORUS TOTAL (MG/L AS PO4)	IRON, DIS- SOLVED (UG/L AS FE)	MANGA- NESE, DIS- SOLVED (UG/L AS MN)
AROOSTOOK COUNTY,--Continued								
463642069344601	9.5	119	110	<0.10	0.02	0.06	97	5
463642069344601	8.6	99	97	<0.10	<0.01	--	20	4
FRANKLIN COUNTY,--Continued								
451128070280301	16	47	46	0.20	0.20	0.61	630	29
451128070280301	15	39	45	<0.10	0.04	0.12	88	11
KENNEBEC COUNTY,--Continued								
440810069553601	10	178	160	0.40	0.03	0.09	11	13
OXFORD COUNTY,--Continued								
444637070552301	14	52	46	0.30	0.03	0.09	2800	43
WASHINGTON COUNTY,--Continued								
445227067520101	--	--	--	--	--	--	1200	36
445227067520101	11	23	25	<0.10	<0.01	--	1400	41

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FACTORS FOR CONVERTING INCH-POUND UNITS TO INTERNATIONAL SYSTEM UNITS (SI)

The following factors may be used to convert the inch-pound units published herein to the International System of Units (SI). This report contains both the inch-pound and SI unit equivalents in the station manuscript descriptions.

Multiply inch-pound units	By	To obtain SI units
<i>Length</i>		
inches (in)	2.54×10^1	millimeters (mm)
	2.54×10^{-2}	meters (m)
feet (ft)	3.048×10^{-1}	meters (m)
miles (mi)	1.609×10^0	kilometers (km)
<i>Area</i>		
acres	4.047×10^3	square meters (m ²)
	4.047×10^{-1}	square hectometers (hm ²)
	4.047×10^{-3}	square kilometers (km ²)
square miles (mi ²)	2.590×10^0	square kilometers (km ²)
<i>Volume</i>		
gallons (gal)	3.785×10^0	liters (L)
	3.785×10^0	cubic decimeters (dm ³)
	3.785×10^{-3}	cubic meters (m ³)
million gallons	3.785×10^3	cubic meters (m ³)
	3.785×10^{-3}	cubic hectometers (hm ³)
cubic feet (ft ³)	2.832×10^1	cubic decimeters (dm ³)
	2.832×10^{-2}	cubic meters (m ³)
cfs-days	2.447×10^3	cubic meters (m ³)
	2.447×10^{-3}	cubic hectometers (hm ³)
acre-feet (acre-ft)	1.233×10^3	cubic meters (m ³)
	1.233×10^{-3}	cubic hectometers (hm ³)
	1.233×10^{-6}	cubic kilometers (km ³)
<i>Flow</i>		
cubic feet per second (ft ³ /s)	2.832×10^1	liters per second (L/s)
	2.832×10^1	cubic decimeters per second (dm ³ /s)
	2.832×10^{-2}	cubic meters per second (m ³ /s)
gallons per minute (gal/min)	6.309×10^{-2}	liters per second (L/s)
	6.309×10^{-2}	cubic decimeters per second (dm ³ /s)
	6.309×10^{-5}	cubic meters per second (m ³ /s)
million gallons per day	4.381×10^1	cubic decimeters per second (dm ³ /s)
	4.381×10^{-2}	cubic meters per second (m ³ /s)
<i>Mass</i>		
tons (short)	9.072×10^{-1}	megagrams (Mg) or metric tons

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